

### GENESEE COUNTY PLANNING BOARD REFERRALS

NOTICE OF FINAL ACTION GCDP Referral ID T-01-PEM-01-23 **Review Date** 1/12/2023 PEMBROKE, T. Municipality **Board Name** PLANNING BOARD Metzger Civil Engineering, PLLC Applicant's Name Site Plan Review Referral Type Variance(s) Description: Site Plan Review to develop a distribution center with six multi-use buildings of approx. 1.5 million square feet. Alleghany Rd. (NYS Rt. 77), Pembroke Location **Zoning District** Agricultural-Residential (A-R) District PLANNING BOARD RECOMMENDS: APPROVAL WITH MODIFICATION(S) **EXPLANATION:** The required modifications are as follows: 1) The applicant obtains a permit from NYS DOT for the proposed

driveways and work with DOT to implement the recommendations proposed by the Traffic Impact Study; and 2) The Town Planning Board obtains comments from the Pembroke Fire Department on the proposed application prior to final approval. With these required modifications, the proposed distribution center should pose no significant county-wide or inter-community impact. It is recommended that the applicant submits the attached application for 9-1-1 Address Verification to the Genesee County Sheriff's Office to ensure that addresses are assigned that meet Enhanced 9-1-1 standards. It is further recommended that the applicant ensure that the proposed buildings will meet the Public Safety Radio System In-Building Coverage Requirement (NYS Fire Code Section 510), and that such requirement be verified post construction by the Code Enforcement Officer or by the Genesee County Sheriff's Office.

January 12, 2023

If the County Planning Board disapproved the proposal, or recommends modifications, the referring agency shall NOT act contrary to the recommendations except by a vote of a majority plus one of all the members and after the adoption of a resolution setting forth the reasons for such contrary action. Within 30 days after the final action the referring agency shall file a report of final action with the County Planning Board. An action taken form is provided for this purpose and may be obtained from the Genesee County Planning Department.

### **SEND OR DELIVER TO:**

GENESEE COUNTY DEPARTMENT OF PLANNING 3837 West Main Street Road

383/ West Main Street Road Batavia, NY 14020-9404 Phone: (585) , % !+ \$% **Clear Form** 

### $\label{eq:Department} \textbf{Department use Only:}$

GCDP Referral # <u>T-01-PEM-01-23</u>



### \* GENESEE COUNTY \* PLANNING BOARD REFERRAL

RECEIVED Genesee County Dept. of Planning 1/5/2023

Required According to:

GENERAL MUNICIPAL LAW ARTICLE 12B, SECTION 239 L, M, N (Please answer ALL questions as fully as possible)

Control of the Contro	(Please answer ALL questions as	s fully as possible)
1. REFERRING BOARD(S) INFORM	APPLICANT 2. APPLICANT	<u> Information</u>
Board(s) Town of Pembroke Plann	ing Board Name Metzge	er Civil Engineering, PLLC
Address 1145 Main Rd	Address 8245	Sheridan Drive
City, State, Zip Corfu NY 14036	City, State, Zip	Williamsville NY 14221
Phone ( <u>585</u> ) 599 - 1209	Ext. Phone (716) 633 -	2601 Ext. Email meteng@roadrunner.com
MUNICIPALITY: City	Town Village of Per	nbroke
3. TYPE OF REFERRAL: (Check all ap	plicable items)	
<ul><li>☐ Area Variance</li><li>☐ Use Variance</li><li>☐ Special Use Permit</li><li>☐ Site Plan Review</li></ul>	☐ Zoning Map Change ☐ Zoning Text Amendments ☐ Comprehensive Plan/Update ☐ Other:	Subdivision Proposal  Preliminary  Final
4. <u>Location of the Real Prop</u>	ERTY PERTAINING TO THIS REF	ERRAL:
A. Full Address 8524 Alleghany	Rd Corfu NY 14036	
B. Nearest intersecting road 5 & 7	77	
C. Tax Map Parcel Number 151	-24.1	
D. Total area of the property 210	Area of prop	perty to be disturbed about 70 acres
E. Present zoning district(s) Interes	change (INT) District	
5. REFERRAL CASE INFORMATION		l : D 12
•	y reviewed by the Genesee County Pl	lanning Board?
	date and action taken	
B. Special Use Permit and/or Vari	ances refer to the following section(s)	) of the present zoning ordinance and/or law
C. Please describe the nature of th	is request Site Plan Review for Inc	dustrial Park
<b>6. ENCLOSURES</b> – Please enclose cop	y(s) of all appropriate items in regard	to this referral
<ul><li>■ Local application</li><li>■ Site plan</li><li>■ Subdivision plot plans</li><li>■ SEQR forms</li></ul>	<ul> <li>Zoning text/map amendment</li> <li>Location map or tax maps</li> <li>Elevation drawings</li> <li>Agricultural data statement</li> </ul>	New or updated comprehensive plan Photos Other: SWPPP, traffic study, shpo letter USACOE jurisdiction determination
7. <b>CONTACT INFORMATION</b> of the p	person representing the community in	n filling out this form (required information)
Name Jim Wolbert	Title CEO / ZEO	Phone (585) 599 -1209 Ext.
Address, City, State, Zip 1145 Main F	Rd Corfu NY 14036	Email zoning-codes@townofpembroke.org

### TOWN OF PEMBROKE 1145 MAIN ROAD CORFU, NEW YORK 14036

585-599-4892

APPLICATION FOR:  SPECIAL USE PERMIT  TEMP. SPECIAL USE PERMIT  USE VARIANCE  AREA VARIANCE	ZONING APPEAL LAND SEPARATION SUB DIVISION ZONE DISTRICT CHANGE SITE PLAN REVIEW	DATE APPLIED FOR APPLICATION NUMBER REFERRED TO PLANNING REFERRED TO ZBA PUBLIC HEARING REQ.	-5-73   10     1-25-23
TELEPHONE # SPRING VALLE  PROPERTY OWNER (IF OTHER THAN AF  NAME HORIZON ACRES ASSO  ADDRESS 66 TRUM A  57MHC VALLEY	TAX M  Y NY 10977 ZONI  -3838 SIZ  BOVE)  OCIATES INC  W AVENUE  TAX M  CURRENT S	LOCATION# 8524 Au AP PARCEL# 15-1-27, NG DISTRICT IMTERENT E OF PARCEL Z10.7 CORNER LOT MAIN 5:  ET BACK OF BUILDING FRONT REAR SIDE —	1 guse
PERMIT OR VARIANCE FOR:  X NEW CONSTRUCTION  ADDITION  SIGN  HOME OCCUPATION  OTHER		OR A VARIANCE PLEASE STATE R WHICH THE VARIANCE REQU ARIANCE	
DOES THIS PROJECT REQUIRE APPROVA  GENESEE CO. HEALTH DEPARTION GENESEE CO. SOIL & WATER DEPARTMENT OF TRANSPORTA COUNTY PLANNING DEPARTMENT D.E.C.	MENT         TOWN BO           Z.B.A.         X           Y         PLANNING	ARD G BOARD	
DESCRIPTION OF PROPOSED PROJECT O CONSTRUCT & NEW 1	DR REASON FOR PERMIT REQUEST DISTRIBUTION 1 STORA	ie Warestonse VI	V 17")
INSTRUCTIONS FOR COMPLETING THIS  1. INCLUDE SITE SKETCH PLAN, PREFE  2. IF APPLICANT IS NOT THE OWNER OF REQUIRED TO OBTAIN WRITTEN PER  3. A SEQR FORM (EAF) MUST BE INCLU  4. APPLICANT OR REPRESENTATIVE SE	RABLY A LAND SURVEY WITH CUR F THE LAND ON WHICH THE PROPO MISSION FROM THE LAND OWNER DED WITH THE APPLICATION.	SED PROJECT IS LOCATED, TH FOR THE PROJECT.	CKS. EY ARE THEN
NOTE: IF THE REQUEST IS FOR A USE OF RECOMMENDATION TO THE ZONING BOARD ICANT SIGNATURE	R AREA VARIANCE, THE PLANNING OARD OF APPEALS FOR APPROVAL	BOARD'S ONLY ACTION WILL OR DISAPPROVAL.	BE TO MAKE A

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TITLE DELL COD OVER DE		SPECIAL USE PERM	
THE PEMBROKE PI	LANNING BOARD AT A	MEETING HELD ON	HAS HEREBY
(APPROVED)	(DISAPPROVED)	APPLICATION #	FOR A SPECIAL USE PERMIT TO
CONDUCT A	· · · · · · · · · · · · · · · · · · ·	<u></u>	ON PROPERTY IDENTIFIED AS
TAX MAP #			
THE FOLLOWING R	ESTRICTIONS HAVE BI	EEN IMPOSED AS A CONDITIO	N OF APPROVAL
	:		
· · · · · · · · · · · · · · · · · · ·	And the second second		
DATED	CHAIRM	AN OF THE PLANNING BOAF	<b>w</b>
	ZONING	OFFICER	
The applicant agrees to	the Special Conditions im		
The applicant agrees to	o die Special Conditions im	posed with approval	Signature
Dated	•		Digitature
		LAND SEPARATION PE	
THE PEMBROKE PL	ANNING BOARD AT A I	MEETING HELD ON	HAS HEREBY
(APPROVED)	(DISAPPROVED)	APPLICATION #	FOR A LAND SEPARATION FROM
PROPERTY IDENTIF	TED AS TAX MAP #		
PLEASE NOTE: THI	IS PERMIT WILL NOT	RE ISSUED UNTIL A SURVEY	FOR THE NEWLY CREATED PARCEL IS
SUBMITTED TO TH	E TOWN CLERK.		TOR THE TAX ORDERED THROUGH IN
		N OF THE PLANNING BOARI	<b>5</b>
		R SENT TO APPLICANT FOR	FILING WITH COUNTY (Date)
FILED WITH COUN	1 Y (Date)		
		VARIANCE	
THE DEMBRAYE BA	: ARD OF APPEALS AT A	ZONING BOARD OF APPEALS	
			HAS HEREBY
(APPROVED)	•	APPLICATION #	FOR (AN AREA) OR (A USE)
	PERTY IDENTIFIED AS T	TAX MAP #	
FOR THE FOLLOWIN	IG PURPOSE		
			·
<u> </u>	<u> </u>		
THE FOLLOWING RE	ESTRICTIONS HAVE BE	EN IMPOSED AS A CONDITION	I OF APPROVAL
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DATED		AN ZONING BOARD OF APPE	ALS
he applicant agrees to	the Special Conditions imp	osed with approval	
Dated			Signature

### Full Environmental Assessment Form Part 1 - Project and Setting

### **Instructions for Completing Part 1**

Part 1 is to be completed by the applicant or project sponsor. Responses become part of the application for approval or funding, are subject to public review, and may be subject to further verification.

Complete Part 1 based on information currently available. If additional research or investigation would be needed to fully respond to any item, please answer as thoroughly as possible based on current information; indicate whether missing information does not exist, or is not reasonably available to the sponsor; and, when possible, generally describe work or studies which would be necessary to update or fully develop that information.

Applicants/sponsors must complete all items in Sections A & B. In Sections C, D & E, most items contain an initial question that must be answered either "Yes" or "No". If the answer to the initial question is "Yes", complete the sub-questions that follow. If the answer to the initial question is "No", proceed to the next question. Section F allows the project sponsor to identify and attach any additional information. Section G requires the name and signature of the applicant or project sponsor to verify that the information contained in Part 1 is accurate and complete.

### A. Project and Applicant/Sponsor Information.

Name of Action or Project:		
Distribution Center 90	No.	
Project Location (describe, and attach a general location map):		
Allegany Road, Pembroke, Genesee County, New York		
Brief Description of Proposed Action (include purpose or need):		THE SHOP THE R.
Construction of a distribution center off of New York State Thruway I-90 exit 48A confeet.	nsisting of 6 multi-use structures o	of approximately 1,500,000 square
Name of Applicant/Changer	Telephone: 216-218-3	500
Name of Applicant/Sponsor:		
Geis Construction	E-Mail: JM@Geisco.r	net
Address: 10020 Aurora-Hudson Road		
City/PO: Streetsboro	State: Ohio	Zip Code: 44241
Project Contact (if not same as sponsor; give name and title/role):	Telephone: 216-218-3	508
Jeffrey Martin, President	E-Mail: JM@Geisco.net	
Address: 10029 Aurora- Hudson Road		
City/PO:	State:	Zip Code:
Streetsboro	Ohio	44241
Property Owner (if not same as sponsor):	Telephone: 914-906-3	3838
Horizon Acres Associates, Inc.	E-Mail: aron@horizor	nacres.com
Address:		
66 Truman Avenue	Ctata	7in Codo:
City/PO: Spring Valley	State: NY	Zip Code:

### **B.** Government Approvals

B. Government Approval assistance.)	ls, Funding, or Spo	nsorship. ("Funding" includes grants, loans, t	ax relief, and any other	er forms of financial
Government	Entity	If Yes: Identify Agency and Approval(s) Required	Applicat (Actual or	
a. City Counsel, Town Boa or Village Board of Trus				
b. City, Town or Village Planning Board or Com		Site Plan Approval	January, 2023	
c. City, Town or Village Zoning Board of				
d. Other local agencies	□Yes□No			
e. County agencies	<b>Z</b> Yes□No	Genesee County Planning, Health Department	January, 2023	
f. Regional agencies	□Yes□No			
g. State agencies	<b>Z</b> Yes□No	NYSDOT - ROW Highway Work Permit NYSDEC - Wetand review - sanitary sewer	December 2022 and Ja	nuary 2023
h. Federal agencies	<b>Z</b> Yes□No	USACOE - Wetland review	December 2022	
i. Coastal Resources.     i. Is the project site with	hin a Coastal Area, o	or the waterfront area of a Designated Inland W	Vaterway?	□Yes <b>☑</b> No
ii. Is the project site loca iii. Is the project site with		with an approved Local Waterfront Revitaliza n Hazard Area?	tion Program?	☐ Yes ☑ No ☐ Yes ☑ No
C. Planning and Zoning				
C.1. Planning and zoning				
only approval(s) which mu  • If Yes, complete s	ust be granted to enab sections C, F and G.	mendment of a plan, local law, ordinance, rule ble the proposed action to proceed? implete all remaining sections and questions in l		□Yes <b>☑</b> No
C.2. Adopted land use pla	ins.			
where the proposed actio	on would be located?	lage or county) comprehensive land use plan(s		<b>∠</b> Yes□No
b. Is the site of the proposed Brownfield Opportunity or other?)  If Yes, identify the plan(s):	Area (BOA); design	local or regional special planning district (for enated State or Federal heritage area; watershed	xample: Greenway; management plan;	□Yes ☑No
c. Is the proposed action lo or an adopted municipal If Yes, identify the plan(s):	farmland protection	tially within an area listed in an adopted munic n plan?	ipal open space plan,	□Yes <b>☑</b> No
-				

C.3. Zoning		
a. Is the site of the proposed action located in a municipality with an adopted zon If Yes, what is the zoning classification(s) including any applicable overlay district Interchange	ing law or ordinance.	<b>☑</b> Yes <b>□</b> No
b. Is the use permitted or allowed by a special or conditional use permit?		✓ Yes No
c. Is a zoning change requested as part of the proposed action?  If Yes,  i. What is the proposed new zoning for the site?		☐ Yes  No
C.4. Existing community services.		
a. In what school district is the project site located? Pembroke Central School District	ct	
b. What police or other public protection forces serve the project site? Corfu Police, Genesee County, NYS Troopers		
c. Which fire protection and emergency medical services serve the project site?  Pembroke Fire Department		
d. What parks serve the project site?  Pembroke Town Park		
D. Project Details		
D.1. Proposed and Potential Development		
What is the general nature of the proposed action (e.g., residential, industrial, components)? Commercial, Industrial	ommercial, recreational; if mixe	ed, include all
b. a. Total acreage of the site of the proposed action?  b. Total acreage to be physically disturbed?  c. Total acreage (project site and any contiguous properties) owned	210.7 acres 103.7 acres	
or controlled by the applicant or project sponsor?	210.7 acres	
c. Is the proposed action an expansion of an existing project or use?  i. If Yes, what is the approximate percentage of the proposed expansion and idequare feet)? %  Units:	entify the units (e.g., acres, mile	Yes No No es, housing units,
square feet)? % Units:  d. Is the proposed action a subdivision, or does it include a subdivision?		☐Yes <b>Z</b> No
If Yes, <i>i.</i> Purpose or type of subdivision? (e.g., residential, industrial, commercial; if m	ixed, specify types)	
<ul><li>ii. Is a cluster/conservation layout proposed?</li><li>iii. Number of lots proposed?</li></ul>		□Yes□No
iv. Minimum and maximum proposed lot sizes? Minimum Maximum	num	
<ul><li>e. Will the proposed action be constructed in multiple phases?</li><li>i. If No, anticipated period of construction:</li><li>ii. If Yes:</li></ul>	months	<b>∠</b> Yes <b>\</b> No
<ul> <li>Total number of phases anticipated</li> <li>Anticipated commencement date of phase 1 (including demolition)</li> <li>Anticipated completion date of final phase</li> </ul>	2 month 2023 year 12 month 2028 year 2 any contingencies where prog	ress of one phase may
determine timing or duration of future phases:	s any contingencies where prog	
ruture priasing is dependant on market conditions		

f. Does the project	ct include new resid	dential uses?			☐ Yes ✓ No	
If Yes, show nun	bers of units propo					
	One Family	Two Family	Three Family	Multiple Family (four or more)		
Initial Phase						
At completion						
of all phases						
	osed action include	new non-residentia	al construction (inclu	iding expansions)?	✓ Yes   No	
If Yes,						
	of structures		20 haishti	260 width: and 1130 length		
ii. Dimensions (	in feet) of largest p	space to be bested	or cooled:	260 width; and130 length square feet		
h. Does the propo	osed action include	construction or oth	ner activities that wil	l result in the impoundment of any	☐ Yes ☑ No	
	s creation of a water	er supply, reservoir	, pond, lake, waste la	agoon or other storage?		
If Yes,						
i. Purpose of the	e impoundment: oundment, the prin	. 1		☐ Ground water ☐ Surface water strea	ms DOther specify:	
ii. If a water imp	oundment, the prin	cipal source of the	water:	Ground water Surface water strea	ins Library.	
::: If other than	water identify the t	una of impounded	contained liquids an	d their source		
m. If other than v	vater, identify the t	ype of impounded/	contained riquids an	d their source.		
iv Approximate	size of the propose	ed impoundment	Volume:	million gallons: surface area:	acres	
v Dimensions o	of the proposed dan	or impounding st	nicture.	million gallons; surface area:height;length		
vi Construction	method/materials	for the proposed da	m or impounding st	ructure (e.g., earth fill, rock, wood, con-	crete):	
rii Constitution						
D.2. Project Op	erations					
		any evenuation m	ining or dredging d	uring construction, operations, or both?	Yes <b>√</b> No	
Olot including	general site prepar	any excavation, in	ining, or dicaging, a	or foundations where all excavated		
materials will i		ation, grading or in	istaliation of tunities	of foundations where the electrical		
If Yes:	chiam onsite)					
	irpose of the excav	ation or dredging?				
ii. How much ma	terial (including ro	ck. earth, sediment	s, etc.) is proposed t	o be removed from the site?		
				3.7.5.5.5.5.5.5.5.5.5.5.5.5.5.5.5.5.5.5.		
<ul> <li>Over wh</li> </ul>	nat duration of time	?				
iii. Describe natu	re and characteristi	cs of materials to b	e excavated or dred	ged, and plans to use, manage or dispos	e of them.	
	A STATE OF THE STA					
					П. П.	
			cavated materials?		☐Yes☐No	
If yes, descri	be					
				acres		
				acres		
			or dredging?	feet	□Vaa□Na	
	avation require blas				☐Yes ☐No	
ix. Summarize sit	te reclamation goal	s and plan:				
-						
b. Would the pro	posed action cause	or result in alterati	on of, increase or de	crease in size of, or encroachment	<b>✓</b> Yes No	
into any existi	ing wetland, waterb	oody, shoreline, bea	ach or adjacent area?			
If Yes:	If Yes:  i. Identify the wetland or waterbody which would be affected (by name, water index number, wetland map number or geographic					
				water index number, wetland map numb	er or geographic	
description):	Federal wetlands to b	e impacted as allowed	ed by the USACOE			

ii. Describe how the proposed action would affect that waterbody or wetland, e.g. excavation, fill, placer alteration of channels, banks and shorelines. Indicate extent of activities, alterations and additions in so	nent of structures, or quare feet or acres:
0.21 acre of Federal wetland area will be filled	
i. Will the proposed action cause or result in disturbance to bottom sediments?	□Yes <b>☑</b> No
If Yes, describe:	
v. Will the proposed action cause or result in the destruction or removal of aquatic vegetation?	☐ Yes <b>Z</b> No
If Yes:	
acres of aquatic vegetation proposed to be removed:	
expected acreage of aquatic vegetation remaining after project completion:	
<ul> <li>purpose of proposed removal (e.g. beach clearing, invasive species control, boat access):</li> </ul>	
proposed method of plant removal:	
if chemical/herbicide treatment will be used, specify product(s):	
Describe any proposed reclamation/mitigation following disturbance:	
	<b>✓</b> Yes <b>N</b> o
Will the proposed action use, or create a new demand for water?	M 1 C2 1140
Yes:  i. Total anticipated water usage/demand per day:  6,075 gallons/day	
i. Total anticipated water usage/demand per day: 6,075 gallons/day ii. Will the proposed action obtain water from an existing public water supply?	<b>Z</b> Yes □No
Yes:	
N. C.	
De la	✓ Yes No
	✓ Yes No
Is the project site in the existing district?	☐ Yes ✓ No
Is expansion of the district needed?	✓ Yes No
Do existing lines serve the project site?	☐Yes <b>Z</b> No
i. Will line extension within an existing district be necessary to supply the project? Yes:	L Tes VIVO
Describe extensions or capacity expansions proposed to serve this project:	
Source(s) of supply for the district:	
iv. Is a new water supply district or service area proposed to be formed to serve the project site?	☐ Yes ✓ No
; Yes:	
Applicant/sponsor for new district:	
Date application submitted or anticipated:	
v. If a public water supply will not be used, describe plans to provide water supply for the project:	
i. If water supply will be from wells (public or private), what is the maximum pumping capacity:	_ gallons/minute.
. Will the proposed action generate liquid wastes?	<b>Z</b> Yes □No
Yes:	
i Total anticipated liquid waste generation per day: 6,750 gallons/day	
ii. Nature of liquid wastes to be generated (e.g., sanitary wastewater, industrial; if combination, describe	all components and
approximate volumes or proportions of each):	
Sanitary Wastewater	
	<b></b> N
i. Will the proposed action use any existing public wastewater treatment facilities?	<b>✓</b> Yes <b>□</b> No
If Yes:	
Name of wastewater treatment plant to be used: Pembroke WWTP	
Name of district: Pembroke Sanitary District 1	<b>Z</b> Yes □No
<ul> <li>Does the existing wastewater treatment plant have capacity to serve the project?</li> </ul>	✓ Yes No
Is the project site in the existing district?	
<ul> <li>Is expansion of the district needed?</li> </ul>	☐ Yes ✓ No

<ul> <li>Do existing sewer lines serve the project site?</li> <li>Will a line extension within an existing district be necessary to serve the project?</li> <li>If Yes:         <ul> <li>Describe extensions or capacity expansions proposed to serve this project:</li> <li>Proposed gravity sanitary sewer extention along Allegany Road</li> </ul> </li> </ul>	☑Yes□No ☑Yes□No
<ul> <li>iv. Will a new wastewater (sewage) treatment district be formed to serve the project site?</li> <li>If Yes:         <ul> <li>Applicant/sponsor for new district:</li> <li>Date application submitted or anticipated:</li> </ul> </li> </ul>	□Yes <b>Z</b> No
Date application submitted or anticipated:	
What is the receiving water for the wastewater discharge?	
v. If public facilities will not be used, describe plans to provide wastewater treatment for the project, including spec receiving water (name and classification if surface discharge or describe subsurface disposal plans):	
vi. Describe any plans or designs to capture, recycle or reuse liquid waste:	
e. Will the proposed action disturb more than one acre and create stormwater runoff, either from new point sources (i.e. ditches, pipes, swales, curbs, gutters or other concentrated flows of stormwater) or non-point source (i.e. sheet flow) during construction or post construction? If Yes:	<b>Z</b> Yes□No
<ul> <li>i. How much impervious surface will the project create in relation to total size of project parcel?</li> <li>Square feet or</li></ul>	
Square feet or 210.7 acres (parcel size)	
ii. Describe types of new point sources. Surface runoff from buildings, parking and roadways	
iii. Where will the stormwater runoff be directed (i.e. on-site stormwater management facility/structures, adjacent p groundwater, on-site surface water or off-site surface waters)? On site bio-retention areas and wet ponds with outlet control structures per NYSDEC regulations	
If to surface waters, identify receiving water bodies or wetlands:	
• Will stormwater runoff flow to adjacent properties?  iv. Does the proposed plan minimize impervious surfaces, use pervious materials or collect and re-use stormwater?	✓ Yes No ✓ Yes No
f. Does the proposed action include, or will it use on-site, one or more sources of air emissions, including fuel combustion, waste incineration, or other processes or operations? If Yes, identify:	□Yes <b>☑</b> No
i. Mobile sources during project operations (e.g., heavy equipment, fleet or delivery vehicles)	
ii. Stationary sources during construction (e.g., power generation, structural heating, batch plant, crushers)	
iii. Stationary sources during operations (e.g., process emissions, large boilers, electric generation)	
g. Will any air emission sources named in D.2.f (above), require a NY State Air Registration, Air Facility Permit, or Federal Clean Air Act Title IV or Title V Permit? If Yes:	□Yes ☑ No
i. Is the project site located in an Air quality non-attainment area? (Area routinely or periodically fails to meet ambient air quality standards for all or some parts of the year)	□Yes□No
ii. In addition to emissions as calculated in the application, the project will generate:	
•Tons/year (short tons) of Carbon Dioxide (CO <sub>2</sub> )	
<ul> <li>Tons/year (short tons) of Nitrous Oxide (N<sub>2</sub>O)</li> <li>Tons/year (short tons) of Perfluorocarbons (PFCs)</li> </ul>	
•lons/year (short tons) of Perhudiocarbons (FPCs) • Tons/year (short tons) of Sulfur Hexafluoride (SF <sub>6</sub> )	
Tons/year (short tons) of Carbon Dioxide equivalent of Hydroflourocarbons (HFCs)	
Tons/year (short tons) of Hazardous Air Pollutants (HAPs)	

h. Will the proposed action generate or emit methane (included and fills, composting facilities)?  If Yes:  i. Estimate methane generation in tons/year (metric):		□Yes No
ii. Describe any methane capture, control or elimination me electricity, flaring):	easures included in project design (e.g., combustion to g	enerate heat or
Will the proposed action result in the release of air polluta quarry or landfill operations?  If Yes: Describe operations and nature of emissions (e.g., di		□Yes <b>☑</b> No
<ul> <li>j. Will the proposed action result in a substantial increase in new demand for transportation facilities or services?</li> <li>If Yes: <ul> <li>i. When is the peak traffic expected (Check all that apply).</li> <li>□ Randomly between hours of</li></ul></li></ul>	: ☐ Morning ☐ Evening ☐ Weekend	
<ul> <li>iii. Parking spaces: Existing</li></ul>	Proposed Net increase/decrease g? sting roads, creation of new roads or change in existing available within ½ mile of the proposed site? ortation or accommodations for use of hybrid, electric	
<ul> <li>k. Will the proposed action (for commercial or industrial profor energy?</li> <li>If Yes:  <ul> <li>i. Estimate annual electricity demand during operation of the 3500 KW</li> </ul> </li> <li>ii. Anticipated sources/suppliers of electricity for the project other):  <ul> <li>Local Grid</li> <li>iii. Will the proposed action require a new, or an upgrade, to</li> </ul> </li> </ul>	the proposed action:ct (e.g., on-site combustion, on-site renewable, via grid/l	✓ Yes No
Hours of operation. Answer all items which apply.     i. During Construction:	ii. During Operations:       24 hrs         • Monday - Friday:       24 hrs         • Saturday:       24 hrs         • Sunday:       24 hrs         • Holidays:       24 hrs	

m. Will the proposed action produce noise that will exceed existing ambient noise levels during construction, operation, or both?	✓ Yes □ No
If yes:	
<ol> <li>Provide details including sources, time of day and duration:</li> </ol>	
Typical construction noise	
Will death of the state of the	☐ Yes ☑ No
ii. Will the proposed action remove existing natural barriers that could act as a noise barrier or screen?	LI TES MINO
Describe: Currently a cornfield	
	<b>5</b> 11 <b>5</b> 11
n. Will the proposed action have outdoor lighting?	<b>Z</b> Yes □ No
If yes:	
i. Describe source(s), location(s), height of fixture(s), direction/aim, and proximity to nearest occupied structures:	
Buildings will have wall pack lighting to provide for safety of night deliveries and security. Street lighting will be provided as well	
ii. Will proposed action remove existing natural barriers that could act as a light barrier or screen?	☐ Yes ☑ No
Describe: Currently a cornfield	
Describe. Currently a cornileid	
o. Does the proposed action have the potential to produce odors for more than one hour per day?	✓ Yes   No
If Yes, describe possible sources, potential frequency and duration of odor emissions, and proximity to nearest	
occupied structures:	
Diesel truck traffic	
p. Will the proposed action include any bulk storage of petroleum (combined capacity of over 1,100 gallons)	☐ Yes ☑ No
or chemical products 185 gallons in above ground storage or any amount in underground storage?	
If Yes:	
i. Product(s) to be stored	
ii. Volume(s) per unit time (e.g., month, year)	
iii. Generally, describe the proposed storage facilities:	
q. Will the proposed action (commercial, industrial and recreational projects only) use pesticides (i.e., herbicides,	☐ Yes ☑ No
insecticides) during construction or operation?	- The state of the
If Yes:	
i. Describe proposed treatment(s):	
Electrical Electrical States of Section 1997	
ii. Will the proposed action use Integrated Pest Management Practices?	✓ Yes □ No
r. Will the proposed action (commercial or industrial projects only) involve or require the management or disposal	✓ Yes □ No
of solid waste (excluding hazardous materials)?	
If Yes:	
i. Describe any solid waste(s) to be generated during construction or operation of the facility:	
Construction:	
Operation:	
ii. Describe any proposals for on-site minimization, recycling or reuse of materials to avoid disposal as solid waste:	
Construction: Temporary dumpsters	
Operation:Recycle bins/ cardboard dumpsters	
::: Degraded dispassal matheda/facilities for solid waste generated on site:	
iii. Proposed disposal methods/facilities for solid waste generated on-site:	
Construction: Licensed hauler to certified landfill	
Operation: Licensed hauler to certified landfill	
Operation: Licensed hauler to certified landfill	

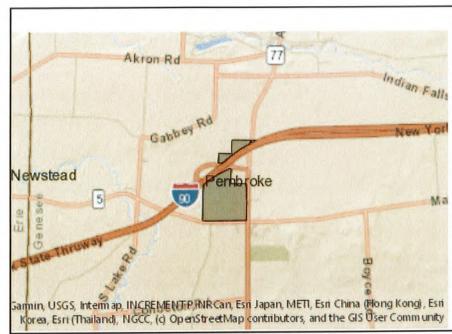
				[m] [7] >:	
	s. Does the proposed action include construction or modification of a solid waste management facility?				
	res:			landfill or	
i.	Type of management or handling of waste proposed f	for the site (e.g., recycling	or transfer station, composting	g, fandini, or	
	other disposal activities):  Anticipated rate of disposal/processing:				
11.	Tons/month, if transfer or other non-compared transfer or	ombustion/thermal treatme	ent or		
	Tons/hour, if combustion or thermal tr		chi, or		
iii	If landfill, anticipated site life:				
	/ill the proposed action at the site involve the commerce		r - 1 - Ch d	Dva ZNa	
		cial generation, treatment,	storage, or disposal of nazardo	ous I res Mino	
	vaste?				
If Y	Name(s) of all hazardous wastes or constituents to be	generated handled or man	paged at facility:		
1.	Name(s) of all liazardous wastes of constituents to be	generated, handled or mai	laged at facility.		
ii.	Generally describe processes or activities involving ha	zardous wastes or constit	uents:		
iii	Specify amount to be handled or generated to	ns/month			
iv.	Describe any proposals for on-site minimization, recy	cling or reuse of hazardou	is constituents:		
	Will any hazardous wastes be disposed at an existing	offsita hazardane wasta fa	ecility?	□Yes□No	
If V	'es: provide name and location of facility:	Offsite nazardous waste ta	icinty?	1630110	
11 1	es. provide name and location of facility.				
IfN	lo: describe proposed management of any hazardous w	astes which will not be se	ent to a hazardous waste facility	<i>/</i> :	
	F - F				
E.	Site and Setting of Proposed Action				
-					
E.	1. Land uses on and surrounding the project site				
	Existing land uses.				
_ i	. Check all uses that occur on, adjoining and near the p	project site.			
	Urban ☐ Industrial ☑ Commercial ☐ Reside	ential (suburban) L Ru	iral (non-farm)		
Ц	Forest Agriculture Aquatic Other	(specify):			
11.	If mix of uses, generally describe:				
	NYS Thruway, Truck stops, Restaurants, Hotels				
_					
b. I	and uses and covertypes on the project site.				
	Land use or	Current	Acreage After	Change	
	Covertype	Acreage	Project Completion	(Acres +/-)	
•	Roads, buildings, and other paved or impervious		70.0	.70.0	
	surfaces	0	79.0	+79.0	
•	Forested	0	0	0	
•	Meadows, grasslands or brushlands (non-	94.20	70.20	-2.0	
	agricultural, including abandoned agricultural)	81.29	79.29	-2.0	
•	Agricultural	80.0	0	-80.0	
	(includes active orchards, field, greenhouse etc.)	60.0	ů l	-00.0	
•	Surface water features		2.0	.00	
	(lakes, ponds, streams, rivers, etc.)	0	3.0	+3.0	
Wetlands (freshwater or tidal)     49.41     49.41     0					
Non-vegetated (bare rock, earth or fill)     0     0					
		U	U	U	
•					
	Describe:				
			1		

d. Are there any facilities serving children, the elderly, people with disabilities (e.g., schools, hospitals, licensed day care centers, or group homes) within 1500 feet of the project site?  If Yes,  I. Identify Facilities:    Peebland   Peebland	c. Is the project site presently used by members of the community for public recreation?  i. If Yes: explain:	□Yes☑No
If Yes:   1. Dimensions of the dam and impoundment:	d. Are there any facilities serving children, the elderly, people with disabilities (e.g., schools, hospitals, licensed day care centers, or group homes) within 1500 feet of the project site?  If Yes,	I □Yes <b>☑</b> No
If Yes:  i. Dimensions of the dam and impoundment:  Dam height: Da		
i. Dimensions of the dam and impoundment:  • Dam height:  • Dam length:  • Surface area:  • Volume impounded:  iii. Dam's existing hazard classification:  iii. Provide date and summarize results of last inspection:  f. Has the project site ever been used as a municipal, commercial or industrial solid waste management facility,		∐Yes <b>∠</b> No
Dam length: Surface area: Quildous impounded: Quality Provide date and summarize results of last inspection:  It. Dam's existing hazard classification: Quality Provide date and summarize results of last inspection:  It. Has the project site ever been used as a municipal, commercial or industrial solid waste management facility,   Yes   No or does the project site adjoin property which is now, or was at one time, used as a solid waste management facility?   Yes   No   If yes, cite sources/documentation: It. Describe the location of the project site relative to the boundaries of the solid waste management facility:  It. Describe any development constraints due to the prior solid waste activities:  Quality Have hazardous wastes been generated, treated and/or disposed of at the site, or does the project site adjoin property which is now or was at one time used to commercially treat, store and/or dispose of hazardous waste?   Yes   No    Describe waste(s) handled and waste management activities, including approximate time when activities occurred:    Potential contamination history. Has there been a reported spill at the proposed project site, or have any remedial actions been conducted at or adjacent to the proposed site?   Yes   No      Potential contamination of the site listed on the NYSDEC Spills Incidents database or Environmental Site   Yes   No     Remediation database? Check all that apply:   Yes = Environmental Site Remediation database   Provide DEC ID number(s):   Provide DEC ID number(s):     Yes = Environmental Site Remediation database   Provide DEC ID number(s):   Provide DEC ID number(s		
Surface area:  Volume impounded:  gallons OR acre-feet  ii. Dam's existing hazard classification:  iii. Provide date and summarize results of last inspection:  [Has the project site ever been used as a municipal, commercial or industrial solid waste management facility, or does the project site adjoin property which is now, or was at one time, used as a solid waste management facility?  If Yes:  I. Has the facility been formally closed?  If yes, cite sources/documentation:  ii. Describe the location of the project site relative to the boundaries of the solid waste management facility:  iii. Describe any development constraints due to the prior solid waste activities:  g. Have hazardous wastes been generated, treated and/or disposed of at the site, or does the project site adjoin property which is now or was at one time used to commercially treat, store and/or dispose of hazardous waste?  If Yes:  i. Describe waste(s) handled and waste management activities, including approximate time when activities occurred:  h. Potential contamination history. Has there been a reported spill at the proposed project site, or have any remedial actions been conducted at or adjacent to the proposed site?  If Yes:  i. Is any portion of the site listed on the NYSDEC Spills Incidents database or Environmental Site		
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remedial actions been conducted at or adjacent to the proposed site?  If Yes:  i. Is any portion of the site listed on the NYSDEC Spills Incidents database or Environmental Site  Remediation database? Check all that apply:  Yes – Spills Incidents database  Provide DEC ID number(s):  Yes – Environmental Site Remediation database  Neither database  ii. If site has been subject of RCRA corrective activities, describe control measures:  iii. Is the project within 2000 feet of any site in the NYSDEC Environmental Site Remediation database?  Yes ✓ No  If yes, provide DEC ID number(s):		urred:
remedial actions been conducted at or adjacent to the proposed site?  If Yes:  i. Is any portion of the site listed on the NYSDEC Spills Incidents database or Environmental Site  Remediation database? Check all that apply:  Yes – Spills Incidents database  Provide DEC ID number(s):  Yes – Environmental Site Remediation database  Neither database  ii. If site has been subject of RCRA corrective activities, describe control measures:  iii. Is the project within 2000 feet of any site in the NYSDEC Environmental Site Remediation database?  Yes ✓ No  If yes, provide DEC ID number(s):	Detential contamination history. Has there been a reported spill at the proposed, project site, or have any	□Ves∇ No
i. Is any portion of the site listed on the NYSDEC Spills Incidents database or Environmental Site  Remediation database? Check all that apply:  Yes − Spills Incidents database  Provide DEC ID number(s):  Provide DEC ID number(s):  Neither database  ii. If site has been subject of RCRA corrective activities, describe control measures:  iii. Is the project within 2000 feet of any site in the NYSDEC Environmental Site Remediation database?  □ Yes □ No  Hyes □ No  Yes □ No  Yes □ No  Yes □ No  Yes □ No	remedial actions been conducted at or adjacent to the proposed site?	1036 110
Yes − Environmental Site Remediation database   Provide DEC ID number(s):     Neither database     Neither data	i. Is any portion of the site listed on the NYSDEC Spills Incidents database or Environmental Site	□Yes□No
Yes − Environmental Site Remediation database   Provide DEC ID number(s):     Neither database     Neither data	☐ Yes – Spills Incidents database Provide DEC ID number(s):	
iii. Is the project within 2000 feet of any site in the NYSDEC Environmental Site Remediation database? ☐ Yes ☑ No If yes, provide DEC ID number(s):	Yes – Environmental Site Remediation database Provide DEC ID number(s):	
If yes, provide DEC ID number(s):	i. If site has been subject of RCRA corrective activities, describe control measures:	
		☐ Yes ✓ No

7. 15 the project site subject to an institutional control	ol limiting property uses?	☐ Yes☐No
<ul> <li>If yes, DEC site ID number:</li> </ul>		
	g., deed restriction or easement):	
Describe any use limitations:		
Describe any engineering controls:	gineering controls in place?	
		☐ Yes ☐ No
Explain:		
EAN AND AND AND AND AND AND AND AND AND A		
E.2. Natural Resources On or Near Project Site		
a. What is the average depth to bedrock on the projec	t site?	
b. Are there bedrock outcroppings on the project site?	?	☐ Yes <b>Z</b> No
If Yes, what proportion of the site is comprised of bed		
		0/
c. Predominant soil type(s) present on project site:		2%
		-% -%
	Dunkirk silt loam	2_%
d. What is the average depth to the water table on the	project site? Average: 1.5 feet	
Di di di di Tanan	1 00 0/ - 6-1/-	
e. Drainage status of project site soils: Well Draine		
	Well Drained: 40 % of site	
☑ Poorly Drai		
f. Approximate proportion of proposed action site wit		
	<b>☑</b> 10-15%: 10 % of site	
	✓ 15% or greater:0% of site	
g. Are there any unique geologic features on the proje	ect site?	☐ Yes ✓ No
If Yes, describe:		
h. Surface water features.	de control de discolina de discolina de de discolina de d	□ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □
i. Does any portion of the project site contain wetlan	ds or other waterbodies (including streams, rivers,	<b>Z</b> Yes□No
i. Does any portion of the project site contain wetlan ponds or lakes)?		
<ul><li>i. Does any portion of the project site contain wetlan ponds or lakes)?</li><li>ii. Do any wetlands or other waterbodies adjoin the p</li></ul>		✓Yes□No
<ul> <li>i. Does any portion of the project site contain wetlan ponds or lakes)?</li> <li>ii. Do any wetlands or other waterbodies adjoin the p</li> <li>If Yes to either i or ii, continue. If No, skip to E.2.i.</li> </ul>	project site?	<b>☑</b> Yes <b>□</b> No
<ul> <li>i. Does any portion of the project site contain wetlan ponds or lakes)?</li> <li>ii. Do any wetlands or other waterbodies adjoin the p</li> <li>If Yes to either i or ii, continue. If No, skip to E.2.i.</li> <li>iii. Are any of the wetlands or waterbodies within or</li> </ul>	project site?	
<ul> <li>i. Does any portion of the project site contain wetland ponds or lakes)?</li> <li>ii. Do any wetlands or other waterbodies adjoin the plant of the plant of the plant of the wetlands or waterbodies within or state or local agency?</li> </ul>	adjoining the project site regulated by any federal,	<b>☑</b> Yes <b>□</b> No
<ul> <li>i. Does any portion of the project site contain wetland ponds or lakes)?</li> <li>ii. Do any wetlands or other waterbodies adjoin the place of the wetlands or waterbodies within or state or local agency?</li> <li>iv. For each identified regulated wetland and waterbodies</li> </ul>	adjoining the project site regulated by any federal, ody on the project site, provide the following information:	<b>Z</b> Yes□No
<ul> <li>i. Does any portion of the project site contain wetland ponds or lakes)?</li> <li>ii. Do any wetlands or other waterbodies adjoin the player of the graph of the wetlands. If No, skip to E.2.i.</li> <li>iii. Are any of the wetlands or waterbodies within or state or local agency?</li> <li>iv. For each identified regulated wetland and waterbody.</li> <li>Streams: Name 837-64</li> </ul>	adjoining the project site regulated by any federal,  ody on the project site, provide the following information:  Classification C	<b>Z</b> Yes□No
<ul> <li>i. Does any portion of the project site contain wetland ponds or lakes)?</li> <li>ii. Do any wetlands or other waterbodies adjoin the place of the place of the place of the place of the wetlands or waterbodies within or state or local agency?</li> <li>iv. For each identified regulated wetland and waterbodies of the place of the project size on the project size of the project</li></ul>	adjoining the project site regulated by any federal,  ody on the project site, provide the following information:  Classification C	<b>Z</b> Yes□No
<ul> <li>i. Does any portion of the project site contain wetland ponds or lakes)?</li> <li>ii. Do any wetlands or other waterbodies adjoin the plant of the plant of the plant of the plant of the wetlands or waterbodies within or state or local agency?</li> <li>iv. For each identified regulated wetland and waterbook of the plant of the plant of the project site.</li> <li>iv. For each identified regulated wetland and waterbook of the plant of the project site of the project site of the project site contain wetland ponds or lakes)?</li> <li>iv. For each identified regulated wetland and waterbook of the project site contain wetland project site of the project si</li></ul>	adjoining the project site regulated by any federal,  ody on the project site, provide the following information:  Classification C	<b>Z</b> Yes□No
<ul> <li>i. Does any portion of the project site contain wetland ponds or lakes)?</li> <li>ii. Do any wetlands or other waterbodies adjoin the plant of the plant of the plant of the plant of the wetlands or waterbodies within or state or local agency?</li> <li>iv. For each identified regulated wetland and waterbooks of the plant of the plant of the plant of the project of the plant of the project site of the plant of the project site of the plant of the project site contain wetland or plant of the project site contain wetland or plant of the project site contain wetland or plant of the project site of the p</li></ul>	adjoining the project site regulated by any federal,  ady on the project site, provide the following information:  Classification  Classification  Approximate Size 49	☑Yes□No ☑Yes□No
<ul> <li>i. Does any portion of the project site contain wetland ponds or lakes)?</li> <li>ii. Do any wetlands or other waterbodies adjoin the plif Yes to either i or ii, continue. If No, skip to E.2.i.</li> <li>iii. Are any of the wetlands or waterbodies within or state or local agency?</li> <li>iv. For each identified regulated wetland and waterbooks. Name</li> <li>Streams: Name</li> <li>Watlands: Name</li> <li>Wetlands: Name</li> <li>Wetland No. (if regulated by DEC)</li> <li>v. Are any of the above water bodies listed in the most</li> </ul>	adjoining the project site regulated by any federal,  ady on the project site, provide the following information:  Classification  Classification  Approximate Size 49	<b>Z</b> Yes□No
<ul> <li>i. Does any portion of the project site contain wetland ponds or lakes)?</li> <li>ii. Do any wetlands or other waterbodies adjoin the plant of the project site of the plant of the plant of the project site of the plant of the plan</li></ul>	adjoining the project site regulated by any federal,  ody on the project site, provide the following information:  Classification  Classification  Approximate Size 49  st recent compilation of NYS water quality-impaired	✓Yes□No ✓Yes□No  9.41 □Yes ✓No
<ul> <li>i. Does any portion of the project site contain wetland ponds or lakes)?</li> <li>ii. Do any wetlands or other waterbodies adjoin the plant of the project site of the plant of the plant of the project site of the plant of the plan</li></ul>	adjoining the project site regulated by any federal,  ady on the project site, provide the following information:  Classification  Classification  Approximate Size 49	✓Yes□No ✓Yes□No  9.41 □Yes ✓No
<ul> <li>i. Does any portion of the project site contain wetland ponds or lakes)?</li> <li>ii. Do any wetlands or other waterbodies adjoin the plant of the plant of the plant of the plant of the wetlands or waterbodies within or state or local agency?</li> <li>iv. For each identified regulated wetland and waterbooks of the plant of the project site of the plant of the plant of the project site of the plant of the pl</li></ul>	adjoining the project site regulated by any federal,  ody on the project site, provide the following information:  Classification  Classification  Approximate Size 49  st recent compilation of NYS water quality-impaired	✓Yes□No ✓Yes□No  9.41 □Yes ✓No
<ul> <li>i. Does any portion of the project site contain wetland ponds or lakes)?</li> <li>ii. Do any wetlands or other waterbodies adjoin the plant of the plant</li></ul>	adjoining the project site regulated by any federal,  ody on the project site, provide the following information:  Classification  Classification  Approximate Size 49  st recent compilation of NYS water quality-impaired	✓ Yes No  ✓ Yes No  9.41  ☐ Yes ✓ No
<ul> <li>i. Does any portion of the project site contain wetland ponds or lakes)?</li> <li>ii. Do any wetlands or other waterbodies adjoin the plant of the plant of the plant of the wetlands or waterbodies within or state or local agency?</li> <li>iv. For each identified regulated wetland and waterbooks of the wetlands: <ul> <li>Name</li> <li>837-64</li> </ul> </li> <li>Lakes or Ponds: <ul> <li>Name</li> <li>Wetlands:</li> <li>Name</li> <li>Federal Waters, Federal Waters, Federal Wetland No. (if regulated by DEC)</li> </ul> </li> <li>v. Are any of the above water bodies listed in the most waterbodies?</li> <li>If yes, name of impaired water body/bodies and basis</li> </ul>	adjoining the project site regulated by any federal,  ody on the project site, provide the following information:  Classification  Classification  Approximate Size 49  st recent compilation of NYS water quality-impaired	✓Yes□No ✓Yes□No  9.41 □Yes ✓No
<ul> <li>i. Does any portion of the project site contain wetland ponds or lakes)?</li> <li>ii. Do any wetlands or other waterbodies adjoin the plant of the plant of the plant of the plant of the wetlands or waterbodies within or state or local agency?</li> <li>iv. For each identified regulated wetland and waterbooks of the plant of the project site in a designated Floodway?</li> <li>ii. Is the project site in a designated Floodway?</li> </ul>	adjoining the project site regulated by any federal,  ody on the project site, provide the following information:  Classification  Classification  Approximate Size 49  st recent compilation of NYS water quality-impaired	✓ Yes No  ✓ Yes No  9.41  ☐ Yes ✓ No
<ul> <li>i. Does any portion of the project site contain wetland ponds or lakes)?</li> <li>ii. Do any wetlands or other waterbodies adjoin the plant of the plant of the plant of the plant of the wetlands or waterbodies within or state or local agency?</li> <li>iv. For each identified regulated wetland and waterbodies of the plant of the project site in a designated Floodway?</li> <li>j. Is the project site in the 100-year Floodplain?</li> </ul>	adjoining the project site regulated by any federal, ody on the project site, provide the following information:  Classification  Classification  Approximate Size 49  st recent compilation of NYS water quality-impaired  for listing as impaired:	☐Yes☐No ☐Yes☐No ☐Yes☐No ☐Yes☐No ☐Yes☐No ☐Yes☐No
<ul> <li>i. Does any portion of the project site contain wetland ponds or lakes)?</li> <li>ii. Do any wetlands or other waterbodies adjoin the please of local agency?</li> <li>iii. Are any of the wetlands or waterbodies within or state or local agency?</li> <li>iv. For each identified regulated wetland and waterbodies. Name</li> <li>Streams: Name</li> <li>Wetlands: Name</li> <li>Wetlands: Name</li> <li>Wetland No. (if regulated by DEC)</li> <li>v. Are any of the above water bodies listed in the most waterbodies?</li> <li>If yes, name of impaired water body/bodies and basis</li> <li>i. Is the project site in a designated Floodway?</li> <li>j. Is the project site in the 100-year Floodplain?</li> <li>k. Is the project site located over, or immediately adjoint Yes:</li> </ul>	adjoining the project site regulated by any federal, ody on the project site, provide the following information:  Classification  Classification  Approximate Size 49  st recent compilation of NYS water quality-impaired  for listing as impaired:	☐Yes☐No ☐Yes☐No ☐Yes☐No ☐Yes☐No ☐Yes☐No ☐Yes☐No ☐Yes☐No ☐Yes☐No
<ul> <li>i. Does any portion of the project site contain wetland ponds or lakes)?</li> <li>ii. Do any wetlands or other waterbodies adjoin the plant of the project site in the project site contains wetlands or waterbodies within or state or local agency?</li> <li>iv. For each identified regulated wetland and waterbooks of the project site in th</li></ul>	adjoining the project site regulated by any federal, ody on the project site, provide the following information:  Classification  Classification  Approximate Size 49  st recent compilation of NYS water quality-impaired  for listing as impaired:	☐Yes☐No ☐Yes☐No ☐Yes☐No ☐Yes☐No ☐Yes☐No ☐Yes☐No ☐Yes☐No ☐Yes☐No

m. Identify the predominant wildl	ife species that occupy or use the project site:		
Deer Deer	Mice	Skunk	
Rabbits	Chipmunk	Various Insects	
Squirrels	Opossum	Various Birds	
n. Does the project site contain a d If Yes:	esignated significant natural community?  y (composition, function, and basis for designation)	ntion):	☐ Yes <b>Z</b> No
ii. Source(s) of description or eva	iluation:		
iii. Extent of community/habitat:			
Currently:		acres	
	project as proposed:		
Gain or loss (indicate + or		acres	
	ecies of plant or animal that is listed by the fed		✓ Yes No
If Yes:	r threatened):		cies?
p. Does the project site contain an	y species of plant or animal that is listed by NY	YS as rare, or as a species of	□Yes <b>☑</b> No
special concern? If Yes:			
	ea currently used for hunting, trapping, fishing ow the proposed action may affect that use:		∐Yes <b></b> No
E.3. Designated Public Resource	s On or Near Project Site		
	of it, located in a designated agricultural districted 25-AA, Section 303 and 304? t name/number: GENE002	ict certified pursuant to	<b>⊿</b> Yes <b>□</b> No
<ul> <li>i. If Yes: acreage(s) on project si</li> <li>ii. Source(s) of soil rating(s): US</li> </ul>			<b>Z</b> Yes <b>N</b> o
Natural Landmark? If Yes:  i. Nature of the natural landmark	or part of, or is it substantially contiguous to, a	Geological Feature	□Yes <b>☑</b> No
If Yes:	oes it adjoin a state listed Critical Environment		□Yes <b>☑</b> No
iii. Designating agency and date:			
그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그			

<ul> <li>e. Does the project site contain, or is it substantially contiguous to, a but which is listed on the National or State Register of Historic Places, of Office of Parks, Recreation and Historic Preservation to be eligible for If Yes:</li> <li>i. Nature of historic/archaeological resource: ☐ Archaeological Site</li> </ul>	r that has been determined by the Commiss	☐ Yes☑ No ioner of the NYS laces?
ii. Name:iii. Brief description of attributes on which listing is based:		
f. Is the project site, or any portion of it, located in or adjacent to an ar archaeological sites on the NY State Historic Preservation Office (SH	ea designated as sensitive for IPO) archaeological site inventory?	<b>☑</b> Yes <b>□</b> No
g. Have additional archaeological or historic site(s) or resources been in If Yes:  i. Describe possible resource(s): "No Impact" letter from NYSORPHP issu ii. Basis for identification:		□Yes <b>☑</b> No
<ul> <li>h. Is the project site within fives miles of any officially designated and scenic or aesthetic resource?</li> <li>If Yes: <ul> <li>i. Identify resource: <a href="Indian Falls">Indian Falls</a></li> </ul> </li> </ul>		<b>☑</b> Yes <b>□</b> No
<ul><li>ii. Nature of, or basis for, designation (e.g., established highway overletc.): Scenic Vista</li></ul>	*	scenic byway,
iii. Distance between project and resource:	niles.	
<ul> <li>i. Is the project site located within a designated river corridor under the Program 6 NYCRR 666?</li> <li>If Yes: <ul> <li>i. Identify the name of the river and its designation:</li> </ul> </li> </ul>		☐ Yes  No
ii. Is the activity consistent with development restrictions contained in	6NYCRR Part 666?	□Yes □No
F. Additional Information Attach any additional information which may be needed to clarify you If you have identified any adverse impacts which could be associated measures which you propose to avoid or minimize them.		npacts plus any
G. Verification I certify that the information provided is true to the best of my knowled	dge.	
Applicant/Sponsor Name	Date	
Signature	Title	



**Disclaimer:** The EAF Mapper is a screening tool intended to assist project sponsors and reviewing agencies in preparing an environmental assessment form (EAF). Not all questions asked in the EAF are answered by the EAF Mapper. Additional information on any EAF question can be obtained by consulting the EAF Workbooks. Although the EAF Mapper provides the most up-to-date digital data available to DEC, you may also need to contact local or other data sources in order to obtain data not provided by the Mapper. Digital data is not a substitute for agency determinations.



ENIENT P. NR. Can, Esti Japan, METI, Esti China (Hong Kong), Esti cich@penStreetMap contributors, and the GIS User Community washington

B.i.i [Coastal or Waterfront Area]	No
B.i.ii [Local Waterfront Revitalization Area]	No
C.2.b. [Special Planning District]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.1.h [DEC Spills or Remediation Site - Potential Contamination History]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.1.h.i [DEC Spills or Remediation Site - Listed]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.1.h.i [DEC Spills or Remediation Site - Environmental Site Remediation Database]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.1.h.iii [Within 2,000' of DEC Remediation Site]	No
E.2.g [Unique Geologic Features]	No
E.2.h.i [Surface Water Features]	Yes
E.2.h.ii [Surface Water Features]	Yes
E.2.h.iii [Surface Water Features]	Yes - Digital mapping information on local and federal wetlands and waterbodies is known to be incomplete. Refer to EAF Workbook.
E.2.h.iv [Surface Water Features - Stream Name]	837-64
E.2.h.iv [Surface Water Features - Stream Classification]	С
E.2.h.iv [Surface Water Features - Wetlands Name]	Federal Waters
E.2.h.v [Impaired Water Bodies]	No
E.2.i. [Floodway]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.2.j. [100 Year Floodplain]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.

L.Z.N. [OOO TOOLT TOOUDIANT]	Workbook.
E.2.I. [Aquifers]	Yes
E.2.I. [Aquifer Names]	Principal Aquifer
E.2.n. [Natural Communities]	No
E.2.o. [Endangered or Threatened Species]	Yes
E.2.o. [Endangered or Threatened Species - Name]	Northern Long-eared Bat
E.2.p. [Rare Plants or Animals]	No
E.3.a. [Agricultural District]	Yes
E.3.a. [Agricultural District]	GENE002
E.3.c. [National Natural Landmark]	No
E.3.d [Critical Environmental Area]	No
E.3.e. [National or State Register of Historic Places or State Eligible Sites]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.3.f. [Archeological Sites]	Yes
E.3.i. [Designated River Corridor]	No



### Parks, Recreation, and Historic Preservation

KATHY HOCHUL Governor ERIK KULLESEID Commissioner

August 26, 2022

Michael Metzger Metzger Civil Engineering PLLC 8245 Sheridan Drive Williamsville, NY 14221

Re:

DEC

Distribution Center 90

Alleghany Road, Pembroke, Genesee County, NY

22PR05921

Dear Michael Metzger:

Thank you for requesting the comments of the Office of Parks, Recreation and Historic Preservation (OPRHP). We have reviewed the project 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 OPRHP and relate only to Historic/Cultural resources. They do not include potential environmental impacts to New York State Parkland that may be involved in or near your project. Such impacts must be considered as part of the environmental review of the project pursuant to the State Environmental Quality Review Act (New York Environmental Conservation Law Article 8) and its implementing regulations (6 NYCRR Part 617).

Based upon this review, it is the opinion of OPRHP that no properties, including archaeological and/or historic resources, listed in or eligible for the New York State and National Registers of Historic Places will be impacted by this project.

If further correspondence is required regarding this project, please be sure to refer to the OPRHP Project Review (PR) number noted above.

Sincerely,

R. Daniel Mackay

Deputy Commissioner for Historic Preservation

Division for Historic Preservation



### DEPARTMENT OF THE ARMY BUFFALO DISTRICT, CORPS OF ENGINEERS 1776 NIAGARA STREET BUFFALO, NEW YORK 14207-3199

November 28, 2022

Regulatory Branch

SUBJECT: Preliminary Jurisdictional Determination for Department of the Army Reference No. LRB-2009-00219

Horizon Acres Associates, Inc. 66 Truman Avenue Spring Valley, New York 10977 Attn: Aaron Goldklang

Dear Mr. Goldklang:

I have reviewed the aquatic resource delineation report and supporting materials submitted on your behalf by Earth Dimensions, Inc. requesting a preliminary jurisdictional determination (JD) for aquatic resources delineated on an approximate 206.63-acre parcel located adjacent to Routes 5 and 77, Town of Pembroke, Genesee County, New York.

I have evaluated the submitted materials and have determined that the aquatic resource boundaries shown on the map accurately represent on-site conditions. Please note that this is a preliminary JD. Preliminary JDs are non-binding written indications that there may be waters of the United States (WOUS) on your parcel and approximate locations of those waters. Preliminary JDs are advisory in nature and may not be appealed.

Pursuant to Regulatory Guidance Letter 16-01, any permit application made in reliance on this preliminary JD will be evaluated as though all aquatic resources on the site are regulated by the Corps. Further, all aquatic resources will be used for purposes of assessing the extent of project related impacts and compensatory mitigation. If you require a definitive response regarding Department of the Army jurisdiction for any or all of the aquatic resources identified on the submitted drawings, you may request an approved JD from this office. If an approved JD is requested, please be aware that this is often a lengthy process, and we may require the submittal of additional information.

I have enclosed the signed preliminary JD Form dated November 22, 2022, with this letter. The form and attached table identify the extent of aquatic resources on the site and specific terms and conditions of the preliminary JD.

In accordance with Regulatory Guidance Letter 05-02, "Preliminary jurisdictional determinations are not definitive determinations of areas within regulatory jurisdiction and do not have expirations dates." However, I strongly recommend that the boundaries of all aquatic resources on the parcel be re-evaluated by a qualified wetland biologist after five (5) years of the date of the signed preliminary JD. This will ensure that any changes are appropriately identified;

Regulatory Branch

SUBJECT: Preliminary Jurisdictional Determination for Department of the Army Reference No. LRB-2009-00219

and you do not inadvertently incur a violation of Federal law while constructing your project or working on your project site.

The delineation included herein has been conducted to identify the location and extent of the aquatic resource boundaries and/or the jurisdictional status of aquatic resources for purposes of the Clean Water Act for the particular site identified in this request.

Note that this delineation and/or jurisdictional determination may not be valid for the Wetland Conservation Provisions of the Food Security Act of 1985, as amended. If you or your tenant are U.S. Department of Agriculture (USDA) program participants, or anticipate participation in USDA programs, you should discuss the applicability of a certified wetland determination with the local USDA service center, prior to starting work.

Questions pertaining to this matter should be directed to me at (716) 879-6330, by writing to Judy A. Robinson, U.S. Army Corps of Engineers, Auburn Field Office, 7413 County House Road, Auburn, New York, 13021, or by e-mail at: Judy.A.Robinson@usace.army.mil.

Sincerely,

Judy Robinson

Biologist

Enclosures

cc: Jeffrey Martin, Geis Construction

Thomas Somerville, Earth Dimensions, Inc.

NWC Rte 5 & Rte 77

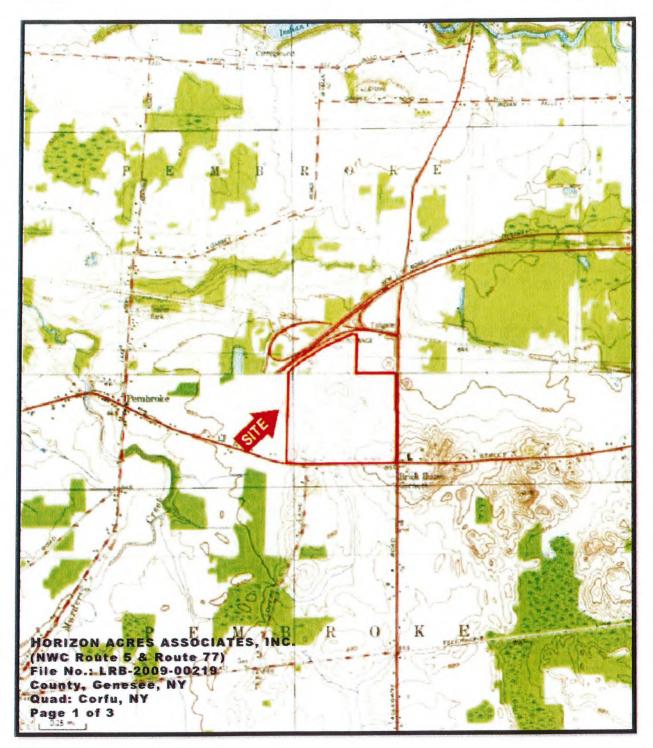


FIGURE 1: USGS 7.5 MINUTE TOPOGRAPHICAL MAP

Corfu Quadrangle / U.S. Geological Survey

NWC Route 5 & Route 77

Town of Pembroke, Genesee County, New York



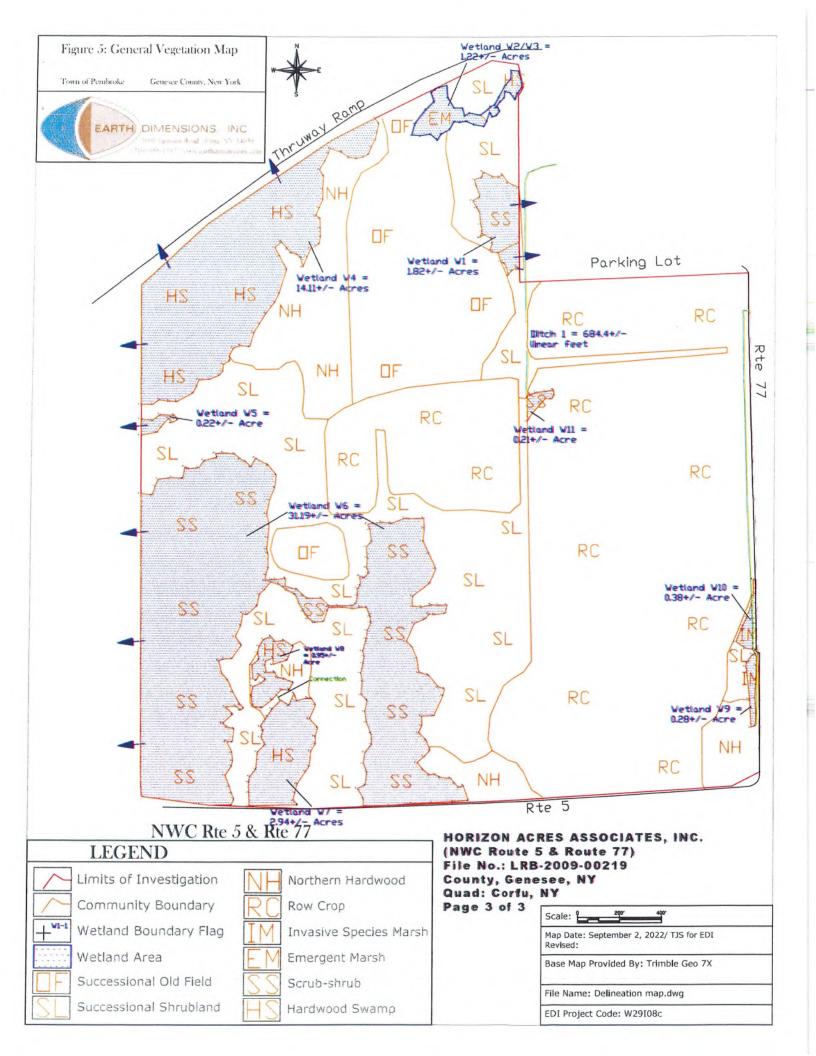


Figure 9: Aerial Photo With Wetlands

https://www.arcgis.com/apps/webappviewer/index.html (Visited 9/2/22)

NWC Route 5 and Route 77

Town of Pembroke, Genesee County, New York



### PRELIMINARY JURISDICTIONAL DETERMINATION (PJD) FORM

### BACKGROUND INFORMATION

A. REPORT COMPLETION DATE FOR PJD: November 25, 2022

B. NAME AND ADDRESS OF PERSON REQUESTING PJD:

C. DISTRICT OFFICE, FILE NAME, AND NUMBER: Buffalo District, Auburn Field Office; Horizon Acres Associates, Inc. (NWC Route 5 & Route 77); File No. LRB-2009-00219

D. PROJECT LOCATION(S) AND BACKGROUND INFORMATION:

State: NY

County: Genesee

City: Town of Pembroke

Center coordinates of site (lat/long in degree decimal format):

Lat.: 42.999217

Long.: -78.477783

Name of nearest waterbody: off-site unnamed tributary to Murder Creek

E. REVIEW PERFORMED FOR SITE EVALUATION (CHECK ALL THAT APPLY):

(X) Office (Desk) Determination: Date: November 25, 2022

(X) Field Determination:

Date: November 4, 2022

### TABLE OF AQUATIC RESOURCES IN REVIEW AREA WHICH "MAY BE" SUBJECT TO REGULATORY JURISDICTION.

Site number	Latitude (decimal degrees)		Estimated amount of aquatic resource in review area (acreage and linear feet, if applicable)	Type of aquatic resource (i.e., wetland vs. non- wetland waters)	Geographic authority to which the aquatic resource "may be" subject (i.e., Section 404 or Section 10/404)
Wetland 1	43.00099	-78.41070	1.82 acres	PSS	Section 404
Wetland 2/3	43.00274	-78.41050	0.28 acre	PFO	Section 404
Wetland 2/3a	43.00274	-78.41050	0.94 acre	PEM	Section 404
Wetland 4	43.00005	-78.41602	14.11 acres	PFO	Section 404
Wetland 5	42.99832	-78.41739	0.22 acre	PSS	Section 404
Wetland 6	42.99614	-78.41645	31.19 acres	PSS	Section 404
Wetland 7	42.99385	-78.41503	2.94 acres	PFO	Section 404
Wetland 8	42.99474	-78.41523	0.95 acres	PFO	Section 404
Wetland 9	42.99444	-78.40613	0.28 acre	PEM	Section 404
Wetland 10	42.99535	-78.40613	0.38 acre	PEM	Section 404
Wetland 11	42.99849	-78.41017	0.21 acre	PEM	Section 404
Ditch 1	42.99906	-78.41030	684 linear feet	Ephemeral	Section 404

- The Corps of Engineers believes that there may be jurisdictional aquatic resources in the review area, and the requestor of this PJD is hereby advised of his or her option to request and obtain an approved JD (AJD) for that review area based on an informed decision after having discussed the various types of JDs and their characteristics and circumstances when they may be appropriate.
- 2) In any circumstance where a permit applicant obtains an individual permit, or a Nationwide General Permit (NWP) or other general permit verification requiring "pre-construction notification" (PCN), or requests verification for a non-reporting NWP or other general permit, and the permit applicant has not requested an AJD for the activity, the permit applicant is hereby made aware that:
- (1) the permit applicant has elected to seek a permit authorization based on a PJD, which does not make an official determination of jurisdictional aquatic resources;
- (2) the applicant has the option to request an AJD before accepting the terms and conditions of the permit authorization, and that basing a permit authorization on an AJD could possibly result in less compensatory mitigation being required or different special conditions;
- (3) the applicant has the right to request an individual permit rather than accepting the terms and conditions of the NWP or other general permit authorization;
- (4) the applicant can accept a permit authorization and thereby agree to comply with all the terms and conditions of that permit, including whatever mitigation requirements the Corps has determined to be necessary;
- 5) undertaking any activity in reliance upon the subject permit authorization without requesting an AJD constitutes the applicant's acceptance of the use of the PJD;
- (6) accepting a permit authorization (e.g., signing a proffered individual permit) or undertaking any activity in reliance on any form of Corps permit authorization based on a PJD constitutes agreement that all aquatic resources in the review area affected in any way by that activity will be treated as jurisdictional, and waives any challenge to such jurisdiction in any administrative or judicial compliance or enforcement action, or in any administrative appeal or in any Federal court; and
- (7) whether the applicant elects to use either an AJD or a PJD, the JD will be processed as soon as practicable. Further, an AJD, a proffered individual permit (and all terms and conditions contained therein), or individual permit denial can be administratively appealed pursuant to 33 C.F.R. Part 331.
- If, during an administrative appeal, it becomes appropriate to make an official determination whether geographic jurisdiction exists over aquatic resources in the review area, or to provide an official delineation of jurisdictional aquatic resources in the review area, the Corps will provide an AJD to accomplish that result, as soon as is practicable.

This PJD finds that there "may be" waters of the U.S. and/or that there "may be" navigable waters of the U.S. on the subject review area, and identifies all aquatic features in the review area that could be affected by the proposed activity, based on the following information:

### SUPPORTING DATA. Data reviewed for PJD (check all that apply)

Checked items should be included in subject file. Appropriately reference sources below where indicated for all checked items:

(X) Maps, plans, plots or plat submitted by Earth Dimensions, Inc. on behalf of Horizon Acres Associates, Inc. (NWC Route 5 and Route 77)

Map: See below for map details

- (X) Data sheets prepared/submitted by Earth Dimensions, Inc. on behalf of Horizon Acres Associates, Inc. (NWC Route 5 and Route 77)
  - (X) Office concurs with delineation data sheets dated August 19, 22, 23/2022 on an approximately 206.63-acre site and summarized in the delineation report dated September 6, 2022; revised October 2022
  - Office does not concur with data sheets/delineation report.
- () Data sheets prepared by the Corps
- () Corps navigable waters' study
- () U.S. Geological Survey Hydrologic Atlas
  - () USGS NHD data
  - () USGS 8 and 12 digit HUC maps
- (X) U.S. Geological Survey map(s). Cite scale & quad name: 24K; Corfu, NY
- (X) Natural Resources Conservation Service Soil Survey Citation: On-Line Web Soil Survey generated 08/30/2022
- (X) National wetlands inventory map(s) Cite name: Corfu, NY 1990's

The USFWS on-line Wetland Mapper provides only the decade for the image

- (X) State/local wetland inventory map(s) Cite name: Corfu, NY generated 09/02/2022 New York State on-line Environmental Resource Mapper
- () FEMA/FIRM maps
- () 100-year Floodplain Elevation is: (National Geodetic Vertical Datum of 1929)

(X) Photographs:

- (x) Aerial (Name & Date): Google Earth 2006, 2009, 2014, 2015, 2016; Historic Aerial 1972, 1974, 1986, 1995, 2005; Historic Topo 2013, 2016
- (x) Other (Name & Date): Photos dated August 19, 22, 23 2022 contained in the delineation report
- (X) Previous determination(s). An approved JD was issued on 04/30/2010
- () Other information (please specify). Use this if AJD was also determined for waters on the site.

IMPORTANT NOTE: The information recorded on this form has not necessarily been verified by the Corps and should not be relied upon for later jurisdictional determinations.

Date: 11/25/2022

Signature Regulatory staff member

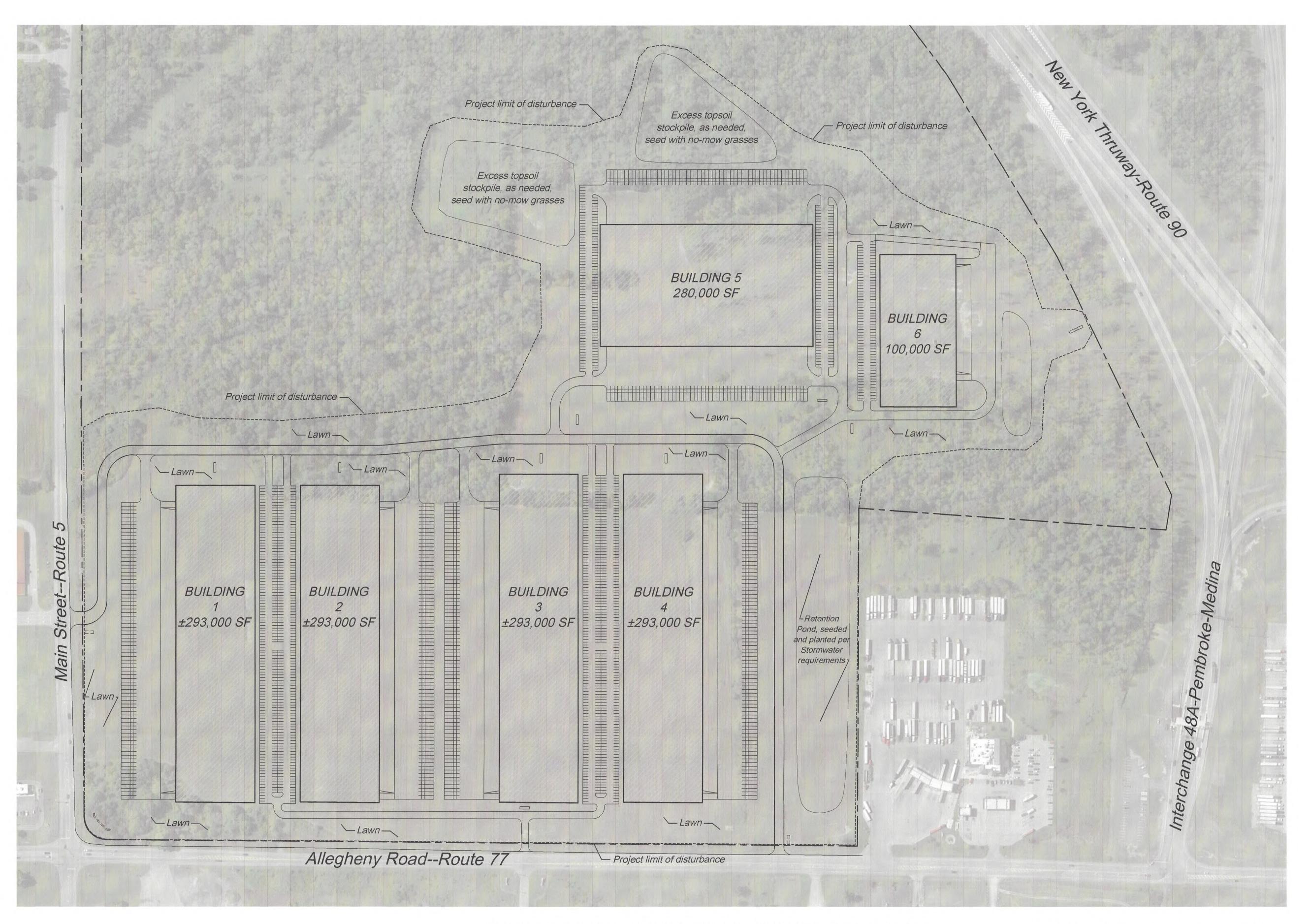
edy Robinson

Date: 11/25/2022

Signature of person requesting PJD (REQUIRED, unless obtaining the signature

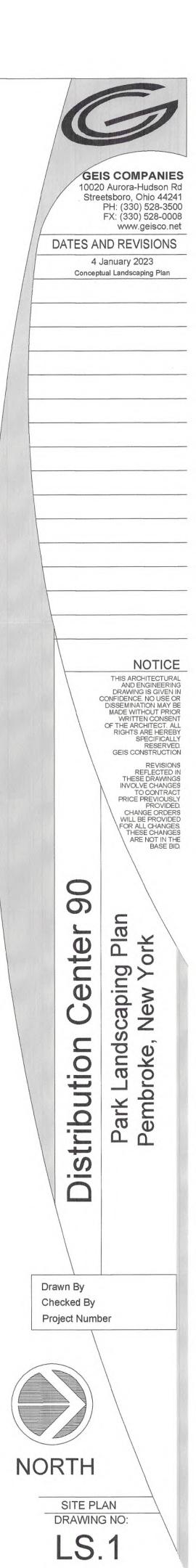
is impracticable)1

<sup>&</sup>lt;sup>1</sup> Districts may establish timeframes for requestor to return signed PJD forms. If the requestor does not respond within the established time frame, the district may presume concurrence and no additional follow up is necessary prior to finalizing an action.



# OVERALL PARK LANDSCAPE CONCEPT PLAN NOT TO SCALE

NOTE: All disturbed areas to be re-seeded as either lawn or no-mow grass. Local regulations to apply concerning plant type and planting.



## DISTRIBUTION CENTER 90

TOWN OF PEMBROKE, GENESEE COUNTY, NEW YORK



### OWNER:

66 TRUMAN AVENUE SPRING VALLEY, NEW YORK 10977

(914) 906-3838

### DEVELOPER:

GEIS CONSTRUCTION

JEFF MARTIN (216) 218-3508

METZGER CIVIL ENGINEERING, PLLC. 8245 SHERIDAN DRIVE WILLIAMSVILLE, NEW YORK 14221

PHONE No. (716) 633-2601

METENG@ROADRUNNER.COM

### HORIZON ACRES ASSOCIATES, INC.

10020 AURORA-HUDSON ROAD STREETSBORO, OHIO 44241

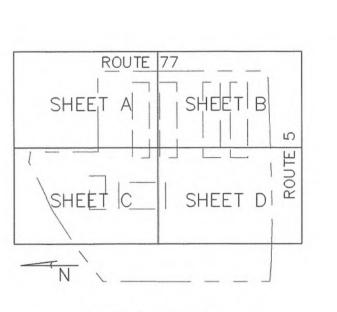
### CIVIL ENGINEER:

SCHEDULE OF DRAWINGS:

- 1 CS-1 COVER SHEET
- 2 PP-1 PHASING PLAN
- 3 EC-1 EROSION AND SEDIMENT CONTROL PLAN
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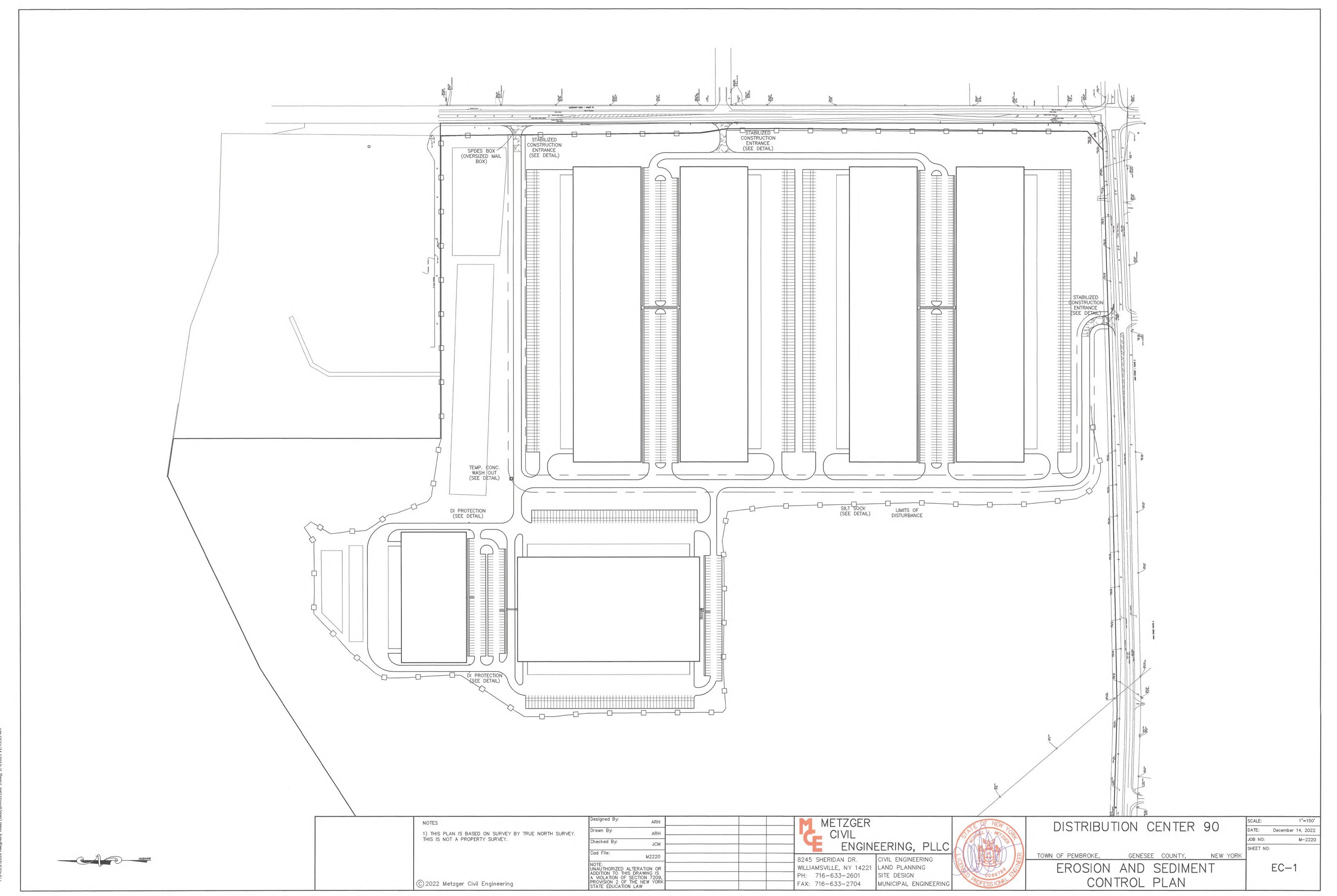


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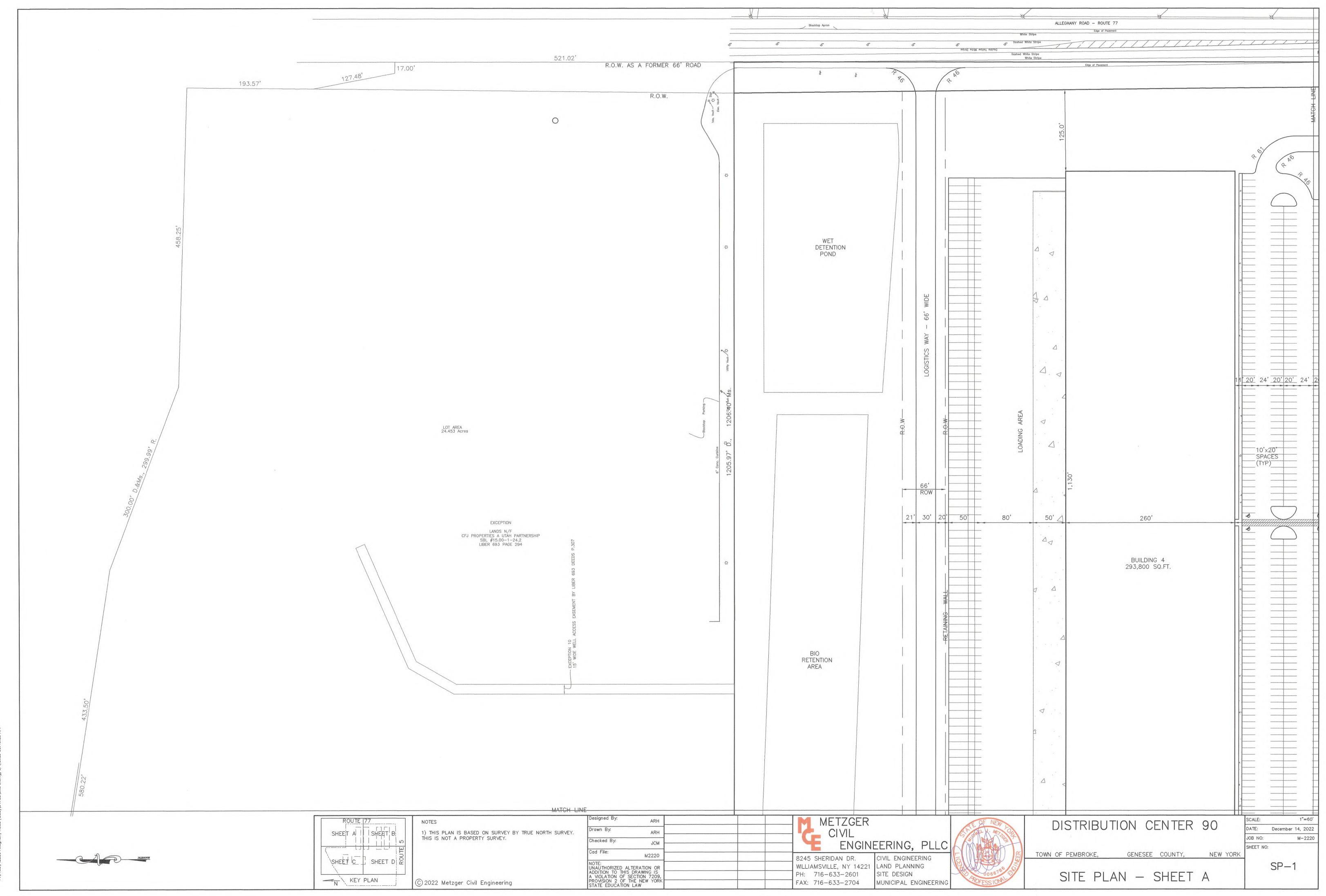
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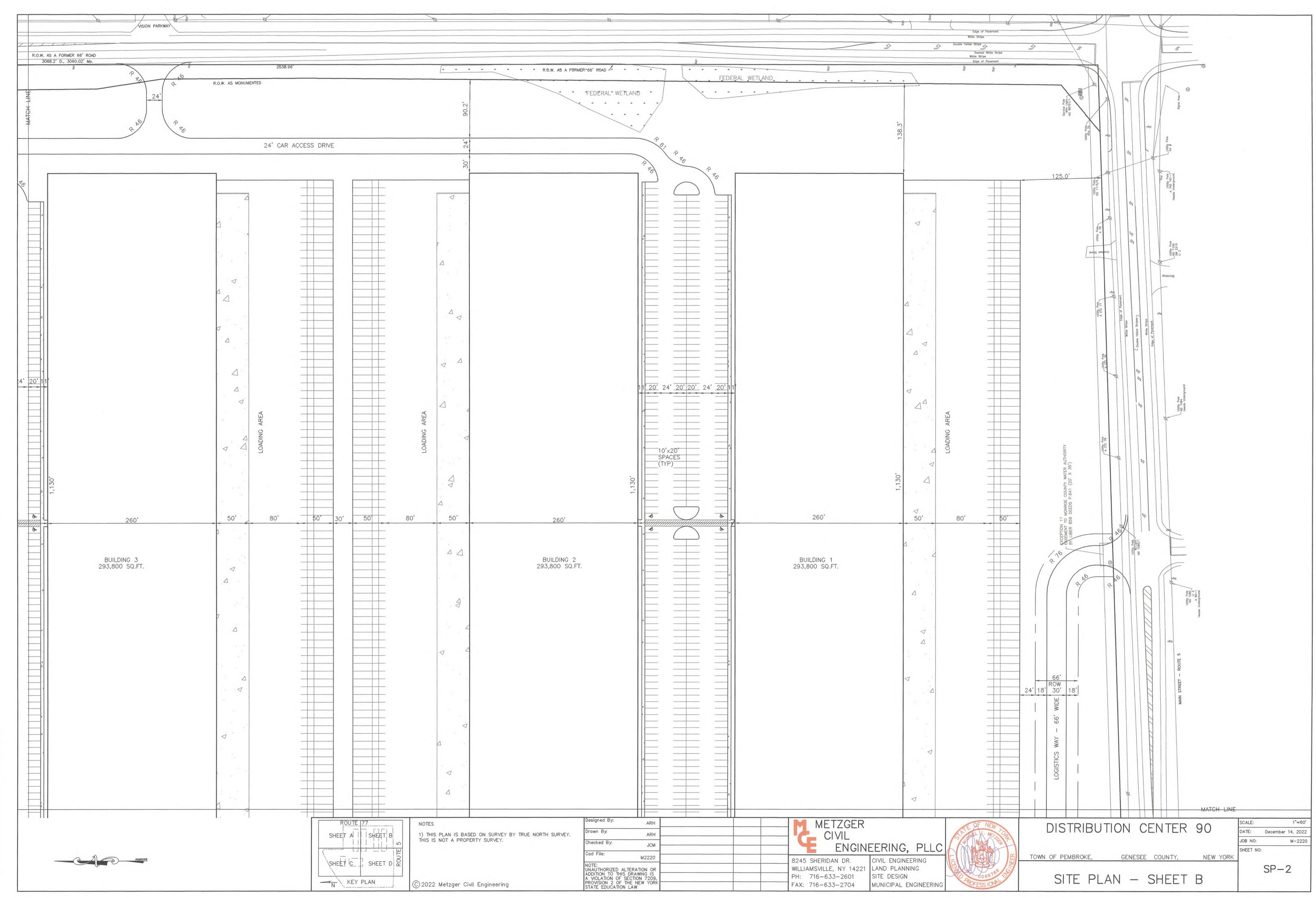
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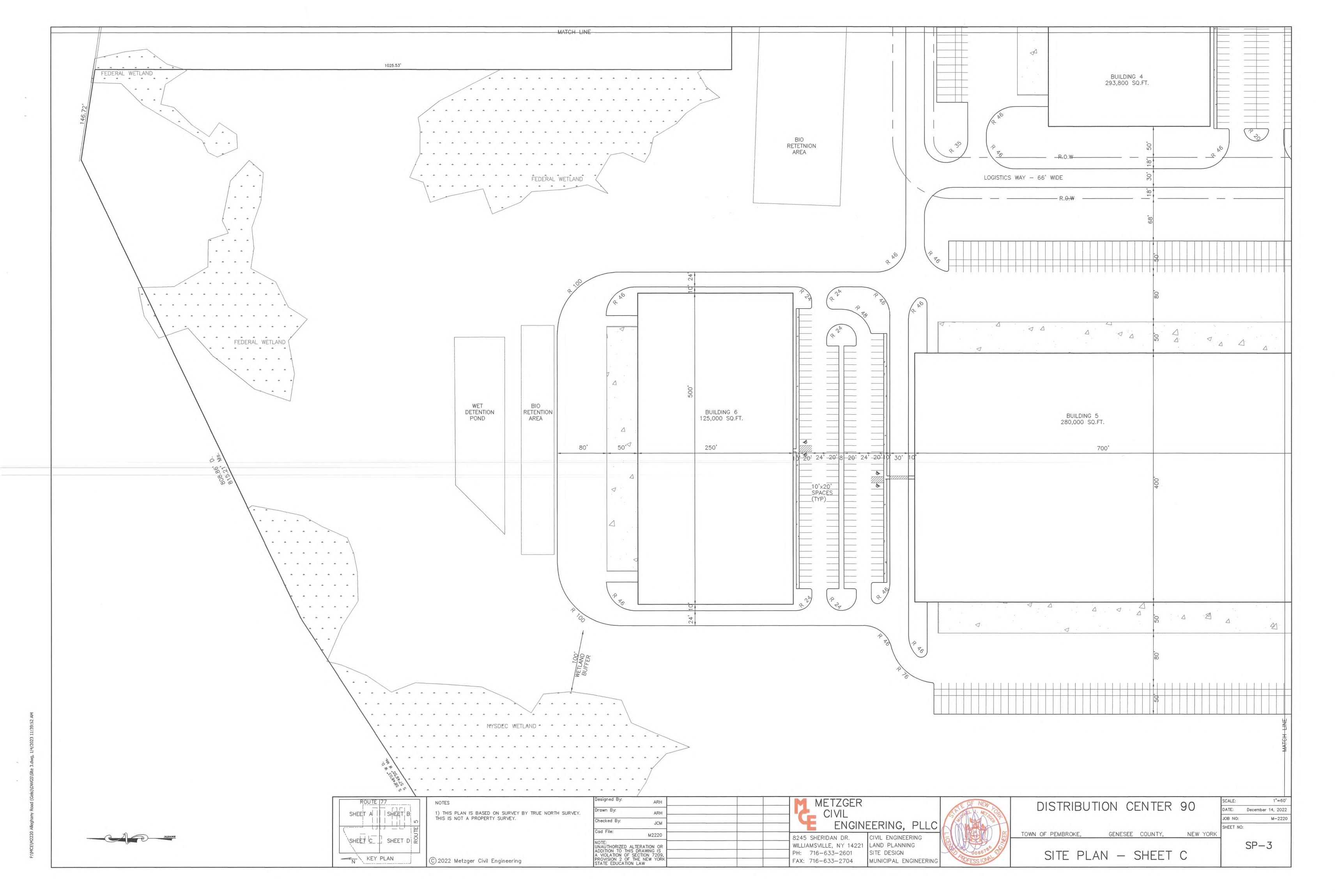
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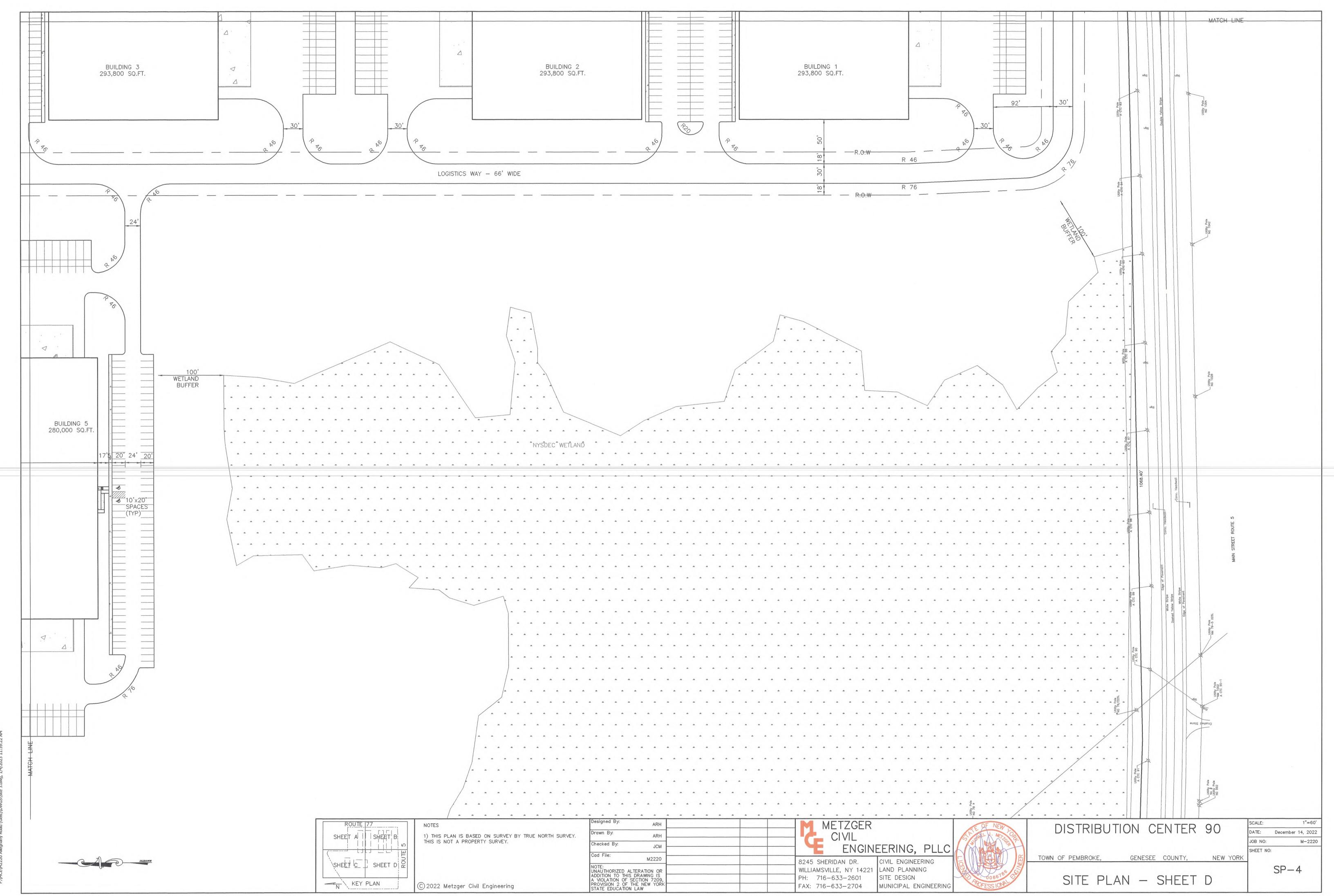


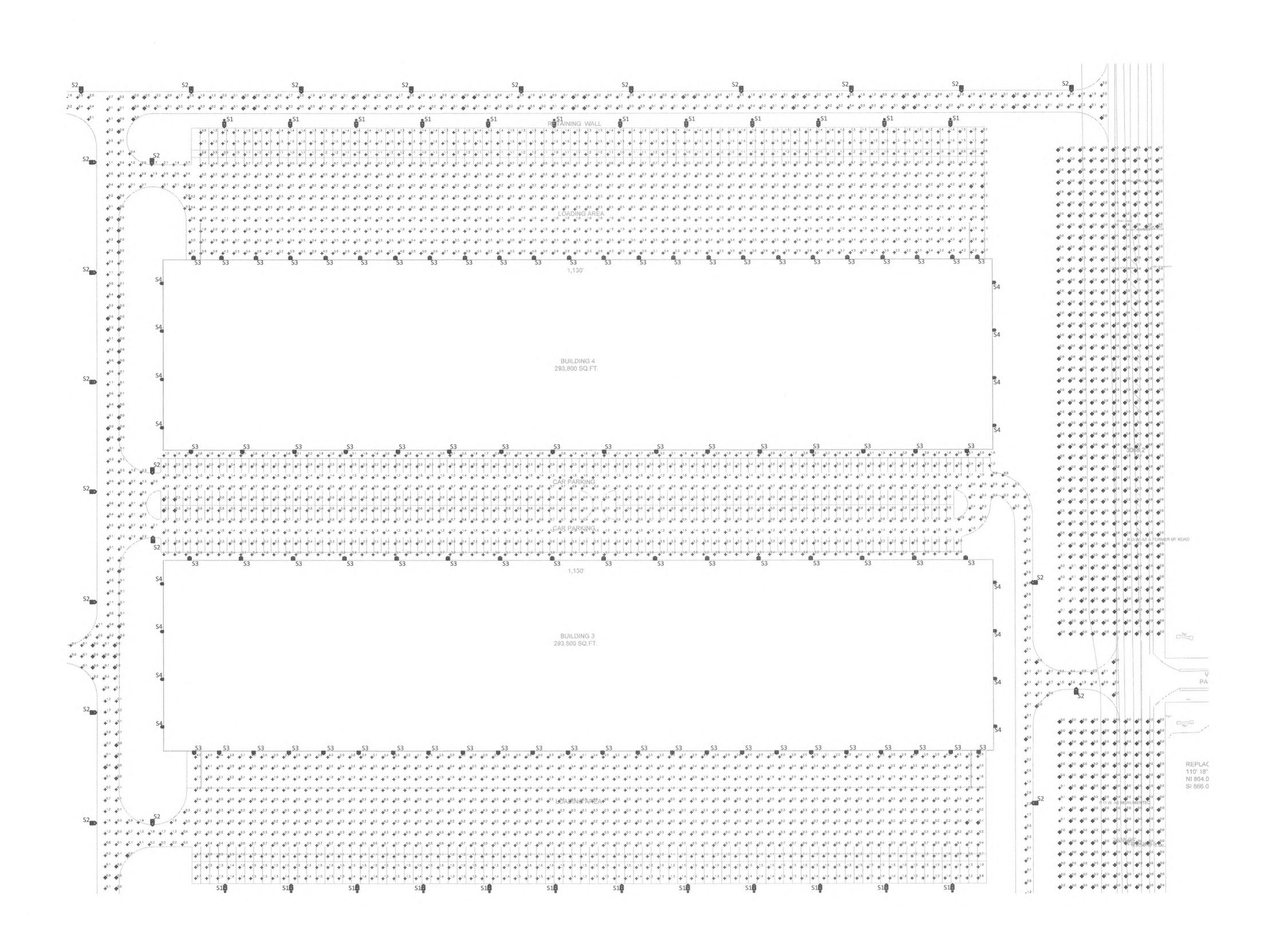
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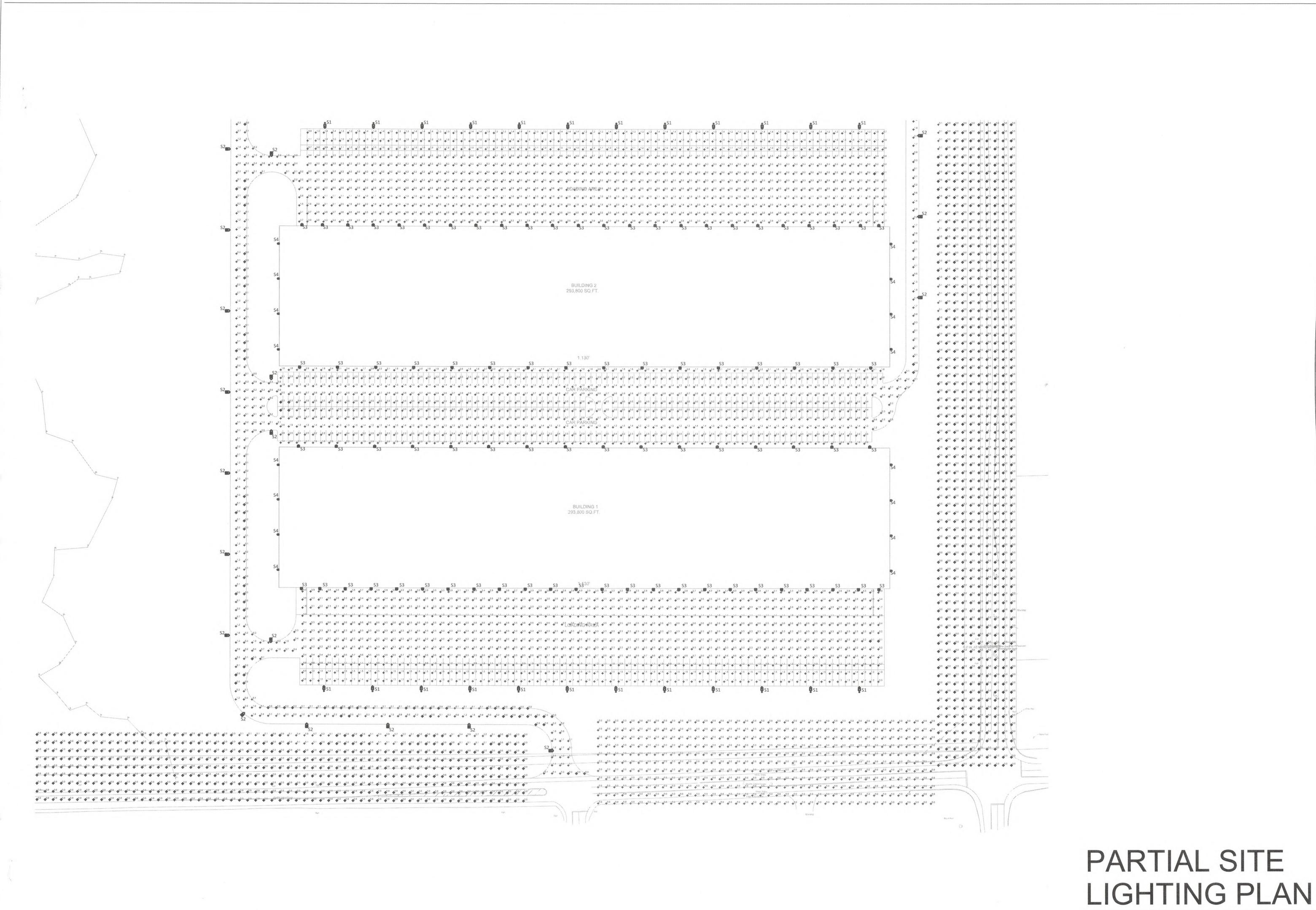
Distribution

Drawn By Checked By Project Number



SCALE: 1"=75'-0"







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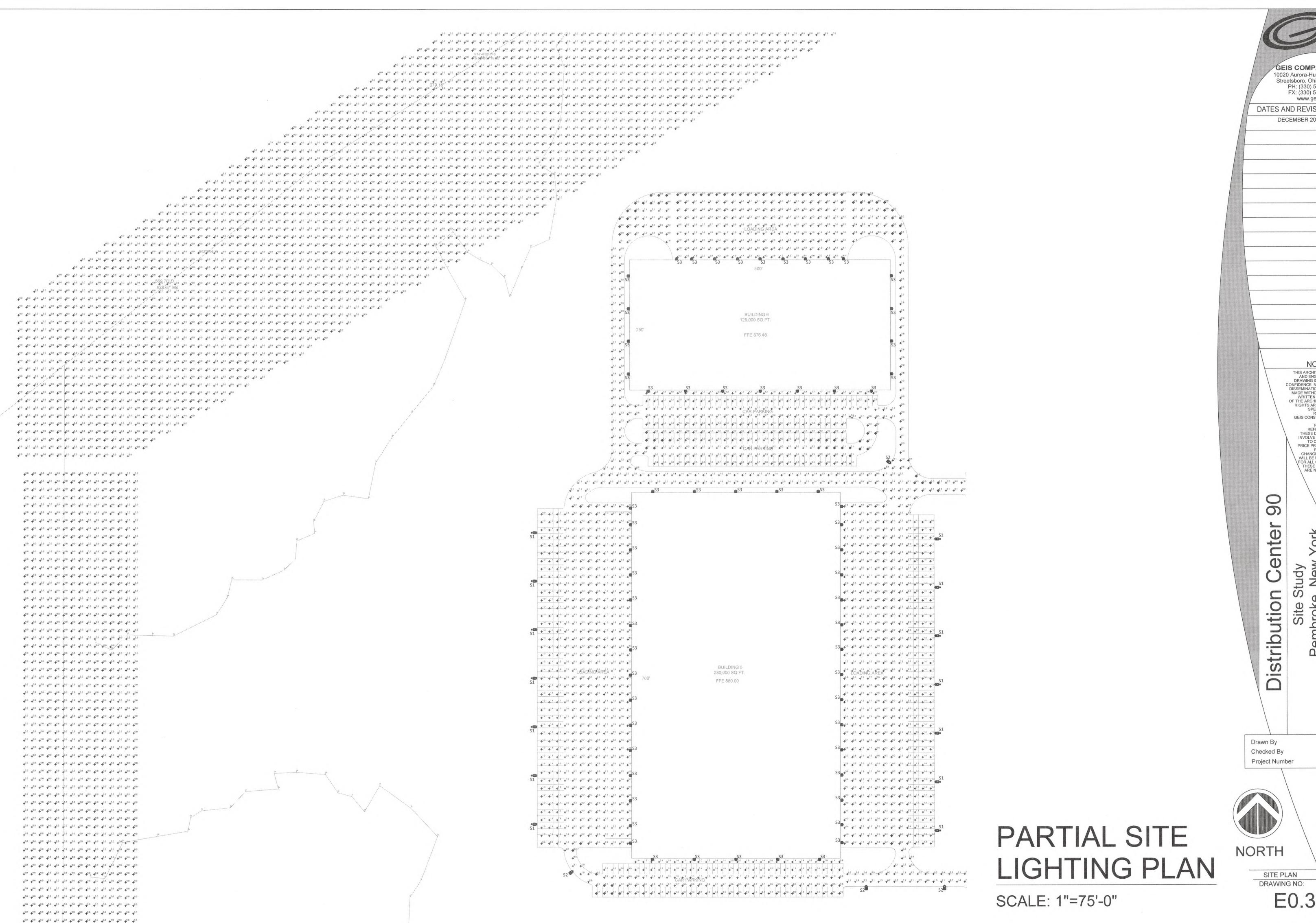
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SITE PLAN

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SCALE: 1"=75'-0"



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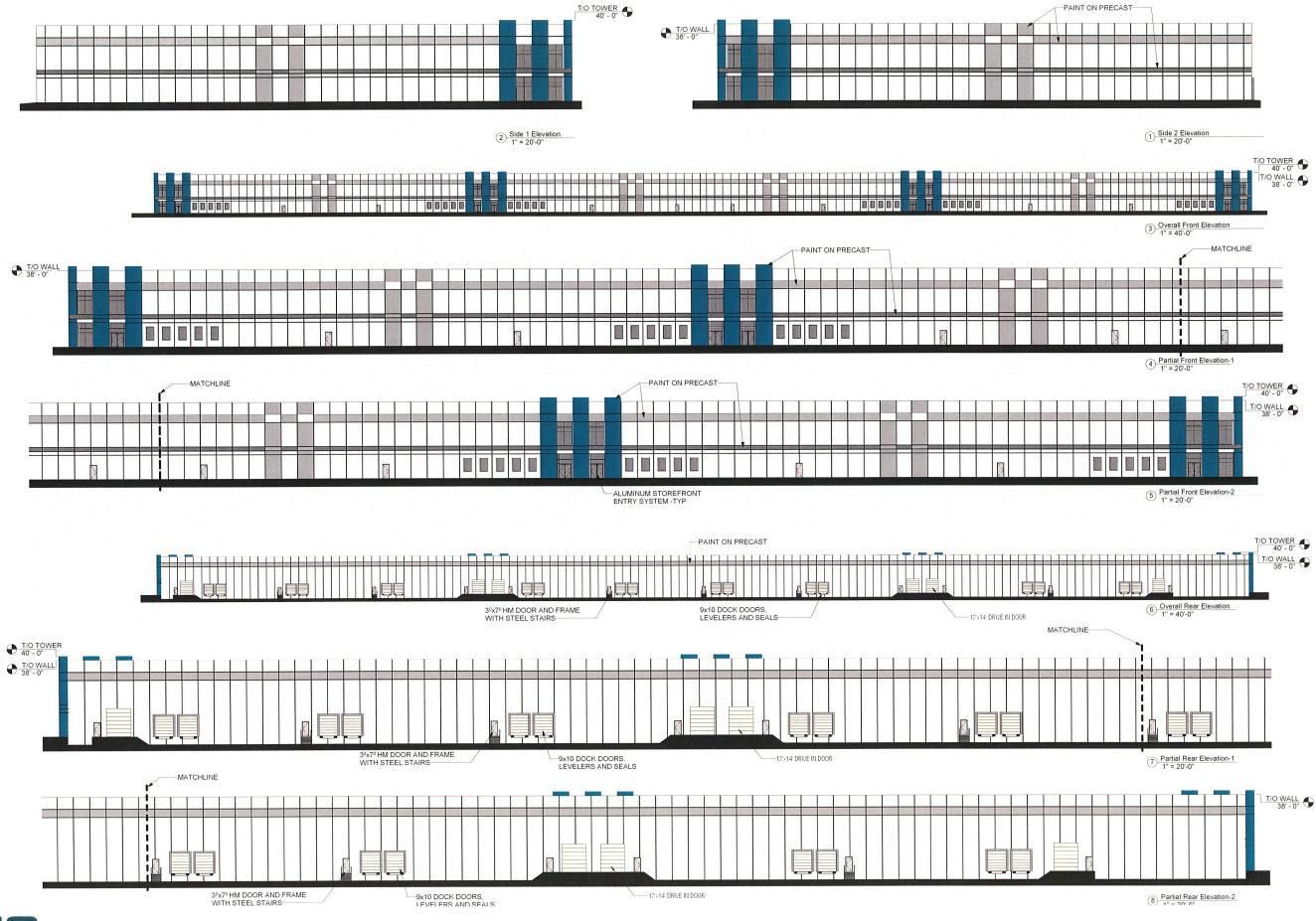
SITE PLAN DRAWING NO:











GEIS

**BUILDINGS 1 THRU 4 ELEVATIONS** 

**DISTRIBUTION CENTER 90** 



Sign Type 1
Park signature element

Park signature element
Central sign element
with flanking stone walls

Free-standing
Development
Business Sign
35' maximum height
(1) location
proposed



Sign Type 2

Park entrance element Metal offset sign element in a supporting masonry pier Off-premises Directional Sign 32 sf. maximum

(2) locations proposed



Sign Type 3

Building Identification Sign Metal Pier with multiple tenant sign locations On-premises Freestanding Sign 100 sf. maximum

> (7) locations proposed



Sign Type 4

Building Identification Sign Metal Pier with multiple tenant sign locations. To provide direction for 4 buildings-(car traffic only) Free-standing Directory Sign 32' maximum area

> (1) location proposed



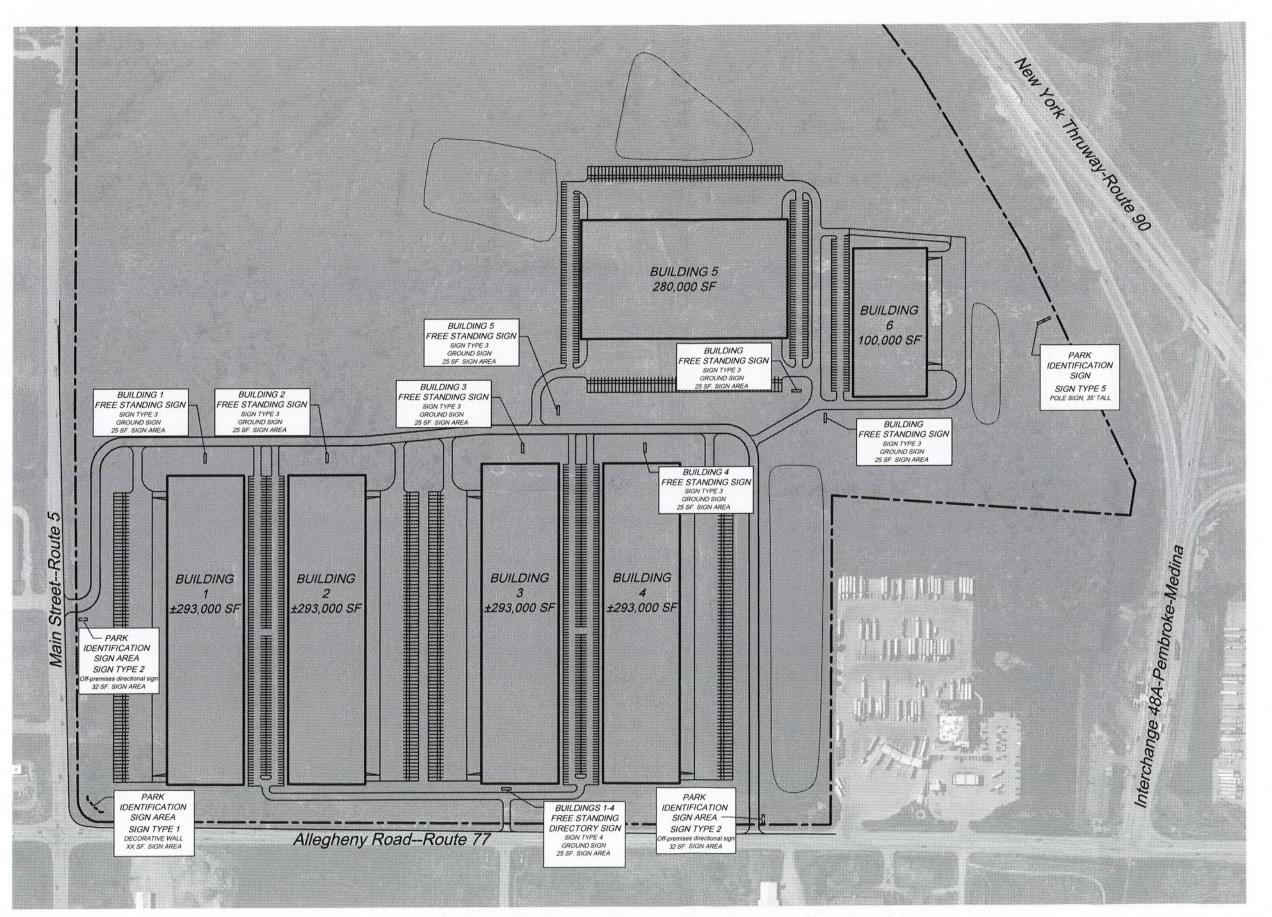
Sign Type 5

Park signature element 35' total height for visibility from the Thruway Free-standing
Development
Business Sign
35' maximum height
(1) location
proposed

NOTE: all signs shown are examples, not actual proposed sign layouts DATES AND REVISIONS 90 Distribution Center Park Signage Study Pembroke, New York

Drawn By
Checked By
Project Number

SITE PLAN
DRAWING NO:
A.1.2 signs



**OVERALL PARK SIGNAGE PLAN** 

NOT TO SCALE



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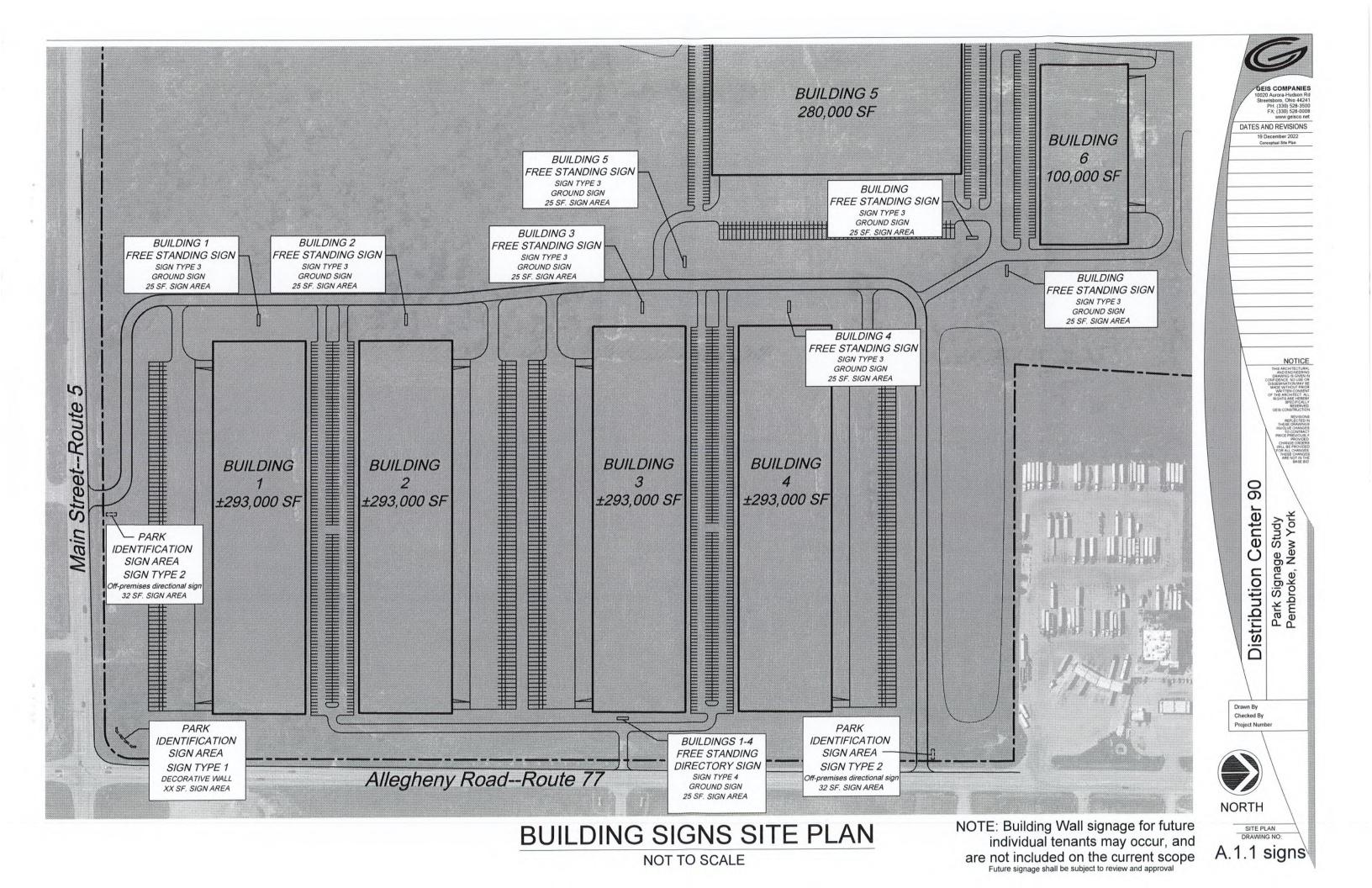
Distribution Center Park Signage Study Pembroke, New York

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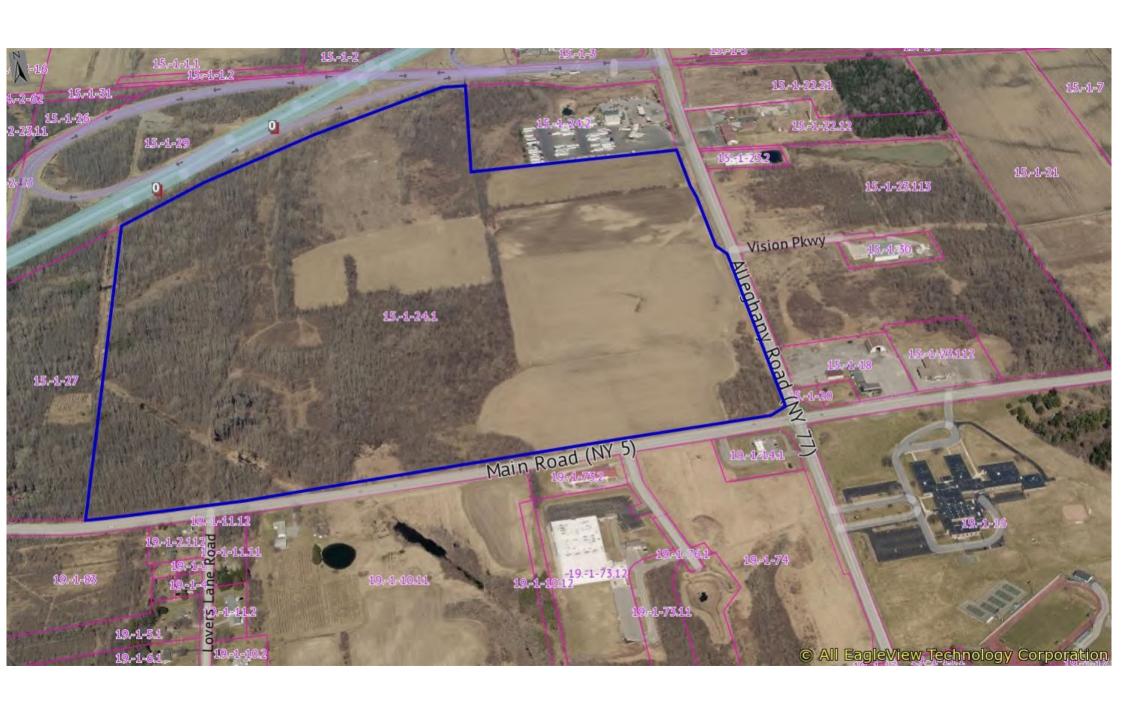


SITE PLAN DRAWING NO:

A.1 signs



# T-01-PEM-01-23



# **Traffic Impact Study**

for the proposed

# Industrial Park at NY-5/NY-77

Town of Pembroke Genesee County, New York

January 2023

Project No. 42072

Prepared For:



10020 Aurora Hudson Road Streetsboro, Ohio 44241

Prepared By:





Please note we've moved and are now with Passero Associates

242 West Main Street, Suite 100 Rochester, NY 14614 T 585.325.1000 F 585.325.1691 www.srfa.net www.passero.com

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### **LIST OF REFERENCES**

- 1. <u>Highway Capacity Manual 6<sup>th</sup> Edition</u>. Transportation Research Board (TRB). The National Academies, Washington, DC. 2016.
- 2. <u>Trip Generation, 11<sup>th</sup> Edition</u>. Institute of Transportation Engineers (ITE). Washington, DC. 2021.
- 3. New York State Department of Transportation (NYSDOT) Traffic Data Viewer. 2022. Retrieved from https://www.dot.ny.gov/tdv.
- 4. OnTheMap. U.S. Census Bureau. 2022.
- 5. NCHRP Report 279, Intersection Channelization Design Guide. TRB. 1985.
- 6. <u>Highway Functional Classification Concepts, Criteria, and Procedures</u>. Federal Highway Administration (FHWA). 2013.
- 7. <u>Manual on Uniform Traffic Control Devices (MUTCD)</u>. Federal Highway Administration (FHWA). 2009.
- 8. <u>A Policy on Geometric Design of Highways and Streets.</u> The American Association of State Highway Transportation Officials (AASHTO). Washington, DC. 2011.



# **EXECUTIVE SUMMARY**

# **OVERVIEW**

The purpose of this report is to evaluate the potential traffic impacts related to the proposed industrial park development in the Town of Pembroke, NY. Within this report, the operating characteristics of the proposed access points and impacts to the adjacent roadway network are identified and mitigating measures (if needed) are provided to minimize operational concerns.

To define traffic impact, this analysis establishes existing baseline traffic conditions, projects background traffic flow including area growth, and determines the traffic operations that would result from the proposed project.

The proposed project will be located on the northwest corner of the NY-5/NY-77 intersection in the Town of Pembroke, Genesee County, New York. The project site is bounded by Flying J Travel Center to the north, NY-77 to the east, NY-5 to the south, and forested lands to the west. Land uses in the vicinity of the proposed project generally include service, retail, light industrial, farmland, and educational.

To ensure a comprehensive analysis of potential traffic impacts, a geographically broad study area was determined consisting of the following intersections, as approved by the New York State Department of Transportation (NYSDOT) and Town of Pembroke:

- NY-77/NYS Thruway Exit 48A Ramp (signalized)
- NY-77/Flying J Truck Access (unsignalized)
- NY-77/Vision Parkway (unsignalized)
- NY/77/NY-5 (signalized)
- NY-5/Brickhouse Road (unsignalized)

The proposed project consists of constructing the following under each phase of development.

- Phase 1: 560,000 square feet (SF) of industrial park space
  - Two separate buildings of 280,000 SF each
- Phase 2: 380,000 SF of high-cube fulfillment center warehouse
  - One building consisting of 100,000 SF space and one consisting of 280,000 SF of space
- Phase 3: 560,000 SF of industrial park space
  - Two separate buildings of 280,000 SF each

The concept site plan is shown in **Figure 5**. Three new access roads are proposed. This site access plan was reviewed with the NYSDOT prior to analysis of potential traffic impacts to determine the feasibility of the number of access points and proposed locations. Based upon feedback from this early coordination, the proposed northerly access road along NY-77 was relocated approximately 200' south of the prior location to provide more spacing between the proposed location and the existing Flying J Truck Access intersection.

The remaining two access roads are located opposite the existing Vision Parkway (along NY-77) and opposite Brickhouse Road (along NY-5). The NY-5 access road is proposed as a truck-only access point while the NY-77 access road opposite Vision Parkway is proposed as the main gateway to be used by passenger vehicles (employees and visitors). The proposed northerly driveway will consist of a mix of traffic.

It is noted that no tenants have been secured at this time for any of the development spaces. Therefore, there is variability to the nature of development of each phase, such as warehouse versus higher intensity industrial park space. There is also variability between estimating vehicle trips based upon square footage of new buildings or number of employees. In many cases, similar projects may consist of a large building size but few employees occupying them on a daily basis. However, this development scenario is considered as a conservative approach for purposes in determining future transportation impacts. Prior to development of each phase, a follow-up traffic analysis will determine the actual type of uses (and possibly number of employees proposed) and related trip generation estimates.

Construction of the proposed project is planned in three phases over a duration of approximately ten years depending on market conditions. For purposes of this analysis, this report analyzed Phase 1 as a three-year build, Phase 2 as a four-year build, and Phase 3 as a three-year build.

Widely accepted methodology for preparing traffic impact studies requires that any projects in the study area that are currently approved and/or under construction must be considered in the traffic analysis. Projects that are contemplated but not yet approved are not included in a traffic analysis. Local municipality personnel were contacted to discuss any other specific projects that are currently approved or under construction that would generate additional traffic in the study area. The Town identified two projects: a warehouse distribution center for NEXgistics along Vision Parkway and Brickhouse Commons along NY-77 south of NY-5. The site trips generated by these developments were added to the study area intersections.

A review of historical New York State Department of Transportation traffic volume data on the study roadways in the vicinity of the site indicates that traffic has generally decreased between 2011 and 2019. To account for normal increases in background traffic growth, including any unforeseen developments in the study area in addition to the projects identified, and considering the projected timeframe for full build-out of the project, a growth rate of 1.0% was applied to the existing traffic volumes in the study area for each phase of development during the AM and PM peak hours.

# **CONCLUSIONS & RECOMMENDATIONS**

This Traffic Impact Study identified and evaluated the potential traffic impacts that can be expected from the proposed Pembroke Industrial Park in the Town of Pembroke, New York. The results of this study determined that the existing transportation network can adequately accommodate the projected traffic volumes and resulting minor impacts to study area intersections with the noted mitigation in place. The following sets forth the conclusions and recommendations based upon the results of the analyses:

# Conclusions

- 1. Phase 1 of the proposed project is expected to generate approximately 154 entering/36 exiting vehicle trips during the AM peak hour and 41 entering/149 exiting vehicle trips during the PM peak hour based upon the ITE Trip Generation Manual. Under full development of all phases, the project is expected to generate approximately 354 entering/83 exiting vehicle trips during the AM peak hour and 106 entering/335 exiting vehicle trips during the PM peak hour.
- 2. Generally, all movements at the study intersections operate at level of service "C" or better during the AM and PM peak hours under existing, projected background, Phase 1, Phase 2, and Phase 3 conditions.



- 3. The study evaluated the available sight distances at the proposed access intersections along NY-77 and NY-5. The available sight distances along NY-77 at the proposed site driveways exceed the required SSD and desirable ISD. The available sight distances along NY-5 at the proposed site driveway exceeds the ISD and SSD to the left, but not to the right.
- 4. The warrants for a northbound left-turn lane were evaluated during both peak hours at the NY-77/Vision Parkway/Proposed Southerly Access intersection. The warrants were not satisfied during either peak hour under Phase 1 or Phase 2 conditions. During the AM peak hour under Phase 3, the warrant is satisfied, while the PM peak hour warrant is not satisfied.
- 5. Volume warrants for a right-turn lane at the proposed access intersections along NY-77 and NY-5 were evaluated under Phase 3 conditions given the volume of right-turn traffic entering the project site at that point. The evaluation showed that the warrants are satisfied during the AM peak hour at the NY-77/Vision Parkway/Proposed Southerly Access and NY-5/Brickhouse Road/Proposed Access intersections.
- 6. The warrant for a traffic signal was evaluated at the NY-77/Vision Parkway/Proposed Access intersection. The warrants were not satisfied.

### Recommendations

- 7. Periodic snapshots of actual traffic operations at the proposed access intersections and adjacent study intersections are recommended as part of a Monitoring and Mitigation Plan to determine if/when the identified improvement strategies are justified prior to each phase of development.
- 8. Minor signal timing adjustments are recommended at the NY-77/NY-5 intersection during the AM and PM peak hours under Phase 3 conditions.
- The northbound left-turn lane at the NY-77/Flying J Truck Access intersection should be restriped to accommodate the northbound left-turn lane at the NY-77/Proposed Northerly Access intersection. The lane should be 450 feet in length with a 75-foot taper.
- 10. A southbound right-turn lane should be constructed at the NY-77/Vision Parkway/Proposed Southerly Access intersection under Phase 3 conditions. The lane should be 450 feet in length with a 75-foot taper.
- 11. An eastbound left-turn lane should be constructed at the NY-5/Brickhouse Road/Proposed Access intersection. The lane should be 450 feet in length with a 75-foot taper. This can be accomplished via restriping and minor roadway widening.
- 12. A westbound right-turn lane should be constructed at the NY-5/Brickhouse Road/Proposed Access intersection under Phase 3 conditions. The lane should be 450 feet in length with a 75-foot taper.
- 13. Advance intersection warning signage (MUTCD W2-2L) is recommended for installation in the eastbound direction at the NY-5/Brickhouse Road/Proposed Access intersection. A supplemental speed plaque beneath the sign should be considered and posted at 35 mph. This speed is chosen as the Intersection Sight Distance and Stopping Sight Distance will be satisfied at this speed for eastbound drivers. The sign



should be installed facing eastbound drivers and at 250 to 325 feet in advance of the intersection.

- 14. No significant adverse traffic impacts are projected as a result of the proposed project at any of the study area intersections.
- 15. Based upon the expected delays under each development phase, the following traffic mitigation plan is recommended.

INTERSECTION	MITIGATION MEASURE AND IMPLEMENTATION TIMEFRAME
	Phase 1: No improvements recommended
NY-77/NYS Thruway (Exit 48A)	Phase 2: Monitor Phase 3: Monitor
	Phase 1: No improvements recommended
NY-77/Flying J Truck Access	Phase 2: Monitor, restripe northbound left-turn lane Phase 3: Monitor
	Phase 1: No improvements recommended
NY-77/Proposed Northerly Access	<b>Phase 2</b> : Install northbound left-turn lane as part of restriping at Flying J Truck Access
	Phase 3: Monitor
NY-77/Vision Parkway/Proposed	Phase 1: No improvements recommended
Southerly Access	Phase 2: Monitor Phase 3: Monitor, construct southbound right-turn lane
	Phase 1: No improvements recommended
NY-5/NY-77	Phase 2: Monitor
	<b>Phase 3</b> : Monitor, perform signal timing adjustments during the AM and PM peak hours
NY-5/Brickhouse Road/Proposed	Phase 1: Construct eastbound left-turn lane
Access	Phase 2: Monitor Phase 3: Monitor, construct westbound right-turn lane

# I. INTRODUCTION

The purpose of this report is to evaluate the potential traffic impacts related to the proposed industrial park development in the Town of Pembroke, NY. Within this report, the operating characteristics of the proposed access points and impacts to the adjacent roadway network are identified and mitigating measures (if needed) are provided to minimize operational concerns.

To define traffic impact, this analysis establishes existing baseline traffic conditions, projects background traffic flow including area growth, and determines the traffic operations that would result from the proposed project.

# **II. LOCATION**

The proposed project will be located on the northwest corner of the NY-5/NY-77 intersection in the Town of Pembroke, Genesee County, New York. The project site is bounded by Flying J Travel Center to the north, NY-77 to the east, NY-5 to the south, and forested lands to the west. Land uses in the vicinity of the proposed project generally include service, retail, light industrial, farmland, and educational.

To ensure a comprehensive analysis of potential traffic impacts, a geographically broad study area was determined consisting of the following intersections, as approved by the New York State Department of Transportation (NYSDOT) and Town of Pembroke:

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- NY-77/Flying J Truck Access (unsignalized)
- NY-77/Vision Parkway (unsignalized)
- NY/77/NY-5 (signalized)
- NY-5/Brickhouse Road (unsignalized)

The site location and study area are illustrated in **Figure 1** (all figures are included at the end of this report).

# **III. EXISTING HIGHWAY SYSTEM**

# A. Vehicular Network Description

The following information outlined in **Table I** provides a description of the existing roadway network within project study area. **Figure 2** illustrates the lane geometry at each of the study intersections and the Annual Average Daily Traffic (AADT) volumes on the study roadways. The AADTs reflect the most recently collected data obtained from the NYSDOT. Where data from the NYSDOT is not available, an extrapolation of turning movement counts performed by Passero Associates shows the estimated ADTs.

Functional classification of highways within the study area is determined by the NYSDOT and the Federal Highway Administration (FHWA). Definitions of the functional classifications shown in **Table I** are provided hereafter.



# Rural Principal Arterial - Interstate (Class 1)

Interstates are the highest classification of arterials and were designed and constructed with mobility and long-distance travel in mind.

# Rural Principal Arterial - Other (Class 4)

These roadways serve corridor movements having trip length and travel density characteristics indicative of substantial statewide or interstate travel. They connect nearly all urbanized areas and provide an integrated network of continuous routes without stub connections.

# TABLE I: EXISTING HIGHWAY SYSTEM

ROADWAY	CLASS <sup>1</sup>	AGENCY <sup>2</sup>	SPEED LIMIT <sup>3</sup>	TRAVEL LANES <sup>4</sup>	TRAVEL PATTERN/ DIRECTION	EST. AADT & SOURCE <sup>5</sup>
NY-77	4	NYSDOT	45	2-3	Two-way/ North-South	6,971 NYSDOT (2017)
NY-5	4	NYSDOT	45	2	Two-way/ East-West	6,336 NYSDOT (2018)
NYS Thruway Exit 48A	1	NYSDOT	45	4-5	Two-way/ East-West	9,700 Passero (2022)

#### Notes:

- 1. State Functional Classification of Roadway.
- 2. Jurisdictional Agency of Roadway.
- 3. Posted or Statewide Limit in Miles per Hour (mph).
- 4. Number of travel lanes. Excludes turning/auxiliary lanes developed at intersections.
- 5. Estimated AADT in Vehicles per Day (vpd). AADT Source (Year).

## B. Multi-Modal Network Description

This evaluation reviewed the study area's pedestrian, bicycle, and transit infrastructure via field and aerial reconnaissance. A description of the multi-modal infrastructure is described hereafter.

# **Pedestrian & Bicycle Facilities**

There are no sidewalks along any of the corridors nor pedestrian crossing signals at the signalized intersections.

There are no dedicated bicycle facilities; however, bicyclists are permitted to share the road on all roadways, aside from the NYS Thruway.

# **Transit Facilities**

No public transit service is provided within the study area.

# IV. EXISTING TRAFFIC CONDITIONS

# A. Peak Intervals for Analysis

Given the functional characteristics of the study corridors, adjacent land uses, and the proposed land use for the project site (industrial park), the peak hours selected for analysis are the weekday commuter AM and PM peak periods. The combination of site traffic and adjacent through traffic produces the greatest demand during these time periods.

# B. Existing Traffic Volume Data

Turning movement traffic counts were collected by Passero Associates at the study intersections on Wednesday, September 7, 2022. Traffic counts were conducted from 6:00-9:00 AM and 4:00-7:00 PM. All turning movement count data was collected on a typical weekday while local schools were in session. No adverse weather conditions impacted the traffic counts. The traffic volumes were reviewed to confirm the accuracy and relative balance of the collective traffic counts. The actual differences in traffic volumes can be attributed to temporal variations in traffic volumes as well as activity related to driveways located in the segments between the study intersections. **Figure 3** illustrates the weekday AM and PM peak hour volumes.

# C. Field Observations

The study intersections were observed during both peak intervals to assess current traffic operations. Signal timing and phasing information was obtained by the NYSDOT to determine peak hour phasing plans and phase durations during each interval. This information was used to support and/or calibrate capacity analysis models described in detail later in this report.

# V. FUTURE AREA DEVELOPMENT AND LOCAL GROWTH

Construction of the proposed project is planned in three phases over a duration of approximately ten years depending on market conditions. For purposes of this analysis, this report analyzed Phase 1 as a three-year build, Phase 2 as a four-year build, and Phase 3 as a three-year build.

Widely accepted methodology for preparing traffic impact studies requires that any projects in the study area that are currently approved and/or under construction must be considered in the traffic analysis. Projects that are contemplated but not yet approved are not included in a traffic analysis. Local municipality personnel were contacted to discuss any other specific projects that are currently approved or under construction that would generate additional traffic in the study area. The Town identified two projects: a warehouse distribution center for NEXgistics along Vision Parkway and Brickhouse Commons along NY-77 south of NY-5. The site trips generated by these developments were added to the study area intersections.

A review of historical NYSDOT traffic volume data on the study roadways in the vicinity of the site indicates that traffic has generally decreased between 2011 and 2019. To account for normal increases in background traffic growth, including any unforeseen developments in the study area in addition to the projects identified, and considering the projected timeframe for full build-out of the project, a growth rate of 1.0% was applied to the existing traffic volumes in the study area for each phase of development during the AM and PM peak hours. The Phase 1 background traffic volumes are depicted in **Figure 4**.

# VI. PROPOSED DEVELOPMENT

# A. Project Description

The proposed project consists of constructing the following under each phase of development.

- Phase 1: 560,000 square feet (SF) of industrial park space
  - Two separate buildings of 280,000 SF each
- Phase 2: 380,000 SF of high-cube fulfillment center warehouse
  - One building consisting of 100,000 SF space and one consisting of 280,000 SF of space
- Phase 3: 560,000 SF of industrial park space
  - o Two separate buildings of 280,000 SF each

The concept site plan is shown in **Figure 5**. Three new access roads are proposed. This site access plan was reviewed with the NYSDOT prior to analysis of potential traffic impacts to determine the feasibility of the number of access points and proposed locations. Based upon feedback from this early coordination, the proposed northerly access road along NY-77 was relocated approximately 200' south of the prior location to provide more spacing between the proposed location and the existing Flying J Truck Access intersection.

The remaining two access roads are located opposite the existing Vision Parkway (along NY-77) and opposite Brickhouse Road (along NY-5). The NY-5 access road is proposed as a truck-only access point while the NY-77 access road opposite Vision Parkway is proposed as the main gateway to be used by passenger vehicles (employees and visitors). The proposed northerly driveway will consist of a mix of traffic.

It is noted that no tenants have been secured at this time for any of the development spaces. Therefore, there is variability to the nature of development of each phase, such as warehouse versus higher intensity industrial park space. There is also variability between estimating vehicle trips based upon square footage of new buildings or number of employees. In many cases, similar projects may consist of a large building size but few employees occupying them on a daily basis. However, this development scenario is considered as a conservative approach for purposes in determining future transportation impacts. Prior to development of each phase, a follow-up traffic analysis will determine the actual type of uses (and possibly number of employees proposed) and related trip generation estimates.

# **B. Site Generated Traffic**

The volume of traffic generated by a site is dependent on the intended land use and size of the development. Trip generation is an estimate of the number of trips generated by a specific building or land use. These trips represent the volume of traffic entering and exiting the development. Trip Generation Manual (11th Edition) published by the Institute of Transportation Engineers (ITE) is used as a reference for this information. The trip rate for the peak hour of the generator may or may not coincide in time or volume with the trip rate for the peak hour of adjacent street traffic. Volumes generated during the peak hour of the adjacent street traffic and proposed land use, in this case, the weekday commuter AM and PM peaks, represent a more critical volume when analyzing the capacity of the system; those intervals will provide the basis of this analysis.



Table II shows the total site generated trips for the proposed project. The proposed uses may consist of a measurable portion of truck traffic versus car traffic. Therefore, the table distinguishes the vehicle mix in italics for each phase using ITE data obtained from the Trip Generation Manual. All trip generation information has been included in the Appendices.

TABLE II: SITE GENERATED TRIPS

DECORIDATION	ITE	CIZE	AM PEAR	K HOUR	PM PEAK HOUF		
DESCRIPTION		SIZE	ENTER	EXIT	ENTER	EXIT	
Industrial Park	130	560,000 SF	154	36	41	149	
Cars			136	32	36	130	
Trucks			18	4	5	19	
High-Cube Fulfillment Center Warehouse	155	380,000 SF	46	11	24	37	
Cars			42	10	22	34	
Trucks			4	1	2	3	
Industrial Park	130	560,000 SF	154	36	41	149	
Cars			136	32	36	130	
Trucks			18	4	5	19	
Total Site Generated Trips			354	83	106	335	
Note:  1. LUC = Land Use Code.							

Phase 1 of the proposed project is expected to generate approximately 154 entering/36 exiting vehicle trips during the AM peak hour and 41 entering/149 exiting vehicle trips during the PM peak hour based upon the ITE Trip Generation Manual. Under full development of all phases, the project is expected to generate approximately 354 entering/83 exiting vehicle trips during the AM peak hour and 106 entering/335 exiting vehicle trips during the PM peak hour.

# C. Site Traffic Distribution

The cumulative effect of site-generated traffic on the transportation network is dependent on the origins and destinations of that traffic and the location of the access drives serving the site. The proposed arrival/departure distribution of traffic generated by the proposed project is considered a function of several parameters, including:

- Residential centers using U.S. Census Data
- Proximity and access to NYS Thruway
- Site access locations stratified by intended vehicle mode and phase of development
- Existing traffic patterns
- Existing traffic conditions and controls

The following figures illustrate the anticipated trip distribution pattern percentages and the projected site generated traffic based on those percentages.

# Trip Distribution

Figure 6A - Phase 1 and 3 Cars

Figure 6B - Phase 2 Cars

Figure 6C - Phase 1 and 3 Trucks

Phase 6D - Phase 2 Trucks



Site Generated Trips

Figure 7A - Phase 1

Figure 7B - Phase 2

Figure 7C - Phase 3

Figure 7D - Total Site Trips

# VII. FULL DEVELOPMENT VOLUMES

Proposed design hour traffic volumes for each traffic phase were developed for the AM and PM peak hours by combining the background traffic conditions (**Figure 4**) and the new site generated traffic volumes by phase (**Figures 7A-7C**) to yield the traffic volumes under each development condition.

The resulting design hour volumes for the proposed project by development phase are illustrated in **Figures 8A-8C** for Phase 1, Phase 2, and Phase 3, respectively.

# **VIII. CAPACITY ANALYSIS**

# A. Description of Capacity Analysis

Capacity analysis is a technique used for determining a measure of effectiveness for a section of roadway and/or intersection based on the number of vehicles during a specific time period. The measure of effectiveness used for the capacity analysis is referred to as a Level of Service (LOS). Levels of Service are calculated to provide an indication of the amount of delay that a motorist experiences while traveling along a roadway or through an intersection. Since the most amount of delay to motorists usually occurs at intersections, capacity analysis focuses on intersections, as opposed to highway segments.

Six Levels of Service are defined for analysis purposes. They are assigned letter designations, from "A" to "F", with LOS "A" representing the conditions with little to no delay, and LOS "F" conditions with very long delays. Suggested ranges of service capacity and an explanation of Levels of Service are included in the Appendices. LOS "C" or better is generally desirable, but LOS "D" for signalized locations and LOS "E" for unsignalized are generally acceptable during peak periods so long as the volume to capacity ratio (v/c) is below 1.0.

The standard procedure for capacity analysis of signalized and unsignalized intersections is outlined in the <u>Highway Capacity Manual</u> (HCM 2016) published by the Transportation Research Board (TRB). Traffic analysis software, Synchro 11, which is based on procedures and methodologies contained in the HCM, was used to analyze operating conditions at study area intersections. The procedure yields a Level of Service based on the HCM as an indicator of how well intersections operate.

## B. Capacity Analysis Results

Existing and background operating conditions during the peak study periods are evaluated to determine a basis for comparison with the projected future conditions. The future traffic conditions generated by the project by phase were analyzed to assess the operation of the study area intersections. Capacity results for existing, background, and each phase of development conditions are listed in **Table III**. The discussion following the table summarizes capacity conditions.



Given potential variability of market conditions, follow-up traffic studies of actual traffic conditions are recommended prior to each development phase to verify the trip generation and distribution projections at the site driveways and evaluate study area intersection operations. These subsequent post-studies are recommended as it relates to the construction

and implementation of the improvements described hereafter.



INTERSECTION	-	202 EXISTING	BASE		BACKG COND	ROUND	20. PHASE 1 C	The state of the s	PHASE 2 C		PHASE 3 CO		PHASE 3 CO	ONDITIONS
	AN	И	PM		AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
. NY-77/NYS Thruway Exit 48A (S)		-	-							ije o				
EB Left - NYS Thruway	C	23.4	C 24.8	-	C 25.4	C 26.7	C 25.8	C 27.9	C 26.0	C 28.7	C 27.2	C 30.1		
EB Right - NYS Thruway	A	2.0	A 2.1	-	A 2.0	A 2.1	A 2.1	A 2.1	A 2.2	A 2.2	A 2,4	A 2.2		
NB Left - NY-77		10.2	B 12.0	The state of the last	B 12.1	B 12.9	B 12.6	B 14.4	В 13.6	B 15.4	B 15.2	В 18.0	NO MITI	
NB Thru - NY-77	A	4.5	A 6.9	E CONTRACTOR DE LA CONT	A 4.9	A 6.9	A 4.9	A 7.0	A 5.0	A 7.2	A 5.1	A 7.5	RECOMN	MENDED
	_	11.5	B 12.8	2 2000000000000000000000000000000000000	B 12.4	B 13.8	B 13.2	B 14.6	B 13.3	B 15.3	B 14.4	B 16.2		
		9.9	B 11.		B 11.0	B 11.9	B 11.1	B 12.5	B 11.4	B 12.9	B 12.0	B 14.0		
Volume-to-Capacity (v/c) Ratio	0.5	2	0.59		0.56	0.62	0.58	0.62	0.60	0.63	0.63	0.66		
NY-77/Flying J Truck Access				5.563										
EB Left - Flying J Truck Access	C :	21.4	D 25.3	3	C 22.7	D 29.8	D 26.6	E 35.3	D 30.1	E 41.4	E 38.9	F 55.9		
EB Right - Flying J Truck Access	В	10.6	B 11.6		B 10.6	B 11.9	B 11.0	B 12.0	B 11.2	В 12.2	B 11.7	B 12.5	NO MITI	GATION
NB Left - NY-77	A	9,4	A 9.7		A 9.5	A 9.9	A 9.9	B 10.1	B 10.1	B 10.2	В 10.6	B 10.4	RECOMM	MENDED
NY-77/Proposed Northerly Dwy (U)														
EB Left - Proposed Northerly Access									C 17.0	C 21.0	C 19.2	0 044		
EB Right - Proposed Northerly Access	N.A		NA		NA	NA	NA	NA	A 9.4	The same of the sa		C 24.4	NO MITI	GATION
NB Left - NY-77									A 8.0	A 9.9 A 8.5	A 9.6 A 8.3	B 10.1 A 8,6	RECOMM	MENDED
NY-77/Vision Parkway/Proposed Southe	erly Acc	ess (U)		- 8000										
EB Left - Proposed Southerly Access							C 17.8	C 22.6	C 18.7	C 24.3	C 22.8	E 38.0	C 21.0	F 20
Thru/Right - Proposed Southerly Access	NA		NA		NA	NA	A 9.3	A 9.9	A 9.3	A 9.9	A 9.6	В 10.2		E 36
WB - Vision Parkway	В	10.4	A 9.8		B 10.8	B 10.7	B 11.0	B 11.0	B 11.2	B 11.2	B 11.5	B 11.6	A 9.2 B 11.5	B 10 B 11
NB Left - NY-77	NA	THE RESERVE TO SERVE	NA		NA	NA	A 8.0	A 8.4	A 8.0	A 8.4	A 8.3	A 8.6	The same of the sa	1000
SB Left - NY-77	A	8.0	A 0.0		A 8.1	A 7.9	A 8.1	A 8.0	A 8.2	A 8.0	A 8.2	A 8.1	A 8.8	A 8



INTERSECTION		EXISTIN CONDI	G BAS	E		BACKG CONDI	ROUNE	)		PH	202 HASE 1 CO		ions		PHASE 2	2029 CONDI	TIONS		20 PHASE 3 C	32 ONDIT	ions		PHASE 3	032 CONDIT GATION	
		AM		PM		AM	- 1	PM		A	M		PM		AM		PM		AM		PM		AM		PM
5/NY-77 (S)														236											
EB Left - NY-5	В	16.4	В	15.2	В	17.1	В	16.3		в	18.8	В	18.1	В	19.8	В	18.8	C	24.5	С	21.7	С	23.8	В	19.8
EB Thru/Right - NY-5	В	14.6	В	15.9	В	15.2	В	17.4	1	В	16.3	В	18.5	В	17.3	В	19.8	В	19.3	С	22.9	В	Street, or other Designation of the last o	C	ASSESSMENT OF THE PARTY NAMED IN
WB Left - NY-5	В	17.7	В	14.1	В	18.5	В	15.5	1	В	19.5	В	16.2	C	21.1	В	17.2	C	24.8	В	19.0	С	24.1	В	THE REAL PROPERTY.
WB Thru/Right - NY-5	В	14.0	В	13.9	В	14.6	В	14.9	1	В	16.3	В	15.2	В	17.4	В	15.7	C	20.4	В	16.6	В	19.8	В	15.1
NB Left - NY-77	В	11.6	В	10.1	В	12.0	В	11.1	1	В	13.5	В	12.5	В	14.4	В	13.4	В	17.3	В	14.9	В	17.7	В	
NB Thru/Right - NY-77	В	13.2	В	10.2	В	13.8	В	11.0	1	В	14.0	В	11.8	В	14.5	В	12.3	В	14.8	В	12.8	В	15.1	В	14.1
SB Left - NY-77	В	10.7	В	10.3	В	11.2	В	10.6	1	В	11.5	В	11.6	В	11.7	В	12.2	В	11.9	В	12.6	В	12.2	В	13.9
SB Thru/Right - NY-77	В	13.3	В	12.8	В	13.8	В	13.9		В	14.9	В	15.2	В	15.1	В	15.9	В	16.2	В	17.1	В	16.5	В	STREET, ST
Overall LOS	В	14.1	В	13.1	В	14.7	В	14.1	(E)	В	15.7	В	15.2	В	16.4	В	16.0	В	18.3	В	17.7	В	18.3	В	
Volume-to-Capacity (v/c) Ratio	(	).51	-	0.55		0.53	(	0.59		0.	.55		0.60		0.56		0.62		0.60		0.70		0.60		0.67
														36			-	524			343	de la companya della companya della companya de la companya della			
5/Brickhouse Road/Proposed Acces																									
EB Left - NY-5		NA		NA		NA		NA	COLUMN TOWNS	A	8,1	A	8,1	A		A	10000	A	8,5	А	8.2	A	8.5	A	8.2
WB Left - NY-5		8.1	A	7.9	A	8.2	A	8.0		A	8.2	A	8.0	A	-	A	8.0	A	8.2	Α	8.0	A	8.2	A	8.0
NB Left - Brickhouse Road	-	16.5	В	14.0	С	16.9	В	14.7		С	21.5	С	17.5	C		С	18.6	D	28.6	C	20.9	D	28.6	С	20.9
NB Thru/Right - Brickhouse Road		NA		NA		NA		NA		В	11.8	В	10.3	В	12.0	В	10.4	В	12.1	В	10.5	В	12.1	В	10.5
NB Right - Brickhouse Road	В	11.7	В	10.1	В	11.8	В	10.3		1	NA		NA		NA		NA		NA		NA		NA		NA
SB Left - Proposed Access		NA -		NA	avist.	NA -		NA		С	18.5	С	21.3	C	19.7	C	23.7	D	25.5	E	36.1	D	22.9	D	34.2
SB Thru/Right - Proposed Access									The same of	В	10.0	В	10.7	В	10.1	В	10.9	В	10.5	В	11.3	В	10.0	В	11.2

#### Notes:

- 1. A (0.0) = Level of Service (Delay in seconds per vehicle)
- 2. EB = Eastbound, WB = Westbound, NB = Northbound, SB = Southbound
- 3. (S) = Signalized; (U) = Unsignalized
- 4. N/A = Approach does not exist and/or was not analyzed during this condition
- 5. Green shaded cells indicate low delays, yellow shaded cells indicate moderate delays, red shaded cells indicate long delays.
- 6. The v/c ratio, also referred to as degree of saturation, represents the sufficiency of an intersection to accommodate the vehicular demand. A v/c ratio less than 0.85 generally indicates that adequate capacity is available and vehicles are not expected to experience significant queues and delays. A v/c ratio between 0.85 and 0.95 generally indicates an intersection is nearing capacity. Intersections with a v/c ratio of 1.0 or greater generally indicate conditions at or above capacity.



# 1. NY-77/NYS Thruway (Exit 48A)

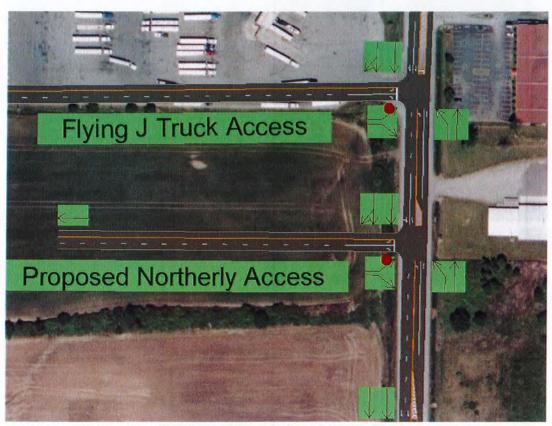
All movements generally operate at LOS "C" or better under all conditions during both peak hours. There is no change in LOS based upon the projected impacts associated with the proposed project. The intersection can accommodate the projected new traffic volumes; thus, no capacity improvements are warranted nor recommended.

# 2. NY-77/Flying J Truck Access

All movements generally operate at LOS "D" or better under existing and projected background conditions during both peak hours. Between background and Phase 1 conditions, the eastbound left approach changes from LOS "D" to "E" during the PM peak hour. However, the change is borderline as the threshold is 35.0 seconds of delay per vehicle between LOS "D" and "E" and the projected increase in delay is less than six seconds of delay per vehicle. Between Phase 1 and Phase 3 conditions, the eastbound left movement changes from LOS "E" to "F". There are 45 projected left-turn movements under Phase 3, which equates to one vehicle every 1.3 minutes. Despite this change, no capacity improvements are recommended at this time. This intersection should be studied prior to Phase 3 to reassess the projected conditions.

# 3. NY-77/Proposed Northerly Access

All movements generally operate at LOS "C" or better under projected Phase 2 and Phase 3 conditions during both peak hours. No capacity improvements are recommended. The northbound left-turn lane should be restriped between this intersection and the Flying J Truck Access intersection to accommodate the new movements.



Proposed geometry at Flying J and Proposed Northerly Access intersections

# 4. NY-77/Vision Parkway/Proposed Southerly Access

All movements generally operate at LOS "C" or better under existing, projected background, Phase 1, and Phase 2 conditions during both peak hours. Between Phase 2 and Phase 3 conditions, the eastbound left movement during the PM peak hour changes from LOS "C" to "E". This level of service is characteristic of stop-controlled approaches at unsignalized intersections along arterials with high-volume movements, such as the exiting eastbound left movement. Based upon the signal warrant investigation, a traffic signal is not warranted. Under Phase 3, proposed mitigation consists of installing a southbound right-turn lane based upon the projected right-turn traffic volumes during the AM peak hour. No additional capacity improvements are recommended.

# 5. NY-77/NY-5

All movements generally operate at LOS "B" or better under existing, projected background, and Phase 1 conditions during both peak hours. Between Phase 1 and Phase 2, the westbound left movement changes from LOS "B" to "C" during the AM peak hour. However, this change is borderline as the threshold is 20.0 seconds per vehicle. Between Phase 2 and Phase 3, the eastbound left (AM and PM), eastbound thru/right (PM), and westbound thru/right (AM) movements change from LOS "B" to "C". Signal timing modifications are recommended to increase the green time given to the eastbound and westbound approaches. These signal timing changes may be implemented automatically by the existing controller since the signal is fully actuated. No other capacity improvements are recommended.

# 6. NY-5/Brickhouse Road/Proposed Access

All movements generally operate at LOS "C" or better under existing, projected background, Phase 1, and Phase 2 conditions during both peak hours. With construction of Phase 1, a westbound left-turn lane should be constructed to facilitate the new movements onto the site. The westbound left-turn lane should be 450 feet in length, including a 75-foot taper. Between Phase 2 and Phase 3, the northbound left and southbound left movements change from LOS "C" to "D" during the AM peak hour. The southbound left movement during the PM peak hour changes from LOS "C" to "E" during the PM peak hour between Phase 2 and Phase 3 conditions.

Under Phase 3, proposed mitigation consists of installing a westbound right-turn lane based upon the projected right-turn traffic volumes during the AM peak hour. No additional capacity improvements are recommended.

# IX. AUXILIARY LANE WARRANT INVESTIGATION

Volume warrants for left turn treatments at the NY-77/Vision Parkway/Proposed Southerly Access intersection were investigated using NCHRP Report 279: Intersection Channelization Design Guide (1985) published by the Transportation Research Board (TRB). Provisions for left turn lane facilities should be established where traffic volumes are high enough and safety considerations are sufficient to warrant the additional lane. This investigation analyzes warrants during the peak hours of study. All supporting calculations are included in the Appendices.

Given that the NY-77/Proposed Northerly Access intersection has an existing northbound left-turn lane as part of the Flying J Truck Access, no analysis was performed. The NY-5/Brickhouse Road/Proposed Access intersection will be required to construct an eastbound left-turn lane given the existing westbound left-turn lane at the same intersection; thus, no analysis was performed. This is shown in **Figure 9.** 

The warrants are based, in part, on the design speed for a given section of roadway. Generally, the design speed is the posted speed limit plus 5 MPH. In this case, the posted speed limit is 45 MPH along NY-77 and NY-5.

The warrants are summarized in **Table IV** and consider the combination of traffic volumes at each development phase and the design speed for the subject roadways.

TABLE IV: LEFT TURN WARRANT ANALYSIS

INTERSECTION	TRAFFIC PHASE	APPROACH	WARRANT SATISFIED
	1	Northbound	NO (NO)
NY-77/Proposed Southerly Driveway	2	Northbound	NO (NO)
	3	Northbound	YES (NO)

The warrants are not satisfied during either peak hour under Phase 1 or Phase 2 conditions. During the AM peak hour under Phase 3, the warrant is satisfied, while the PM peak hour warrant is not satisfied.

Consideration should be given to installing a northbound left-turn lane under Phase 3. However, a future traffic analysis at the driveway prior to Phase 3 will determine its justification based upon updated trip generation estimates.

Volume warrants for a right-turn lane at the proposed access intersections along NY-77 and NY-5 were evaluated under Phase 3 conditions given the volume of right-turn traffic entering the project site at that point. The evaluation showed that the warrants are satisfied during the AM peak hour at the NY-77/Vision Parkway/Proposed Access and NY-5/Brickhouse Road/Proposed Access intersections. Right-turn lanes should be installed at both locations under Phase 3 development and be 450 feet in length, including a 75-foot taper.

# X. SIGHT DISTANCE EVALUATION

Sight distance was investigated at the proposed site access locations along NY-77 and NY-5. Sight distance is provided at intersections to allow drivers to perceive the presence of potentially conflicting vehicles. This should occur in sufficient time for a motorist to stop or adjust their speed, as appropriate, to avoid a collision at the intersection.

Sight distance is also provided at intersections to allow the drivers of stopped vehicles a sufficient view of the intersecting highway to anticipate and avoid potential incidents. If the available sight distance for an entering or crossing vehicle is at least equal to the appropriate Stopping Sight Distance (SSD) for the major road, then drivers have sufficient sight distance to anticipate and avoid collisions. To enhance traffic operations, Intersection Sight Distances (ISD) that exceed SSD are desirable along the major road.

<u>A Policy on Geometric Design of Highways and Streets</u> published by the American Association of State Highway and Transportation Officials (AASHTO) in 2011 was used as a reference to establish the required SSD and desirable ISD.

The required SSD and desirable ISD for a left turn from a stop are based on the design speed (posted plus 5 MPH) for a given section of roadway. **Table V** depicts the results.

TABLE V: SIGHT DISTANCE REQUIREMENT AND MEASUREMENTS

INTERSECTION	POSTED	DESIGN		DESIRABLE		LABLE SIGHT NCE TO THE:
INTEROCOTION	SPEED	SPEED	SSD	ISD <sup>-</sup>	LEFT	RIGHT
NY-77/Proposed Northerly Driveway	45	50	425	555	ISD: >555 SSD: >425	ISD: >555 SSD: >425
NY-77/Proposed Southerly Driveway	45	50	425	555	ISD: >555 SSD: >425	ISD: >555 SSD: >425
NY-5/Proposed Driveway	45	50	425	555	ISD: >555 SSD: >425	ISD: <555 SSD: <425

#### Notes

- 1. Speeds are in miles per hour (MPH).
- 2. Distances are in feet.

The available sight distances along NY-77 at the proposed site driveways exceed the required SSD and desirable ISD. Any landscaping should be maintained to ensure maximum visibility at the site driveways.

The available sight distances along NY-5 at the proposed site driveway exceeds the ISD and SSD to the left, but not to the right. Given this condition, advance intersection warning signage (MUTCD W2-2L) is recommended for installation in the eastbound direction. A supplemental speed plaque beneath the sign should be considered and posted at 35 mph. This speed is chosen as the ISD and SSD will be satisfied at this speed for eastbound drivers. The sign should be installed facing eastbound drivers and at 250 to 325 feet in advance of the intersection.



Intersection Warning Sign

# XI. TRAFFIC SIGNAL WARRANT INVESTIGATION

This study performed a traffic signal warrant analysis at the proposed NY-77/Vision Parkway/Proposed Southerly Driveway intersection. The need for a traffic signal is determined by comprehensive investigation of existing traffic conditions and physical characteristics at the location. The <u>Standard Specifications Update for the adoption of the National MUTCD (FHWA)</u> and the <u>New York State Supplement</u> were reviewed to investigate the need for a traffic control signal at this location. There are nine (9) warrants, and they are as follows:

- Warrant 1 Eight-Hour Vehicular Volume
- Warrant 2 Four-Hour Vehicular Volume
- Warrant 3 Peak Hour Vehicular Volume
- Warrant 4 Pedestrian Volume
- Warrant 5 School Crossing
- Warrant 6 Coordinated Signal System
- Warrant 7 Crash Experience

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- Warrant 8 Roadway Network
- Warrant 9 Intersection Near a Grade Crossing

Prior to applying warrants, the MUTCD suggests consideration of the effects of right-turn volumes on the minor street approach, and a reduction taken in the number of right turning vehicles, where appropriate. A certain number of right-turn vehicles will execute a right-turn on the red (RTOR) indication without actuating a traffic signal (if one were in place). For purposes of this analysis, it is assumed that 20% of the right-turning vehicles exiting the proposed driveway would execute a RTOR and should be subtracted for the warrant analysis. The ITE was used to project the hourly distribution of traffic exiting the proposed access. The posted speed limit on NY-77 is 45 MPH, thus 70% thresholds in Table 4C-1, Figure 4C-2, and Figure 4C-4 are used as a basis for analysis.

- 1. Warrant 1 is subdivided into Condition A and Condition B. The Minimum Vehicular Volume, Condition A, is intended for application at locations where a large volume of intersecting traffic is the principal reason to consider installing a traffic control signal. The Interruption of Continuous Traffic, Condition B, is intended for application at locations where Condition A is not satisfied and where the traffic volume on a major street is so heavy that traffic on a minor intersecting street suffers excessive delay or conflict in entering or crossing the major street. These conditions are satisfied when, for each of any eight hours of an average day, anticipated volumes on the artery and side road are more than the minimum values presented in Tables 4C-1 in the MUTCD. Under Phase 1, Conditions A (0 hours) and B (0 hours) are not met. Under Phase 1, Conditions A (0 hours) and B (1 hour) are not met.
- 2. Warrant 2, the Four-Hour Vehicular Volume signal warrant conditions, are intended to be applied where the volume of intersecting traffic is the principal reason to consider installing a traffic control signal. This warrant stipulates that for any four hours of a day, minimum threshold volumes are met on the artery and side road. Under Phase 1, the warrant is not met (0/4 hours). Under Phase 3, the warrant is not met (1/4 hours).
- 3. Warrant 3 is intended for application where minor street traffic suffers undue delay in entering or crossing the major street for one hour of the day. It stipulates that the warrant shall be applied in unusual cases (high-occupancy vehicle facilities i.e., shopping centers, office parks) where a large number of vehicles discharge over a short period of time. Under Phase 1, the warrant is not met (0/1 hour). Under Phase 3, the warrant is met (1/1 hour).
- 4. Warrant 4 is met when pedestrians experience excessive delay in crossing the major street because the traffic volumes are so heavy. The intersection currently has low pedestrian activity and is not likely to increase significantly under future development phases. **This warrant is not met.**
- Warrant 5 is met when a sufficient number of gaps in traffic do not exist for certain size and frequency of school children to cross the major roadway. This warrant is not met.
- 6. Warrant 6 is met when a traffic signal is needed to maintain progressive movement and vehicle platooning in a coordinated signal system. The intersection would not likely be coordinated with adjacent signals, if warranted. **Therefore, this warrant is not met.**

- 7. Warrant 7 is intended for application where the severity and frequency of crashes are the principal reasons to consider installing a traffic control signal. The need for a traffic control signal shall be considered if *all* of the following criteria are met:
  - a. Adequate trial of alternatives with satisfactory observance and enforcement has failed to reduce crash frequency.
  - b. Five (5) or more reported crashes, of types susceptible to correction by a traffic signal, to have occurred within a 12-month period, each crash involving a personal injury or property damage.

#### This warrant was not met.

- 8. Warrant 8 is met when a traffic signal might encourage concentration and organization of traffic flow on a roadway network. This warrant primarily focuses on two major intersecting roadways, which is not the case at the study intersection. **This warrant is not met.**
- 9. Warrant 9 is applicable when an intersection is located near an at-grade rail crossing. **This warrant is not met.**

TABLE VI: TRAFFIC SIGNAL WARRANT SUMMARY

WADDANT	SATISFACT	TION OF WARRANTS
WARRANT —	PHASE 1	PHASE 3
1A – Eight-Hour Condition A	NO (0/8 hours)	N0 (0/8 hours)
1B – Eight-Hour Condition B	NO (0/8 hours)	N0 (1/8 hours)
2 – Four-Hour	NO (0/4 hours)	NO (1/4 hours)
3 - Peak-Hour	NO (0/1 hour)	YES (1/1 hour)
4 - Pedestrian Volume	NO	NO
5 – School Crossing	NO	NO
6 - Coordinated Signal System	NO	NO
7 - Crash Experience	NO	NO
8 - Roadway Network	NO	NO
9 - Intersection Near a Grade Crossing	NO	NO

**Table VI** summarizes the signal warrant findings at the study intersection under Phase 1 and Phase 3. Based upon the results, a traffic signal is not warranted under either development phase.

# XII. CONCLUSIONS & RECOMMENDATIONS

This Traffic Impact Study identified and evaluated the potential traffic impacts that can be expected from the proposed Pembroke Industrial Park in the Town of Pembroke, New York. The results of this study determined that the existing transportation network can adequately accommodate the projected traffic volumes and resulting minor impacts to study area

intersections with the noted mitigation in place. The following sets forth the conclusions and recommendations based upon the results of the analyses:

#### Conclusions

- 1. Phase 1 of the proposed project is expected to generate approximately 154 entering/36 exiting vehicle trips during the AM peak hour and 41 entering/149 exiting vehicle trips during the PM peak hour based upon the ITE Trip Generation Manual. Under full development of all phases, the project is expected to generate approximately 354 entering/83 exiting vehicle trips during the AM peak hour and 106 entering/335 exiting vehicle trips during the PM peak hour.
- 2. Generally, all movements at the study intersections operate at level of service "C" or better during the AM and PM peak hours under existing, projected background, Phase 1, Phase 2, and Phase 3 conditions.
- 3. The study evaluated the available sight distances at the proposed access intersections along NY-77 and NY-5. The available sight distances along NY-77 at the proposed site driveways exceed the required SSD and desirable ISD. The available sight distances along NY-5 at the proposed site driveway exceeds the ISD and SSD to the left, but not to the right.
- 4. The warrants for a northbound left-turn lane were evaluated during both peak hours at the NY-77/Vision Parkway/Proposed Southerly Access intersection. The warrants were not satisfied during either peak hour under Phase 1 or Phase 2 conditions. During the AM peak hour under Phase 3, the warrant is satisfied, while the PM peak hour warrant is not satisfied.
- 5. Volume warrants for a right-turn lane at the proposed access intersections along NY-77 and NY-5 were evaluated under Phase 3 conditions given the volume of right-turn traffic entering the project site at that point. The evaluation showed that the warrants are satisfied during the AM peak hour at the NY-77/Vision Parkway/Proposed Southerly Access and NY-5/Brickhouse Road/Proposed Access intersections.
- 6. The warrant for a traffic signal was evaluated at the NY-77/Vision Parkway/Proposed Access intersection. The warrants were not satisfied.

# Recommendations

- 7. Periodic snapshots of actual traffic operations at the proposed access intersections and adjacent study intersections are recommended as part of a Monitoring and Mitigation Plan to determine if/when the identified improvement strategies are justified prior to each phase of development.
- 8. Minor signal timing adjustments are recommended at the NY-77/NY-5 intersection during the AM and PM peak hours under Phase 3 conditions.
- The northbound left-turn lane at the NY-77/Flying J Truck Access intersection should be restriped to accommodate the northbound left-turn lane at the NY-77/Proposed Northerly Access intersection. The lane should be 450 feet in length with a 75-foot taper.
- 10. A southbound right-turn lane should be constructed at the NY-77/Vision Parkway/Proposed Southerly Access intersection under Phase 3 conditions. The lane should be 450 feet in length with a 75-foot taper.



- 12. A westbound right-turn lane should be constructed at the NY-5/Brickhouse Road/Proposed Access intersection under Phase 3 conditions. The lane should be 450 feet in length with a 75-foot taper.
- 13. Advance intersection warning signage (MUTCD W2-2L) is recommended for installation in the eastbound direction at the NY-5/Brickhouse Road/Proposed Access intersection. A supplemental speed plaque beneath the sign should be considered and posted at 35 mph. This speed is chosen as the Intersection Sight Distance and Stopping Sight Distance will be satisfied at this speed for eastbound drivers. The sign should be installed facing eastbound drivers and at 250 to 325 feet in advance of the intersection.
- 14. No significant adverse traffic impacts are projected as a result of the proposed project at any of the study area intersections.
- 15. Based upon the expected delays under each development phase, the following traffic mitigation plan is recommended.

INTERSECTION	MITIGATION MEASURE AND IMPLEMENTATION TIMEFRAME
	Phase 1: No improvements recommended
NY-77/NYS Thruway (Exit 48A)	Phase 2: Monitor
	Phase 3: Monitor
	Phase 1: No improvements recommended
NY-77/Flying J Truck Access	Phase 2: Monitor, restripe northbound left-turn lane Phase 3: Monitor
	Phase 1: No improvements recommended
NY-77/Proposed Northerly Access	Phase 2: Install northbound left-turn lane as part of restriping at Flying J Truck Access Phase 3: Monitor
NY-77/Vision Parkway/Proposed Southerly Access	Phase 1: No improvements recommended Phase 2: Monitor Phase 3: Monitor Phase 3: Monitor, construct southbound right-turn lane
NY-5/NY-77	Phase 1: No improvements recommended Phase 2: Monitor Phase 3: Monitor, perform signal timing adjustments during the AM and PM peak hours
NY-5/Brickhouse Road/Proposed Access	Phase 1: Construct eastbound left-turn lane Phase 2: Monitor Phase 3: Monitor, construct westbound right-turn lane

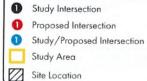
17

# XIII. FIGURES

Figures 1 through 9 are included on the following pages.







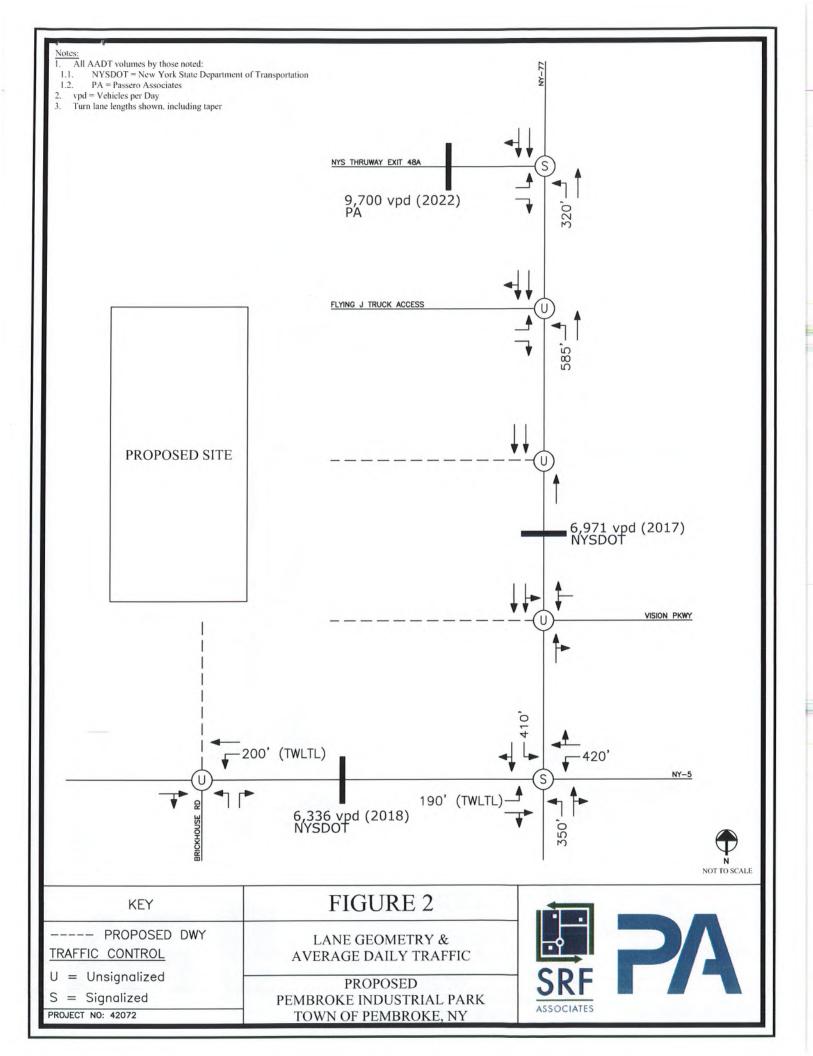
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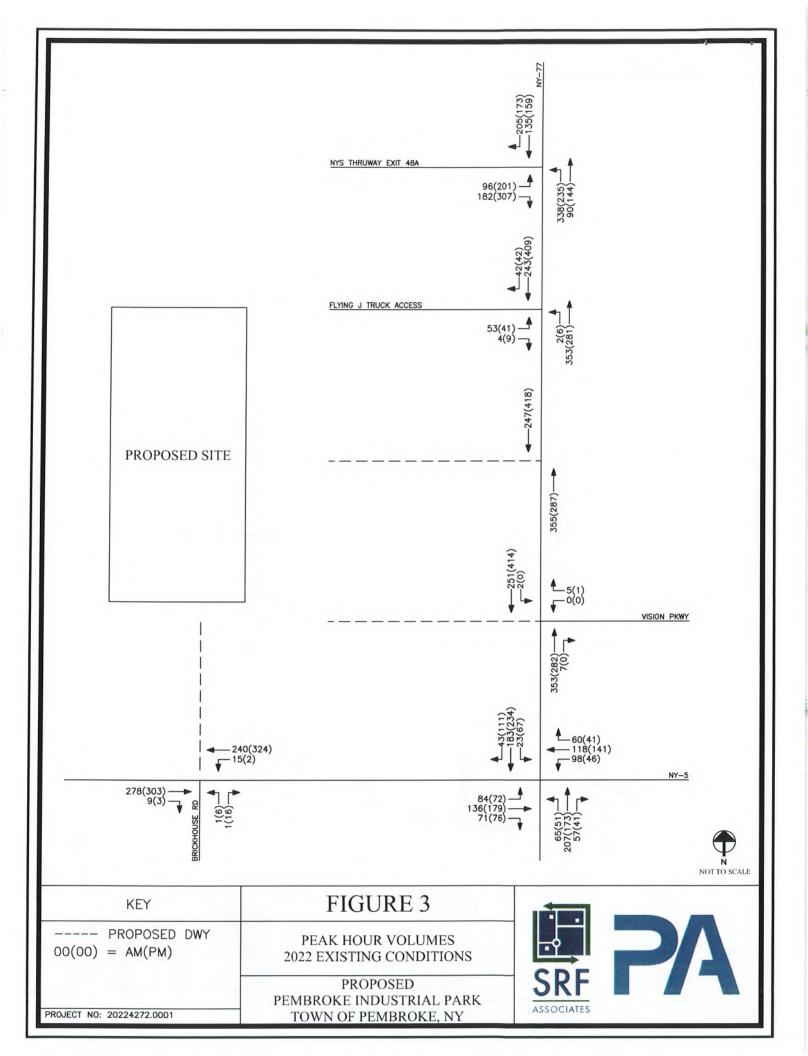
TOWN OF PEMBROKE, GENESEE COUNTY, NEW YORK

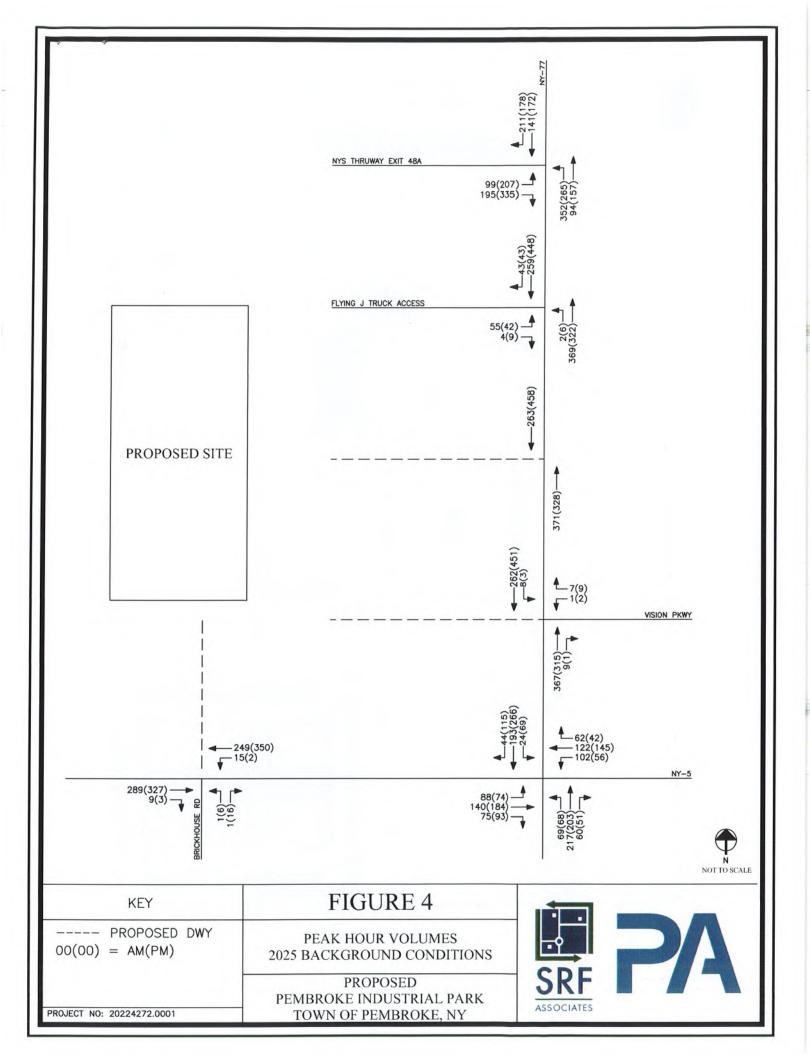


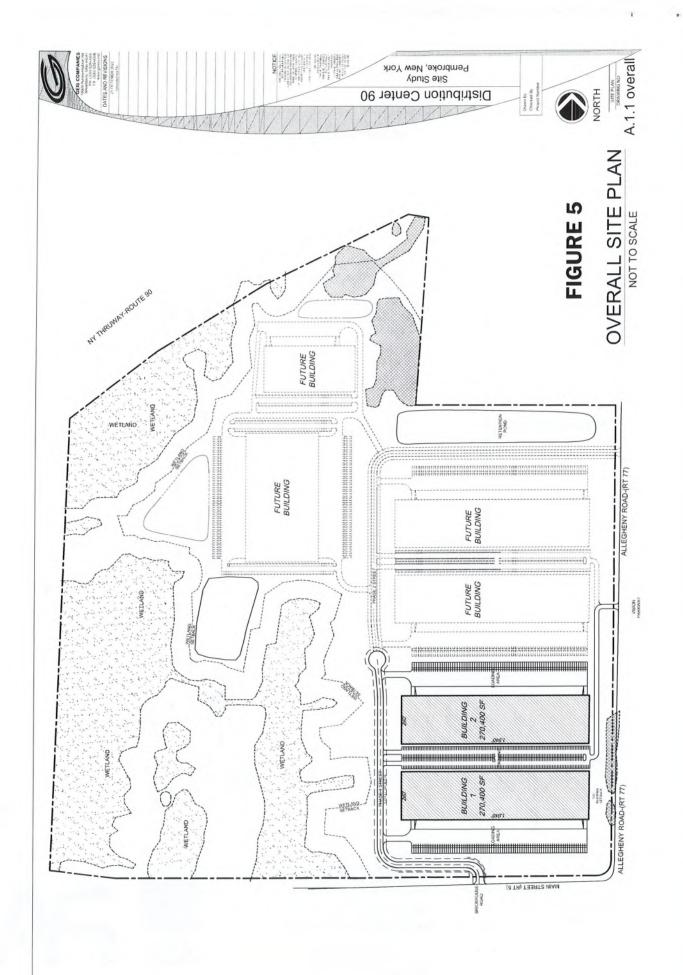


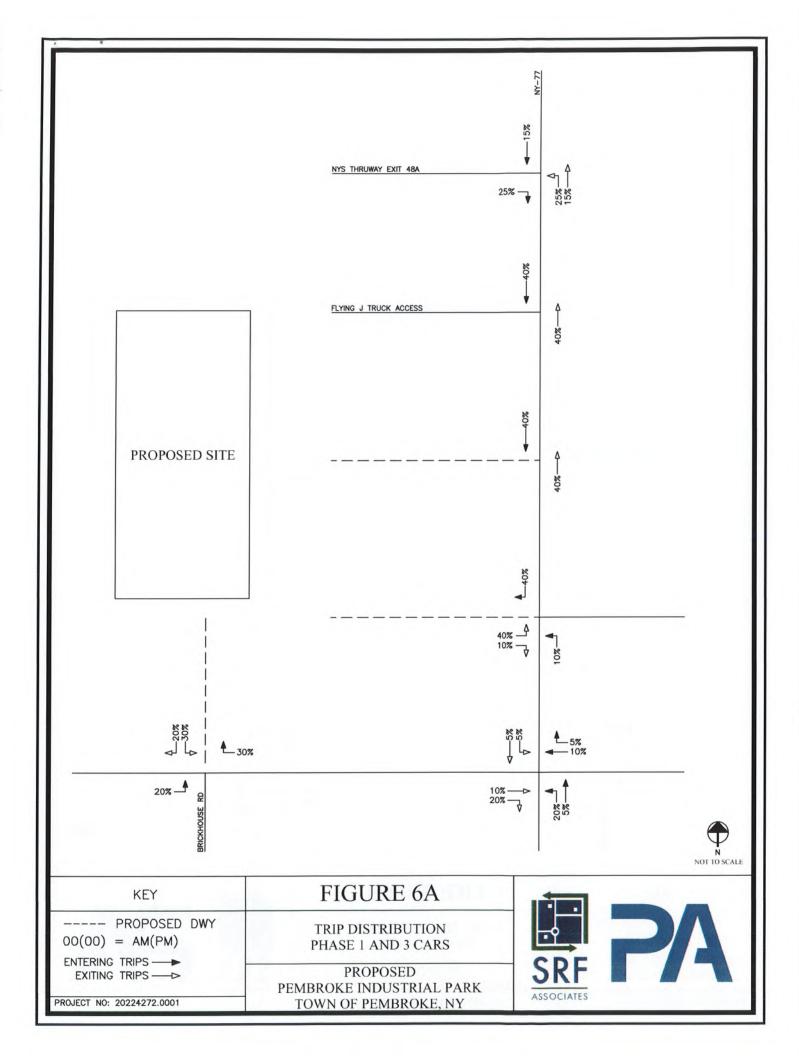
Project No: 42072

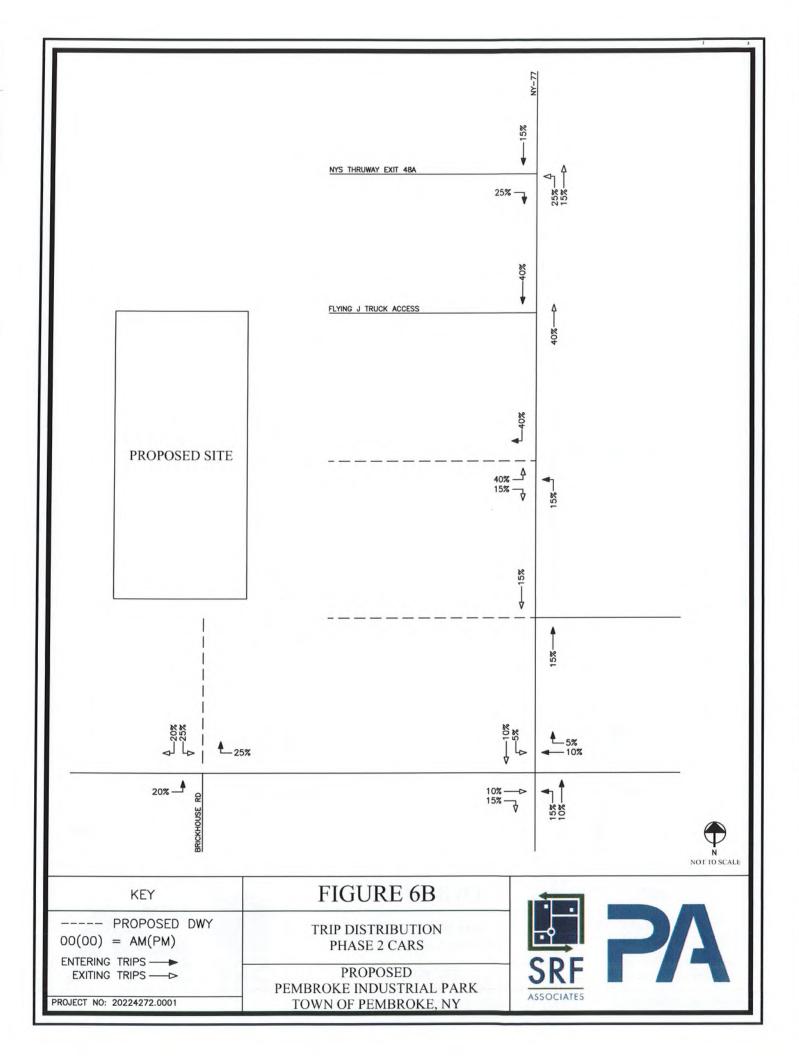


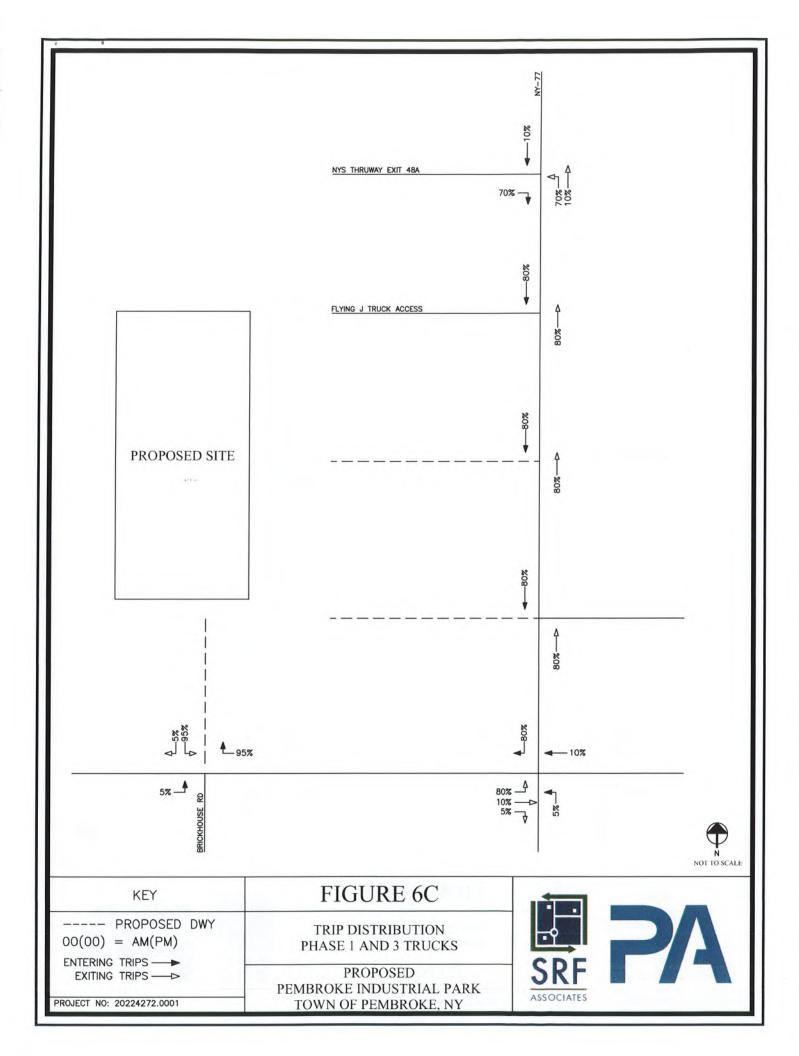


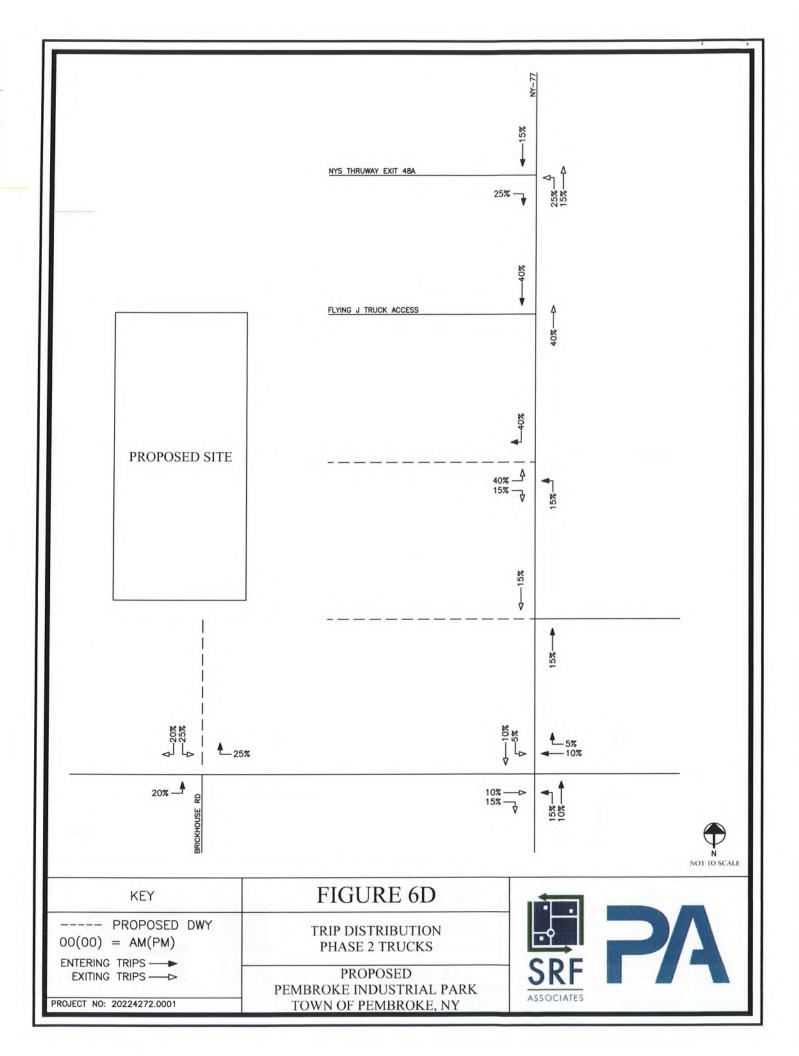


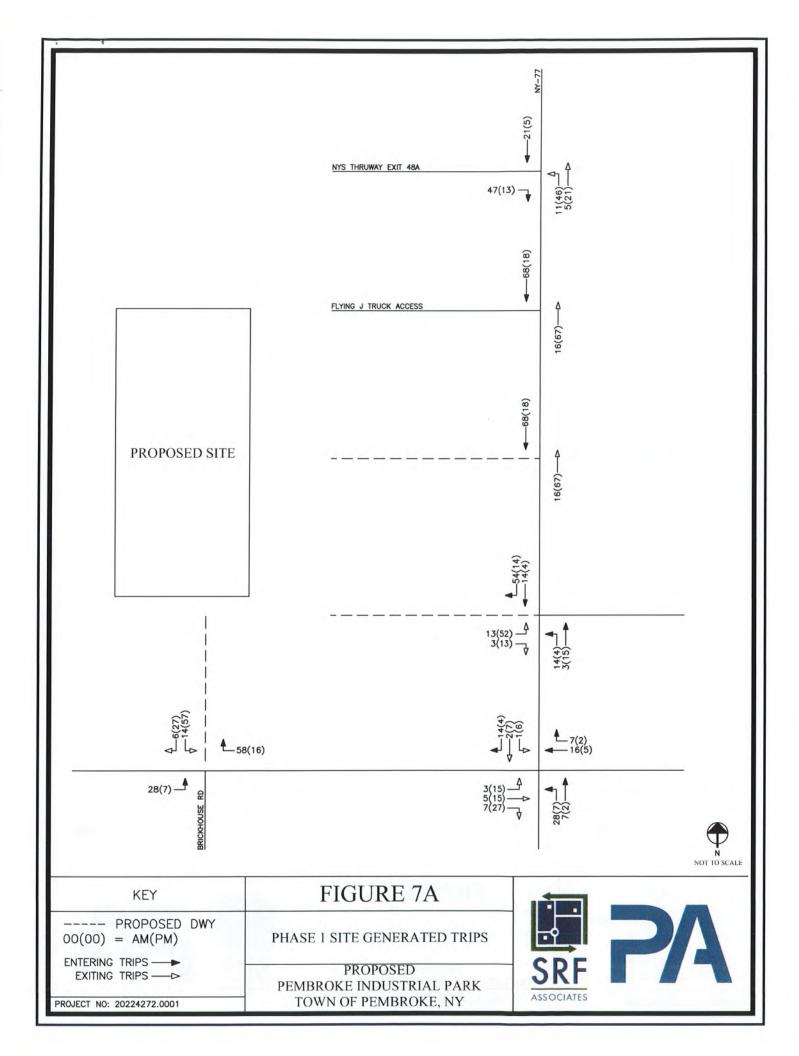


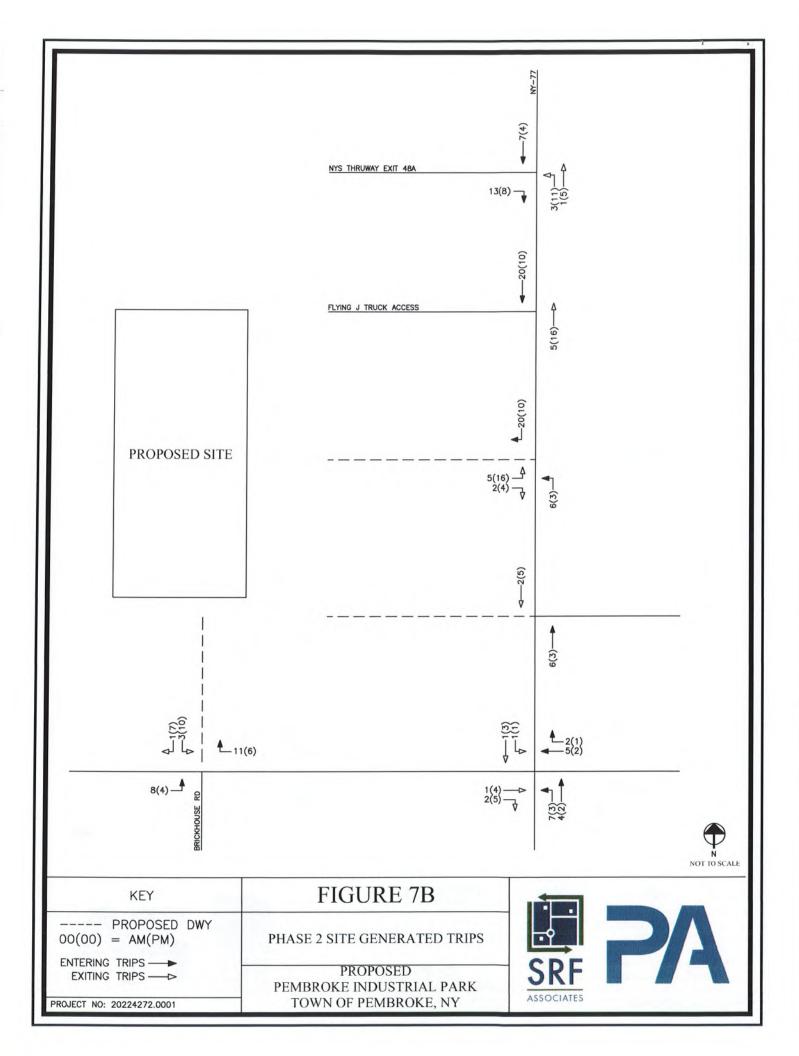


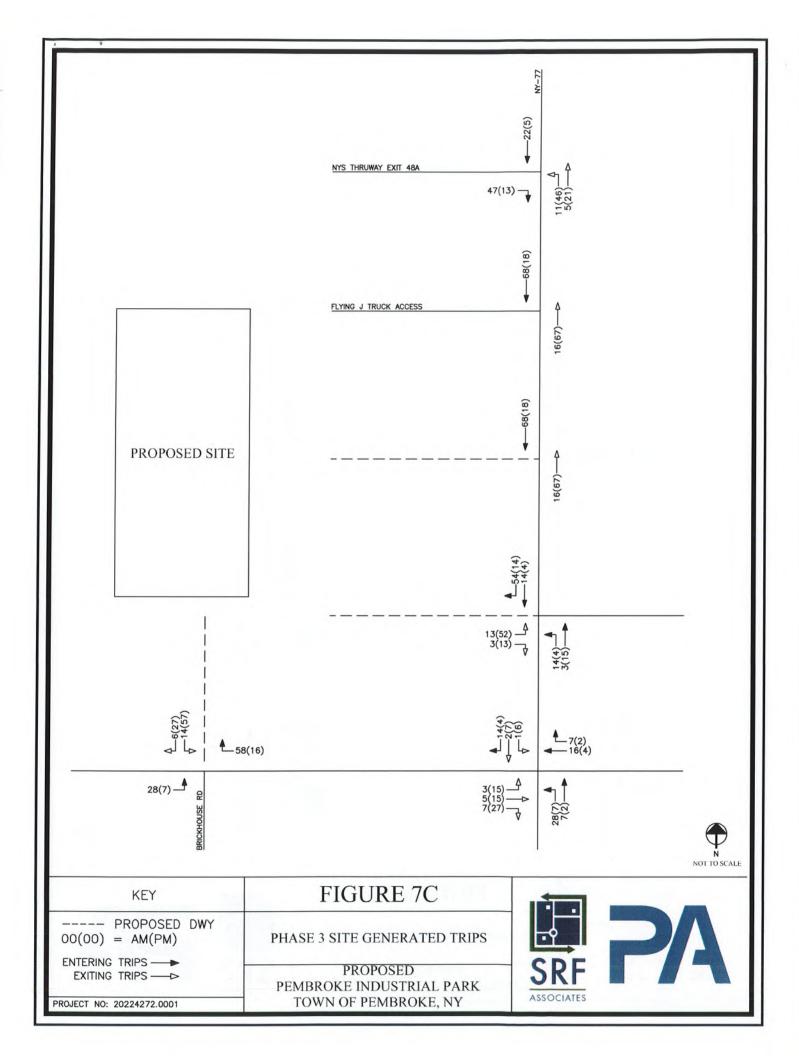


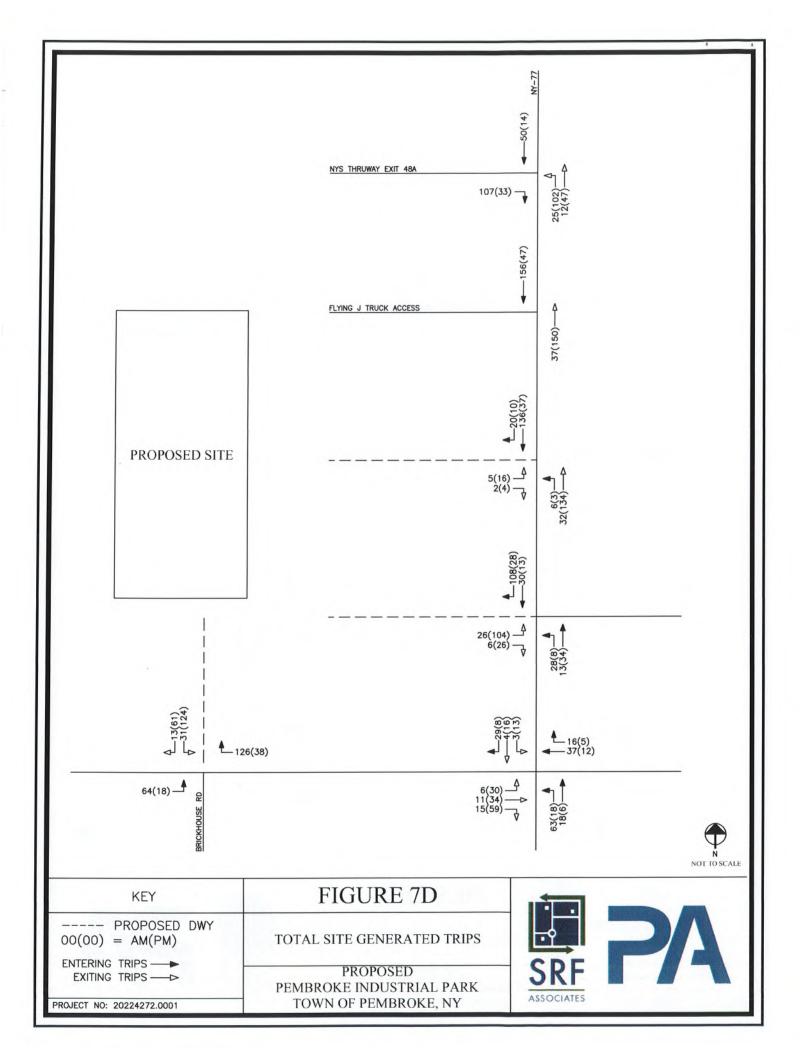


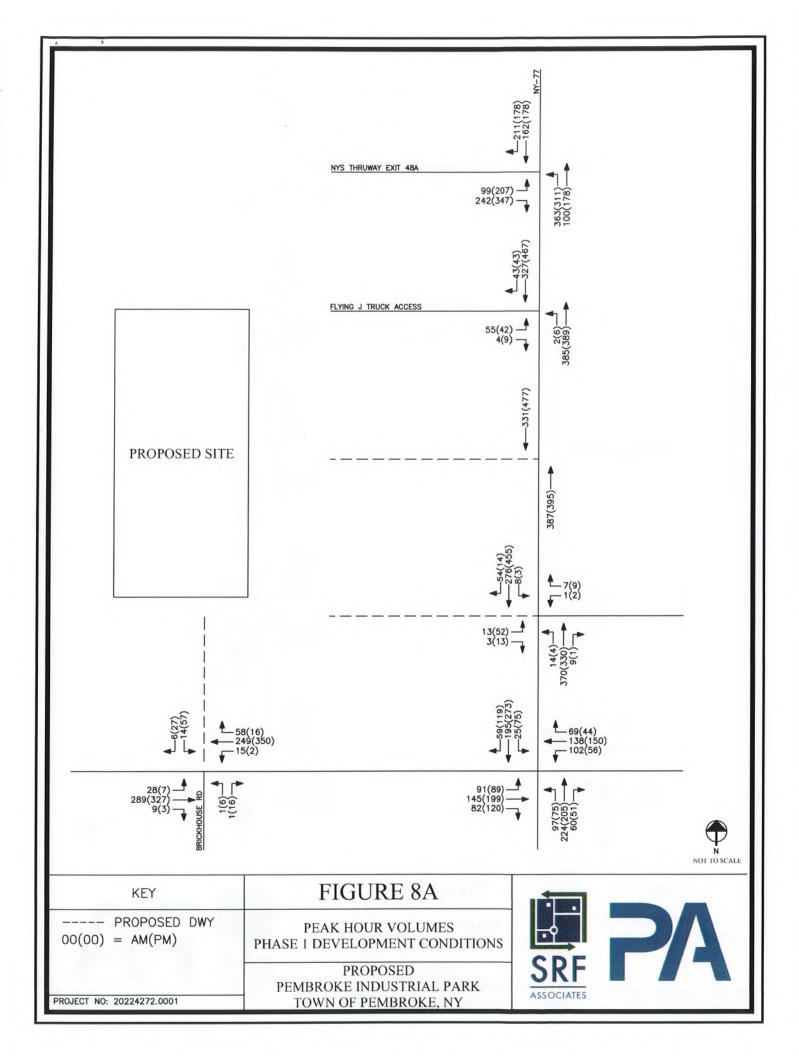


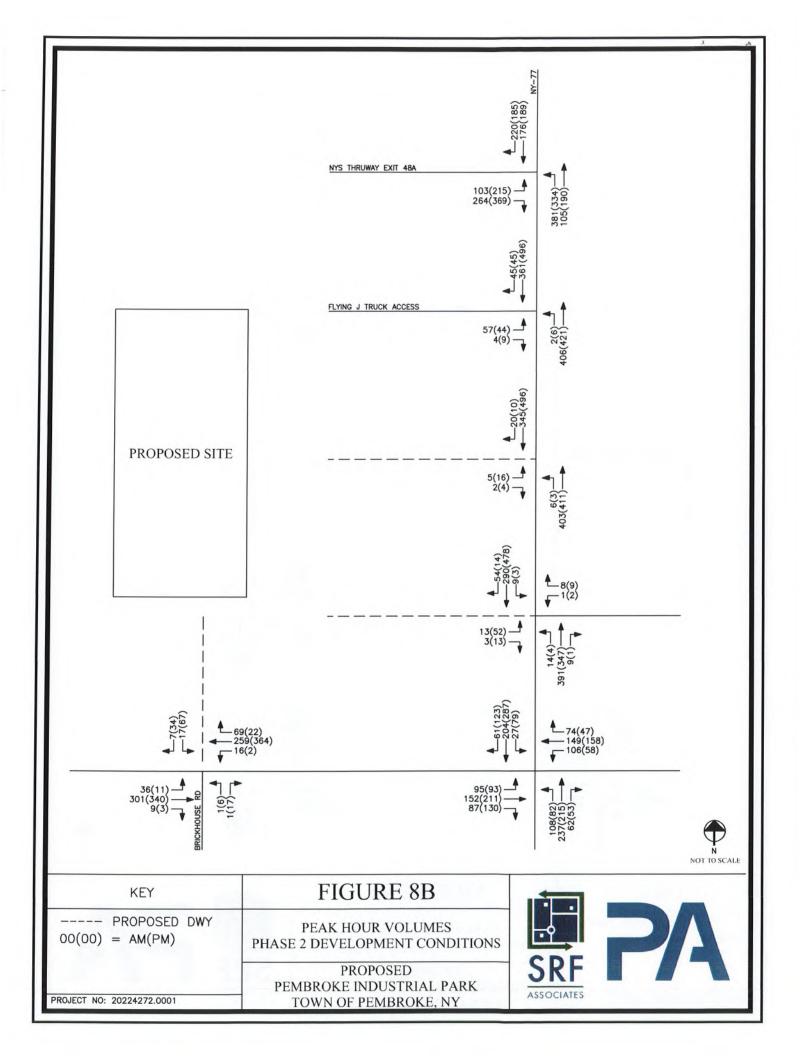


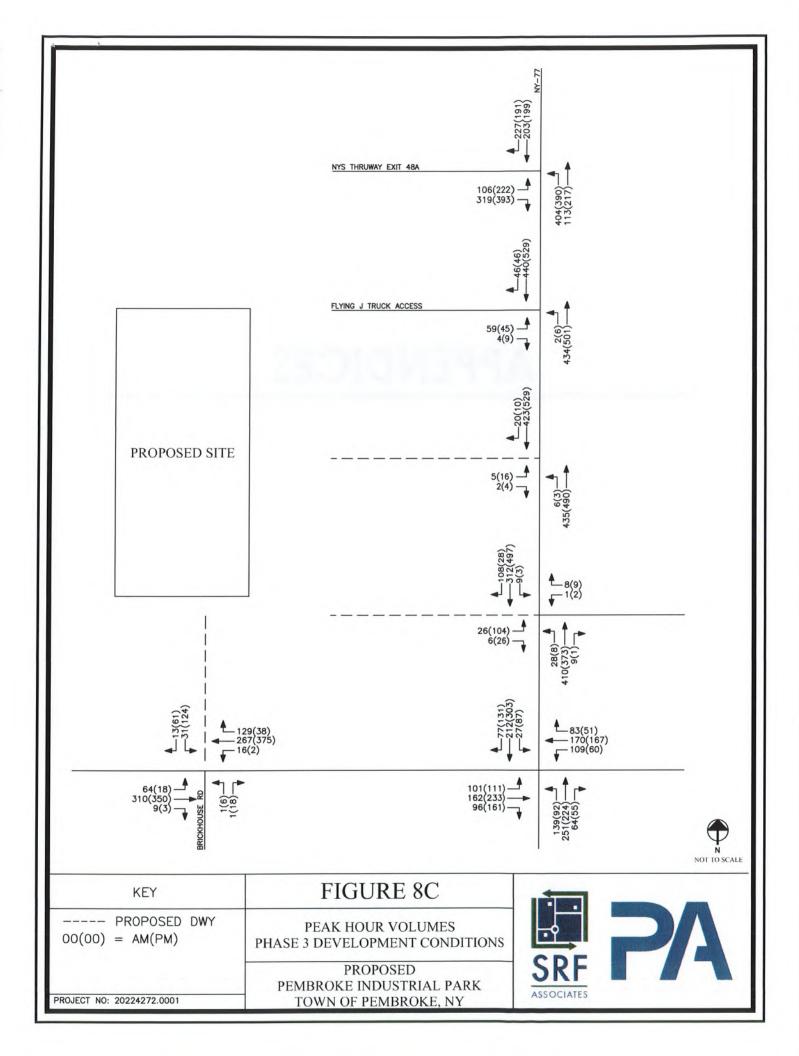












## **APPENDICES**

## A1

## **Collected Traffic Volume Data**



Tri-State Traffic Data: New York Division 184 Baker Rd

Coatesville , Pennsylvania, United States 19320 610-517-2338 bkarz@tstdata.com

Count Name: NY 5 / Brickhouse Dr Site Code: Start Date: 09/07/2022 Page No: 1

**Turning Movement Data** 

Start Time	Thru	1-6	NY 5 Westbound					Brickhouse Dr Northbound					NY 5 Eastbound			
6:00 AM		Left	U-Turn	Peds	App. Total	Right	Left	U-Turn	Peds	App. Total	Right	Thru	U-Turn	Peds	App. Total	Int. Total
6:15 AM	30	3	0	0	45	1	0	0	0	1	1	33	0	0	34	80
			0	0	31	1	0	0	0	1	0	36	0	0	36	68
6:30 AM	57	2	0	0	59	1	1	0	0	2	2	49	0	0	51	112
6:45 AM	45	1	0	0	46	1	0	0	0	1	1	55	0	0	56	103
Hourly Total	174	7	0	0	181	4	1	0	0	5	4	173	0	0	177	363
7:00 AM	50	5	0	0	55	0	0	0	0	0	3	75	0	0	78	133
7:15 AM	79	1	0	0	80	0	1	0	0	1	1	74	0	0	75	156
7:30 AM	57	4	0	0	61	0	0	0	0	0	3	77	0	U	80	141
7:45 AM	54	5	0	0	59	1	0	0	0	1	2	52	0	0	54	114
Hourly Total	240	15	0	0	255	1	1	0	0	2	9	278	0	0	287	544
8:00 AM	49	4	0	0	53	1	0	0	0	1	0	51	0	Ü	51	105
8:15 AM	40	4	0	0	44	1	1	0	0.	2	0	68	0	U	68	114
8:30 AM	51	1	0	0	52	0	1	0	0	1	2	68	0	0	70	123
8:45 AM	31	1	0	0	32	0	1	0	0	1	1	44	0	Ų	45	78
Hourly Total	171	10	0	0	181	2	3	0	0	5	3	231	0	0	234	420
*** BREAK ***	-	-		-	-	-	-	-		-		-	-		-	-
3:00 PM	72	2	0	0	74	3	1	0	0	4	1	68	0	0	69	147
3:15 PM	63	4	0	0	67	11	2	0	0	13	0	68	0	0	68	148
3:30 PM	75	2	0	0	77	13	3	0	0	16	0	60	0	0	60	153
3:45 PM	59	1	0	0	60	7	2	0	0	9	0	76	0	ij.	76	145
Hourly Total	269	9	0	0	278	34	8	0	-0	42	1	272	0	0	273	593
4:00 PM	91	0	0	0	91	3	0	0	0	3	0	62	0	U	62	156
4:15 PM	84	1	0	0	85	0	2	0	0	2	2	85	0	U	87	174
4:30 PM	79	0	0	0	79	11	5	0	0	16	1	79	0	Q	80	175
4:45 PM	70	1	0	0	71	2	2	0	0	4	0	77	0	0	77	152
Hourly Total	324	2	0	0	326	16	9	0	0	25	3	303	0	0	306	657
5:00 PM	75	0	0	0	75	5	1	0	0	6	1	66	0	0	67	148
5:15 PM	65	1	0	0	66	4	2	0	0	6	0	58	0	0	58	130
5:30 PM	62	0	1	0	63	2	1	0	0	3	0	63	0	0	63	129
5:45 PM	48	1	0	0	49	2	2	0	0	4	0	49	0	0	49	102
Hourly Total	250	2	1	0	253	13	6	0	0	19	1	236	0	0	237	509
6:00 PM	48	0	0	0	48	1	0	0	2	1	0	68	0	- 0	68	117
6:15 PM	36	0	0	0	36	0	1	0	0	1	0	49	0	0	49	86
6:30 PM	29	0	0	0	29	0	0	0	0	0	0	31	0	-0	31	60
6:45 PM	34	0	0	0	34	1	0	0	0	1	0	34	0	Ū.	34	69
Hourly Total	147	0	0	0	147	2	1	0	2	3	0	182	0	0	182	332

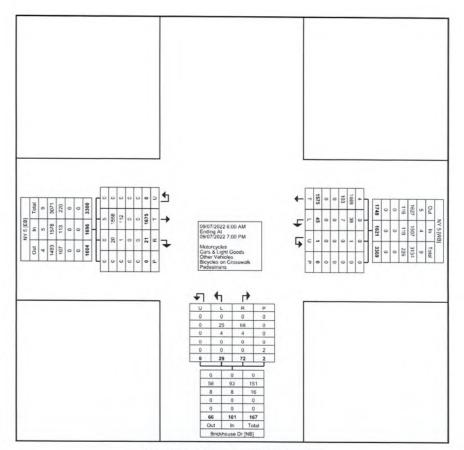
Grand Total	1575	45	1	0	1621	72	29	0	2	101	21	1675	0	U	1696	3418
Approach %	97.2	2.8	0.1	1,2	-	71.3	28.7	0.0	-	-	1.2	98.8	0.0		-	
Total %	46.1	1.3	0.0	-	47.4	2.1	0.8	0.0		3.0	0.6	49.0	0.0	-	49.6	
Motorcycles	4	0	0	-	4	0	0	0		0	0	5	0		5	9
% Motorcycles	0.3	0.0	0.0		0.2	0.0	0.0	-	-	0.0	0.0	0.3	-		0.3	0.3
Cars & Light Goods	1468	38	1		1507	68	25	0	-	93	20	1558	0		1578	3178
% Cars & Light Goods	93.2	84.4	100.0		93.0	94.4	86.2	-	4	92.1	95.2	93.0			93.0	93.0
Other Vehicles	103	7	0	-	110	4	4	0	-	8	1	112	0		113	231
% Other Vehicles	6.5	15.6	0.0	4	6.8	5.6	13.8		-	7.9	4.8	6.7			6.7	6.8
Bicycles on Crosswalk				0				-	Ü	-	-	-		U.	-	
% Bicycles on Crosswalk		-	-		-	-		0.0	0.0	-		- C-	-	*		
Pedestrians			-	0	-	-		-	2				-	0	-	
% Pedestrians		10.0	-	1.6		-	-		100.0		-	-		-		



Tri-State Traffic Data: New York Division 184 Baker Rd

Coatesville , Pennsylvania, United States 19320 610-517-2338 bkarz@tstdata.com

Count Name: NY 5 / Brickhouse Dr Site Code: Start Date: 09/07/2022 Page No: 3



Turning Movement Data Plot



Tri-State Traffic Data: New York Division 184 Baker Rd

Coatesville , Pennsylvania, United States 19320 610-517-2338 bkarz@tstdata.com

Count Name: NY 5 / Brickhouse Dr Site Code: Start Date: 09/07/2022 Page No: 4

Turning Movement Peak Hour Data (7:00 AM)

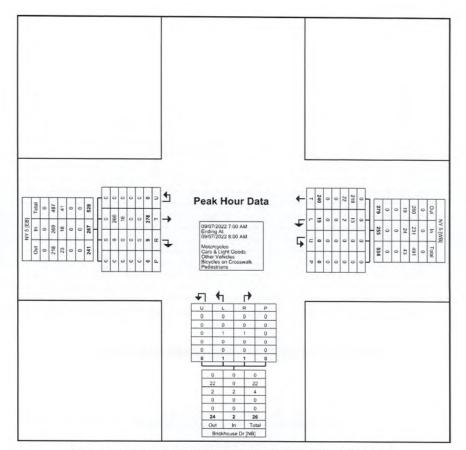
Start Time			NY 5 Westbound					Brickhouse Dr Northbound	,	,			NY 5 Eastbound			
Start Time	Thru	Left	U-Turn	Peds	App. Total	Right	Left	U-Turn	Peds	App. Total	Right	Thru	U-Turn	Peds	App. Total	Int. Total
7:00 AM	50	5	0	0	55	0	0	0	0	0	3	75	0	6	78	133
7:15 AM	79	1	0	0	80	0	1	0	0	1	1	74	0	. 0	75	156
7:30 AM	57	4	0	0	61	0	0	0	0	0	3	77	0	· · ·	80	141
7:45 AM	54	5	0	0	59	1	0	0	0	1	2	52	0	U	54	114
Total	240	15	0	0	255	1	1	0	0	2	9	278	0	0	287	544
Approach %	94.1	5.9	0.0	-	-	50.0	50.0	0.0		-	3.1	96.9	0.0			
Total %	44.1	2.8	0.0		46.9	0.2	0.2	0.0	-	0.4	1.7	51.1	0.0		52.8	
PHF	0.759	0.750	0.000	-	0.797	0.250	0.250	0.000		0.500	0.750	0.903	0.000	-	0.897	0.872
Motorcycles	0	0	0		0	0	0	0	-	0	0	0	0		0	0
% Motorcycles	0.0	0.0			0.0	0.0	0.0			0.0	0.0	0.0	-		0.0	0.0
Cars & Light Goods	218	13	0		231	0	0	0	-	0	9	260	0	_	269	500
% Cars & Light Goods	90.8	86.7		-	90.6	0.0	0.0			0.0	100.0	93.5	-	14	93.7	91.9
Other Vehicles	22	2	0	-	24	1	1	0	-	2	0	18	0		18	44
% Other Vehicles	9.2	13.3		-	9.4	100.0	100.0			100.0	0.0	6.5		-	6.3	8.1
Bicycles on Crosswalk	-	-	-	0		-	-		0		-			0		
% Bicycles on Crosswalk	-	-			-	-	-				-	-	-			
Pedestrians		-		0				-	0		-	-		0		
% Pedestrians	-			-	-	-	-	14.0	-	-	-		1.5			



Tri-State Traffic Data: New York Division 184 Baker Rd

Coatesville , Pennsylvania, United States 19320 610-517-2338 bkarz@tstdata.com

Count Name: NY 5 / Brickhouse Dr Site Code: Start Date: 09/07/2022 Page No: 5



Turning Movement Peak Hour Data Plot (7:00 AM)



Tri-State Traffic Data: New York Division 184 Baker Rd

Coatesville , Pennsylvania, United States 19320 610-517-2338 bkarz@tstdata.com

Count Name: NY 5 / Brickhouse Dr Site Code: Start Date: 09/07/2022 Page No: 6

Turning Movement Peak Hour Data (4:00 PM)

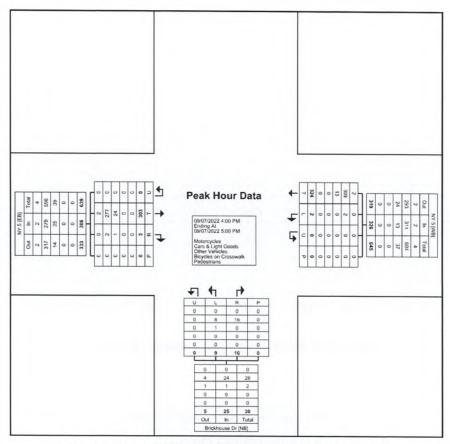
						, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		ait i ioui	Data ( 1	.00 1 111)						
			NY 5					Brickhouse Dr					NY 5			
Start Time			Westbound					Northbound					Eastbound			
Otal Timo	Thru	Left	U-Turn	Peds	App. Total	Right	Left	U-Turn	Peds	App. Total	Right	Thru	U-Turn	Peds	App. Total	Int. Total
4:00 PM	91	0	0	0	91	3	0	0	Ú	3	0	62	0	0	62	156
4:15 PM	84	1	0	0	85	0	2	0	0	2	2	85	0	Ü	87	174
4:30 PM	79	0	0	0	79	11	5	0	0	16	1	79	0	Ö	80	175
4:45 PM	70	1	0	0	71	2	2	0	0	4	0	77	0	U	77	152
Total	324	2	0	0	326	16	9	0	D	25	3	303	0	U	306	657
Approach %	99.4	0.6	0.0	-	-	64.0	36.0	0.0	-	-	1.0	99.0	0.0			
Total %	49.3	0.3	0.0	-	49.6	2.4	1.4	0.0		3.8	0.5	46.1	0.0		46.6	-
PHF	0.890	0.500	0.000		0.896	0.364	0.450	0.000		0.391	0.375	0.891	0.000	4	0.879	0.939
Motorcycles	2	0	0	-	2	0	0	0		0	0	2	0		2	4
% Motorcycles	0.6	0.0		-	0.6	0.0	0.0			0.0	0.0	0.7	-		0.7	0.6
Cars & Light Goods	309	2	0	*	311	16	8	0		24	2	277	0	16.	279	614
% Cars & Light Goods	95.4	100.0	-	-	95.4	100.0	88.9	-		96.0	66.7	91.4	-		91,2	93.5
Other Vehicles	13	0	0		13	0	1	0		1	1	24	0		25	39
% Other Vehicles	4.0	0.0		-	4.0	0.0	11.1			4.0	33.3	7.9			8.2	5.9
Bicycles on Crosswalk	-	-	-	0	-	-	-	-	0	-		-		- 0		-
% Bicycles on Crosswalk	-	-	-			-	-			-		-				
Pedestrians	-	-		0					0	-		-		0		
% Pedestrians	-	-								-			-			



Tri-State Traffic Data: New York Division 184 Baker Rd

Coatesville , Pennsylvania, United States 19320 610-517-2338 bkarz@tstdata.com

Count Name: NY 5 / Brickhouse Dr Site Code: Start Date: 09/07/2022 Page No: 7



Turning Movement Peak Hour Data Plot (4:00 PM)



Tri-State Traffic Data: New York Division 184 Baker Rd

Coatesville , Pennsylvania, United States 19320 610-517-2338 bkarz@tstdata.com

Count Name: NY-77 (Alleghany Road/NYS Thruway Exit 48A Site Code: Start Date: 09/07/2022 Page No: 1

Turning Movement Data

Start Time				Y-77 nbound				(Alleghar		IYS Thruwa			lent	Julu		Y-77 hbound				(Alleghar		YS Thruway	y Exit 48A		
Start Time	Right	Thru	Left	U-Turn	Peds	App. Total	Right	Thru	Left	U-Turn	Peds	App. Total	Right	Thru	Left	U-Turn	Peds	App. Total	Right	Thru	Left	U-Turn	Peds	App. Total	Int. Total
6:00 AM	15	25	0	0	. 0	40	0	0	0	0	0	0	0	16	55	0	Ú	71	15	0	17	1	U	33	144
6:15 AM	38	19	0	0	0	57	0	0	0	0	0	0	0	20	67	0	0	87	33	0	12	0	0	45	189
6:30 AM	35	21	0	0	U	56	0	0	1	0	0	1	0	21	67	0	0	88	32	0	16	0	0	48	193
6:45 AM	32	21	0	0	Ü	53	0	0	0	0	0	0	0	26	78	0	0	104	52	0	20	1	10	73	230
Hourly Total	120	86	0	0	0	206	0	0	1	0	0	1	0	83	267	0	0	350	132	0	65	2	0	199	756
7:00 AM	44	35	0	0	0	79	0	0	0	0	0	0	0	20	83	1	0	104	48	0	20	0	0	68	251
7:15 AM	48	43	0	0	Ü	91	0	0	0	0	0	0	0	24	80	0	0	104	46	0	19	1	U	66	261
7:30 AM	62	30	0	0	0	92	0	0	0	0	0	0	0	30	95	0	0	125	46	0	21	0	0	67	284
7:45 AM	48	27	0	0	Ü	75	0	0	0	0	0	0	0	16	80	0	0	96	42	0	36	0	-0	78	249
Hourly Total	202	135	0	0	0	337	0	0	0	0	0	0	0	90	338	1	0	429	182	0	96	1	0	279	1045
8:00 AM	42	25	0	0	0	67	0	0	0	0	0	0	0	29	61	0	0	90	32	0	16	1	0	49	206
8:15 AM	37	31	0	0	0	68	0	0	0	0	0	0	0	15	68	0	0	83	38	0	23	0	.0	61	212
8:30 AM	46	16	0	0	0	62	0	0	0	0	0	0	0	22	74	0	0	96	32	0	29	0	0.	61	219
8:45 AM	39	19	0	0	U	58	0	0	0	0	0	0	0	23	54	0	0	77	27	0	25	0	0	52	187
Hourly Total	164	91	0	0	0	255	0	0	0	0	0	0	0	89	257	0	0	346	129	0	93	1	0	223	824
9:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	U	0	0	0	0	0	Ö	0	0
*** BREAK ***		-	-		-	-	-		-	-	_	-	-	-	-		-						-		1
Hourly Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3:00 PM	27	31	0	0	0	58	0	0	0	0	0	0	0	36	65	0	0	101	52	0	34	0	0	86	245
3:15 PM	37	39	0	0	0	76	0	0	0	0	0	0	0	37	63	0	0	100	74	0	39	0	0	113	289
3:30 PM	53	37	0	0	0	90	0	0	0	0	0	0	0	33	55	0	0	88	67	0	34	0	Ü	101	279
3:45 PM	45	34	0	0	0	79	0	0	0	0	0	0	0	45	69	0	Ü	114	69	0	46	0	0	115	308
Hourly Total	162	141	0	0	0	303	0	0	0	0	0	0	0	151	252	0	0	403	262	0	153	0	0	415	1121
4:00 PM	38	35	0	0	0	73	0	0	0	0	0	0	0	32	62	0	0	94	82	0	56	1	0	139	306
4:15 PM	45	46	0	0	U	91	0	0	0	0	0	0	0	30	50	0	0	80	79	0	52	1	0	132	303
4:30 PM	45	44	0	0	0	89	0	0	0	0	0	0	0	37	54	0	0	91	77	0	47	0	0	124	304
4:45 PM	32	38	0	0	0	70	0	0	0	0	0	0	0	40	59	0	- 0	99	74	0	50	0	- 1	124	293
Hourly Total	160	163	0	0	0	323	0	0	0	0	0	0	0	139	225	0	0	364	312	0	205	2	1	519	1206
5:00 PM	41	29	0	0	Ð	70	0	0	0	0	2	0	0	39	59	0	0	98	81	0	51	0	0	132	300
5:15 PM	46	32	0	0	0	78	0	0	0	0	1	0	0	43	32	0	0	75	54	0	56	0	D	110	263
5:30 PM	39	51	0	0	0	90	0	0	0	0	0	0	0	27	60	0	0	87	90	0	46	0	0-	136	313
5:45 PM	26	44	0	0	0	70	0	0	0	0	.0	0	0	35	40	0	- 0	75	78	0	37	0	0	115	260
Hourly Total	152	156	0	0	0	308	0	0	0	0	3	0	0	144	191	0	0	335	303	0	190	0	- 0	493	1136
6:00 PM	29	28	0	0	0	57	0	0	0	0	0	0	0	27	56	0	0	83	67	0	32	1	n	100	240
6:15 PM	23	30	0	0	0	53	0	0	0	0	0	0	0	41	42	0	0	83	52	0	29	0	0	81	217

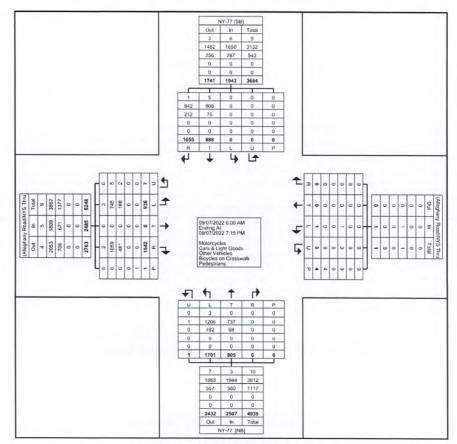
6:30 PM	28	33	0	0	0	61	0	0	0	0	1	0	0	26	30	0	0	56	55	0	37	0	77	92	200
6:45 PM	15	25	0	0	0	40	0	0	0	0	0	0	0	15	43	0	0	58	48	0	36	0	0		209
Hourly Total	95	116	0	0	0	211	0	0	0	0	1	0	0	109	171	0	0	280	222	0	134	- 1	0	84	182
7:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	- 0	357	848
Grand Total	1055	888	0	0	0	1943	0	0	1	0	4	1	0	805	1701	1	0	2507	1542	0		- 0	- 0	0	0
Approach %	54.3	45.7	0.0	0.0	-		0.0	0.0	100.0	0.0	_		0.0	32.1	67.9	0.0	- 0	2307			936			2485	6936
Total %	15.2	12.8	0.0	0.0		28.0	0.0	0.0	0.0	0.0		0.0	0.0	11.6	24.5			00.4	62.1	0.0	37.7	0.3	-	-	
Motorcycles	1	5	0	0		6	0.0	0.0	0.0	0.0		0.0		11.0	24.5	0.0	_	36.1	22.2	0.0	13.5	0.1	-	35.8	-
% Motorcycles	0.1	0.6	-			0.3				0		0	0	0	3	0	-	3	2	0	3	0	-	5	14
Cars & Light Goods	842	808	0	0			-	-	0.0		-	0.0	-	0.0	0.2	0.0	-	0.1	0.1		0.3	0.0	m	0.2	0.2
	042	000	U	U	-	1650	0	0	0	0	Ψ.	0	0	737	1206	1	-	1944	1059	0	745	5	-	1809	5403
% Cars & Light Goods	79.8	91.0	-			84.9	-	-	0.0		-	0.0		91.6	70.9	100.0	-	77.5	68.7	-	79.6	71,4		72.8	77.9
Other Vehicles	212	75	0	0	H	287	0	0	1	0		1	0	68	492	0		560	481	0	188	2		671	1519
% Other Vehicles	20.1	8.4			- *	14.8			100.0		-	100.0	-	8.4	28.9	0.0	-	22.3	31.2	-	20.1	28.6		27.0	21.9
Bicycles on Crosswalk	-	-	-		Ð		-	-			0			-	- 4	-	0	-	-		-	20.0	0	-	21.9
% Bicycles on Crosswalk	-	-			÷		-				0.0				-		-						0.0		
Pedestrians		-	-	-	0						4	-	-	-	-		0			-	-	-	-1		
% Pedestrians											100.0								-						-



Tri-State Traffic Data: New York Division 184 Baker Rd

Coatesville , Pennsylvania, United States 19320 610-517-2338 bkarz@tstdata.com

Count Name: NY-77 (Alleghany Road/NYS Thruway Exit 48A Site Code: Start Date: 09/07/2022 Page No: 3



Turning Movement Data Plot



Tri-State Traffic Data: New York Division 184 Baker Rd

Coatesville , Pennsylvania, United States 19320 610-517-2338 bkarz@tstdata.com

Count Name: NY-77 (Alleghany Road/NYS Thruway Exit 48A Site Code: Start Date: 09/07/2022 Page No: 4

Turning Movement Peak Hour Data (7:00 AM)

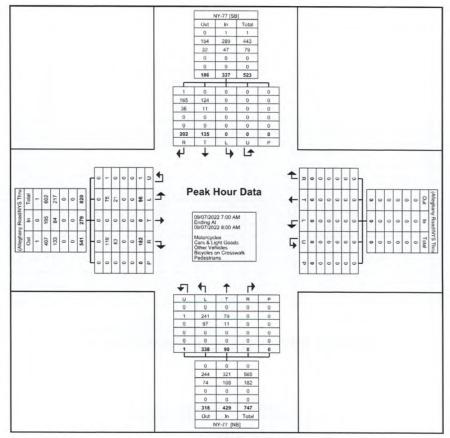
Start Time				7-77 nbound					ny Road/N	YS Thruway				Dala	N,	Y-77 nbound				(Alleghar		YS Thruway bound	Exit 48A		
	Right	Thru	Left	U-Turn	Peds	App. Total	Right	Thru	Left	U-Turn	Peds	App. Total	Right	Thru	Left	U-Turn	Peds	App. Total	Right	Thru	Left	U-Turn	Peds	App. Total	Int. Total
7:00 AM	44	35	0	0	0	79	0	0	0	0	- 0	0	0	20	83	1	0	104	48	0	20	0	.0	68	251
7:15 AM	48	43	0	0	U	91	0	0	0	0	0	0	0	24	80	0	0	104	46	0	19	1	.0	66	261
7:30 AM	62	30	0	0	0	92	0	0	0	0	0	0	0	30	95	0	0	125	46	0	21	0	0	67	284
7:45 AM	48	27	0	0	()	75	0	0	0	0	0	0	0	16	80	0	0	96	42	0	36	0	.0	78	249
Total	202	135	0	0	0	337	0	0	0	0	0	0	0	90	338	1	0	429	182	0	96	1	/3	279	1045
Approach %	59.9	40.1	0.0	0.0	The .		0.0	0.0	0.0	0.0	-	-	0.0	21.0	78.8	0.2	_	- :	65.2	0.0	34.4	0.4	-	-	1043
Total %	19.3	12.9	0.0	0.0		32.2	0.0	0.0	0.0	0.0	-	0.0	0.0	8.6	32.3	0.1	-	41.1	17.4	0.0	9.2	0.1		26.7	-
PHF	0.815	0.785	0.000	0.000		0.916	0.000	0.000	0.000	0.000	-	0.000	0.000	0.750	0.889	0.250	-	0.858	0.948	0.000	0.667	0.250		0.894	0.920
Motorcycles	1	0	0	0	-	1	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0		0.034	1
% Motorcycles	0.5	0.0	-			0.3	-			-		-	-	0.0	0.0	0.0	-	0.0	0.0	-	0.0	0.0		0.0	0.1
Cars & Light Goods	165	124	0	0	-	289	0	0	0	0	-	0	0	79	241	1	-	321	119	0	75	1		195	805
% Cars & Light Goods	81.7	91.9		-		85.8	-	-			14.	-		87.8	71.3	100.0	-	74.8	65.4	-	78.1	100.0		69.9	77.0
Other Vehicles	36	11	0	0		47	0	0	0	0	-	0	0	11	97	0	-	108	63	0	21	n		84	239
% Other Vehicles	17.8	8.1	-	-	-	13.9		-			-	-		12.2	28.7	0.0	_	25.2	34.6		21.9	0.0		30.1	22.9
Bicycles on Crosswalk		-		-	0	-	-			-	0	-	-		-	-	0		-		-	-	0	-	-
% Bicycles on Crosswalk					-	-	-	21				-					-	-	-				-	- 20	-
Pedestrians	-	-	-	-	0	-	-	-	-		0		-	-	-	-	. 0		-				0		
% Pedestrians	-	-	-		-	-	-	-				-								-	-				+



Tri-State Traffic Data: New York Division 184 Baker Rd

Coatesville , Pennsylvania, United States 19320 610-517-2338 bkarz@tstdata.com

Count Name: NY-77 (Alleghany Road/NYS Thruway Exit 48A Site Code: Start Date: 09/07/2022 Page No: 5



Turning Movement Peak Hour Data Plot (7:00 AM)



Tri-State Traffic Data: New York Division 184 Baker Rd

Coatesville , Pennsylvania, United States 19320 610-517-2338 bkarz@tstdata.com

Count Name: NY-77 (Alleghany Road/NYS Thruway Exit 48A Site Code: Start Date: 09/07/2022 Page No: 6

Turning Movement Peak Hour Data (3:45 PM)

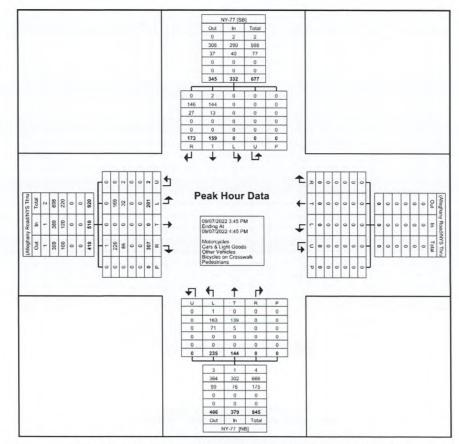
Start Time				7-77 abound					ny Road/N	YS Thruwa bound				Data	, N	Y-77 nbound				(Alleghan		YS Thruway	Exit 48A		
	Right	Thru	Left	U-Turn	Peds	App. Total	Right	Thru	Left	U-Turn	Peds	App. Total	Right	Thru	Left	U-Turn	Peds	App. Total	Right	Thru	Left	U-Turn	Peds	App. Total	Int. Total
3:45 PM	45	34	0	0	0	79	0	0	0	0	0	0	0	45	69	0	0	114	69	0	46	0	0	115	308
4:00 PM	38	35	0	0	0	73	0	0	0	0	0	0	0	32	62	0	0	94	82	0	56	1	0	139	306
4:15 PM	45	46	0	0	0	91	0	0	0	0	0	0	0	30	50	0	0	80	79	0	52	1	0	132	303
4:30 PM	45	44	0	0	0	89	0	0	0	0	0	0	0	37	54	0	0	91	77	0	47	0	0	124	304
Total	173	159	0	0	0	332	0	0	0	0	0	0	0	144	235	0	0	379	307	0	201	2	0	510	1221
Approach %	52.1	47.9	0.0	0.0		-	0.0	0.0	0.0	0.0	-	-	0.0	38.0	62.0	0.0	-		60.2	0.0	39.4	0.4		-	1221
Total %	14.2	13.0	0.0	0.0		27.2	0.0	0.0	0.0	0.0	-	0.0	0.0	11.8	19.2	0.0	-	31.0	25.1	0.0	16.5	0.2		41.8	_
PHF	0.961	0.864	0.000	0.000	-	0.912	0.000	0.000	0.000	0.000	4	0.000	0.000	0.800	0.851	0.000		0.831	0.936	0.000	0.897	0.500		0.917	0.991
Motorcycles	0	2	0	0	-	2	0	0	0	0	18.	0	0	0	1	0	-	1	1	0	0	0		1	4
% Motorcycles	0.0	1.3		-	- 2	0.6	-	-	-	1-1			-	0.0	0.4		-	0.3	0.3	-	0.0	0.0		0.2	0.3
Cars & Light Goods	146	144	0	0	-	290	0	0	0	0	-	0	0	139	163	0	-	302	220	0	169	0		389	981
% Cars & Light Goods	84.4	90.6			-	87.3	-					-1		96.5	69.4		_	79.7	71.7		84.1	0.0	1	76.3	80.3
Other Vehicles	27	13	0	0	-	40	0	0	0	0	-	0	0	5	71	0	-	76	86	0	32	2	-	120	236
% Other Vehicles	15.6	8.2	-	-	4	12.0	-	-	-					3.5	30.2		-	20.1	28.0	-	15.9	100.0		23.5	19.3
Bicycles on Crosswalk	-			-	0		-				1)	-		2			0			-	-	-	d	-	-
% Bicycles on Crosswalk	-	-	-	-	-	-	-			-					-		-			-				-	
Pedestrians		-	-		0		-	-	-	-	0	-	-	- 4			0		-				n		1 .
% Pedestrians				-	-			-	-			- 2			-										



Tri-State Traffic Data: New York Division 184 Baker Rd

Coatesville , Pennsylvania, United States 19320 610-517-2338 bkarz@tstdata.com

Count Name: NY-77 (Alleghany Road/NYS Thruway Exit 48A Site Code: Start Date: 09/07/2022 Page No: 7



Turning Movement Peak Hour Data Plot (3:45 PM)



Tri-State Traffic Data: New York Division 184 Baker Rd

Coatesville , Pennsylvania, United States 19320 610-517-2338 bkarz@tstdata.com

Count Name: NY-77/Flying J Truck Access Site Code: Start Date: 09/07/2022 Page No: 1

**Turning Movement Data** 

Start Time				Y-77 nbound						ruck Access						Y-77 nbound						ruck Access			
Start Time	Right	Thru	Left	U-Turn	Peds	App. Total	Right	Thru	Left	U-Turn	Peds	App. Total	Right	Thru	Left	U-Turn	Peds	App. Total	Right	Thru	Left	U-Turn	Peds	App. Total	Int. Total
6:00 AM	1	32	0	0	0	33	0	0	0	0	0	0	0	55	2	0	U	57	0	0	7	0	Ū	7	97
6:15 AM	5	37	0	0	0	42	0	0	0	0	()	0	0	67	1	0	0	68	1	0	11	0	0	12	122
6:30 AM	4	41	0	0	0	45	0	0	0	0	U	0	0	69	0	0	0	69	1	0	10	0	0	11	125
6:45 AM	14	55	0	0	0	69	0	0	0	0	0	0	0	81	0	0	0	81	1	0	10	0	1)	11	161
Hourly Total	24	165	0	0	0	189	0	0	0	0	0	0	0	272	3	0	0	275	3	0	38	0	0	41	505
7:00 AM	9	65	0	0	0	74	0	0	0	0	0	0	0	79	0	0	0	79	0	0	21	0	0	21	174
7:15 AM	12	68	0	0	0	80	0	0	0	0	U	0	0	85	2	0	0	87	2	0	12	0	(1)	14	181
7:30 AM	7	55	0	0	0	62	0	0	0	0	0	0	0	108	0	0	0	108	1	0	10	0	-11	11	181
7:45 AM	8	62	0	0	0	70	0	0	0	0	0	0	0	63	0	0	Ü	63	2	0	16	0	-0	18	151
Hourly Total	36	250	0	0	0	286	0	0	0	0	0	0	0	335	2	0	0	337	5	0	59	0	0	64	687
8:00 AM	7	42	0	0	0	49	0	0	0	0	0	0	0	83	1	0	Ð	84	1	0	5	0	-0	6	139
8:15 AM	12	49	0	0	.0	61	0	0	0	0	0	0	0	69	0	0	0	69	0	0	15	0	0	15	145
8:30 AM	6	44	0	0	0	50	0	0	0	0	0	0	0	70	0	0	0	70	1	0	8	0	0	9	129
8:45 AM	9	33	0	0	0	42	0	0	0	0	0	0	0	63	3	0	Ü	66	0	0	7	0	0	7	115
Hourly Total	34	168	0	0	0	202	0	0	0	0	0	0	0	285	4	0	0	289	2	0	35	0	0	37	528
9:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
*** BREAK ***	-	-	-		-					-	-			1	-	-	*				-		-	-	-
Hourly Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3:00 PM	11	71	0	0	0	82	0	0	0	0	0	0	0	79	2	0	Ü	81	0	0	19	0	Ü	19	182
3:15 PM	20	90	0	0	0	110	0	0	0	0	0	0	0	79	0	0	ò	79	0	0	13	0	0	13	202
3:30 PM	13	84	0	0	1	97	0	0	0	0	0	0	0	72	1	0	0	73	1	0	11	0	1	12	182
3:45 PM	19	74	0	0	0	93	0	0	0	0	0	0	0	85	1	0	Ó	86	3	0	18	0	0	21	200
Hourly Total	63	319	0	0	1	382	0	0	0	0	0	0	0	315	4	0	0	319	4	0	61	0	1	65	766
4:00 PM	11	100	0	0	1	111	0	0	0	0	0	0	0	67	1	0	0	68	2	0	10	0	-0	12	191
4:15 PM	8	101	0	0	1	109	0	0	0	0	0	0	0	62	2	0	0	64	1	0	9	0	0	10	183
4:30 PM	10	105	0	0	0	115	0	0	0	0	0	0	0	73	1	0	0	74	1	0	12	0	0	13	202
4:45 PM	13	103	0	0	1	116	0	0	0	0	0	0	0	79	2	0	0	81	5	0	10	0	- 0	15	212
Hourly Total	42	409	0	0	3	451	0	0	0	0	0	0	0	281	6	0	0	287	9	0	41	0	0	50	788
5:00 PM	17	90	0	0	0	107	0	0	0	0	0	0	0	66	0	0	U	66	0	0	7	0	0	7	180
5:15 PM	11	70	0	0	0	81	0	0	0	0	0	0	0	60	1	0	0	61	0	0	10	0	0	10	152
5:30 PM	19	112	0	0	0	131	0	0	0	0	0	0	0	59	1	0	0	60	0	0	15	0	0	15	206
5:45 PM	13	97	0	0	0	110	0	0	0	0	0	0	0	58	0	0	0	58	1	0	13	0	0	14	182
Hourly Total	60	369	0	0	0	429	0	0	0	0	0	0	0	243	2	0	0	245	1	0	45	0	0	46	720
6:00 PM	13	76	0	0	0	89	0	0	0	0	0	0	0	72	0	0	0	72	1	0	10	0	0	11	172
6:15 PM	8	68	0	0	Ü	76	0	0	0	0	0	0	0	60	0	0	0	60	0	0	16	0	71	16	152

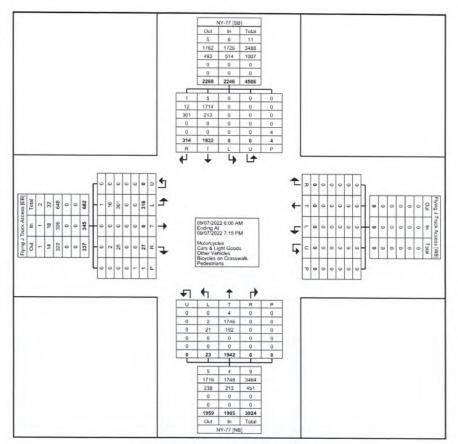
6:30 PM	17	59	0	0	0'	76	0	0	0	0	0	0	0	41	1	0	0	42	1	0	3	0	O.	4	122
6:45 PM	16	49	0	0	0	65	0	0	0	0	0	0	0	38	1	0	0	39	1	0	10	0	0	11	115
Hourly Total	54	252	0	0	0	306	0	0	0	0	0	0	0	211	2	0	0	213	3	0	39	0	0	42	561
7:00 PM	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Grand Total	314	1932	0	0	4	2246	0	0	0	0	0	0	0	1942	23	0	Ð	1965	27	0	318	0	1	345	4556
Approach %	14.0	86.0	0.0	0.0	14		0.0	0.0	0.0	0.0	-	-	0.0	98.8	1.2	0.0	-		7.8	0.0	92.2	0.0			-
Total %	6.9	42.4	0.0	0.0	-	49.3	0.0	0.0	0.0	0.0	-	0.0	0.0	42.6	0.5	0.0	14	43.1	0.6	0.0	7.0	0.0	-	7.6	-
Motorcycles	1	5	0	0	-	6	0	0	0	0	7	0	0	4	0	0	-	4	0	0	1	0	-	1	11
% Motorcycles	0.3	0.3		-		0.3	-	-	-	-	-		-	0.2	0.0		4	0.2	0.0	-	0.3	-	-	0.3	0.2
Cars & Light Goods	12	1714	0	0	-	1726	0	0	0	0	-	0	0	1746	2	0	9	1748	2	0	16	0	-	18	3492
% Cars & Light Goods	3.8	88.7	-			76.8	-	-	-		-	-	-	89.9	8.7			89.0	7.4	-	5.0		-	5.2	76.6
Other Vehicles	301	213	0	0	-	514	0	0	0	0	-	0	0	192	21	0	-	213	25	0	301	0	-	326	1053
% Other Vehicles	95.9	11.0			-	22.9	-	-	-	-	-	-		9.9	91.3	0-0	-	10.8	92.6	-	94.7	-		94.5	23.1
Bicycles on Crosswalk				+	Ü.	-	-		-0		0	-	-		-		0		-	-	-	-	u	-	
% Bicycles on Crosswalk		-	-	-	0.0	-	-	-		-	-	7.	-	-			-	1.0		-	-		0.0		-
Pedestrians				-	4		-	-	-	-	0	-		-	-	-	- 0	-	-	-	-		1		
% Pedestrians				-	100.0					-	-	-	-	-	-		-		-				100 U		



Tri-State Traffic Data: New York Division 184 Baker Rd

Coatesville , Pennsylvania, United States 19320 610-517-2338 bkarz@tstdata.com

Count Name: NY-77/Flying J Truck Access Site Code: Start Date: 09/07/2022 Page No: 3



Turning Movement Data Plot



Tri-State Traffic Data: New York Division 184 Baker Rd

Coatesville , Pennsylvania, United States 19320 610-517-2338 bkarz@tstdata.com

Count Name: NY-77/Flying J Truck Access Site Code: Start Date: 09/07/2022 Page No: 4

Turning Movement Peak Hour Data (6:45 AM)

				r-77					Flying J Ti	ruck Access		oun		Duta	NY	-77					Flying J Tr	uck Access			1
Start Time			South	bound					West	bound					North	bound					East	bound			
Start Time	Right	Thru	Left	U-Turn	Peds	App. Total	Right	Thru	Left	U-Tum	Peds	App. Total	Right	Thru	Left	U-Turn	Peds	App. Total	Right	Thru	Left	U-Turn	Peds	App. Total	Int. Total
6:45 AM	14	55	0	0	0	69	0	0	0	0	0	0	0	81	0	0	0	81	1	0	10	0	O	11	161
7:00 AM	9	65	0	0	0	74	0	0	0	0		0	0	79	0	0	U	79	0	0	21	0	0	21	174
7:15 AM	12	68	0	0	0	80	0	0	0	0	0	0	0	85	2	0	0	87	2	0	12	0	0	14	181
7:30 AM	7	55	0	0	Ü	62	0	0	0	0	0	0	0	108	0	0	()	108	1	0	10	0	W	11	181
Total	42	243	0	0	0	285	0	0	0	0	0	0	0	353	2	0	0	355	4	0	53	0	0	57	697
Approach %	14.7	85.3	0.0	0.0			0.0	0.0	0.0	0.0	-		0.0	99.4	0.6	0.0			7.0	0.0	93.0	0.0		-	-
Total %	6.0	34.9	0.0	0.0	-	40.9	0.0	0.0	0.0	0.0	-	0.0	0.0	50.6	0.3	0.0	-	50.9	0.6	0.0	7.6	0.0		8.2	
PHF	0.750	0.893	0.000	0.000	_	0.891	0.000	0.000	0.000	0.000	-	0.000	0.000	0.817	0.250	0.000	4	0.822	0.500	0.000	0.631	0.000	-	0.679	0.963
Motorcycles	0	1	0	0	-	1	0	0	0	0	4	0	0	0	0	0	-	0	0	0	0	0		0	1
% Motorcycles	0.0	0.4		-		0.4		-	-		-		-	0.0	0.0	-		0.0	0.0		0.0			0.0	0.1
Cars & Light Goods	2	208	0	0	-	210	0	0	0	0	-	0	0	310	0	0	-	310	0	0	1	0	-	1	521
% Cars & Light Goods	4.8	85.6		-	-	73.7	-					-		87.8	0.0	-		87.3	0.0		1.9	-		1.8	74.7
Other Vehicles	40	34	0	0	-	74	0	0	0	0		0	0	43	2	0	-	45	4	0	52	0	-	56	175
% Other Vehicles	95.2	14.0	-	-	-	26.0			-	-	-			12.2	100.0		-	12.7	100.0		98.1		-	98.2	25.1
Bicycles on Crosswalk		-	-	-	D.	-	-	-		-	0			-		-	0	-	1-			-	()		-
% Bicycles on Crosswalk				-		-	-	-	-		- 1	-		-		-	-		-	-	-	-	-	-	
Pedestrians	-	-	-	-	0	-	-	-	-		0	-	-	-	-		0	-	-	-	-	-	0	-	
% Pedestrians	-		-	-	-	-		-	-		-			-	-					-					-

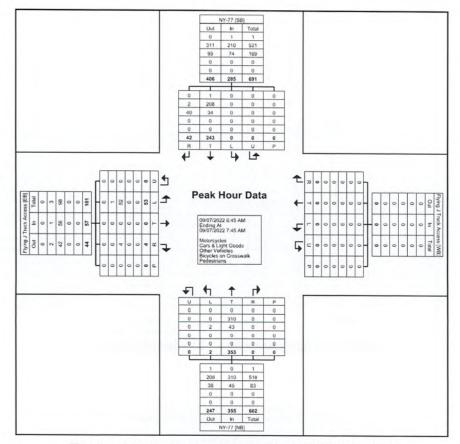


Tri-State Traffic Data: New York Division 184 Baker Rd

Coatesville , Pennsylvania, United States 19320 610-517-2338 bkarz@tstdata.com

Count Name: NY-77/Flying J Truck Access

Site Code: Start Date: 09/07/2022 Page No: 5



Turning Movement Peak Hour Data Plot (6:45 AM)



Tri-State Traffic Data: New York Division 184 Baker Rd

Coatesville , Pennsylvania, United States 19320 610-517-2338 bkarz@tstdata.com

Count Name: NY-77/Flying J Truck Access Site Code: Start Date: 09/07/2022 Page No: 6

Turning Movement Peak Hour Data (4:00 PM)

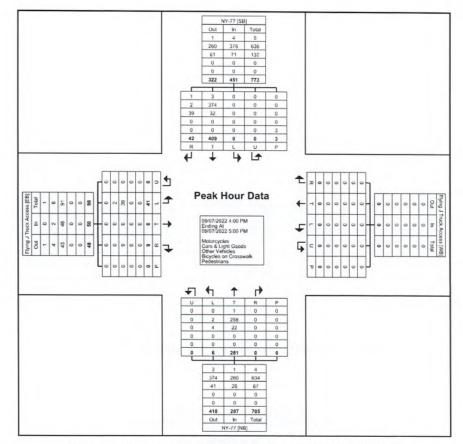
1			N	·-77			1		_	ruck Access		00		Data	,	(-77			1		Ebien I.T.				1
Start Time				bound						tbound						bound						ruck Access bound	,		
Start Time	Right	Thru	Left	U-Turn	Peds	App. Total	Right	Thru	Left	U-Turn	Peds	App. Total	Right	Thru	Left	U-Turn	Peds	App. Total	Right	Thru	Left	U-Turn	Peds	App. Total	Int. Total
4:00 PM	11	100	0	0	1	111	0	0	0	0	0	0	0	67	1	0	0	68	2	0	10	0	0	12	191
4:15 PM	8	101	0	0	1	109	0	0	0	0	0	0	0	62	2	0	0	64	1	0	9	0	0	10	183
4:30 PM	10	105	0	0	Q.	115	0	0	0	0	0	0	0	73	1	0	0	74	1	0	12	0	15	13	202
4:45 PM	13	103	0	0	1	116	0	0	0	0	0	0	0	79	2	0	D	81	5	0	10	0	.09	15	212
Total	42	409	0	0	3	451	0	0	0	0	0	0	0	281	6	0	0	287	9	0	41	0	0	50	788
Approach %	9.3	90.7	0.0	0.0	-		0.0	0.0	0.0	0.0		-	0.0	97.9	2.1	0.0			18.0	0.0	82.0	0.0	-	-	700
Total %	5.3	51.9	0.0	0.0	-	57.2	0.0	0.0	0.0	0.0		0.0	0.0	35.7	0.8	0.0		36.4	1.1	0.0	5.2	0.0		6.3	-
PHF	0.808	0.974	0.000	0.000		0.972	0.000	0.000	0.000	0.000	-	0.000	0.000	0.889	0.750	0.000		0.886	0.450	0.000	0.854	0.000		0.833	0.929
Motorcycles	1	3	0	0	4	4	0	0	0	0	-	0	0	1	0	0	-	1	0	0	0.001	0	-	0.000	5
% Motorcycles	2.4	0.7	-	-	-	0.9					Te.	-		0.4	0.0		_	0.3	0.0	-	0.0	-		0.0	0.6
Cars & Light Goods	2	374	0	0		376	0	0	0	0		0	0	258	2	0	-	260	0	0	2	0		2	638
% Cars & Light Goods	4.8	91.4		- 0.2	-	83.4		-				-		91.8	33.3	-	-	90.6	0.0	-	4.9	-		4.0	81.0
Other Vehicles	39	32	0	0	14	71	0	0	0	0	-	0	0	22	4	0		26	9	0	39	0	-	48	145
% Other Vehicles	92.9	7.8	-			15.7	-	-		-	-	-	-	7.8	66.7	-	-	9.1	100.0		95.1	-		96.0	18.4
Bicycles on Crosswalk	-	-		-	0					-	0	-	-		-	-	0	-	-				0	-	-
% Bicycles on Crosswalk		-		-	0.0		-	-			-				1/211	-	_	-	-	-				-	
Pedestrians	-	-	-	-	3	-		-	-	-	0	-		-	-		0		-	-	-	-	.0		
% Pedestrians	-		-		100.0			-	-							-				-					-



Tri-State Traffic Data: New York Division 184 Baker Rd

Coatesville , Pennsylvania, United States 19320 610-517-2338 bkarz@tstdata.com

Count Name: NY-77/Flying J Truck Access Site Code: Start Date: 09/07/2022 Page No: 7



Turning Movement Peak Hour Data Plot (4:00 PM)



Tri-State Traffic Data: New York Division 184 Baker Rd

Coatesville , Pennsylvania, United States 19320 610-517-2338 bkarz@tstdata.com

Count Name: NY-77/NY-5 Site Code: Start Date: 09/07/2022 Page No: 1

**Turning Movement Data** 

			s	NY-77 outhbou						٧	NY-5 Vestbour		0			Date		NY-77 Northbou						I	NY-5 Eastbour	nd			
Start Time	Right	Right on Red	Thru	Left	U-Turn	Peds	App. Total	Right	Right on Red	Thru	Left	U-Turn	Peds	App. Total	Right	Right on Red	Thru	Left	U-Turn	Peds	App. Total	Right	Right on Red	Thru	Left	U-Turn	Peds	App. Total	Int. Total
6:00 AM	4	0	28	3	0	0	35	6	3	26	4	0	0	39	6	0	27	11	0	0	44	4	4	15	17	0	-0	40	158
6:15 AM	7	1	25	2	0	0	35	9	7	10	7	0		33	3	3	40	12	0	0	58	5	2	12	16	0	0	35	161
6:30 AM	8	2	25	4	0	0	39	9	10	29	8	0	0	56	6	1	37	14	0	0	58	2	2	24	17	0	U	45	198
6:45 AM	9	0	39	2	0	0	50	13	9	17	16	0	U	55	6	2	41	17	0	U	66	9	3	29	14	0	(7)	55	226
Hourly Total	28	3	117	11	0	0	159	37	29	82	35	0	0	183	21	6	145	54	0	0	226	20	11	80	64	0	0	175	743
7:00 AM	9	4	42	7	0	0	62	12	2	28	27	0	0	69	6	3	41	10	0	0	60	16	5	33	24	0	0	78	269
7:15 AM	5	3	61	11	0	0	80	11	5	46	45	0	0	107	26	6	58	21	0	0	111	18	9	30	21	0	0	78	376
7:30 AM	11	2	41	3	0	0	57	5	3	27	10	0	0	45	7	1	67	17	0	0	92	10	1	44	25	0	6	80	274
7:45 AM	10	2	35	12	0	0	59	8	1	28	8	0	0	45	9	2	40	8	0	0	59	6	2	29	18	0	0	55	218
Hourly Total	35	11	179	33	0	. 0	258	36	11	129	90	0	0	266	48	12	206	56	0	0	322	50	17	136	88	0	0	291	1137
8:00 AM	11	1	27	9	0	()	48	12	6	21	13	0	0	52	8	1	50	13	0	0	72	4	3	18	17	0	-0	42	214
8:15 AM	7	7	23	11	0	U	48	7	3	21	9	0	0	40	19	2	32	8	0	-0	61	10	5	32	24	0	-0	71	220
8:30 AM	14	0	28	6	0	.0	48	6	5	22	9	0	0	42	15	2	40	14	0	0	71	6	6	35	17	0	0	64	225
8:45 AM	4	2	21	5	0	0	32	7	1	13	14	0	0	35	4	3	32	11	0	0	50	3	3	15	22	0	-0	43	160
Hourly Total	36	10	99	31	0	0	176	32	15	77	45	0	0	169	46	8	154	46	0	0	254	23	17	100	80	0	0	220	819
9:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	- 0	0	0
*** BREAK ***		-	-	-	-	-		-	-		/-		-		-					-		-		-	-	-		-	-
Hourly Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	- 0	0	0
3:00 PM	13	5	39	11	0	0	68	8	2	34	8	0	0	52	24	2	46	15	0	0	87	10	4	33	17	0	:0	64	271
3:15 PM	15	1	51	12	0	0	79	5	2	37	7	0	0	51	3	3	41	10	0	0.	57	15	4	33	28	0	0	80	267
3:30 PM	19	2	59	11	0		91	9	3	40	11	0	0	63	5	0	40	11	0	0	56	11	8	36	18	0	-0	73	283
3:45 PM	9	3	45	11	0	0	68	8	0	34	7	0	0	49	4	0	51	13	0	0	68	18	8	39	17	0	U	82	267
Hourly Total	56	11	194	45	0	0	306	30	7	145	33	0	- 0	215	36	5	178	49	0	0 -	268	54	24	141	80	0	0	299	1088
4:00 PM	26	4	55	20	0	0	105	13	1	43	8	0	0	65	2	1	42	13	0	0	58	14	3	33	12	0	0	62	290
4:15 PM	22	7	56	18	0	0	103	8	5	44	9	0	0	66	7	1	33	12	0	0	53	8	7	47	17	0	U	79	301
4:30 PM	21	4	61	18	0	0	104	1	5	33	9	0	0	48	11	1	50	17	0	0	79	14	6	52	21	0	0	93	324
4:45 PM	17	8	72	18	0	0	115	10	4	31	12	0	0	57	10	0	40	10	0	0	60	13	12	37	20	0	0	82	314
Hourly Total	86	23	244	74	0	. 0	427	32	15	151	38	0	0	236	30	3	165	52	0	0	250	49	28	169	70	0	0	316	1229
5:00 PM	24	8	45	13	0	0	90	5	3	33	16	0	0	57	10	1	50	12	0	0	73	12	4	43	14	0	0	73	293
5:15 PM	7	8	36	13	0	0	64	4	2	36	12	0	0	54	8	1	40	12	0	0	61	10	5	33	13	0	0	61	240
5:30 PM	18	3	59	28	0	0	108	11	3	33	14	0	0	61	8	4	36	10	0	0	58	15	2	35	11	0	D	63	290
5:45 PM	18	4	69	11	0	0	102	6	1	17	18	0	0	42	13	1	35	10	0	0	59	7	8	21	18	0	0	54	257
Hourly Total	67	23	209	65	0	0	364	26	9	119	60	0	0	214	39	7	161	44	0	0	251	44	19	132	56	0	0	251	1080
6:00 PM	20	1	50	13	0	0	84	7	5	19	9	0	0	40	9	2	46	11	0	- 0	68	10	3	38	14	0	0	65	257
6:15 PM	13	2	45	8	0	0	68	2	1	14	10	0	0	27	3	4	37	6	0	- 0	50	3	3	31	15	0	0	52	197

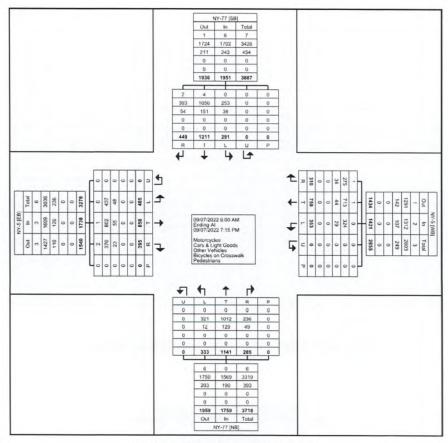
6:30 PM	6	4	38	5	0	0	53	8	2	11	12	0	0	33	3	0	23	6	0	0	32	0	2	45	-	_		-	
6:45 PM	13	1	36	6	0	0	56	4	2	11	21	0	0	38	2	1	26	0	0	0		9	2	15	8	0	0	34	152
Hourly Total	52	8	169	32	0	0	261	21	10	55	52	0	0	138	17	7	132	32	0	0	38 188	0	3	16	10	0	Q	35	167
7:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	28	0	100	47	0	0	186	773
Grand Total	360	89	1211	291	0	0	1951	214	96	758	353	0	0	1421	237	48	1141	333	0	0	1759	268		0	0	0	0	0	0
Approach %	18.5	4.6	62.1	14.9	0.0	-		15.1	6.8	53.3	24.8	0.0			13.5	2.7	64.9	18.9	0.0	- 0	1759	15.4	7.3	858	485	0	- 0	1738	6869
Total %	5.2	1.3	17.6	4.2	0.0	-	28.4	3.1	1.4	11.0	5.1	0.0	-	20.7	3.5	0.7	16.6	4.8	0.0		25.6	3.9	1.8	49.4 12.5	27.9	0.0	-	-	-
Motorcycles	2	0	4	0	0		6	1	0	1	0	0	-	2	0.0	0.,	0	0	0.0		20.0	3.8	0.1	12.5	7.1	0.0	-	25.3	-
% Motorcycles	0.6	0.0	0.3	0.0		-	0.3	0.5	0.0	0.1	0.0	-	-	0.1	0.0	0.0	0.0	0.0	-	_	0.0	0.7	0.0	0.4	0	0	-	3	11
Cars & Light Goods	314	79	1056	253	0	-	1702	186	89	713	324	0	2	1312	191	45	1012	321	0		1569	249	121	802	0.0 437	0		1609	6192
% Cars & Light Goods	87.2	88.8	87.2	86.9	-	-	87.2	86.9	92.7	94.1	91.8	-	4	92.3	80.6	93.8	88.7	96.4	-		89.2	92.9	95.3	93.5	90.1		-	92.6	90.1
Other Vehicles	44	10	151	38	0	-	243	27	7	44	29	0	-	107	46	3	129	12	0		190	17	6	55	48	0		126	666
% Other Vehicles	12.2	11.2	12.5	13.1	-	-	12.5	12.6	7.3	5.8	8.2	-	-	7.5	19.4	6.3	11.3	3.6	-		10.8	6.3	4.7	6.4	9.9	-	-	7.2	9.7
Bicycles on Crosswalk				-		0		-	-	-			0	-						0		-	-		-		0	-	
% Bicycles on Crosswalk	12	-	-	-	-	-	-	-		-	-	-		-	-		-		-	-	-	-	-				-		
Pedestrians	-	-	-	_	-	0	-	-	-	-	-	-	0	-		-	-	-		0		-	-				n	-	
% Pedestrians	-	-		-	-	-	-	-		-						-	-		-	-			-			-	- W	-	-



Tri-State Traffic Data: New York Division 184 Baker Rd

Coatesville , Pennsylvania, United States 19320 610-517-2338 bkarz@tstdata.com

Count Name: NY-77/NY-5 Site Code: Start Date: 09/07/2022 Page No: 3



Turning Movement Data Plot



Tri-State Traffic Data: New York Division 184 Baker Rd

Coatesville , Pennsylvania, United States 19320 610-517-2338 bkarz@tstdata.com

Count Name: NY-77/NY-5 Site Code: Start Date: 09/07/2022 Page No: 4

Turning Movement Peak Hour Data (6:45 AM)

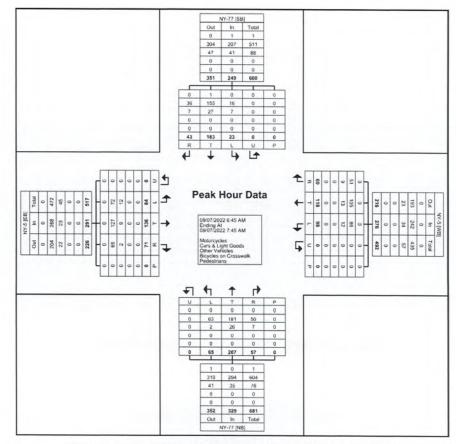
	1							1			9			oun	100	Dun	4 (0.	10 / 11	V1)										
				NY-77							NY-5							NY-77							NY-5				
0			5	Southbou	nd					1	Westboun	nd					1	Northbour	nd						Eastboun	d			
Start Time	Right	Right on Red	Thru	Left	U-Turn	Peds	App. Total	Right	Right on Red	Thru	Left	U-Turn	Peds	App. Total	Right	Right on Red	Thru	Left	U-Tum	Peds	App. Total	Right	Right on Red	Thru	Left	U-Turn	Peds	App. Total	Int. Total
6:45 AM	9	0	39	2	0	0	50	13	9	17	16	0	0	55	6	2	41	17	0	0	66	9	3	29	14	0	0	55	226
7:00 AM	9	4	42	7	0	0	62	12	2	28	27	0	0	69	6	3	41	10	0	0	60	16	5	33	24	0	():	78	269
7:15 AM	5	3	61	11	0	U	80	11	5	46	45	0	0	107	26	6	58	21	0	0	111	18	9	30	21	0	U	78	376
7:30 AM	11	2	41	3	0	0	57	5	3	27	10	0	D	45	7	1	67	17	0	U	92	10	1	44	25	0	- O	80	274
Total	34	9	183	23	0	0	249	41	19	118	98	0	0	276	45	12	207	65	0	0	329	53	18	136	84	0	70	291	1145
Approach %	13.7	3.6	73.5	9.2	0.0	-	-	14.9	6.9	42.8	35.5	0.0	*		13.7	3.6	62.9	19.8	0.0	-		18.2	6.2	46.7	28.9	0.0		-	
Total %	3.0	0.8	16.0	2.0	0.0	-	21.7	3.6	1.7	10.3	8.6	0.0	-	24.1	3.9	1.0	18.1	5.7	0.0	~	28.7	4.6	1.6	11.9	7.3	0.0		25.4	-
PHF	0.773	0.563	0.750	0.523	0.000	-	0.778	0.788	0.528	0.641	0.544	0.000	-	0.645	0.433	0.500	0.772	0.774	0.000	4	0.741	0.736	0.500	0.773	0.840	0.000	-	0.909	0.761
Motorcycles	0	0	1	0	0	-	1	0	0	0	0	0	-	0	0	0	0	0	0		0	0	0	0	0	0	-	0	1
% Motorcycles	0.0	0.0	0.5	0.0			0.4	0.0	0.0	0.0	0.0	- 1-	-	0.0	0.0	0.0	0.0	0.0		- 2	0.0	0.0	0.0	0.0	0.0			0.0	0.1
Cars & Light Goods	28	8	155	16	0	-	207	35	16	105	86	0		242	38	12	181	63	0	~	294	51	18	127	72	0	_	268	1011
% Cars & Light Goods	82.4	88.9	84.7	69.6		-	83.1	85.4	84.2	89.0	87.8		*	87.7	84.4	100.0	87.4	96.9		-	89.4	96.2	100.0	93.4	85.7		-	92.1	88.3
Other Vehicles	6	1	27	7	0	-	41	6	3	13	12	0	-	34	7	0	26	2	0	-	35	2	0	9	12	0	-	23	133
% Other Vehicles	17.6	11.1	14.8	30.4		~	16.5	14.6	15.8	11.0	12.2			12.3	15.6	0.0	12.6	3.1	174	-	10.6	3.8	0.0	6.6	14.3		-	7.9	11.6
Bicycles on Crosswalk				-		0				-			0	-	-			-		Ū		-		-			0		-
% Bicycles on Crosswalk	-	-		-		-	-	-	-	-	-	-	-	-	-	-	-		-	-	-			3-	-	-	_		-
Pedestrians	-	-	-	-		O	-	-	-	-	-	-	0	-	-		-	-	-	- ú	-		-	-		-	0	-	-
% Pedestrians	-	-	-	-	-		-	-	-	-	_	-	-	-					-					-					



Tri-State Traffic Data: New York Division 184 Baker Rd

Coatesville , Pennsylvania, United States 19320 610-517-2338 bkarz@tstdata.com

Count Name: NY-77/NY-5 Site Code: Start Date: 09/07/2022 Page No: 5



Turning Movement Peak Hour Data Plot (6:45 AM)



Tri-State Traffic Data: New York Division 184 Baker Rd

Coatesville , Pennsylvania, United States 19320 610-517-2338 bkarz@tstdata.com

Count Name: NY-77/NY-5

Site Code: Start Date: 09/07/2022 Page No: 6

Turning Movement Peak Hour Data (4:15 PM)

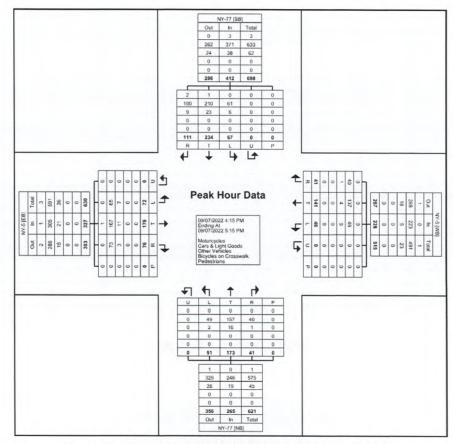
	1							1			9 1110	VOILIN		Cuit	11001	Dut	J (T.	1011	VI)										
				NY-77							NY-5						,	NY-77	,						NY-5				
Ctent Time			S	Southbou	nd					1	Westboun	d					1	Northbour	nd					1	Eastboun	d			
Start Time	Right	Right on Red	Thru	Left	U-Turn	Peds	App. Total	Right	Right on Red	Thru	Left	U-Turn	Peds	App. Total	Right	Right on Red	Thru	Left	U-Turn	Peds	App. Total	Right	Right on Red	Thru	Left	U-Turn	Peds	App. Total	Int. Total
4:15 PM	22	7	56	18	0	0	103	8	5	44	9	0	0	66	7	1	33	12	0	()	53	8	7	47	17	0	-0	79	301
4:30 PM	21	4	61	18	0	0	104	1	5	33	9	0	0	48	11	1	50	17	0	0	79	14	6	52	21	0	0	93	324
4:45 PM	17	8	72	18	0	.0	115	10	4	31	12	0	0.	57	10	0	40	10	0	0	60	13	12	37	20	0	0	82	314
5:00 PM	24	8	45	13	0	0	90	5	3	33	16	0	0	57	10	1	50	12	0	0	73	12	4	43	14	0	U	73	293
Total	84	27	234	67	0	0	412	24	17	141	46	0	0	228	38	3	173	51	0	0	265	47	29	179	72	0	-0	327	1232
Approach %	20.4	6.6	56.8	16.3	0.0	4.	-	10.5	7.5	61.8	20.2	0.0	-	-	14.3	1.1	65.3	19.2	0.0	-	-	14.4	8.9	54.7	22.0	0.0	_	-	
Total %	6.8	2.2	19.0	5.4	0.0	-	33.4	1.9	1.4	11.4	3.7	0.0	-	18.5	3.1	0.2	14.0	4.1	0.0	-	21.5	3.8	2.4	14.5	5.8	0.0	-	26.5	-
PHF	0.875	0.844	0.813	0.931	0.000	-	0.896	0.600	0.850	0.801	0.719	0.000	-	0.864	0.864	0.750	0.865	0.750	0.000	-	0.839	0.839	0.604	0.861	0.857	0.000	-	0.879	0.951
Motorcycles	2	0	1	0	0	-	3	0	0	0	0	0		0	0	0	0	0	0	-	0	0	0	1	0	0	-	1	4
% Motorcycles	2.4	0.0	0.4	0.0	-	-	0.7	0.0	0.0	0.0	0.0	-	-	0.0	0.0	0.0	0.0	0.0	-	-	0.0	0.0	0.0	0.6	0.0		_	0.3	0.3
Cars & Light Goods	74	26	210	61	0	-	371	23	17	137	46	0	-	223	37	3	157	49	0	-	246	45	28	167	65	0		305	1145
% Cars & Light Goods	88.1	96.3	89.7	91.0		+	90.0	95.8	100.0	97.2	100.0		-	97.8	97.4	100.0	90.8	96.1		-	92.8	95.7	96.6	93.3	90.3	-	-	93.3	92.9
Other Vehicles	8	1	23	6	0	~	38	1	0	4	0	0	-	5	1	0	16	2	0		19	2	1	11	7	0		21	83
% Other Vehicles	9.5	3.7	9.8	9.0		н	9.2	4.2	0.0	2.8	0.0	-	-	2.2	2.6	0.0	9.2	3.9	-	_	7.2	4.3	3.4	6.1	9.7		-	6.4	6.7
Bicycles on Crosswalk	-	-		-	-	0		-	-	-		-	0			-	-		-	0	-	-			+	-	0		-
% Bicycles on Crosswalk	-		-	-	-	-		-	-	-		-	-	-	-	- :	-		-	- 7				-	(-)	-	_		
Pedestrians	-	-	-	-	-	0	-	-	-	-	-	-	0	-	-	-	-	-	-	0	-	-		-			0		
% Pedestrians	-		-	-	-	-	-	-	-	-						-	-							-					



Tri-State Traffic Data: New York Division 184 Baker Rd

Coatesville , Pennsylvania, United States 19320 610-517-2338 bkarz@tstdata.com

Count Name: NY-77/NY-5 Site Code: Start Date: 09/07/2022 Page No: 7



Turning Movement Peak Hour Data Plot (4:15 PM)



Tri-State Traffic Data: New York Division 184 Baker Rd

Coatesville , Pennsylvania, United States 19320 610-517-2338 bkarz@tstdata.com

Count Name: NY-77/Vision Parkway Site Code: Start Date: 09/07/2022 Page No: 1

**Turning Movement Data** 

Start Time			NY-77 Southbound					Vision Parkway Westbound					NY-77 Northbound			
	Thru	Left	U-Turn	Peds	App. Total	Right	Left	U-Turn	Peds	App. Total	Right	Thru	U-Turn	Peds	App. Total	Int. Total
6:00 AM	32	0	0	-0	32	0	0	0	0	0	0	55	0	0	55	87
6:15 AM	38	0	0	0	38	0	0	0	0	0	2	69	0	0	71	109
6:30 AM	40	2	0	0	42	0	0	0	0	0	0	69	0	D	69	111
6:45 AM	57	0	0	-0	57	0	0	0	0	0	4	83	0	Ü	87	144
Hourly Total	167	2	0	0	169	0	0	0	0	0	6	276	0	0	282	451
7:00 AM	64	1	0	()	65	2	0	0	0	2	1	79	0	0	80	147
7:15 AM	73	0	0	0	73	0	0	0	Ò	0	2	89	0	0.	91	164
7:30 AM	57	1	0	U	58	3	0	0	0	3	0	102	0	G	102	163
7:45 AM	65	0	0	1	65	0	0	0	0	0	0	66	0	0	66	131
Hourly Total	259	2	0	1	261	5	0	0	0	5	3	336	0	0	339	605
8:00 AM	44	0	0	0	44	0	0	0	0	0	1	85	0	i)	86	130
8:15 AM	50	0	0	0	50	0	1	0	0	1	0	70	0	0	70	121
8:30 AM	44	0	0	0	44	0	0	0	0	0	0	68	0	0	68	112
8:45 AM	34	0	0	0	34	1	1	0	0	2	0	66	0	U	66	102
Hourly Total	172	0	0	0	172	1	2	0	0	3	1	289	0	0	290	465
9:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
*** BREAK ***	-	-	-		-	-	-	-							-	-
Hourly Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3:00 PM	72	0	0	0	72	0	0	0	0	0	0	78	0	Ü	78	150
3:15 PM	90	0	1	0	91	1	0	0	0	1	0	77	0	()	77	169
3:30 PM	84	1	0	0	85	3	3	0	0	6	0	75	0	D.	75	166
3:45 PM	78	0	0	0	78	0	1	0	0	1	0	83	0	D	83	162
Hourly Total	324	1	1	0	326	4	4	0	0	8	0	313	0	0	313	647
4:00 PM	102	0	1	0	103	0	0	0	0	0	0	67	0	D-	67	170
4:15 PM	102	0	0	0	102	1	0	0	0	1	0	62	0	7)	62	165
4:30 PM	103	0	-1	0	104	0	0	0	0	0	0	76	0	Ú	76	180
4:45 PM	107	0	2	0	109	0	0	0	0	0	0	77	0	0	77	186
Hourly Total	414	0	4	0	418	1	0	0	0	1	0	282	0	0	282	701
5:00 PM	91	0	0	0	91	0	1	0	0	1	0	71	0	U	71	163
5:15 PM	68	0	1	0	69	0	0	0	0	0	0	62	0	0	62	131
5:30 PM	112	0	0	0	112	0	0	0	0	0	0	60	0	0	60	172
5:45 PM	100	1	0	0	101	0	1	0	Ū	1	0	61	0	- 11	61	163
Hourly Total	371	1	1	0	373	0	2	0	0	2	0	254	0	0	254	629
6:00 PM	76	0	1	0	77	1	0	0	ū	1	0	76	0	, , ,	76	154
6:15 PM	71	0	0	0	71	0	0	0	0	0	0	55	0	15	55	154
6:30 PM	61	0	0	0	61	0	0	0	0	0	0	43	0	No.	43	126

6:45 PM	51	0	0	0	51	0	0	0	0	0	0	38	0	()	38	89
Hourly Total	259	0	1	0	260	1	0	0	0	1	0	212	0	0	212	473
7:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	U	0	0
Grand Total	1966	6	7	1	1979	12	8	0	0	20	10	1962	0	0	1972	3971
Approach %	99.3	0.3	0.4	-		60.0	40.0	0.0	-		0.5	99.5	0.0	all all		-
Total %	49.5	0.2	0.2	-	49.8	0.3	0.2	0.0	-	0.5	0.3	49.4	0.0		49.7	
Motorcycles	8	0	0	-	8	0	0	0	1-	0	0	4	0	,	4	12
% Motorcycles	0.4	0.0	0.0	-	0.4	0.0	0.0	-	+	0.0	0.0	0.2	-	-	0.2	0.3
Cars & Light Goods	1711	6	4	-	1721	12	7	0	-	19	10	1745	0		1755	3495
% Cars & Light Goods	87.0	100.0	57.1	-	87.0	100.0	87.5	-	-	95.0	100.0	88.9	-	-	89.0	88.0
Other Vehicles	247	0	3	-	250	0	1	0	-	1	0	213	0		213	464
% Other Vehicles	12.6	0.0	42.9	-	12.6	0.0	12.5	-	-	5.0	0.0	10.9	-	-	10.8	11.7
Bicycles on Crosswalk	-	-		0	-	-	-	-	0	-	-	-	-	- 0	-	-
% Bicycles on Crosswalk			-	0.0	-	-	-	-	-	-		-	-	-		
Pedestrians	-	-	-	i	-	-	-	-	0	-	-	-	-	0	-	
% Pedestrians	-	-	-	100.0	-		-	-	-				-		-	

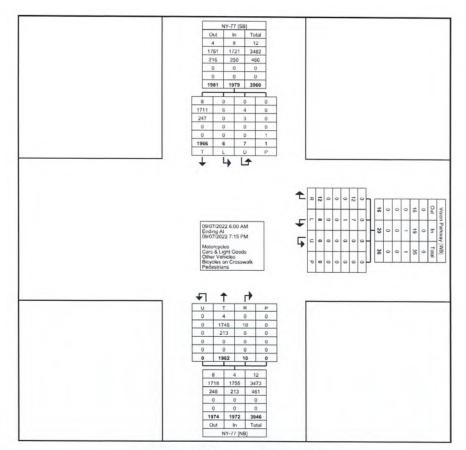


Tri-State Traffic Data: New York Division 184 Baker Rd

Coatesville , Pennsylvania, United States 19320 610-517-2338 bkarz@tstdata.com

Count Name: NY-77/Vision Parkway

Site Code: Start Date: 09/07/2022 Page No: 3



Turning Movement Data Plot



Tri-State Traffic Data: New York Division 184 Baker Rd

Coatesville , Pennsylvania, United States 19320 610-517-2338 bkarz@tstdata.com

Count Name: NY-77/Vision Parkway Site Code: Start Date: 09/07/2022 Page No: 4

Turning Movement Peak Hour Data (6:45 AM)

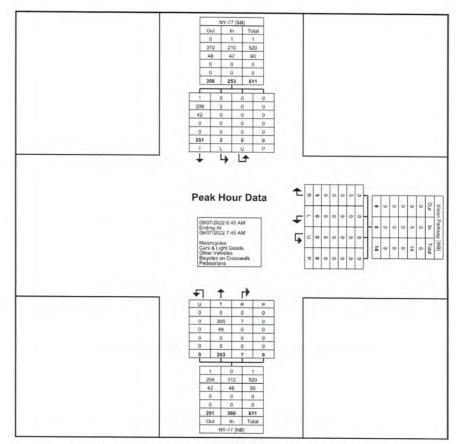
					rurriiriç	ivioveii	Herri Fee	ak Hour i	Dala (0	45 AIVI)						
Start Time			NY-77 Southbound					Vision Parkway Westbound					NY-77 Northbound		- 2	
Start Time	Thru	Left	U-Turn	Peds	App. Total	Right	Left	U-Turn	Peds	App. Total	Right	Thru	U-Turn	Peds	App. Total	Int. Total
6:45 AM	57	0	0	0	57	0	0	0	0	0	4	83	0	Ü	87	144
7:00 AM	64	1	0	0	65	2	0	0	0	2	1	79	0	U	80	147
7:15 AM	73	0	0	0	73	0	0	0	0	0	2	89	0		91	164
7:30 AM	57	1	0	0	58	3	0	0	Ü	3	0	102	0	0	102	163
Total	251	2	0	-0	253	5	0	0	U	5	7	353	0	Ų.	360	618
Approach %	99.2	0.8	0.0	-		100.0	0.0	0.0	4	4	1.9	98.1	0.0			-
Total %	40.6	0.3	0.0	>	40.9	8.0	0.0	0.0		0.8	1.1	57.1	0.0	9	58.3	-
PHF	0.860	0.500	0.000		0.866	0.417	0.000	0.000		0.417	0.438	0.865	0.000	-	0.882	0.942
Motorcycles	1	0	0	-	1	0	0	0	~	0	0	0	0		0	1
% Motorcycles	0.4	0.0	-		0.4	0.0	-	-		0.0	0.0	0.0	4.0		0.0	0.2
Cars & Light Goods	208	2	0	+	210	5	0	0	-	5	7	305	0		312	527
% Cars & Light Goods	82.9	100.0	-	4	83.0	100.0	-	-		100.0	100.0	86.4	-	-	86.7	85.3
Other Vehicles	42	0	0		42	0	0	0	-	0	0	48	0	4	48	90
% Other Vehicles	16.7	0.0	-	-	16.6	0.0	-		*	0.0	0.0	13.6	-		13.3	14.6
Bicycles on Crosswalk	-	-	-	0	-			-	0	-	-	-	-	0	-	
% Bicycles on Crosswalk	-		-	-	-		-	-	-	-		-	-	4		
Pedestrians	-		-	0	-	-	-		0					0	-	
% Pedestrians	-		-	-		-	-					-	-	19		-



Tri-State Traffic Data: New York Division 184 Baker Rd

Coatesville , Pennsylvania, United States 19320 610-517-2338 bkarz@tstdata.com

Count Name: NY-77/Vision Parkway Site Code: Start Date: 09/07/2022 Page No: 5



Turning Movement Peak Hour Data Plot (6:45 AM)



Tri-State Traffic Data: New York Division 184 Baker Rd

Coatesville , Pennsylvania, United States 19320 610-517-2338 bkarz@tstdata.com

Count Name: NY-77/Vision Parkway Site Code: Start Date: 09/07/2022 Page No: 6

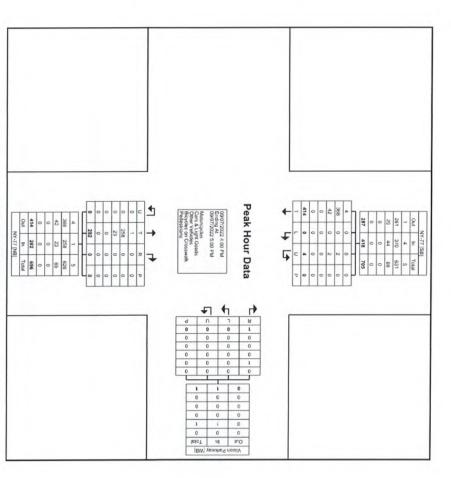
Turning Movement Peak Hour Data (4:00 PM)

				1 41111119	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	I CITE I C	ait i loui	Data (T	.00 1 101)						
		NY-77 Southbound					Vision Parkway	,				NY-77			
Thru	Left	U-Turn	Peds	App. Total	Right	Left	U-Turn	Peds	App. Total	Right	Thru		Peds	Ann Total	Int. Total
102	0	1	0	103	0	0	0	0	0	0			0		170
102	0	0	0	102	1	0	0	0	1	0			0		165
103	0	1	0	104	0	0	0	0	0	0			0		180
107	0	2	0	109	0	0	0	0	0	0			0		186
414	0	4	0	418	1	0	0	0	1	0	282	0	0		701
99.0	0.0	1.0	-	-	100.0	0.0	0.0	-		0.0	100.0	0.0			-
59.1	0.0	0.6	-	59.6	0.1	0.0	0.0	-	0.1	0.0	40.2				
0.967	0.000	0.500	-	0.959	0.250	0.000	0.000	F	0.250	0.000					0.942
4	0	0	-	4	0	0	0	-	0	0	1			1	5
1.0	-	0.0	-	1.0	0.0	-	- 4	-	0.0	-	0.4	-		0.4	0.7
368	0	2		370	1	0	0	9	1	0		0	_		629
88.9	4	50.0	-	88.5	100.0	-	-		100.0	-					89.7
42	0	2		44	0	0	0	-	0	0		0			67
10.1		50.0	-	10.5	0.0			-	0.0	-					9.6
-	-	-	0			-		0		-		-	0		-
	-			-						-					
-	-	-	0					0		-		-	Ŋ		
-	-			-				_	-	-	-				
	102 102 103 107 414 99.0 59.1 0.967 4 1.0 368 88.9 42 10.1	102 0 102 0 103 0 107 0 414 0 99.0 0.0 59.1 0.0 0.967 0.000 4 0 1.0 - 368 0 88.9 - 42 0 10.1	Thru         Left         U-Turn           102         0         1           102         0         0           103         0         1           107         0         2           414         0         4           99.0         0.0         1.0           59.1         0.0         0.6           0.967         0.000         0.500           4         0         0           1.0         -         0.0           368         0         2           88.9         -         50.0           42         0         2           10.1         -         50.0           -         -         -           -         -         -           -         -         -           -         -         -           -         -         -           -         -         -           -         -         -           -         -         -           -         -         -           -         -         -           -         -         -	Thru         Left         U-Turn         Peds           102         0         1         0           102         0         0         0           103         0         1         0           107         0         2         0           414         0         4         0           99.0         0.0         1.0         -           59.1         0.0         0.6         -           0.967         0.000         0.500         -           4         0         0         -           1.0         -         0.0         -           368         0         2         -           88.9         -         50.0         -           42         0         2         -           10.1         -         50.0         -           -         -         -         0           -         -         -         0	NY-77   Southbound   Thru   Left   U-Turn   Peds   App. Total	NY-77 Southbound Thru Left U-Turn Peds App. Total Right 102 0 1 0 103 0 102 1 103 0 10 104 0 107 0 2 0 109 0 414 0 4 0 418 1 99.0 0.0 1.0 - 100.0 59.1 0.0 0.6 - 59.6 0.1 0.967 0.000 0.500 - 0.959 0.250 4 0 0 - 4 0 1.0 - 0.0 - 1.0 0.0 368 0 2 - 370 1 88.9 - 50.0 - 88.5 100.0 42 0 2 - 44 0 10.1 - 50.0 - 10.5 0.0	NY-77   Southbound   Thru   Left   U-Turn   Peds   App. Total   Right   Left	NY-77   Southbound   Peds   App. Total   Right   Left   U-Turn   Peds   App. Total   Right   Left   U-Turn   102   0   1   0   103   0   0   0   0   0   102   1   0   0   0   103   0   0   0   0   103   0   0   0   0   103   0   0   0   0   0   103   0   0   0   0   0   103   0   0   0   0   0   0   0   0   0	NY-77   Southbound   Peds   App. Total   Right   Left   U-Turn   Peds   Peds   Ny-77   Ny-77	Southbound   Feds   App. Total   Right   Left   U-Turn   Peds   App. Total	NY-77   Southbound   Peds   App. Total   Right   Left   U-Turn   Dotal   Dotal	NY-77   Southbound   Feds   App. Total   Right   Left   U-Turn   Peds   App. Total   Right   Thru   Left   U-Turn   Peds   App. Total   Right   Left   U-Turn   Peds   App. Total   Right   Thru   Thru   Left   U-Turn   Peds   App. Total   Right   Thru   Thru	NY-77   Southbound   Peds   App. Total   Right   Left   U-Turn   Peds   App. Total   Right   Left   U-Turn   Peds   App. Total   Right   Thru   U-Turn   Thru   U-Turn   Thru   U-Turn   Thru   Thru   U-Turn   Thru   U-Turn   Thru   U-Turn   Thru   Thru   U-Turn   Thru   U-Turn	NY-77   Southbound   Thru   Left   U-Turn   Peds   App. Total   Right   Left   U-Turn   Peds   App. Total   Right   Left   U-Turn   Peds   App. Total   Right   Thru   U-Turn   Peds   App. Total   Thru   U-Turn   Peds   App. Total   Right   Thru   U-Turn   Peds   App. Total   Thru   U-Turn   Peds   App. Total   Right   Thru   U-Turn   Peds   App. Total   Thru   U-Turn   Peds   App. Total   Right   Thru   U-Turn   Peds   App. Total   Right   Thru   U-Turn   Peds   App. Total   Thru   U-Turn   Peds   App. Total   Right   Thru   U-Turn   Peds   App. Total   Right   Thru   U-Turn   Peds   App. Total   Right   Thru   U-Turn   Peds   App. Total   Thru   U-Turn   Peds   Thru   U-Turn   Thru	NY-77   Southbound   Peds   App. Total   Right   Left   U-Turn   Peds   App. Total   Right   U-Turn   Peds   App. Total   App. Total   Right   U-Turn   Peds   App. Total   Right   Thru   U-Turn   Peds   App. Total   Right   Right



Coatesville , Pennsylvania, United States 19320 610-517-2338 bkarz@tstdata.com

Tri-State Traffic Data: New York Division 184 Baker Rd



Turning Movement Peak Hour Data Plot (4:00 PM)

Count Name: NY-77/Vision Parkway Site Code: Start Date: 09/07/2022 Page No: 7

## **A2**

# Miscellaneous Traffic Data and Calculations

### Proposed Pembroke Industrian Park, Town of Pembroke, Genesee County, NY

Documentation of Ambient Traffic Volume Growth

Roadway	Segment starts at	Segment end at	2011	2014	2015	2017	2018	2019	Annual Growth
NY-77	NYS Thruway	NY-5		8,831		6,971			-7.58%
NY-77	NY-5	NY-33	6,345	5,601		5,771			-1.57%
NY-5	NY-77	Erie/Gen Co Line			5.997	-,	6.336		1.85%
NY-5	NY-77	CR-30		5,402	.,	4,820	0,000	4.997	-1.55%
								AVERAGE	-2.43%



## Census OnTheMap

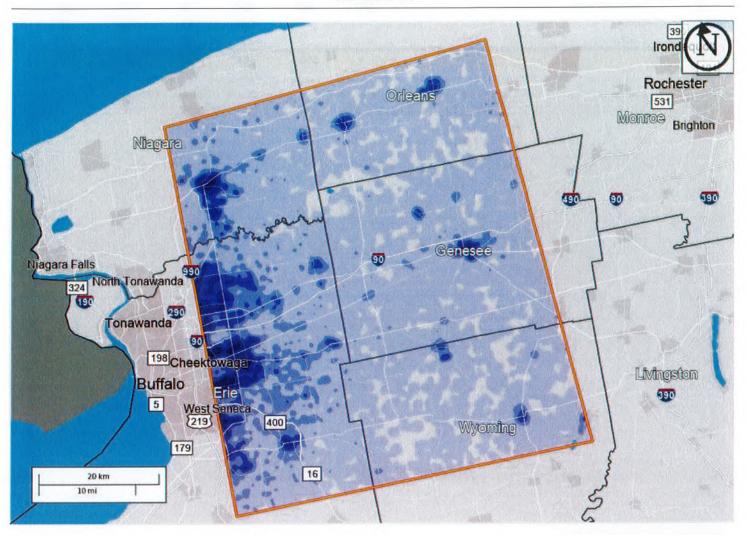
### Home Area Profile Report

All Jobs for All Workers in 2019

Created by the U.S. Census Bureau's OnTheMap https://onthemap.ces.census.gov on 10/18/2022

#### Density of All Jobs in Home Selection Area in 2019

All Workers



### Map Legend

#### Job Density [Jobs/Sq. Mile]

- 5 142
- **143 554**
- **555 1,240**
- **1,241 2,202**
- **2**,203 3,438

#### Selection Areas

★ Analysis Selection





PHASE	DESCRIPTION	ITE LUC	SIZE	AM PEA	K HOUR	PM PEA	K HOUR
				ENTER	EXIT	ENTER	EXIT
1	Industrial Park 13 Cars Trucks	130	560	154	36	41	149
	Cars			136	32	36	130
	Trucks			18	4	5	19
2	High-Cube Fullfillment Center Warehouse	155	380	46	11	24	37
	Cars			42	10	22	34
	Trucks			4	1	2	3
3	Industrial Park	130	560	154	36	41	149
	Cars			136	32	36	130
	Trucks			18	4	5	19
Total Trip	os		1500	354	83	106	335



PROJECT: LOCATION: PEAK HOUR: Pembroke Industrial Park Town of Pembroke, NY AM Peak

Figure Number

Party.

W.		2022	2025		NEXQ	atics		Brickhouse	• Cornenoria	Nearby	Total Blood		Phase 1	Cars			Phose 1	- Trucks		(mark)	Phone 1	2029		Phase 2	- Cars			Phone 2 - T	ner#a	-	Te	2 1 2 may 2	2032		Dhine 3 - F	Table 1	_					
R PN	NT-77	Volumes.	1.00%	Enter Dist. %	Dot.'s	Irius Di B	3	Trips BV	Inpo OUI	Project Trips	Total Ekgd Volume	Britise Dist, %	Phase 1 but Dist. %	136	100 auti	Digit. %	Dept. Vs.	Trucks Trucks Trucks	Tres OUT	Phase 1 Site Trips	Build Values	2029 Bkgd Val 1,00%	Dat. N	Dist, %	- Cars Inos IN 47	Treas OUT	Dat %	Dat. %	Inges BV In	s GUI Si	tusse 2 to Trips Vo	Build	2022 Bkg5 Vel 1,00%	bitler Dist. to	ber 1 Det.5	ingo IN In	Us UUT   B	Pho let Exil Lt. Dist.	Inpu IV	Teps DUT	Phase 3 Site Trips	Total Site (rips
	NYS Throng (but 4th), SN ST	265 135	711	10%		,		,		2	211	11/5		20		16%		1		21	211 102	220 109	tota				10%	-	U	- 100	,	22G 17G	727	-	-		-	-	-	-	100	
H	SA WR											-		-										-		-	-	-				370	181	ttes.	-	21/	-	4	2	-		00
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-	AL EM E1	338 162	348 186	76%	10%	. 5	2	- 2	7	+	362 195	25%	20%	34	0	N/L	10%	13	3	5 11 47	100 360 242	104 378 231	25%	15% 75%	- 11	1	70%	HPs HPs	,	1 339		125 381 264	168. 383 272	2000	15% 25%	4	5	105	1	3	\$ 11 4)	73 73 107
╀	RE-FE	Die:	90								99				_						90	193									3065	193	106									
H	Flyery J Trick Across SH ST	243	43 250	80%		6		3			43	40%		54		80%		14		GO	43 227	45 341	40%	-	37		pur.	-	3	18		25 361	40 372	-	-		-	-	+	-		
-	SIL VIH			-		_		-				1011		-	-				-		24'	JA1	401	-	- 10	-	bu%.	-	3		20	361	372	4077		»A	8		14		68	196
H	PIL NH	363	364		80%		2		3	5		-				-	_	-						-	-		-	-	-	- 5				_			_					
H	N. EH	2	2	-	60%		-				360 2		40%		1,3		80%		3	16	385	401		40%	_	*		8674		1	100	406	216		40%		15	eln		3	16	2
H	86. NF-77	53	55								55									the rail	36	57										67	59						4-1			
	Prepared Northely Access SN 51	247	254	80%				3		9	263	46%		54		90%		14		61	231	345	42%		17	-	80%	-	3	- 10	26	90 345	20		-	-	_		-			-
H	SE WH. WT							_		-	-			-		50.0	-					345		-	-	-	-	-	-			345	355	41/1.		*	5		34		68	194
-	VIL.	365													_	_									_	-	-															
-	Ni. ER	360	306		80%		7	-	3	5	371		40%	-	13		80%		3	16	367	403	10%	15%		2	_	_			6	403 5	419 6		40%		12	867-		+	N.	31 0
L	BY-75/Vocas Patricky																							40%	-	4		N2"+			-	5	3									
H	Processed Situation Academ SPL	251	250					3		3	262	40%		54	-	87's	-	34		94 56	2K	54 200		5%			-		-			u u	54	49%	-	24	_	-			54	168
H	WH.	5	5	MPs.	H0%.		2	_		6 2	7			-	-		-		-		1	3		0,	-	2	-	-	-	- 15	2	5A 290 9	9	-	_		0	,	14.		4	32
ŀ	WE.	7 353		30%	20%	2	1			2 3	1 9 367			-		_					1	1				_	-	-	-	10		1	1									
-	NL EM	300	364					_	3	3	367	10%	10%	14	3	_	80%		3	3 (4	370 16	385	15%		6						STATE OF	3 391 14 3	497 14	101.	10%	14		No.		à	3 14	20
L	EL NY-77	-											47%		1.6					-	13	13										13			40%		2				,	
H	NFG SR ST	45	44		5%	-	0 1	,		0	44		5/A			90%	-	14		14 2	- 10	61			-			-	-	15		دا ال	0	-	-		3		14		14	
H	SIL WHE W/I	23 60 118	24 62 122	5/4	3%	0	0	-		0	21 62 122	5% 10%	5%	7	i		-			1 16	186 25 63 138	2011 20 72 144	5%	5%	2	;	_	-	-		1	204 27	210 27 76	90-	5%	7	1				1	
-	VIII.	16	101	-				1	1	1				14		10%		2		1000	102	194			4		10%		1	1		74 149 100	154	5% 10%		tal.	- 4		2.		16	
H	NT NL ER	207 86 71	213 47 23	10%		,		7	2	2 2	60 217 69 75	5% 20%	20%	7 27		5%		,	0	28	224 07	233 101 85	10% 15%	900	6		5%		0	100	4	62 237 100	244	5% 29%		7 27			,		23	W.
L	ET EL NY-5/380040uso Road	136 84	23. 140 87	504		i				-	140 66		30%		4		57. 10% 80%		1 1		145 91	131		15%		1		10%		0	1	67 152 95	60 157 58		10%	9	4	9% 10%		1		
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H	SL WR							-				35%	30%	41	10	95%	95%	17	4	14 58	14 50	14 58	25%	25%	10		15%	11/10		0	3	17	17	30%	NS.	41	10. 20	1455			indicate a	
H	VIII VIII.	240 15	247 15		5%		0		2	2	249 15										246 18	259 16										60 299 10	207	-		*	,,,	'	"			
H	NI NL ER	1 9 276	1 9 286								9									S.	1	1										1	1									
L	17	278	266	5%		1		2		3	200	20%		27		5%				1	200 28	9 301 24	20%				200		0			301	310	300		97					100	

PROJECT: LOCATION: PEAK HOUR: Pembroke Industrial Park Town of Pembroke, NY PM Peak

Equip Number

and the same of th

INTERSECTION DESCRIPTION	2022 Collected	2025 Blagd Vel	briar T	NEXq.	lino N	Long Old	Brickhous	Ingu OUI	Nearby Praject Trips	Total Blood Volume	hater 4	Phase 1	Cars			Pluse 1 -	Trucks	- 1	Pines?	Phase 1	2029		Phase 2	Cars		Ph	ne Z - Truce-		Labour	- Stone S	7111		- On-								
NY-77 NYS Throng das 46A,	Valures	1.00%	Drier Dg, %	Digit. %	-	10	- 60	56	Trips	Volume	Enter Disk, %	Est Dot.'s	36	130	Drifter Data to	Detro	Tracks Tryo IN	19 DUI	Place 1 Site Trips	Plane 1 Build Yokmea	84gd Vol 1,02%	Dat.%	Digit. %	Cars. Tros IN - In - 77	os OUI to	Meri Exe P. S. Dec.	Ingo Bi	Inpa OU	Phose 2 Size Trips	Build Volumes	2932 Blegd Vol 1,00%	Erter Dol. 5	Ext Out. %	Iruz Bi	Trius (101) 130	bree: Dat, 's	Phase 3+1 b+4 flut. %	Ires IN	Inps Out	Phase 3 Total	Cital Se Srepa
SR ST	173	178	10%		0		0		3	178 172	11/4		>		16.5				4	178	165 180	150-	-	3	-	25			100	185	191							_			
Wis		1 7												-										-	-	-	-	-		189	1164	10%				10"+		_			100
TAM NOT	144	145		10%		1				157			-		-		-					-		-	-	_	-		1000												
NI EM ET	235	145 247 316	70%	72%	3	,	16	16	9 23 19	263	25%	15% 25%		33	April.	10°.		13	21 46 13	176 311	185 303 301	25%	15% 25%		5 9	105		9 2	11	190 334	196 344		15% 75%		29 37		100		2 (0)	21 46 13	
ET EL NY-77	201	207								207										207	215			*			2			266. 215	360	25%		,		10-		*			
Hyry J Inca Access Sk S1	45 429	43 421	80%		3					43		-	-	-	-	-	-			457	45			_							4)										
SK.	424	421	80%	-	,		24	-	2/	445	40%	_	14	_	N/s		4		13:	467	456	46%		9		rs.			10	486 486	511	40%		14		80%				10	d
991 990 100																																									
NL.	281	290 6		90%				24	32	322		40%		52		er.		15	47	389	405		40%		14.	GJ7.		2	16	431	434		40%		bir.		86/9		15	87	
EF EL	41	42								42										9										•	0						-	-			
Proposed Northerly Assess									124											-	- 44			_						44	-45					-	-	-			L
SI SL	418	431	80%		3		24		27	458	475		14		5/1-				10	477	496	40%		9		9%	3		16	10 466	10 511	40%		14		50%				18	
Wet Will										100																												-			
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EM ET									-					-	-							Tats.	15%	3	4	-	+	-	3	3	423 3		40%		50	_	801-	-	15	o :	
NE-FAVosus Patonay Processed Southerly Assess								-	-			-	-	-			-						49%		14	805			16	16	- 19										
SH	414	427					24		24	451	40%		14		20%				14	14 455	14 473		15%		3	-	+	-		14	14	46/5:		14			-			14.	Ų
We FeT	1	1	80%	80%	3				3	3		-		-	-					3	3	-		-		-	-	-		478	3 3					867)		4		Said .	8
INL.	282		20%	Cr. h	1	2		-	2	2		-	-	-	-	-	-		0	2	2		_		_	_				-	2										
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ET EL No.77									1	1		49%		54				2	12	52	52					- 1				18	18		10%		13					THE REAL PROPERTY.	A
NY-5 SN	111	194		5%		- 1				110					37%		4			115	93								455		-					59%				NATION	İ
84	234 67 41	241 69 42	504	1316 5%		,	24		25	296 68	100	5%		4					4	115 273 75	23 264 78		10% 5%		3				2	123 287 76 27 158	298 61		5%			50%				1	
WII WL	41 141 46	145 47 42					- 4		9	42 145 56	10%		4		97.5		17		5	64 150 55	46 156 58	195		2	1	0%	U		2		943 60	9% 18%		4		705		1			
NI NL	173 51	178 53	10%		1			24 15	9 25 15	51 203 65	5% 20%		7		576				7	\$1 206 70	53 213 79	10%		2					2	63 215 12	95 222 86	50.		2							
ER El	76 179 72	76 184 74	100				15		16	903 164 74		176		13		M. Mr.		2	27 55 15	120 198 89	129 207 93		15%		5 3	3% N/5		0	1	211	131	20%	2975. 1075.	-	26. 12	00	10°s 10°s	-	1	27	Ì
NY-Differentiable House Propused Appens																			100										100	1/3	96					-	AP.	-	15	IX III	3
5H 51 5L												30%		20		979			27	27	27 87		25%		1	155		0	70	Я	54 67		20%		20		95+		1 8	27	
994 991 993	324	334		5%		,		16	16	350	30%		"		10%		5		16	16 350	16 364	751	417	0		155	0	1	- 10	67 50 364	67 22 376	30%	NPs.	11	Je	100	99%	5	18	36 3	38
NH. NI	16	10								10										ia	-5								90000	2	16						-			TENER .	
ER ET	3	3	5%		0		15		15	3 327				$\rightarrow$	$\rightarrow$					3 207	3 340			-	-	-	-	-		3 340 11	3						-	-			
EL		0 - 1 - 2							45.00	1	20%		7		0.00		0	-	7 -	100	7	20%		4		in.	0		1	340	350	190								11-51	18

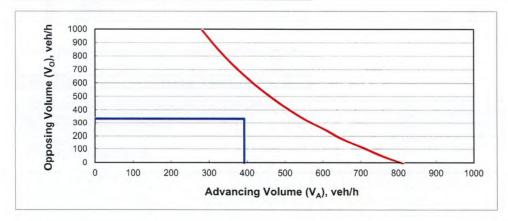
#### INPUT

Variable	Value	
Major Approach	NY-77 @ Proposed Southerly Dwy	
Approach	Northbound (AM Peak) - Phase 1	
Design Speed Limit - MPH	50	
Percent of left-turns in advancing volume (V <sub>A</sub> ), %:	4%	
Advancing volume (V <sub>A</sub> ), veh/h:	393	
Opposing volume (V <sub>O</sub> ), veh/h:	338	

#### CALIBRATION CONSTANTS

Variable	Value
Average time for making left-turn, s:	3.0
Critical headway, s:	5.0
Average time for left-turn vehicle to clear the advancing lane, s:	1.9

PLOT - LINE 1		PLOT - LINE 2	
0	338	393	0
393	338	393	338



#### OUTPUT

001F01	
Variable	Value
Limiting advancing volume (V <sub>A</sub> ), veh/h:	551
Guidance for determining the need for a major-road left-tu	rn bay:
Northbound (AM Peak) - Phase 1 Left-turn treatment NOT	warranted at NY-77 @ Proposed Southerly Dw

ρ 0.015 f = 0.79 Wait Time 1.381 s Service Rate 950 veh/h Arrival Rate 551 veh/h

Vo	Time_tw
0	0.0
100	0.4
200	0.8
300	1.2
400	1.7
500	2.2
600	2.8
700	3.5
800	4.2
900	5.0
1000	5.8

Vo	Serv_rate
0	1200
100	1121
200	1046
300	976
400	910
500	848
600	789
700	735
800	683
900	635
1000	590

% LT veh.	4%	10%	15%	20%	40%
Vo	VA	VA	VA	VA	VA
0	814	503	422	377	308
100	720	445	374	334	273
200	642	396	333	297	243
300	574	355	298	266	217
400	516	319	268	239	195
500	464	287	241	215	176
600	419	259	218	194	159
700	379	234	197	176	143
800	344	212	178	159	130
900	312	192	162	144	118
1000	283	175	147	131	107

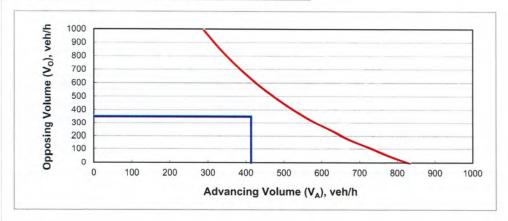
#### **INPUT**

Variable	Value NY-77 @ Proposed Southerly Dwy	
Major Approach		
Approach	Northbound (AM Peak) - Phase 2	
Design Speed Limit - MPH	50	
Percent of left-turns in advancing volume (V <sub>A</sub> ), %:	3%	
Advancing volume (V <sub>A</sub> ), veh/h:	414	
Opposing volume (V <sub>O</sub> ), veh/h:	353	

#### CALIBRATION CONSTANTS

Variable Average time for making left-turn, s:		Value	
		3.0	
Critical headway, s:		5.0	
Average time for left-turn vehicle to clear the advancing lane, s:		1.9	

PLOT - LINE 1		LOT - LINE 1 PLOT - LINE 2	
0	353	414	0
414	353	414	353



#### OUTPUT

Variable	Value
Limiting advancing volume (V <sub>A</sub> ), veh/h:	556
Guidance for determining the need for a major-road left-tur	n bay:
Northbound (AM Peak) - Phase 2 Left-turn treatment NOT w	varranted at NY-77 @ Proposed Southerly Dy

ρ	0.015
f =	0.79
Wait Time	1.453 s
Service Rate	940 veh/h
Arrival Rate	556 veh/h

Vo	Time_tw
0	0.0
100	0.4
200	0.8
300	1.2
400	1.7
500	2.2
600	2.8
700	3.5
800	4.2
900	5.0
1000	5.8

Serv_rate
1200
1121
1046
976
910
848
789
735
683
635
590

% LT veh.	3%	10%	15%	20%	40%
Vo	VA	VA	VA	VA	V <sub>A</sub>
0	834	503	422	377	308
100	739	445	374	334	273
200	658	396	333	297	243
300	589	355	298	266	217
400	529	319	268	239	195
500	476	287	241	215	176
600	430	259	218	194	159
700	389	234	197	176	143
800	352	212	178	159	130
900	319	192	162	144	118
1000	290	175	147	131	107

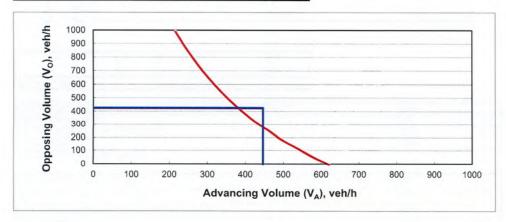
#### **INPUT**

Variable	Value		
Major Approach	NY-77 @ Proposed Southerly Dwy		
Approach	Northbound (AM Peak) - Phase 3		
Design Speed Limit - MPH	50		
Percent of left-turns in advancing volume (V <sub>A</sub> ), %:	6%		
Advancing volume (V <sub>A</sub> ), veh/h:	447		
Opposing volume (V <sub>O</sub> ), veh/h:	429		

#### CALIBRATION CONSTANTS

Variable		Value	
Average time for making let	ft-turn, s:	3.0	
Critical headway, s:		5.0	
Average time for left-turn ve	ehicle to clear the advancing lane, s:	1.9	

PLOT - LINE 1		PLOT - LINE 2	
0	429	447	0
447	429	447	429



Variable	Value
Limiting advancing volume (V <sub>A</sub> ), veh/h:	383
Guidance for determining the need for a major-road left-tu	rn bay:
Northbound (AM Peak) - Phase 3 Left-turn treatment warra	

ρ	0.015
f =	0.79
Wait Time	1.835 s
Service Rate	891 veh/h
Arrival Rate	383 veh/h

Vo	Time_tw
0	0.0
100	0.4
200	0.8
300	1.2
400	1.7
500	2.2
600	2.8
700	3.5
800	4.2
900	5.0
1000	5.8

Vo	Serv_rate
0	1200
100	1121
200	1046
300	976
400	910
500	848
600	789
700	735
800	683
900	635
1000	590

% LT veh.	6%	10%	15%	20%	40%
Vo	VA	V <sub>A</sub>	VA	VA	VA
0	622	503	422	377	308
100	551	445	374	334	273
200	491	396	333	297	243
300	439	355	298	266	217
400	394	319	268	239	195
500	355	287	241	215	176
600	321	259	218	194	159
700	290	234	197	176	143
800	263	212	178	159	130
900	238	192	162	144	118
1000	216	175	147	131	107

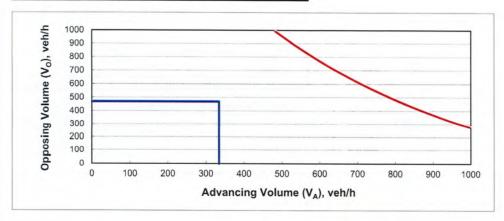
#### **INPUT**

Variable	Value		
Major Approach	NY-77 @ Proposed Southerly Dwy		
Approach	Northbound (PM Peak) - Phase 1		
Design Speed Limit - MPH	50		
Percent of left-turns in advancing volume (V <sub>A</sub> ), %:	1%		
Advancing volume (V <sub>A</sub> ), veh/h:	335		
Opposing volume (V <sub>0</sub> ), veh/h:	472		

#### CALIBRATION CONSTANTS

Variable		Value	
Average time for making left-turn, s:		3.0	
Critical headway, s:		5.0	
Average time for left-turn vehicle to clear	the advancing lane, s:	1.9	

PLOT - LINE 1		PLOT - LINE 2	
0	472	335	0
335	472	335	472



#### OUTPUT

OUTPUT	
Variable	Value
Limiting advancing volume (V <sub>A</sub> ), veh/h:	816
Guidance for determining the need for a major-road left-tu	rn bay:
Northbound (PM Peak) - Phase 1 Left-turn treatment NOT v	

ρ 0.015 f = 0.79 Wait Time 2.064 s Service Rate 865 veh/h Arrival Rate 816 veh/h

Time_tw	Vo
0.0	0
0.4	100
0.8	200
1.2	300
1.7	400
2.2	500
2.8	600
3.5	700
4.2	800
5.0	900
5.8	1000

Vo	Serv_rate
0	1200
100	1121
200	1046
300	976
400	910
500	848
600	789
700	735
800	683
900	635
1000	590

% LT veh.	1%	10%	15%	20%	40%
Vo	VA	VA	VA	V <sub>A</sub>	VA
0	1388	503	422	377	308
100	1229	445	374	334	273
200	1095	396	333	297	243
300	980	355	298	266	217
400	880	319	268	239	195
500	793	287	241	215	176
600	715	259	218	194	159
700	647	234	197	176	143
800	586	212	178	159	130
900	532	192	162	144	118
1000	483	175	147	131	107

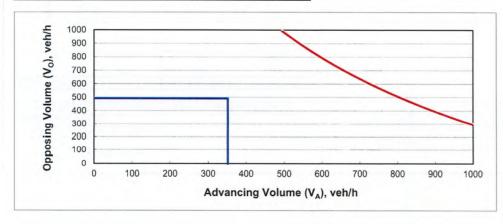
#### INPUT

Variable	Value
Major Approach	NY-77 @ Proposed Southerly Dwy
Approach	Northbound (PM Peak) - Phase 2
Design Speed Limit - MPH	50
Percent of left-turns in advancing volume (V <sub>A</sub> ), %:	1%
Advancing volume (V <sub>A</sub> ), veh/h:	352
Opposing volume (V <sub>O</sub> ), veh/h:	495

#### CALIBRATION CONSTANTS

Variable Average time for making left-turn, s:		Value	
		3.0	
Critical headway, s:		5.0	
Average time for left-turn ve	ehicle to clear the advancing lane, s:	1.9	

PLOT - LINE 1		PLOT - LINE 2	
0	495	352	0
352	495	352	495



#### OUTPUT

Variable	Value
Limiting advancing volume (V <sub>A</sub> ), veh/h:	816
Guidance for determining the need for a major-road left-turn	n bay:
Northbound (PM Peak) - Phase 2 Left-turn treatment NOT w	arranted at NY-77 @ Proposed Southerly Dw

ρ	0.015
f =	0.79
Wait Time	2.191 s
Service Rate	851 veh/h
Arrival Rate	816 veh/h

Vo	Time_tw
0	0.0
100	0.4
200	0.8
300	1.2
400	1.7
500	2.2
600	2.8
700	3.5
800	4.2
900	5.0
1000	5.8

Serv_rate
1200
1121
1046
976
910
848
789
735
683
635
590

% LT veh.	1%	10%	15%	20%	40%
Vo	VA	VA	VA	VA	VA
0	1423	503	422	377	308
100	1259	445	374	334	273
200	1122	396	333	297	243
300	1004	355	298	266	217
400	902	319	268	239	195
500	812	287	241	215	176
600	733	259	218	194	159
700	663	234	197	176	143
800	601	212	178	159	130
900	545	192	162	144	118
1000	494	175	147	131	107

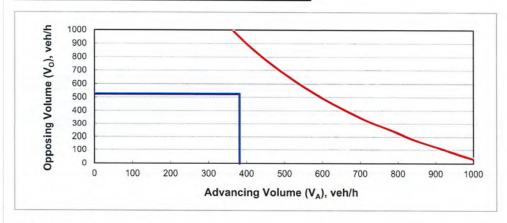
#### INPUT

Variable	Value
Major Approach	NY-77 @ Proposed Southerly Dwy
Approach	Northbound (PM Peak) - Phase 3
Design Speed Limit - MPH	50
Percent of left-turns in advancing volume (V <sub>A</sub> ), %:	2%
Advancing volume (V <sub>A</sub> ), veh/h:	382
Opposing volume (V <sub>o</sub> ), veh/h:	528

#### **CALIBRATION CONSTANTS**

Variable	Value
Average time for making left-turn, s:	3.0
Critical headway, s:	5.0
Average time for left-turn vehicle to clear the advancing lane, s:	1.9

PLOT - LINE 1		PLOT - LINE 2	
0	528	382	0
382	528	382	528



#### OUTPUT

Variable	Value					
Limiting advancing volume (V <sub>A</sub> ), veh/h:	584					
Guidance for determining the need for a major-road left-tur	rn bay:					
Northbound (PM Peak) - Phase 3 Left-turn treatment NOT w	varranted at NY-77 @ Proposed Southerly Dw					

ρ 0.015 f = 0.79 Wait Time 2.377 s Service Rate 831 veh/h Arrival Rate 584 veh/h

Vo	Time_tw
0	0.0
100	0.4
200	0.8
300	1.2
400	1.7
500	2.2
600	2.8
700	3.5
800	4.2
900	5.0
1000	5.8

Vo	Serv_rate
0	1200
100	1121
200	1046
300	976
400	910
500	848
600	789
700	735
800	683
900	635
1000	590

% LT veh.	2%	10%	15%	20%	40%
Vo	VA	VA	VA	VA	VA
0	1053	503	422	377	308
100	932	445	374	334	273
200	830	396	333	297	243
300	743	355	298	266	217
400	667	319	268	239	195
500	601	287	241	215	176
600	543	259	218	194	159
700	491	234	197	176	143
800	445	212	178	159	130
900	403	192	162	144	118
1000	366	175	147	131	107

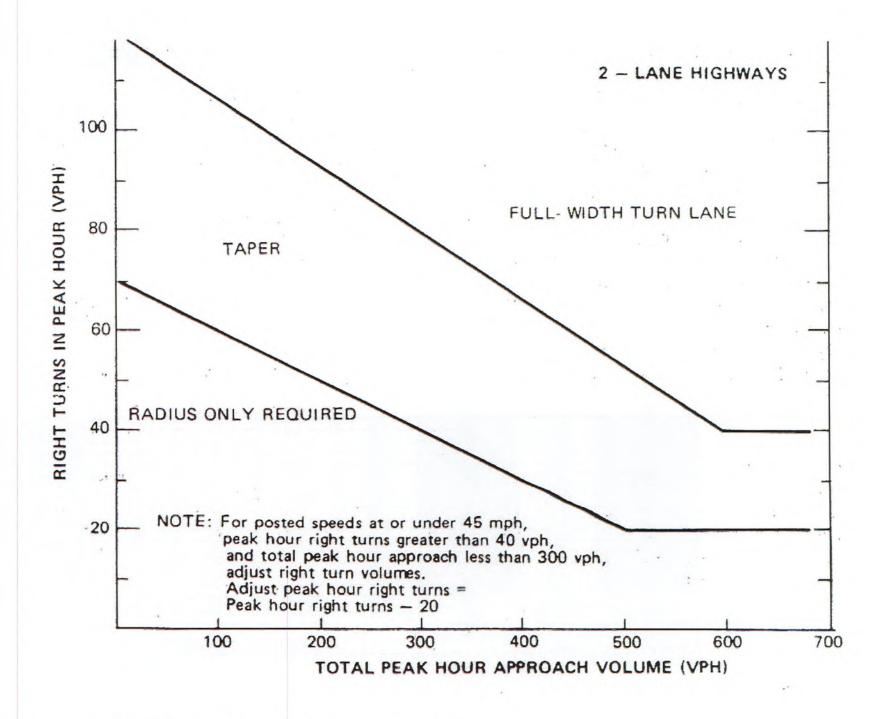


Figure 7: Cottrell's Two Lane Right Turn Treatment

#### **Traffic Signal Warrant Analysis**

NY-77/Vision Parkway/Proposed Access - Phase 1 Conditions Town of Pembroke, Genesee County, NY

				Existing Fluctuation	n in Artery Volumes	3		Exiting Hourly	Total Hourly Volumes				
	lou		per 2017 NYSDOT count on NY-77	per 2017 NYSDOT count on NY-77	per 2017 NYSDOT count on NY-77	Hourly Fluctuation	2025 Phase 3 Artery Volume on NY-77	Fluctuation of ITE LUC 140 - Manufacturing	Exiting Proposed  Southerly Access under  Phase 3 Conditions	Warrant 1 - Condition A (70%)	Warrant 1 - Condition B (70%)	Warrant 2 - 4 hour (70%)	Warrant 3 - Peak hour (70%)
	lou		NB	SB	Two-Way	Two-Way	Total	Total		420/140	630/70	80 vph	100 vph
7:00 AM	to		325	205	530	5.86%	499	2.60%	8	N	N	N	N
3:00 AM	to	9:00 AM	290	192	482	5.33%	454	3.20%	10	N	N	N	N
00 AM	to	10:00 AM	265	231	496	5.48%	467	2.70%	8	N	N	N	N
0:00 AM	to	11:00 AM	292	390	682	7.54%	642	3.00%	9	N	N	N	N
1:00 AM	to	12:00 PM	294	401	695	7.68%	654	3.00%	9	N	N	N	N
2:00 PM	to	1:00 PM	268	321	589	6.51%	555	4.90%	15	N	N	N	N
L:00 PM	to	2:00 PM	287	392	679	7.50%	639	6.30%	19	N	N	N	N
2:00 PM	to	3:00 PM	280	349	629	6.95%	592	6.70%	20	N	N	N	N
3:00 PM	to	4:00 PM	329	381	710	7.84%	669	7.10%	21	N	N	N	N
4:00 PM	to	5:00 PM	388	469	857	9.47%	807	20.60%	62	N	N	N	N N
5:00 PM	to	6:00 PM	332	418	750	8.29%	706	11.50%	35	N	N	N	N
6:00 PM	to	7:00 PM	292	277	569	6.29%	536	9.60%	29	N	N	N	N
7:00 PM	to	8:00 PM	240	200	440	4.86%	414	2.70%	8	N	N	N	N
3:00 PM	to	9:00 PM	225	181	406	4.49%	382	1.50%	5	N	N	N	N
:00 PM	to	10:00 PM	174	114	288	3.18%	271	1.50%	5	N	N	N	N
0:00 PM	to	11:00 PM	158	91	249	2.75%	234	2.10%	6	N	N	N	N
					9,051		8,523		301	0	0	0	0



#### Table 4C-1. Warrant 1, Eight-Hour Vehicular Volume

Condition A-Minimum Vehicular Volume

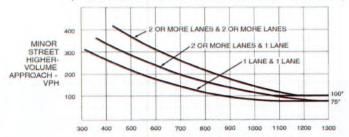
Number of lar traffic on ea	Vehicles per hour on major street (total of both approaches)				Vehicles per hour on higher-volume minor-street approach (one direction only				
Major Street	Minor Street	100%	80%	70%	56%	100%	80%P	70%	56%4
1	1	500	400	350	280	150	120	105	84
2 or more	1	600	480	420	336	150	120	105	84
2 or more	2 or more	600	480	420	336	200	160	140	112
1	2 or more	500	400	360	280	200	160	140	112

Condition B-Interruption of Continuous Traffic

Number of lar traffic on ea	Vehicles per hour on major street (total of both approaches)				Vehicles per hour on higher-volume minor-street approach (one direction only)				
Major Street	Minor Street	100%	80%	70%"	56%4	100%4	80%	70%	56%4
1	1	750	600	525	420	75	60	53	42
2 or more	1	900	720	630	504	75	60	53	42
2 or more	2 or more	900	720	630	504	100	80	70	56
1	2 or more	750	600	525	420	100	80	70	56

- " Basic minimum hourly volume
- \* Used for combination of Conditions A and B after adequate trial of other remedial measures
- May be used when the major-street speed exceeds 40 mph or in an isolated community with a population of less than 10,000
- <sup>9</sup> May be used for combination of Conditions A and B after adequate trial of other remedial measures when the major-streat speed exceeds 40 mph or in an isolated community with a population of less than 10,000

Figure 4C-4. Warrant 3, Peak Hour (70% Factor)
(COMMUNITY LESS THAN 10.000 POPULATION OR ABOVE 40 MPH ON MAJOR STREET)

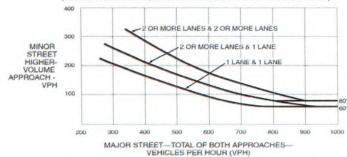


MAJOR STREET...TOTAL OF BOTH APPROACHES... VEHICLES PER HOUR (VPH)

\*Note: 100 vph applies as the lower threshold volume for a minor-street approach with two or more lanes and 75 vph applies as the lower threshold volume for a minor-street approach with one lane.



Figure 4C-2. Warrant 2, Four-Hour Vehicular Volume (70% Factor) (COMMUNITY LESS THAN 10,000 POPULATION OR ABOVE 40 MPH ON MAJOR STREET)



\*Note: 80 vph applies as the lower threshold volume for a minor-street approach with two or more lanes and 60 vph applies as the lower threshold volume for a minor-street approach with one lane.

### **Traffic Signal Warrant Analysis**

NY-77/Vision Parkway/Proposed Access - Phase 3 Conditions Town of Pembroke, Genesee County, NY

			Existing Fluctuation	n in Artery Volumes	;		Exiting Hourly	Total Hourly Volumes				
Hay		per 2017 NYSDOT count on NY-77	per 2017 NYSDOT count on NY-77	per 2017 NYSDOT count on NY-77	Hourly Fluctuation	2032 Phase 3 Artery Volume on NY-77	Fluctuation of ITE LUC 140 - Manufacturing	Exiting Proposed Southerly Access under Phase 3 Conditions	Warrant 1 - Condition A (70%)	Warrant 1 - Condition B (70%)	Warrant 2 - 4 hour (70%)	Warrant 3 Peak hour (70%)
Hou		NB	SB	Two-Way	Two-Way	Total	Total		420/140	630/70	80 vph	
7:00 AM to		325	205	530	5.86%	563	2.60%	16	N	030/70 N	80 Vpri	100 vph
3:00 AM to	01001111	290	192	482	5.33%	512	3.20%	19	N	N	N	N
9:00 AM to	10:00 AM	265	231	496	5.48%	527	2.70%	16	N	N	N	IN
0:00 AM to	11:00 AM	292	390	682	7.54%	724	3.00%	18	N	N	N	N
1:00 AM to	12:00 PM	294	401	695	7.68%	738	3.00%	18	N	N	N	N
2:00 PM to	1:00 PM	268	321	589	6.51%	625	4.90%	30	N	N	N	N
1:00 PM to	2:00 PM	287	392	679	7.50%	721	6.30%	38	N	N	N	N
2:00 PM to	3:00 PM	280	349	629	6.95%	668	6.70%	41	N	N	IN N	N
3:00 PM to	4:00 PM	329	381	710	7.84%	754	7.10%	43	N	N	IN N	N
1:00 PM to	5:00 PM	388	469	857	9.47%	910	20.60%	125	N	IN V	IN V	N
5:00 PM to	6:00 PM	332	418	750	8.29%	796	11.50%	70	N	N.		Y
6:00 PM to	7:00 PM	292	277	569	6.29%	604	9.60%	58	N	N	N	N
:00 PM to	8:00 PM	240	200	440	4.86%	467	2.70%	16	N	IN .	N	N
:00 PM to	9:00 PM	225	181	406	4.49%	431	1.50%	9		IN .	N	N
:00 PM to	10:00 PM	174	114	288	3.18%	306	1.50%	9	N	N	N	N
0:00 PM to	11:00 PM	158	91	249	2.75%	264	2.10%	13	N N	N	N	N
				9,051		9,611	2.10%	607	0	1	N 1	N



## **A3**

## Level of Service: Criteria and Definitions

## **Level of Service Criteria**

## **Highway Capacity Manual 2016**

#### SIGNALIZED INTERSECTIONS

Level of Service is a qualitative measure describing operational conditions within a traffic stream, based on service measures such as speed and travel time, freedom to maneuver, traffic interruptions, comfort, and convenience. Level of Service for signalized intersections is defined in terms of delay specifically, average total delay per vehicle for a 15-minute analysis period. The ranges are as follows:

Level of Service	Control Delay per vehicle (seconds)
А	< 10
В	10 - 20
С	20 - 35
D	35 - 55
Е	55 - 80
F	>80

### **UNSIGNALIZED INTERSECTIONS**

Level of Service for unsignalized intersections is also defined in terms of delay. However, the delay criteria are different from a signalized intersection. The primary reason for this is driver expectation that a signalized intersection is designed to carry higher volumes than an unsignalized intersection. The total delay threshold for any given Level of Service is less for an unsignalized intersection than for a signalized intersection. The ranges are as follows:

Level of Service	Control Delay per vehicle (seconds)
Α	< 10
В	10 - 15
С	15 - 25
D	25 - 35
E	35 - 50
F	>50

## A4

## Level of Service Calculations: Existing Conditions

Lanes, Volumes, Timings

1: NY-77 (Alleghany Road) & NYS Thruway (Exit 48A)

2022 Existing AM 09/22/2022

	1	*	1	1	1	4	
Lane Group	EBL	EBR	NBL	NBT	SBT	SBR	
Lane Configurations	*	#	*	<b>†</b>	41		
Traffic Volume (vph)	96	182	338	90	135	202	All the section of the section of the section
Future Volume (vph)	96	182	338	90	135	202	
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	The state of the s
Storage Length (ft)	0	0	250		1000	0	
Storage Lanes	1	NEED BAS	1	Marin St	Valority is a	0	
Taper Length (ft)	25		150	120			
Lane Util. Factor	1.00	1.00	1.00	1.00	0.95	0.95	Sales and a state of the service and
Frt	1100	0.850	1100	1.00	0.910	0.00	
Flt Protected	0.950	0.000	0.950		0.010	N. Services	Control of the Contro
Satd. Flow (prot)	1480	1196	1399	1696	2882	0	
Flt Permitted	0.950	-	0.533	A STATE OF	2002	Name of Street, or other Persons	
Satd. Flow (perm)	1480	1196	785	1696	2882	0	
Right Turn on Red	1400	Yes	700	1000	2002	Yes	
Satd. Flow (RTOR)		198	110	No. of Concession,	220	162	
Link Speed (mph)	30	120	and the same	45	45	25000000	Control of the Contro
Link Distance (ft)	854			973	786		
Travel Time (s)	19.4	A CONTRACTOR AND A CONT	THE SOLE IN	14.7	11.9	A-CONTRACTOR OF	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	
Heavy Vehicles (%)	22%	35%	29%	12%	8%		
Adj. Flow (vph)	104	198	367	98	147	18%	
	104	190	307	96	14/	220	
Shared Lane Traffic (%)	104	198	367	98	207		
Lane Group Flow (vph) Enter Blocked Intersection	No.	198 No			367	0	
			No	No	No	No	
Lane Alignment	Left	Right	Left	Left	Left	Right	
Median Width(ft)	12	-	2014	12	12	Section 1	
Link Offset(ft)	0		March 14	0	0		
Crosswalk Width(ft)	16			16	16		
Two way Left Turn Lane					-		
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	
Turning Speed (mph)	15	9	15	***		9	
Turn Type	Prot	pm+ov	pm+pt	NA	NA		
Protected Phases	4	5	5	2	6		
Permitted Phases	514,547	4	2				
Detector Phase	4	5	5	2	6		
Switch Phase	The Con-	Same of			Sept 18		
Minimum Initial (s)	6.0	6.0	6.0	6.0	6.0	of Constant	
Minimum Split (s)	22.5	12.0	12.0	22.5	22.5		
Total Split (s)	30.0	25.0	25.0	55.0	30.0		
Total Split (%)	35.3%	29.4%	29.4%	64.7%	35.3%		Manager Committee of the
Maximum Green (s)	24.0	19.0	19.0	49.0	24.0		
Yellow Time (s)	4.0	4.0	4.0	4.0	4.0		
All-Red Time (s)	2.0	2.0	2.0	2.0	2.0		
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	100	
Total Lost Time (s)	6.0	6.0	6.0	6.0	6.0		
Lead/Lag		Lag	Lag		Lead	A DESCRIPTION OF THE PERSON OF	
Lead-Lag Optimize?		Yes	Yes		Yes		
Vehicle Extension (s)	2.0	1.0	1.0	1.0	2.0	Name of Street,	
Recall Mode	None	None	None	None	None		

Pembroke Industrial Park Passero Associates

Synchro 11 Report Page 1

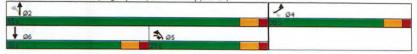
Lanes, Volumes, Timings 1: NY-77 (Alleghany Road) & NYS Thruway (Exit 48A)

2022 Existing AM 09/22/2022

	-	1	1	Ť	+	4
Lane Group	EBL	EBR	NBL	NBT	SBT	SBR
Act Effct Green (s)	8.4	22.3	29.6	33.4	8.1	
Actuated g/C Ratio	0.19	0.51	0.68	0.76	0.18	
v/c Ratio	0.36	0.28	0.50	0.08	0.52	
Control Delay	23.4	2.0	10.2	4.5	11.5	
Queue Delay	0.0	0.0	0.0	0.0	0.0	
Total Delay	23.4	2.0	10.2	4.5	11.5	
LOS	C	A	В	A	В	PARTICIPATION OF THE PROPERTY
Approach Delay	9.4			9.0	11.5	
Approach LOS	A		344	A	В	PART THE PROPERTY OF THE PARTY
Queue Length 50th (ft)	28	0	47	10	20	
Queue Length 95th (ft)	72	19	113	29	58	
Internal Link Dist (ft)	774			893	706	
Turn Bay Length (ft)	Marine S	1	250		Z E	
Base Capacity (vph)	908	855	907	1603	1854	
Starvation Cap Reductn	0	0	0	0	0	
Spillback Cap Reductn	0	0	0	0	0	
Storage Cap Reductn	0	0	0	0	0	
Reduced v/c Ratio	0.11	0.23	0.40	0.06	0.20	
Internation Common	THE RESERVE OF THE PERSON NAMED IN	AND DESCRIPTION OF	- CONTRACT	William Street		

Area Type: Other
Cycle Length: 85
Actuated Cycle Length: 43.8
Natural Cycle: 60
Control Type: Actuated-Uncoordinated
Maximum vic Ratic: 0.52
Length: 61
Le Intersection Signal Delay: 9.9 Intersection Capacity Utilization 49.3% Intersection LOS: A ICU Level of Service A Analysis Period (min) 15

Splits and Phases: 1: NY-77 (Alleghany Road) & NYS Thruway (Exit 48A)



Pembroke Industrial Park Passero Associates

Synchro 11 Report Page 2

2022 Existing AM 09/22/2022

Lanes, Volumes, Timings 2: NY-77 (Alleghany Road) & Flying J Truck Access

	1	*	1	†	1	1	
Lane Group	EBL	EBR	NBL	NBT	SBT	SBR	
Lane Configurations	7	*	7	4	<b>1</b>		
Traffic Volume (vph)	53	4	2	353	243	42	
Future Volume (vph)	53	4	2	353	243	42	
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	
Storage Length (ft)	0	0	440			0	
Storage Lanes	1	1	-		46	0	
Taper Length (ft)	25		130				
Lane Util, Factor	1.00	1.00	1.00	1.00	0.95	0.95	CARL CONTRACTOR OF THE PARTY OF
Frt		0.850			0.978		
Fit Protected	0.950		0.950	- ALCOHOL	THE REAL PROPERTY.	PER STATE	
Satd. Flow (prot)	912	808	902	1696	2802	0	
Flt Permitted	0.950	No.	0.950	Service .		HALL THE PARTY	
Satd. Flow (perm)	912	808	902	1696	2802	0	
Link Speed (mph)	10	-	NAME OF STREET	45	45	GOTHER SHA	
Link Distance (ft)	888	-		664	973		
Travel Time (s)	60.5	-	S-3 S-10	10.1	14.7	No Francis	
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96	
Heavy Vehicles (%)	98%	100%	100%	12%	14%	95%	A CONTRACTOR OF STREET MANAGEMENT AND
Adj. Flow (vph)	55	4	2	368	253	44	
Shared Lane Traffic (%)	HORNES	NAME OF TAXABLE	Parent Ser	No.	CALCULATION OF THE PARTY OF THE	TATION NO.	Control of the second second second
Lane Group Flow (vph)	55	4	2	368	297	0	
Enter Blocked Intersection	No	No	No	No	No	No	A Place of the second of the second of
Lane Alignment	Left	Right	Left	Left	Left	Right	
Median Width(ft)	12		United States	12	12	SECTION S.	
Link Offset(ft)	0		A PROPERTY OF	0	0	A CONTRACTOR OF THE PARTY OF TH	
Crosswalk Width(ft)	16	THE SECTION		16	16	a to end to	
Two way Left Turn Lane						and the second	
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	
Turning Speed (mph)	15	9	15	.,,00		9	
Sign Control	Stop			Free	Free		
Intersection Summary		A STATE OF					
Area Type: (Control Type: Unsignalized	Other				1000	-	

Control Type: Unsignalized Intersection Capacity Utilization 28.6% Analysis Period (min) 15

ICU Level of Service A

Pembroke Industrial Park Passero Associates

Synchro 11 Report Page 3 HCM 6th TWSC

2: NY-77 (Alleghany Road) & Flying J Truck Access

2022 Existing AM 09/22/2022

Intersection	100	66.68			See No.		
nt Delay, s/veh	1.7						
Movement	EBL	EBR	NBL	NBT	SBT	SBR	
Lane Configurations	7	7	7	1	17-	- Control of	
Traffic Vol. veh/h	53	4	2	353	243	42	
Future Vol. veh/h	53	4	2	353	243	42	
Conflicting Peds, #/hr	0	0	0	0	0	0	
Sign Control	Stop	Stop	Free	Free	Free	Free	
RT Channelized	MANA				1100	None	
Storage Length	0	0	440	-			
Veh in Median Storage	# 0	MARKET N	4	0	0	NEED TO SEE	
Grade, %	0		-	0	0		
Peak Hour Factor	96	96	96	96	96	96	
Heavy Vehicles, %	98	100	100	12	14	95	
Mymt Flow	55	4	2	368	253	44	
			-	500	200		
	Vinor2		Major1		Vlajor2		
Conflicting Flow All	647	149	297	0		0	
Stage 1	275				275		
Stage 2	372	-		-	-	-	
Critical Hdwy	8.07	8.4	5.6				
Critical Hdwy Stg 1	7.27	-	-	-		-	
Critical Hdwy Stg 2	6.87				1	TE S	
Follow-up Hdwy	4.431	4.25	3.15	-	-	-	
Pot Cap-1 Maneuver	276	652	818				
Stage 1	550	-		-		-	
Stage 2	498			FIELE		1	
Platoon blocked, %				-	-	-	
Mov Cap-1 Maneuver	275	652	818	1000	-	15,72	
Mov Cap-2 Maneuver	275	-	-	-	-	-	
Stage 1	549		1	BY INC.	1001	Est las	
Stage 2	498	-			-	-	
		ALC: N		151010		Na Cale	
Approach	EB		NB		SB		
HCM Control Delay, s	20.6		0.1	Contract of	0		
HCM LOS	20.0 C		U.I		U	de la co	
HOW LOS	22224	BAS OF	Albertail	MEDICINE ME	ATTERNATION OF THE PERSON OF T	the state of	
		618/25			CHARLE		
Minor Lane/Major Mvm	ıt	NBL	NBT	EBLn1		SBT	
Capacity (veh/h)		818	-	275	652		
HCM Lane V/C Ratio		0.003		0.201	0.006	-	
HCM Control Delay (s)		9.4	177	21,4	10.6		
HCM Lane LOS		A		C	В		
HCM 95th %tile Q(veh	Paralle .	0	STEE	0.7	0	- UN-ATTE	

Pembroke Industrial Park Passero Associates

Synchro 11 Report Page 4

2022 Existing AM 09/22/2022

Lanes, Volumes, Timings 4: NY-77 (Alleghany Road) & Vision Parkway

	1	*	†	-	1	1		
Lane Group	WBL	WBR	NBT	NBR	SBL	SBT		V-700
Lane Configurations	W		T.			44		-
Traffic Volume (vph)	0	5	353	7	2	251		4500
Future Volume (vph)	0	5	353	7	2	251		ALCON,
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900		W 12
Lane Util. Factor	1.00	1.00	1.00	1.00	0.95	0.95		
Frt	0.865	TIME	0.998	1000	STREET, SQUARE		All of the second superiors to the second	0.70
Flt Protected				-				STREET, ST.
Satd. Flow (prot)	1644	0	1667	0	0	3089	all market have a second control of	20000
Flt Permitted				-				en la maria
Satd. Flow (perm)	1644	0	1667	0	0	3089	COLDENS COLD SECTION	El miles
Link Speed (mph)	30		45		1	45		
Link Distance (ft)	873	E PER	403			478	CARLEST TO THE STREET STREET	Silve
Travel Time (s)	19.8	-	6.1			7.2		o estable
Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94	Control of the second second second	270
Heavy Vehicles (%)	0%	0%	14%	0%	0%	17%		3611.5
Adj. Flow (vph)	0	5	376	7	2	267		UK SAI
Shared Lane Traffic (%)		NAME OF STREET			-			
Lane Group Flow (vph)	5	0	383	0	0	269		No.
Enter Blocked Intersection	No	No	No	No	No	No		and the same
Lane Alignment	Left	Right	Left	Right	Left	Left	A CONTRACTOR OF THE PROPERTY OF	CATAL S
Median Width(ft)	12		0	rogin	- Lon	0		
Link Offset(ft)	0	SUSSIEM.	0		33/6 Feb.	0	and the Mark Street	No.
Crosswalk Width(ft)	16	THE REAL PROPERTY.	16	The latest and the la	NE POLICE	16		
Two way Left Turn Lane	FIL - 402/50		SENSON		ALC: N	AND DESCRIPTION OF THE PERSON NAMED IN	Colored Colored Colored	324
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00		
Turning Speed (mph)	15	9	SUBSTRUCT	9	15	THE REAL PROPERTY.		San San
Sign Control	Stop		Free		10	Free		September 1
Intersection Summary					TENE 12	TOTAL SE		5539
	Other							
Control Type: Unsignalized			Walter.	Section 1	Park S	STATE OF THE PARTY.		News I
Intersection Capacity Utilizat	ion 29.0%			IC	U Level	of Service A		Des Hall
Analysis Period (min) 15	Witness !	1	PART AND	ACCUPATION.	THE PARTY OF	A PERSONAL PROPERTY.	STATE WATER STREET	Name of

Pembroke Industrial Park

Passero Associates

Synchro 11 Report Page 5

HCM 6th TWSC 4: NY-77 (Alleghany Road) & Vision Parkway

2022 Existing AM 09/22/2022

Intersection		Sea House	450	25/03/2		NAME OF TAXABLE PARTY.
Int Delay, s/veh	0.1					
Movement	WBL	WBR	NDT	NBR	OD!	ODT
Lane Configurations		WBK	NBT	MEK	SBL	SBT
Traffic Vol. veh/h	7	5	1	7	No.	44
			353		2	251
Future Vol, veh/h	0	5	353	7	2	251
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized		None		None		None
Storage Length	0				-	-
Veh in Median Storage,			0		-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	94	94	94	94	94	94
Heavy Vehicles, %	0	0	14	0	0	17
Mvmt Flow	0	5	376	7	2	267
						Million William
Major/Minor N	Ainor1		Najor1	W 100 PM	Major2	-
Conflicting Flow All	518	380	0	0	383	0
Stage 1	380	300	OF THE REAL PROPERTY.	-		U
Stage 2	138				SELF FATOR	
Critical Hdwy	6.6	6.2	-	-		
					4.1	-
Critical Hdwy Stg 1	5.4	-		-	-	-
Critical Hdwy Stg 2	5.8		-9.64	Contract of		
Follow-up Hdwy	3.5	3.3		-	2.2	-
Pot Cap-1 Maneuver	506	671	1.50		1187	
Stage 1	696	-		-	-	-
Stage 2	880		-	1000		11 513
Platoon blocked, %			-			-
Mov Cap-1 Maneuver	505	671	999	22.19	1187	Min Bo
Mov Cap-2 Maneuver	505	-		-	-	
Stage 1	696	Clark.	-	350 AU	S COLUMN	LEO BETTA
Stage 2	878			-	COLUMN TO A STATE OF THE PARTY	
active land of the land of	2210	i di ga	100	THE REAL PROPERTY.	MANUEL S	Inches 2
		diam'r		and the same of	COLUMN TO SERVICE AND ADDRESS OF THE PERSON NAMED IN COLUMN TO SERVICE AND ADDRESS OF	and the same
Approach	WB	5	NB		SB	
HCM Control Delay, s	10.4		0		0.1	
HCM LOS	В					
	175					
Minor Lane/Major Mymt	-	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)		1101	NON		1187	301
HCM Lane V/C Ratio				0.008		
HCM Control Delay (s)	200		WEST 2		0.002	
HCM Lane LOS			THE REAL PROPERTY.			0
	CONTRACT OF THE PARTY OF THE PA	-		В	A	Α
HCM 95th %tile Q(veh)		ALC: U	-	0	0	STORY.

Pembroke Industrial Park Passero Associates

Lanes, Volumes, Timings 5: NY-77 (Alleghany Road) & NY-5 (Main Street) 2022 Existing AM 09/22/2022

	1	$\rightarrow$	-	1	<b>←</b>	1	1	†	-	-	+	1
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	7	1-		*	1.		*	1.		ሻ	1.	
Traffic Volume (vph)	84	136	71	98	118	60	65	207	57	23	183	43
Future Volume (vph)	84	136	71	98	118	60	65	207	57	23	183	43
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (ft)	100		0	300		0	260	100000000000000000000000000000000000000	0	325	market in the latest	0
Storage Lanes	1	C-Int	0	1	- The second	0	1		0	1	STATE OF THE PARTY	0
Taper Length (ft)	100			115			100	The section of the se		100	- Control of the Cont	
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Frt		0.949	-		0.949		THE RESERVED OF	0.968			0.971	Charles Sales
Flt Protected	0.950		1	0.950	145-145	SHAPE ST	0.950	The later	140-11	0.950	I TO ELLEN	- Children
Satd. Flow (prot)	1583	1707	0	1612	1605	0	1752	1793	0	1388	1602	0
Flt Permitted	0.613		CONTRACTOR OF THE PARTY OF THE	0.592	A Dido		0.578		C HORS	0.553	SERVICE SERVICE	in si
Satd. Flow (perm)	1022	1707	0	1004	1605	0	1066	1793	0	808	1602	0
Right Turn on Red	55 P. C.	THE REAL PROPERTY.	Yes	-	-	Yes	Separate Chi		Yes		MITTER ST	Yes
Satd. Flow (RTOR)		36			36			24		AND THE RE	21	100
Link Speed (mph)	A PARTY	45			45		CONTRACTOR OF	45		THE OWNER	45	000000
Link Distance (ft)	The state of the s	776			1602			801			698	Stall of the
Travel Time (s)	SERVICE OF	11.8		STEELS.	24.3	A Charles	THE REAL PROPERTY.	12.1		PROPERTY	10.6	Seatte
Peak Hour Factor	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76
Heavy Vehicles (%)	14%	7%	3%	12%	11%	15%	3%	0%	12%	30%	15%	16%
Adj. Flow (vph)	111	179	93	129	155	79	86	272	75	30	241	57
Shared Lane Traffic (%)	NAME OF TAXABLE PARTY.	BERNAL SE	arda box	SCHOOL S	NAME OF TAXABLE PARTY.	CARLES A		ATT AND A STATE OF	15	20	SUBSCIENCE.	THE PARTY
Lane Group Flow (vph)	111	272	0	129	234	0	86	347	0	30	298	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)	CONT.	12	Nagric .	- CON	12	ragin	Lon	12	ragin	Leit	12	Rigiti
Link Offset(ft)		0	00/13/0-25		0	100		0		STATE OF THE PARTY OF	0	No.
Crosswalk Width(ft)		16	SOLD THE	To A William	16	La Series	STATE OF THE PARTY	16			16	
Two way Left Turn Lane	Service Services	Yes			10			10	de le		10	
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	15	1.00	9	15	1.00	9	15	1.00	9	15	1.00	1.00
Turn Type	Perm	NA	DESCRIPTION OF THE PERSON OF T	Perm	NA	9	Perm	NA	9	Perm	NA	y
Protected Phases	FEIII	1	4	reilli	INA.		Perm	3		Perm	NA 3	
Permitted Phases	200 00 00 10 10 10 10 10 10 10 10 10 10 1	2000	ACCUPATION OF	OSSESSATI			3	3	ROGERA	3	3	CONTRACTOR OF THE PARTY.
Detector Phase	1	1	1500	1	1		3	3	11/2	3	3	
Switch Phase	BROWN DISC	THE PERSON IN	312800		ANGELO C	a Double	3	NAME OF TAXABLE PARTY.	aut.ann.	THE REAL PROPERTY.	HISTORY	NAME OF TAXABLE
Minimum Initial (s)	10.0	10.0		10.0	10.0		10.0	10.0	25.2	10.0	10.0	
Minimum Split (s)	24.5	24.5	GUSCHA	24.5	24.5	ALIGNOPHI .	24.5	24.5	and the same	24.5	24.5	
Total Split (s)	35.0	35.0		35.0	35.0	A CONTRACTOR OF THE PARTY OF TH	45.0	45.0		45.0	45.0	
Total Split (%)	43.8%	43.8%	TO SHEET STATES	43.8%	43.8%	and the latest and th	56.3%	56.3%	The state of the s	56.3%	56.3%	SALES NO.
Maximum Green (s)	28.5	28.5	To a second	28.5	28.5		38.5	38.5	- Andrew	38.5	38.5	
Yellow Time (s)	5.0	5.0	TO BENEFIT	5.0	5.0	in a second	5.0	5.0		5.0	5.0	
All-Red Time (s)	1.5	1.5	MARINE !	1.5	1.5		1.5	1.5		1.5	1.5	1
Lost Time Adjust (s)	0.0	0.0	645 151	0.0	0.0	and and since	0.0	0.0	ALC: NO	0.0	0.0	
Total Lost Time (s)	6.5	6.5		6.5	6.5		6.5	6.5		6.5	6.5	45.00
Lead/Lag	0.0	0.0	ARREST	0.0	0.0		0.5	0.0	THE REAL PROPERTY.	0.5	0.0	Carly and
Lead-Lag Optimize?	and the later	TO CHARLES	10000		No. of the last	a god ta to f	North State			HI PAYER		Table:
Vehicle Extension (s)	3.0	3.0	Section (4)	3.0	3.0	-	4.0	4.0	Olected Street	4.0	4.0	and in Females
Recall Mode	None	None		None	None		None			STATE OF THE PERSON.		7
Trecam Mode	None	None		None	None		None	None		None	None	

Pembroke Industrial Park Passero Associates Synchro 11 Report Page 7 Lanes, Volumes, Timings 5: NY-77 (Alleghany Road) & NY-5 (Main Street)

2022 Existing AM 09/22/2022

	,	-	1	1	-	1	1	1	-	1	1	1
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Act Effct Green (s)	13.9	13.9		13.9	13.9	Services.	16.4	16.4	All Lines ber	16.4	16.4	
Actuated g/C Ratio	0.32	0.32		0.32	0.32		0.37	0.37		0.37	0.37	WENT TO
v/c Ratio	0.34	0.48	7 . 3	0.41	0.44	NO.	0.22	0.51	HAMMA	0.10	0.49	PERMIT
Control Delay	16.4	14.6		17.7	14.0	West Williams	11.6	13.2		10.7	13.3	N. SECOND
Queue Delay	0.0	0.0		0.0	0.0	255	0.0	0.0	Emilia de	0.0	0.0	Carlo Maria
Total Delay	16.4	14.6		17.7	14.0	MANAGEMENT OF THE PARTY OF THE	11.6	13.2		10.7	13.3	Nacional Property of the Parket
LOS	В	В	55	В	В		В	В	WHO WAS	В	В	O-LONG
Approach Delay		15.1			15.3	OLUNIO DEL COMO	No. of Concession, Name of Street, or other Designation, Name of Street, or other Designation, Name of Street,	12.9			13.0	-
Approach LOS	Name of the least	В	TO PER	-	В	2490	MARKET THE	В	STATE OF THE PARTY	NAME OF TAXABLE	B	SAME OF
Queue Length 50th (ft)	20	43		23	35	Photo Production	12	52		4	45	NO SEC
Queue Length 95th (ft)	54	97	STATE OF	61	83	SERVICE N	37	113	MET TO SEE SHIP	17	100	FIRST
Internal Link Dist (ft)	THE REAL PROPERTY.	696		The same of the last	1522	Control of the last		721	-		618	
Turn Bay Length (ft)	100		A TOP OF	300			260		HOLESTON !	325	NAME OF TAXABLE PARTY.	older o
Base Capacity (vph)	697	1176	-	685	1106		927	1562		703	1396	
Starvation Cap Reductn	0	0		0	0	THE REAL PROPERTY.	0	0		0	0	NAME OF
Spillback Cap Reductn	0	0		0	0		0	0	DATE: CONTROL OF	0	0	Lebo .
Storage Cap Reductn	0	0	17711	0	0	TANK!	0	0	AGENCY NO	0	0	Hillian
Reduced v/c Ratio	0.16	0.23	No.	0.19	0.21	Charles and	0.09	0.22	- Seen Gray	0.04	0.21	

Area Type: Other
Cycle Length: 80
Actuated Cycle Length: 44.1
Natural Cycle: 50
Control Type: Actuated-Uncoordinated
Maximum v/c Ratio: 0.51
Intersection Signal Delay: 14.1
Intersection LOS: B
Intersection Capacity Utilization 64.2%
Analysis Period (min) 15

Splits and Phases: 5: NY-77 (Alleghany Road) & NY-5 (Main Street)





Pembroke Industrial Park Passero Associates

Lanes, Volumes, Timings 6: Brickhouse Road & NY-5 (Main Street)

2022 Existing AM 09/22/2022

	$\rightarrow$	1	1	-	1	-			
Lane Group	EBT	EBR	WBL	WBT	NBL	NBR			800
Lane Configurations	10		4	4	*	7			
Traffic Volume (vph)	278	9	15	240	1	100	THE PERSON NAMED IN	Constitution of	al la
Future Volume (vph)	278	9	15	240	1	1		and the second second	HLOSAN.
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	150 (150) (2) (3)		CONTROL OF
Storage Length (ft)		0	120		150	0		MARKET BEFORE	200
Storage Lanes	-	0	ties to	Vinish !		100		THE PARTY	2500
Taper Length (ft)			75		100				MA THE
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	No constitution		REES.
Frt	0.996			AND DESCRIPTION OF THE PERSON		0.850			
Fit Protected		517.5	0.950		0.950			Maria Maria Maria	See les
Satd. Flow (prot)	1772	0	1597	1743	902	808			
Flt Permitted	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	S. 174-183	0.950	Entra Day	0.950	THE PROPERTY.		ALCOHOL: NAME OF TAXABLE	STATE OF
Satd. Flow (perm)	1772	0	1597	1743	902	808			10000
Link Speed (mph)	45	No. of the last	PARTICIPATE OF THE PARTICIPATE O	45	30		Later Section		Sales of
Link Distance (ft)	831			776	817	Anna Control of College	Manual System Street		Darre
Travel Time (s)	12.6	1900	Carried States	11.8	18.6	Salar Salar	The Court of the	AND DESCRIPTION	Carrie I
Peak Hour Factor	0.87	0.87	0.87	0.87	0.87	0.87			
Heavy Vehicles (%)	7%	0%	13%	9%	100%	100%	STATE OF THE PARTY.	THE RESERVE OF THE PARTY OF	CHEN.
Adj. Flow (vph)	320	10	17	276	1	1			
Shared Lane Traffic (%)	SELECTION STATE	THE REAL PROPERTY.	DESCRIPTION OF		CHIEF CONTROL	Name and Address of	Carrier Salaries	CHICAGO MICOLA	Carlos C
Lane Group Flow (vph)	330	0	17	276	1	1			The same of
Enter Blocked Intersection	No	No	No	No	No	No	SOURCE TO SE	CONTRACTOR SAFE	1000
Lane Alignment	Left	Right	Left	Left	Left	Right		Albert and Color of	-50
Median Width(ft)	12	Summer.	MAN GIN	12	12	A STATE OF THE PARTY OF THE PAR	Control of the second	Text of the last	30.03
Link Offset(ft)	0		NAME OF TAXABLE PARTY.	0	0				Name of Street
Crosswalk Width(ft)	16	A - 1-70	ALIEN THE	16	16	9 61 (4.32)	Harris Marie Land	No. of the last of	No. SEN
Two way Left Turn Lane				Yes		A STATE OF THE PARTY OF THE PAR	The same of the sa	Marie Company	
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	MESTINGS OF SALE	CONTRACTOR OF THE PARTY OF THE	
Turning Speed (mph)		9	15		15	9		The state of the s	and the last
Sign Control	Free			Free	Stop				9163
Intersection Summary		STATE			No.				
	Other		155						
Control Type: Unsignalized									and a second
Intersection Capacity Utilizat	ion 25.2%			10	CU Level	of Service A			

Intersection Capacity Utilization 25.2% ICU Level of Serv Analysis Period (min) 15

Pembroke Industrial Park Passero Associates Synchro 11 Report Page 9 HCM 6th TWSC 6: Brickhouse Road & NY-5 (Main Street)

2022 Existing AM 09/22/2022

Intersection			26.21	1	31676		
Int Delay, s/veh	0.3						
Movement	EBT	EBR	WBL	WBT	NBL	NBR	
Lane Configurations	T <sub>2</sub>		*	4	7	7	
Traffic Vol. veh/h	278	9	15	240	1	r	39
Future Vol. veh/h	278	9	15	240	1	1	8
Conflicting Peds, #/hr	0	0	0	240	0	0	
Sign Control	Free	Free	Free	Free	Stop	Stop	
RT Channelized		None	1166		Stup-		
Storage Length	-	-	120	-	150	0	
Veh in Median Storage.	# 0			0	0	Marie I	
Grade. %	0			0	0		
Peak Hour Factor	87	87	87	87	87	87	
Heavy Vehicles, %	7	0	13	9	100	100	
Mymt Flow	320	10	17	276	100	100	
MINITE IOW	320	10	11	210	the config		
	Aajor1		Major2		Minor1		
Conflicting Flow All	0	0	330	0	635	325	
Stage 1		35.14		400	325	Mark Street	
Stage 2		-	-	-	310		
Critical Hdwy	2802	1	4.23	Sec.	7.4	7.2	
Critical Hdwy Stg 1		-	-		6.4	-	
Critical Hdwy Stg 2	100	STOR .	-		6.4		
Follow-up Hdwy	-	-	2.317		4.4	4.2	
Pot Cap-1 Maneuver	100	-	1170		319	538	
Stage 1	-	-			556	-	
Stage 2	STATE OF THE PARTY		-	-	566	and the latest	
Platoon blocked, %	-	-				go Vineda	
Mov Cap-1 Maneuver	THE SE		1170	-	314	538	
Mov Cap-2 Maneuver	-		-	-	314	-	
Stage 1	-	MALES	SUL SU	-	556		
Stage 2	-			u soul	558	COLUMN TO SERVICE	
Cloge 2	-	SALES OF	Name of Street		330	HOAT SHE	
	Maria No.						
Approach	EB		WB		NB	180	
HCM Control Delay, s	0		0.5		14.1		
HCM LOS					В		
	150			100	245		
Minor Lane/Major Mvm		NBLn11	NBLn2	EBT	EBR	WBL	
Capacity (veh/h)	STATE OF THE PARTY.	314	538		and the same	1170	
HCM Lane V/C Ratio			0.002	-		0.015	
HCM Control Delay (s)	-	16.5	11.7	E STATE OF THE STA	PHONE !		
HCM Lane LOS		C	В		-	A	
HCM 95th %tile Q(veh)	ALC: N	0	0		Same Se	0	
HOME SOLLE SOLLE CONTENT			U			U	

Pembroke Industrial Park Passero Associates

2022 Existing PM 09/28/2022

1: NY-77 (Alleghany Road) & NYS Thruway (Exit 48A)

	1	-	1	1	+	1
Lane Group	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	*	7	*	4	414	
Traffic Volume (vph)	201	307	235	144	159	173
Future Volume (vph)	201	307	235	144	159	173
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Storage Length (ft)	0	0	250	1000	1000	0
Storage Lanes	2000	1	250	CERTIFIC	HA SW	0
Taper Length (ft)	25		150		ACCOUNT OF THE PARTY OF	- LO 10
Lane Util, Factor	1.00	1.00	1.00	1.00	0.95	0.95
Frt	1.00	0.850	1.00	1.00	0.922	0.50
Fit Protected	0.950	0.000	0.950	OLIS WAR	0.522	DESTRUCTION OF
Satd. Flow (prot)	1556	1262	1388	1827	2967	0
Fit Permitted	0.950	1202	0.549	1021	2507	S No.
Satd. Flow (perm)	1556	1262	802	1827	2967	0
Right Turn on Red	1550	Yes	002	102/	290/	Yes
	100000	310			175	res
Satd. Flow (RTOR)	30	310	- Carrier and	45	175	
Link Speed (mph)	STATE OF THE PARTY.	1000		45	45	
Link Distance (ft)	854			973	786	and and statement of the
Travel Time (s)	19.4			14.7	11.9	-
Peak Hour Factor	0.99	0.99	0.99	0.99	0.99	0.99
Heavy Vehicles (%)	16%	28%	30%	4%	8%	16%
Adj. Flow (vph)	203	310	237	145	161	175
Shared Lane Traffic (%)						
Lane Group Flow (vph)	203	310	237	145	336	0
Enter Blocked Intersection	No	No	No	No	No	No
Lane Alignment	Left	Right	Left	Left	Left	Right
Median Width(ft)	12	100		12	12	THE PARTY OF
Link Offset(ft)	0			0	0	
Crosswalk Width(ft)	16			16	16	S-1-31
Two way Left Turn Lane				- material di		and the same
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	15	9	15			9
Turn Type	Prot	pm+ov	pm+pt	NA	NA	STATE OF THE PARTY
Protected Phases	4	5	5	2	6	E San
Permitted Phases	AND DESCRIPTION OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUM	4	2	SHIP SHIP SHIP	0	ALC: NAME OF TAXABLE PARTY.
Detector Phase	4	5	5	2	6	The same of the sa
Switch Phase	PERSON		L-HOLLING	Della Principal		
Minimum Initial (s)	6.0	6.0	6.0	6.0	6.0	
Minimum Split (s)	22.5	12.0	12.0	22.5	22.5	Water Street
	30.0	25.0	25.0	55.0	30.0	September 1
Total Split (s)	35.3%	29.4%	29.4%			ORDANIA DE LA CONTRACTOR DE LA CONTRACTO
Total Split (%)	Section 1997			64.7%	35.3%	State of the last
Maximum Green (s)	24.0	19.0	19.0	49.0	24.0	
Yellow Time (s)	4.0	4.0	4.0	4.0	4.0	
All-Red Time (s)	2.0	2.0	2.0	2.0	2.0	
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	
Total Lost Time (s)	6.0	6.0	6.0	6.0	6.0	
Lead/Lag		Lag	Lag	1	Lead	
Lead-Lag Optimize?		Yes	Yes		Yes	
Vehicle Extension (s)	2.0	1.0	1.0	1.0	2.0	Section 2
Recall Mode	None	None	None	None	None	

Pembroke Industrial Park Passero Associates

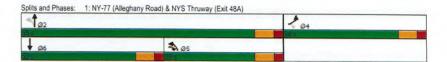
Synchro 11 Report Page 1 Lanes, Volumes, Timings

1: NY-77 (Alleghany Road) & NYS Thruway (Exit 48A)

2022 Existing PM 09/28/2022

	•	1	1	1	+	4
Lane Group	EBL	EBR	NBL	NBT	SBT	SBR
Act Effct Green (s)	10.0	25.3	22.9	22.9	7.6	
Actuated g/C Ratio	0.22	0.56	0.51	0.51	0.17	Annalis William III Carron San Ca
v/c Ratio	0.59	0.37	0.45	0.16	0.52	
Control Delay	24.8	2.1	12.0	6.9	12.8	
Queue Delay	0.0	0.0	0.0	0.0	0.0	SEMIOR SECTION FOR SHOULD SELECT AND
Total Delay	24.8	2.1	12.0	6.9	12.8	
LOS	C	A	В	Α	В	
Approach Delay	11.1			10.1	12.8	
Approach LOS	В	COLUMN TO A	ALTERNATION IN	В	В	
Queue Length 50th (ft)	44	0	31	17	18	
Queue Length 95th (ft)	120	23	80	46	60	
Internal Link Dist (ft)	774			893	706	
Turn Bay Length (ft)		SHARE	250	The later	15 Miles	
Base Capacity (vph)	851	835	845	1760	1702	
Starvation Cap Reductn	0	0	0	0	0	
Spillback Cap Reductn	0	0	0	0	0	
Storage Cap Reductn	0	0	0	0	0	NAME OF THE PARTY
Reduced v/c Ratio	0.24	0.37	0.28	0.08	0.20	
Internation Comment		-	SOUND NO.	-	-	

Intersection Summa	iry	
Area Type:	Other	
Cycle Length: 85	Control of the State of the Sta	
Actuated Cycle Len	gth: 45.3	
Natural Cycle: 60	William Town Street	
Control Type: Actua	ited-Uncoordinated	
Maximum v/c Ratio:	0.59	
Intersection Signal I	Delay: 11.2	Intersection LOS: B
Intersection Capaci	ty Utilization 49.1%	ICU Level of Service A
Analysis Period (mir	n) 15	



Pembroke Industrial Park Passero Associates

2022 Existing PM 09/28/2022

Lanes, Volumes, Timings 2: NY-77 (Alleghany Road) & Flying J Truck Access

	1	1	1	1	1	1		
Lane Group	EBL	EBR	NBL	NBT	SBT	SBR	A SAME OF STREET	
Lane Configurations	*	7	7	4	17-			
Traffic Volume (vph)	41	9	6	281	409	42	THE PROPERTY OF	
Future Volume (vph)	41	9	6	281	409	42		
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	THE REAL PROPERTY.	
Storage Length (ft)	0	0	440	and the second		0	and the same of th	
Storage Lanes	1	1	1	Viet de	T-CHECK	0	A Charles of the Control	Service of the service of
Taper Length (ft)	25		130		THE PERSON NAMED IN			
Lane Util. Factor	1.00	1.00	1.00	1.00	0.95	0.95	AND SHOULD SHOW	STREET, STREET, STREET,
Ped Bike Factor		The second second	The second	and the second				
Frt	SOUTH	0.850	Market Street	HER S	0.986	100000000000000000000000000000000000000	THE STATE OF THE PARTY OF THE P	da Shirt Com
Flt Protected	0.950		0.950	The state of the s				
Satd. Flow (prot)	926	808	1081	1759	3072	0		
Flt Permitted	0.950		0.950					
Satd. Flow (perm)	926	808	1081	1759	3072	0	CHANGE COMM	N. AND DESCRIPTION OF THE PARTY
Link Speed (mph)	10			45	45	the state of the s		
Link Distance (ft)	888		distance of	664	973	and the same of the	Carlot Williams	and the second second
Travel Time (s)	60.5			10.1	14.7			
Confl. Peds. (#/hr)	3	C-SON	CHARLES !	APPENDED TO		A to a Prison	Comments and the	CANADA STATE
Peak Hour Factor	0.93	0.93	0.93	0.93	0.93	0.93		
Heavy Vehicles (%)	95%	100%	67%	8%	8%	93%	A STATE OF THE PARTY OF THE PAR	CONTRACTOR OF THE
Adj. Flow (vph)	44	10	6	302	440	45		
Shared Lane Traffic (%)	Malinia I	THE SAME	SAME OF SAME	STATE OF	Abraha ett	ATTENDANCE OF THE PARTY OF THE	ELECTRIC SERV	and the second
Lane Group Flow (vph)	44	10	6	302	485	0		
Enter Blocked Intersection	No	No	No	No	No	No	And the second second	
Lane Alignment	Left	Right	Left	Left	Left	Right		
Median Width(ft)	12	THE REAL PROPERTY.		12	12	SHIP LINE	AND DESCRIPTIONS	
Link Offset(ft)	0		T. St. College	0	0			
Crosswalk Width(ft)	16		15 10 10 10	16	16	Are and the second	State of the state of	SECTION SECTION
Two way Left Turn Lane								The state of the s
Headway Factor	1.00	1,00	1.00	1.00	1.00	1.00	AND DESCRIPTION	In Contraction In Co.
Turning Speed (mph)	15	9	15			9		
Sign Control	Stop	THE R		Free	Free		NAME OF TAXABLE	
Intersection Summary	HER	100			N. Carrel			
	Other	9	STATE OF	an Shell	Side	Antica de la		
Control Type: Unsignalized								
Intersection Capacity Utilizat	ion 24.8%		12557	10	U Level	of Service A	ALCOHOLD INCH	

Analysis Period (min) 15

Pembroke Industrial Park Passero Associates

Synchro 11 Report Page 3

HCM 6th TWSC

2: NY-77 (Alleghany Road) & Flying J Truck Access

2022 Existing PM 09/28/2022

Int Delay, s/veh	1.5					
Movement	EBL	EBR	AIDI	NIDT	COT	con
acc particle in	ALL PROPERTY.		NBL	NBT	SBT	SBR
Lane Configurations	7	7	7	1	41	-
Traffic Vol., veh/h	41	9	6	281	409	42
Future Vol, veh/h	41	9	6	281	409	42
Conflicting Peds, #/hr	3	The second second	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized		********		None	9	None
Storage Length	0	0	440	-	-	-
Veh in Median Storage		1000	-	ALCOHOLD MALE	0	
Grade, %	0	-	-	0	0	-
Peak Hour Factor	93	93	93	93	93	93
Heavy Vehicles, %	95	100	67	8	8	93
Mvmt Flow	44	10	6	302	440	45
	-			Name and Address of the Owner, where the Owner, which is the Owner, which is the Owner, where the Owner, which is the Owner, which i		
Major/Minor	Minor2		Maior1	1	Major2	The work was
Conflicting Flow All	780	243	485	0		0
Stage 1	463	243	400	0	-	
Stage 2	317	The second				
Critical Hdwy	8.025		-		-	-
			5.105	1	100	
Critical Hdwy Stg 1	7.225		-	-		
Critical Hdwy Stg 2	6.825				C. Strain	
	4.4025		2.8365		-	-
Pot Cap-1 Maneuver	223	553	768			15.0
Stage 1	423	-	-	-		-
Stage 2	541	2015				-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	221	553	768	15 S. S.		ENT-4
Mov Cap-2 Maneuver	221			-	-	
Stage 1	420	-	TO PERSON	SACRE		190
Stage 2	541	-		-	-	-
Eleberate Sant		art page 1	- British		THE REAL PROPERTY.	
		Comments in				SURVING !
Approach	EB		NB		SB	
HCM Control Delay, s	22.8		0.2		0	
HCM LOS	С					
			T. B		755 217	
Minor Lane/Major Mvm	ıt	NBL	NBT	EBLn1	EBLn2	SBT
Capacity (veh/h)		768	LONG IN		553	1885
HCM Lane V/C Ratio	The owner, where	0.008		0.199		CHOICE OF
HCM Control Delay (s)	Charles	9.7	1000		11.6	
HCM Lane LOS	200	A	-	20.0 D	B	
HCM 95th %tile Q(veh	Name of Street	0			0.1	-
TOW SOUL YOUR OLVER		0		0.7	0.1	-0.00

Pembroke Industrial Park Passero Associates

2022 Existing PM 09/28/2022

Lanes, Volumes, Timings 4: NY-77 (Alleghany Road) & Vision Parkway

	1	1	1	-	1	+		
Lane Group	WBL	WBR	NBT	NBR	SBL	SBT		7.05
Lane Configurations	W		T <sub>a</sub>			44		
Traffic Volume (vph)	0	1	282	0	0	414	CHICAGO	1
Future Volume (vph)	0	1	282	0	0	414		
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900		
Lane Util. Factor	1.00	1.00	1.00	1.00	0.95	0.95		
Frt	0.865		-		21-2			STATE OF
Flt Protected								
Satd. Flow (prot)	1644	0	1759	0	0	3282		
FIt Permitted						-		
Satd. Flow (perm)	1644	0	1759	0	0	3282		583
Link Speed (mph)	30		45			45		
Link Distance (ft)	873	100000	403	ALC: N		478	The State of the S	ă
Travel Time (s)	19.8		6.1			7.2		
Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94	SAN SERVICE	
Heavy Vehicles (%)	0%	0%	8%	0%	0%	10%		
Adj. Flow (vph)	0	1	300	0	0	440	A THE RESERVE	
Shared Lane Traffic (%)								
Lane Group Flow (vph)	1	0	300	0	0	440	TO THE REAL PROPERTY.	
Enter Blocked Intersection	No	No	No	No	No	No		
Lane Alignment	Left	Right	Left	Right	Left	Left	A STATE OF THE STA	
Median Width(ft)	12	9	0	9		0		
Link Offset(ft)	0		0	CONTRACT OF	Total Control	0	STORY OF THE	
Crosswalk Width(ft)	16	The second	16			16		
Two way Left Turn Lane	Control of		CHAR	Stoken		NEW YORK	200	Š
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00		
Turning Speed (mph)	15	9	-	9	15			8
Sign Control	Stop		Free			Free		
Intersection Summary	CHARLES AND	No. of London	e constant	Chicago Consultation		CONTRACTOR OF STREET		

Intersection Summary
Area Type: Other
Control Type: Unsignalized
Intersection Capacity Utilization 24.8%
Analysis Period (min) 15

ICU Level of Service A

Pembroke Industrial Park Passero Associates

Synchro 11 Report Page 5 HCM 6th TWSC

4: NY-77 (Alleghany Road) & Vision Parkway

2022 Existing PM 09/28/2022

Intersection			1		of the same	185 - 6B
int Delay, s/veh	0					
Vlovement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	W		1.			414
Traffic Vol., veh/h	0	1	282	0	0	414
Future Vol., veh/h	0	1	282	0	0	414
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized		None	Since of		BINUS S	None
Storage Length	0	-	-	-		
Veh in Median Storage.		0.00	0	es.V.		0
Grade. %	0	-	0	TENEDE.		0
Peak Hour Factor	94	94	94	94	94	94
Heavy Vehicles, %	0	0	8	0	0	10
Mymt Flow	0	1	300	0	0	440
NIVITE FIOW	U		300	U	U	440
Major/Minor N	finor1		Majort	A	Aajor2	194
Conflicting Flow All	520	300	0	0	300	0
Stage 1	300		THE REAL PROPERTY.		-	
Stage 2	220		-	A PROPERTY.		-
Critical Hdwy	6.6	6.2	MESE		4.1	1000000
Critical Hdwy Stg 1	5.4	-	-		-	ATHER DE
Critical Hdwy Stg 2	5.8	Para ma	GEOWEN !	Name of Street	-	-
Follow-up Hdwy	3.5	3.3	0.020	-	2.2	
Pot Cap-1 Maneuver	505	744			1273	
Stage 1	756	744	All the same of			alum 1
Stage 1	802	-	- -	and the same	-	
	002		400	The state of the s		-
Platoon blocked, %	-		-	-	-	-
Mov Cap-1 Maneuver	505	744	-	ATT OF THE OWNER.	1273	
Mov Cap-2 Maneuver	505	-	-			-
Stage 1	756		Fig		TO VA	THE P
Stage 2	802	-		-	-	-
Approach	WB	-	NB	(Contract)	SB	
HCM Control Delay, s	9.8		0		0	
HCM LOS	3.0 A		U		U	CALL
HCW LOS	^	The Park Street	Carlo Ma	anna anna	-	100000
		The state of			CONTRACT.	100
Minor Lane/Major Mvmt		NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)			17.	744	1273	
HCM Lane V/C Ratio		-		0.001		-
HCM Control Delay (s)	YES	No.	100	9.8	0	244
HCM Lane LOS				Α	Α	
HCM 95th %tile Q(veh)	PER STATE	PERMIT	Harana.	0	0	Onlies La

Pembroke Industrial Park Passero Associates

5: NY-77 (Alleghany Road) & NY-5 (Main Street)

2022 Existing PM 09/28/2022

	1	-	*	1	-	4	1	†	-	1	+	1
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	Y	4		*	1.		*	7+		7	1	
Traffic Volume (vph)	72	179	76	46	141	41	51	173	41	67	234	111
Future Volume (vph)	72	179	76	46	141	41	51	173	41	67	234	111
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (ft)	100		0	300		0	260		0	325		0
Storage Lanes	1		0	1	ST STA	0	1	The state of	0	1	WINE LA	0
Taper Length (ft)	100			115			100			100	NAME OF TAXABLE PARTY.	Andrew Carlotte
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Frt		0.955			0.966			0.971			0.952	the same of the same
Flt Protected	0.950		11/11/1	0.950	7 35.56		0.950	To the same	N DE	0.950		
Satd. Flow (prot)	1641	1721	0	1805	1786	0	1736	1714	0	1656	1654	0
Flt Permitted	0.637		Well day	0.594		The same	0.541		1270-0-9	0.618	The same	THE SH
Satd. Flow (perm)	1100	1721	0	1129	1786	0	988	1714	0	1077	1654	0
Right Turn on Red			Yes	1		Yes	ALC: N		Yes	300		Yes
Satd. Flow (RTOR)		30			20		-	20			41	-
Link Speed (mph)		45	TO LEWIS		45	-	100	45	THE PER	Mary Company	45	STORY
Link Distance (ft)		776			1602		and the same	801			698	and an in-
Travel Time (s)		11.8	STORES.	THE !	24.3	-		12.1	ATT SHAW		10.6	SHEET.
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Heavy Vehicles (%)	10%	6%	4%	0%	3%	2%	4%	9%	2%	9%	10%	8%
Adj. Flow (vph)	76	188	80	48	148	43	54	182	43	71	246	117
Shared Lane Traffic (%)			-	1000	-	Cartely	DEVISED.	and the	SHEET STATE	NAME OF STREET	THE SAME	DE ISS
Lane Group Flow (vph)	76	268	0	48	191	0	54	225	0	71	363	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		12		EL TE	12	THE REAL PROPERTY.		12	ALC: N	Park Street	12	THE REAL PROPERTY.
Link Offset(ft)		0			0			0	Section (Section)	ALC: United Billion	0	The state of the state of
Crosswalk Width(ft)		16		Et es	16	7 de la	100	16	KETCHA!	MANAGE TO	16	A11-51
Two way Left Turn Lane		Yes									Miles Children Small	- Commission
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	15		9	15		9	15		9	15		9
Turn Type	Perm	NA	No. of Lot	Perm	NA	100	Perm	NA	THE PARTY	Perm	NA	STOLL)
Protected Phases		1			1		-	3	NO. OF STREET		3	
Permitted Phases	1			1	The same	100	3	15.10	E E I E	3	diam'r.	MINSTER.
Detector Phase	1	1		1	1		3	3		3	3	and the same of th
Switch Phase											4	25
Minimum Initial (s)	10.0	10.0		10.0	10.0		10.0	10.0		10.0	10.0	The state of the s
Minimum Split (s)	24.5	24.5		24.5	24.5		24.5	24.5		24.5	24.5	-
Total Split (s)	35.0	35.0		35.0	35.0		45.0	45.0		45.0	45.0	part of the local
Total Split (%)	43.8%	43.8%		43.8%	43.8%	######################################	56.3%	56.3%	DE WIN	56.3%	56.3%	ATTE OF
Maximum Green (s)	28.5	28.5		28.5	28.5		38.5	38.5		38.5	38.5	
Yellow Time (s)	5.0	5.0		5.0	5.0		5.0	5.0		5.0	5.0	100
All-Red Time (s)	1.5	1.5		1.5	1.5		1.5	1.5		1.5	1.5	
Lost Time Adjust (s)	0.0	0.0	TEREST.	0.0	0.0		0.0	0.0		0.0	0.0	Carlot Control
Total Lost Time (s)	6.5	6.5		6.5	6.5		6.5	6.5		6.5	6.5	
Lead/Lag		Water Co.	CALLES.	THE PARTY		Year I	1985		COLUMN TO A			
Lead-Lag Optimize?												
Vehicle Extension (s)	3.0	3.0		3.0	3.0		4.0	4.0		4.0	4.0	9.32
Recall Mode	None	None		None	None		None	None		None	None	

Pembroke Industrial Park Passero Associates

Synchro 11 Report Page 7

Lanes, Volumes, Timings 5: NY-77 (Alleghany Road) & NY-5 (Main Street)

2022 Existing PM 09/28/2022

	1	$\rightarrow$	1	1	-	*	1	1	-	1	1	1
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Act Effct Green (s)	13.2	13.2	46063	13.2	13.2		16.9	16.9	AHESTONIA S	16.9	16.9	division in
Actuated g/C Ratio	0.30	0.30		0.30	0.30	ALCOHOLD SECTION	0.39	0.39	Mark State S	0.39	0.39	
v/c Ratio	0.23	0.50	Marin I	0.14	0.35	Marie State	0.14	0.33	-	0.17	0.55	
Control Delay	15.2	15.9	NAC SALES AND ADDRESS OF THE PARTY OF THE PA	14.1	13.9	and the state of the latest	10.1	10.2		10.3	12.8	
Queue Delay	0.0	0.0	Section 1	0.0	0.0		0.0	0.0		0.0	0.0	Charles .
Total Delay	15.2	15.9		14.1	13.9	TANK BUTTON	10.1	10.2	Ben Charles	10.3	12.8	-
LOS	В	В	Service .	В	В	SELECTION .	В	В		В	B	W 3 2019
Approach Delay	-	15.7	Allowed Street, and		13.9	The state of the s		10.2			12.4	
Approach LOS		В	NAME OF	PER SON	В	SPECIFIC	SELECT SEC.	В	15 1 No. 14 1	NI EST	В	AND LOS
Queue Length 50th (ft)	13	44	Salara Para Cara	8	30	Secretary Secretary	7	30		10	51	The state of the s
Queue Length 95th (ft)	48	127	SHEW THE	33	91		29	86	U.September	36	142	and the same of
Internal Link Dist (ft)		696		-	1522			721		- 00	618	
Turn Bay Length (ft)	100	1	Mary and Mary	300	Mary No.	The State of	260	and the	- CHICAGO	325	Name and	THE PARTY OF
Base Capacity (vph)	753	1187		772	1228		865	1503	The state of the s	943	1453	NI COLOR
Starvation Cap Reductn	0	0	Talk to	0	0	SALTY SALT	0	0	Land Control	0	0	Marie Seri
Spillback Cap Reductn	0	0		0	0		0	0		0	0	
Storage Cap Reductn	0	0	STATE OF	0	0	STATE OF THE PARTY	0	0	and Sandari	0	0	Service Co.
Reduced v/c Ratio	0.10	0.23	Manager of Column	0.06	0.16		0.06	0.15	and the same of the	0.08	0.25	

Area Type: Other
Cycle Length: 80
Actuated Cycle Length: 43.8
Natural Cycle: 50
Control Type: Actuated-Uncoordinated
Maximum vic Ratio: 0.55

Intersection Signal Delay: 13.1 Intersection Capacity Utilization 71.5% Intersection LOS: B ICU Level of Service C

Analysis Period (min) 15

Splits and Phases: 5: NY-77 (Alleghany Road) & NY-5 (Main Street)





Pembroke Industrial Park Passero Associates

Lanes, Volumes, Timings 6: Brickhouse Road & NY-5 (Main Street)

2022 Existing PM 09/28/2022

	$\rightarrow$	*	1	-	1	-	
Lane Group	EBT	EBR	WBL	WBT	NBL	NBR	A ROSE STORY WHEN THE RESERVE OF THE PROPERTY
Lane Configurations	1.		*	*	7	*	
Traffic Volume (vph)	303	3	2	324	6	16	
Future Volume (vph)	303	3	2	324	6	16	
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	ASSESSMENT OF STREET
Storage Length (ft)		0	120		150	0	
Storage Lanes	Manual Control	0	1	1000	1	1	Contract Statement Street
Taper Length (ft)	and any other trans		75		100		
Lane Util. Factor	1.00	1.00	1.00	1.00	1,00	1.00	Market State
Frt	0.999	No. of Concession, Name of Street, or other Persons, Name of Street, or ot			110000000000000000000000000000000000000	0.850	
Fit Protected		215	0.950	TEXTING 1	0.950		the same of the second section in the second
Satd. Flow (prot)	1754	0	1805	1827	1626	1615	
Flt Permitted	3	W-1-1-61	0.950	SALES AND ADDRESS OF THE PARTY	0.950	STATISTICS.	
Satd. Flow (perm)	1754	0	1805	1827	1626	1615	
Link Speed (mph)	45	THE STATE OF	CALL SALE	45	30		
Link Distance (ft)	831			776	817	and the latest the lat	
Travel Time (s)	12.6	CONT.	745-05	11.8	18.6	100	
Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94	
Heavy Vehicles (%)	8%	33%	0%	4%	11%	0%	the first term of the state of the state of
Adj. Flow (vph)	322	3	2	345	6	17	
Shared Lane Traffic (%)		15-30 Tel	AND DESCRIPTION	H REPLA		Service Service	Company of the second second
ane Group Flow (vph)	325	0	2	345	6	17	
Enter Blocked Intersection	No	No	No	No	No	No	
ane Alignment	Left	Right	Left	Left	Left	Right	
Median Width(ft)	12	- Control of the Cont	No. of Lot	12	12	THE LOT	
Link Offset(ft)	0		THE REAL PROPERTY.	0	0		
Crosswalk Width(ft)	16	AN STREET	-	16	16		
Two way Left Turn Lane				Yes			
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	CONTRACTOR TO THE PARTY OF THE
Turning Speed (mph)		9	15	Service In Section	15	9	
Sign Control	Free		TAX ST	Free	Stop		
Intersection Summary			1000				
Area Type: (	Other			100	ESSE.	0.024.05	
Control Type: Unsignalized							
Intersection Capacity Utilizat	ion 27.1%	#0 P000	PHATE AREA	10	III evel	of Service	A TOTAL CONTRACTOR OF THE PARTY

Pembroke Industrial Park Passero Associates

Synchro 11 Report Page 9 HCM 6th TWSC 6: Brickhouse Road & NY-5 (Main Street)

2022 Existing PM 09/28/2022

Intersection		Sept 5	-	- 40			
Int Delay, s/veh	0.4						
Movement	EBT	EBR	WBL	WBT	NBL	NBR	
Lane Configurations	10		7	4	7	7	and the same of
Traffic Vol. veh/h	303	3	2	324	6	16	- House
Future Vol, veh/h	303	3	2	324	6	16	
Conflicting Peds, #/hr	0	0	0	0	0	0	- NO 500
Sign Control	Free	Free	Free	Free	Stop	Stop	A CHARLES
RT Channelized	-	None		None	5000		NAME OF STREET
Storage Length	-		120	-	150	0	SCHOOL SEC
Veh in Median Storage	# 0	1861		0	0		A SECTION A
Grade, %	0			0	0	-	
Peak Hour Factor	94	94	94	94	94	94	2804
Heavy Vehicles, %	8	33	0	4	11	0	ALCOHOL: N
Mymt Flow	322	3	2	345	6	17	in the same
The second second	-	1000	diam'r.	040	U	41	
	Major1		Major2	_	Minor1	4	
Conflicting Flow All	0	0	325	0	673	324	
Stage 1			THE PARTY		324	155	
Stage 2	-	-	-	-	349	-	
Critical Hdwy	-	ALIVA A	4.1		6.51	6.2	
Critical Hdwy Stg 1	-				5.51		
Critical Hdwy Stg 2	2000	100	-	-	5.51	AND DESCRIPTION OF THE PERSON NAMED IN	Sidery of
Follow-up Hdwy	-		2.2		3.599	3.3	
Pot Cap-1 Maneuver			1246		407	722	THE REAL PROPERTY.
Stage 1				-	713		-
Stage 2	200	1000	THE REAL PROPERTY.		695		IN SHIP
Platoon blocked, %	-	and the later of t	-		000	Control of the	The Control of the Co
Mov Cap-1 Maneuver	TO DO SA	W 200	1246	Bre L	406	722	William Care
Mov Cap-2 Maneuver		No. of Concession, Name of Street, or other Designation, Name of Street, or other Designation, Name of Street,	1240		406	122	-
Stage 1	bene				713	NAME OF	NEWS THE REAL PROPERTY.
Stage 2			-	100	694	-	SHARE
Olaye 2	COLUMN TO	NAME OF TAXABLE	THE REAL PROPERTY.	1500000	094	-	CS-III P
	and the late			8-15)	ENSA!		(Parties of
Approach	EB		WB	86.01	NB	1	100
HCM Control Delay, s	0		0		11.2		
HCM LOS					В		
	114		-0.00	- TAKE	100	THE P	TOTAL ST
Minor Lane/Major Mym	t t	NBLn1	VRI n2	EBT	EBR	WBL	WBT
Capacity (veh/h)		406	722	LDI	LUI	1246	WDI
HCM Lane V/C Ratio		0.016	0.024	-		0.002	100
HCM Control Delay (s)		14	10.1		-	7.9	THE PARTY
HCM Lane LOS	100	B	10.1 B		57700		100
HCM 95th %tile Q(veh)		0	0.1	A DAMES	-	A	
TOW SOUTH WHILE CLINE		U	0.1	100	1	0	

Pembroke Industrial Park Passero Associates

## **A5**

## Level of Service Calculations: Background Conditions

2025 Background AM 10/14/2022

Lanes, Volumes, Timings
1: NY-77 (Alleghany Road) & NYS Thruway (Exit 48A)

	1	*	1	1	1	1	
Lane Group	EBL	EBR	NBL	NBT	SBT	SBR	i de la constante
Lane Configurations	7	7	7	<b>A</b>	41		and the second
Traffic Volume (vph)	99	195	352	94	141	211	SE-AWARE
Future Volume (vph)	99	195	352	94	141	211	
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	Marie Comme
Storage Length (ft)	0	0	250			0	
Storage Lanes		1	1			0	
Taper Length (ft)	25		150	NA PERSONAL PROPERTY.	CONTRACTOR OF STREET	The same of the sa	the state party
Lane Util, Factor	1.00	1.00	1.00	1.00	0.95	0.95	20 P. D. S. S.
Frt	Cole and Cole and	0.850	-		0.910	0.00	10000000
Fit Protected	0.950	71-102-09	0.950	A-20-2	THE RESIDENCE	No. of Concession, Name of Street, or other party of the Concession, Name of Street, or other party of the Concession, Name of	
Satd. Flow (prot)	1480	1196	1399	1696	2882	0	
Fit Permitted	0.950		0.525	Table 1		DATE STATE	No. of Lots
Satd. Flow (perm)	1480	1196	773	1696	2882	0	
Right Turn on Red		Yes		THE REAL PROPERTY.	STATE OF THE PARTY	Yes	
Satd. Flow (RTOR)		212			229	100	and the last
Link Speed (mph)	30			45	45		Decimal Control
Link Distance (ft)	854			973	786	The same of	100
Travel Time (s)	19.4	HE HE		14.7	11.9	No.	-0.54
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	and the same of
Heavy Vehicles (%)	22%	35%	29%	12%	8%	18%	2.2.5
Adj. Flow (vph)	108	212	383	102	153	229	1000
Shared Lane Traffic (%)	The same	SHALL AN	550	102		The state of the s	MATERIAL PROPERTY.
Lane Group Flow (vph)	108	212	383	102	382	0	
Enter Blocked Intersection	No	No	No	No	No.	No	2 12 15 miles
Lane Alignment	Left	Right	Left	Left	Left	Right	
Median Width(ft)	12	rugill	SCHOOL STATE	12	12	rigin	NAME OF TAXABLE
Link Offset(ft)	0	Marie Town		0	0		
Crosswalk Width(ft)	16	Charles with		16	16	de la company	
Two way Left Turn Lane	10			10	10		
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	No resident
Turning Speed (mph)	15	9	1.00	1.00	1.00	9	
Turn Type	Prot	pm+ov	pm+pt	NA	NA	3	-
Protected Phases	4	5	ринтри	2	NA 6	100	
Permitted Phases	CONTRACTOR OF	4	2	2	0	e la company	All Sales and
Detector Phase	4	5	5	2	6		
Switch Phase			STEELS ST	2	0	CONTRACTOR OF THE PARTY OF THE	Water Concession
Minimum Initial (s)	6.0	6.0	6.0	6.0	6.0	-	
Minimum Split (s)	22.5	12.0	12.0	22.5	22.5		
Total Split (s)	30.0	25.0	25.0	55.0	30.0		O'LIBELL S
Total Split (%)	35.3%	29.4%	29.4%	64.7%	35.3%	COLUMN TO SERVICE	de la company
Maximum Green (s)	24.0	19.0	19.0	49.0	24.0		-
Yellow Time (s)	4.0	4.0	4.0	49.0	4.0	- Charles	Con Cons
All-Red Time (s)	2.0	2.0	2.0	2.0	2.0	PAUL SALES	
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	Name of the last	Deliver in the
Total Lost Time (s)	6.0	6.0	6.0	6.0	6.0	Table 1	EN STATE OF
Lead/Lag	0.0	Lag	Lag	0.0	Lead	Total Control	ALSO SHOW
Lead-Lag Optimize?		Yes	Yes		Yes	STATE OF THE PARTY	Hall back
Vehicle Extension (s)	2.0	1.0	1.0	1.0	2.0	-8-5-0	
Recall Mode	None	None	None None	None	None		
Trecail Wode	None	None	None	None	None		

Pembroke Industrial Park Passero Associates

Synchro 11 Report Page 1

Lanes, Volumes, Timings

2025 Background AM 10/14/2022

1: NY-77 (Alleghany Road) & NYS Thruway (Exit 48A)

	1	1	1	1	1	1	
Lane Group	EBL	EBR	NBL	NBT	SBT	SBR	
Act Effct Green (s)	8.6	25.8	29.9	32.1	8.2		
Actuated g/C Ratio	0.18	0.55	0.63	0.68	0.17	NO. ACCUSATION OF THE PARTY OF	
v/c Ratio	0.40	0.28	0.56	0.09	0.56	Name of Street	
Control Delay	25.4	2.0	12.1	4.9	12.4		
Queue Delay	0.0	0.0	0.0	0.0	0.0	Sun Charles	
Total Delay	25.4	2.0	12.1	4.9	12.4		
LOS	C	A	В	A	В	200	Company of the property of the
Approach Delay	9.9			10.6	12.4		
Approach LOS	A	Land D	MARIE	В	В	Market Total	
Queue Length 50th (ft)	30	0	50	10	22	The second distribution is	
Queue Length 95th (ft)	75	20	122	30	60		
Internal Link Dist (ft)	774			893	706	-	
Turn Bay Length (ft)		3 4 5	250	THE PERSON	TO THE		THE RESIDENCE OF THE PERSON
Base Capacity (vph)	827	798	826	1579	1712	-	
Starvation Cap Reductn	0	0	0	0	0		
Spillback Cap Reductn	0	0	0	0	0		
Storage Cap Reductn	0	0	0	0	0		TO A SECRETARION OF THE SECRETARION
Reduced v/c Ratio	0.13	0.27	0.46	0.06	0.22		
Intersection Summary				4-12-2		The second	
Area Type:	Other						
Cycle Length: 85	-	WIND IN	Name of the Party	THE PARTY OF			
Actuated Cycle Length: 47	.2			THE REAL PROPERTY.	Andrew Spirit		enter de la contrata de la companya
Natural Cycle: 60	Notice to the	1	and the same		Contraction of	RESERVED IN	ADD THE SECTION OF THE PARTY OF
Control Type: Actuated-Ur	coordinated			and the same			
Maximum v/c Ratio: 0.56			STORY.		NET THE		
Intersection Signal Delay:	11.0		and the same of th	In	tersection	LOS: B	
Intersection Capacity Utiliz		-		IC	U Level	f Service A	Charles and the same of the sa
Analysis Period (min) 15							
0.10							
Splits and Phases: 1: N	Y-77 (Allegha	any Road	& NYS	Thruway	Exit 48A)		
102							204

\$ 05

Pembroke Industrial Park Passero Associates

2025 Background AM 10/14/2022

Lanes, Volumes, Timings 2: NY-77 (Alleghany Road) & Flying J Truck Access

	1	1	4	†	1	1		
Lane Group	EBL	EBR	NBL	NBT	SBT	SBR		
Lane Configurations	7	7	7	<b>†</b>	<b>1</b>			
Traffic Volume (vph)	55	4	2	369	259	43		Mineral Inch
Future Volume (vph)	55	4	2	369	259	43		
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	5.5 at 55 at 6,000	Maria de California
Storage Length (ft)	0	0	440	NAMES OF TAXABLE PARTY.		0		
Storage Lanes	1	1	19694	na cress		0		NAME OF TAXABLE PARTY.
Taper Length (ft)	25		130					or the last of many last
Lane Util. Factor	1.00	1.00	1.00	1.00	0.95	0.95	The American State of	District to
Frt		0.850			0.979			
Flt Protected	0.950	ATTICL S	0.950	SECTION.		Charles and a	The Late of the Late of	
Satd. Flow (prot)	912	808	902	1696	2814	0		the section of the se
Flt Permitted	0.950		0.950	STATE OF THE PARTY.	DESCRIPTION OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NA	PART AND AND		and the same
Satd. Flow (perm)	912	808	902	1696	2814	0		Name and Address of the Owner, where the Owner, which is the Owner, whic
Link Speed (mph)	10	N. S. Calle	el valor da	45	45	And the second		Section 2
Link Distance (ft)	888			664	973			a Bathania
Travel Time (s)	60.5	Total M	he de	10.1	14.7	AND THE PARTY	SLEADING TO THE	ERRENA N
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96		
Heavy Vehicles (%)	98%	100%	100%	12%	14%	95%	Communication Communication	ALCOHOL:
Adj. Flow (vph)	57	4	2	384	270	45		
Shared Lane Traffic (%)	AT HOUSE	NA SEC	SEC.	A PROPERTY.	Sec. Co.	STATE OF THE PARTY OF THE	CSUNTER SE	
Lane Group Flow (vph)	57	4	2	384	315	0		And the second
Enter Blocked Intersection	No	No	No	No	No	No	Marine China Service	ALTERNATION OF THE PARTY OF THE
Lane Alignment	Left	Right	Left	Left	Left	Right		
Median Width(ft)	12	STATE OF THE PARTY OF	SHIPPORT	12	12	Marine Parkers		A STATE OF THE
Link Offset(ft)	0		The Party of the P	0	0	and the same of th		
Crosswalk Width(ft)	16	10-15-50	100	16	16		A 25 FOR INSPECTATION	
Two way Left Turn Lane								The second second
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	The second second	Now Present
Turning Speed (mph)	15	9	15			9		
Sign Control	Stop			Free	Free	000000000000000000000000000000000000000	STATE OF STREET	
Intersection Summary								
Area Type:	Other		N-Table	Hall the			CAS I DESCRIPTION	
Control Type: Unsignalized							With the second	
Intersection Capacity Utiliza Analysis Period (min) 15	tion 29.4%	September 1		IC	U Level	f Service A		

Pembroke Industrial Park Passero Associates

Synchro 11 Report Page 3

HCM 6th TWSC 2: NY-77 (Alleghany Road) & Flying J Truck Access 2025 Background AM 10/14/2022

Intersection			555				
Int Delay, s/veh	1.8						
Movement	EBL	EBR	NBL	NBT	SBT	SBR	
Lane Configurations	7		7	4	17	and the	-
Traffic Vol., veh/h	55		2	369	259	43	DESCRIPTION OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COL
Future Vol, veh/h	55	4	2	369	259	43	
Conflicting Peds, #/hr	0	0	0	0	0	0	AND S
Sign Control	Stop	Stop	Free	Free	Free	Free	-
RT Channelized			1	None	-	None	
Storage Length	0		440			-	
Veh in Median Storage			200	0	0		TE AND
Grade, %	0	-	-	0	0		
Peak Hour Factor	96	Allegan State of the Land	96	96	96	96	
Heavy Vehicles, %	98	100	100	12	14	95	
Mvmt Flow	57	4	2	384	270	45	Service.
Major/Minor N	vlinor2	1	Major1		Major2	N. S. S.	
Conflicting Flow All	681	158	315	0	-	0	
Stage 1	293	CHICAGO	100		AT POST	STATE OF STREET	
Stage 2	388	-	-	-			
Critical Hdwy	8.07	8.4	5.6	1000		61483	Park in
Critical Hdwy Stg 1	7.27	-		-	-	-	000000000000000000000000000000000000000
Critical Hdwy Stg 2	6.87	PER ST	200	-	SOUTH T	No.	STATE OF
Follow-up Hdwy	4.431	4.25	3.15	-		-	
Pot Cap-1 Maneuver	261	642	801			THE STATE OF	CHESA
Stage 1	536	-		-	-	-	
Stage 2	487	2714			1	251.5	inne.
Platoon blocked, %	NAME OF STREET	A. C.		-	-	-	
Mov Cap-1 Maneuver	260	642	801			-	WEST !
Mov Cap-2 Maneuver	260	-		-			Name and Address of the Owner, where
Stage 1	535		E Inn'l			-	No.
Stage 2	487	-	-	-	-	-	
All the last of the last	35.5	ATO					
Approach	EB	No.	NB		SB	-	
HCM Control Delay, s	21.9		0.1		0		1000
HCM LOS	Z1.9		0.1		U		
HCM LOS	PERMIT	Maria III	and the same	or The San		CALLED IN	a Signer
				Mark Co.			2-152
Minor Lane/Major Mvm	1	NBL	NBT	EBLn1	EBLn2	SBT	SBR
Capacity (veh/h)		801		260	642	-	CRO VI
HCM Lane V/C Ratio		0.003		0.22	0.006	-	-
HCM Control Delay (s)		9.5			10.6	-	
HCM Lane LOS		A	-	C	В	-	-
HCM 95th %tile Q(veh)		0		0.8	0	811	150

Pembroke Industrial Park Passero Associates

2025 Background AM 10/14/2022

Lanes, Volumes, Timings 4: NY-77 (Alleghany Road) & Vision Parkway

	1	*	†	-	1	+
Lane Group	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	**		1.			44
Traffic Volume (vph)	1	7	367	9	8	262
Future Volume (vph)	1	7	367	9	8	262
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Lane Util. Factor	1.00	1.00	1.00	1.00	0.95	0.95
Frt	0.882	DISTRIBUTE OF THE PARTY OF THE	0.997	ALC: NAME OF	NAME OF STREET	Name and Address of the Owner, where the Owner, which the Owner, where the Owner, where the Owner, which the
Flt Protected	0.994	and the latest device the late		and the sales of the		0.998
Satd. Flow (prot)	1666	0	1667	0	0	3093
Flt Permitted	0.994	-				0.998
Satd. Flow (perm)	1666	0	1667	0	0	3093
Link Speed (mph)	30		45			45
Link Distance (ft)	873	NAME OF	403	THE ST	1000	478
Travel Time (s)	19.8	A PERSONAL PROPERTY OF	6.1			7.2
Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94
Heavy Vehicles (%)	0%	0%	14%	0%	0%	17%
Adj. Flow (vph)	10001	7	390	10	9	279
Shared Lane Traffic (%)	-					
Lane Group Flow (vph)	8	0	400	0	0	288
Enter Blocked Intersection	No	No	No	No	No	No
Lane Alignment	Left	Right	Left	Right	Left	Left
Median Width(ft)	12		0			0
Link Offset(ft)	0	Service of the least of the lea	0	ALCOHOLD D	et State	0
Crosswalk Width(ft)	16		16			16
Two way Left Turn Lane	Law M	S1-0-10	ALIENSEN .		Service Control	HE THE
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	15	9		9	15	T. STORY
Sign Control	Stop		Free			Free
Intersection Summary		The second	STATE OF	HA SHA		STORE

Intersection Summ	ary		
Area Type:	Other		
Control Type: Unsig	gnalized		Committee of the second
Intersection Capaci	ity Utilization 29.9%	ICU Level of Service A	The state of the s
Analysis Desired (set	A STATE OF THE PARTY OF THE PAR	CONTRACTOR OF THE PARTY OF THE	

Pembroke Industrial Park Passero Associates

Synchro 11 Report Page 5

HCM 6th TWSC

4: NY-77 (Alleghany Road) & Vision Parkway

2025 Background AM 10/14/2022

Internation	No. of Contract of	-				
Intersection Int Delay, s/veh	0.2		3457.00			
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	A		7+			414
Traffic Vol, veh/h	- 1	7	367	9	8	262
Future Vol, veh/h	1	7	367	9	8	262
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized		None		None	and the	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage,	# 0		0	4354	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	94	94	94	94	94	94
Heavy Vehicles, %	0	0	14	0	0	17
Mymt Flow	1	7	390	10	9	279
	Name of Street, or other Designation of the Owner, where the Owner, which		-			
AND THE RESERVE AND THE RESERV		-	No.			
	linor1		Major1	_	Major2	
Conflicting Flow All	553	395	0	0	400	0
Stage 1	395		-			-
Stage 2	158	-	-	-	-	-
Critical Hdwy	6.6	6.2			4.1	
Critical Hdwy Stg 1	5.4	-		-	-	-
Critical Hdwy Stg 2	5.8				diam'r.	A POPULAR
Follow-up Hdwy	3.5	3.3	-	-	2.2	-
Pot Cap-1 Maneuver	482	659		alterial	1170	
Stage 1	685	-			-	-
Stage 2	860			75		10 15 30 2
Platoon blocked, %				-		-
Mov Cap-1 Maneuver	478	659		9613	1170	
Mov Cap-2 Maneuver	478	-		-	-	-
Stage 1	685	1111111	ERE	Sales -		
Stage 2	852			· ·	-	-
INCOME THE PROPERTY OF THE PARTY OF THE PART						1905.65
Approach	WB		NIO		DD.	
			NB		SB	200
HCM Control Delay, s	10.8		0	Section 2	0.2	1
HCM LOS	В	WEST CONTROL	THE PERSON NAMED IN	Selection and	-	
Minor Lane/Major Mvmt		NBT	NBRI	WBLn1	SBL	SBT
Capacity (veh/h)	C. PER	-		629	1170	
HCM Lane V/C Ratio				0.014	0.007	-
HCM Control Delay (s)	SHE	1000	Special Specia	10.8	8.1	0
HCM Lane LOS	-			В	A	A
HCM 95th %tile Q(veh)	REAL PROPERTY.	-		0	0	
The state of the s						Mary And

Pembroke Industrial Park Passero Associates

Lanes, Volumes, Timings 5: NY-77 (Alleghany Road) & NY-5 (Main Street) 2025 Background AM 10/14/2022

	*	<b>→</b>	•	1	<b>←</b>	1	1	1	-	1	ţ	1
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	7	1		7	1.		7	7.		7	1	
Traffic Volume (vph)	88	140	75	102	122	62	69	217	60	24	193	44
Future Volume (vph)	88	140	75	102	122	62	69	217	60	24	193	44
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (ft)	100		0	300		0	260		0	325		0
Storage Lanes	1	THE	0	1	S. Printer	0	1		0	1	Series of	0
Taper Length (ft)	100			115	-	and the same of th	100			100		Charles Land
Lane Util, Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Frt		0.948			0.949			0.968	1,000		0.972	2
Flt Protected	0.950	September 1	SECTION	0.950	MAKER	HENE	0.950	SUMMEN.	-	0.950	Wildlinson	1
Satd. Flow (prot)	1583	1706	0	1612	1605	0	1752	1793	0	1388	1603	0
Flt Permitted	0.608	-	Mary 1	0.586	10		0.571	A STATE OF THE PARTY OF THE PAR	-	0.527	No the last	A COUNTY
Satd. Flow (perm)	1013	1706	0	994	1605	0	1053	1793	0	770	1603	C
Right Turn on Red	ere est	Market Ballet	Yes	STEEL SERVICE	RIEDER.	Yes	AND DESCRIPTION OF THE PERSON	SECON	Yes	Name and Address of the Owner, where	TENERS SE	Yes
Satd. Flow (RTOR)	No like property	38			36			24	100		20	
Link Speed (mph)	Value of	45		I WE THE	45	SELEN B	ALC: N	45	Mission and	a little by the	45	PM P6
Link Distance (ft)		776			1602			801			698	
Travel Time (s)	To be seen to	11.8		NAME OF	24.3	STORES.	Ren ex	12.1	ALTO SALE	TOTAL SCHOOL	10.6	100-54
Peak Hour Factor	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76
Heavy Vehicles (%)	14%	7%	3%	12%	11%	15%	3%	0%	12%	30%	15%	16%
Adi, Flow (vph)	116	184	99	134	161	82	91	286	79	32	254	58
Shared Lane Traffic (%)	DESCRIPTION OF THE PARTY OF THE	Inches and	SALES AND		DECULES.	SADESCAR	AND DESCRIPTION OF THE PERSON NAMED IN	200	AUTO- COLOR	-	204	and the same
Lane Group Flow (vph)	116	283	0	134	243	0	91	365	0	32	312	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)	ASSESSED OF THE PARTY OF THE PA	12	HARMA	SECTION.	12	rugin	Len	12	Tagric	CONTRACT OF	12	ragii
Link Offset(ft)		0	/Masata	AND DESCRIPTION	0			0			0	PR 1553
Crosswalk Width(ft)	MAD IN AL	16	To lead the	2-37-3	16	ale a fe	ALC: NO	16	S Sanda	PLINE	16	-
Two way Left Turn Lane	THE REPORT	Yes						10			10	and the state of
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	15	1.00	9	15	1.00	9	15	1.00	9	15	1.00	1.00
Turn Type	Perm	NA	A DAY WHEN THE	Perm	NA		Perm	NA	STREET, ST	Perm	NA	NAME OF TAXABLE PARTY.
Protected Phases	1 Gilli	1		1 Cilli	1	3000	- Cini	3		r ciiii	3	
Permitted Phases	1	OUT SHOW	egreenin		THE REAL PROPERTY.	and a mineral	3	S CONTRACTOR OF THE PARTY OF TH	Serie of the	3	3	AND DESCRIPTION OF THE PERSON NAMED IN
Detector Phase	1	1		1	1	-120	3	3		3	3	
Switch Phase	NAME OF TAXABLE	Charles	CONTAC	TA SUNUS	Marie Salar	at a large to	SEE PRODUCT	CHARLES AND ADDRESS.	NUMBER	STATE OF THE PARTY.	N-SECTION S	STATE OF THE PARTY.
Minimum Initial (s)	10.0	10.0		10.0	10.0		10.0	10.0		10.0	10.0	
Minimum Split (s)	24.5	24.5	Bakesa.	24.5	24.5	United by	24.5	24.5	THE REAL PROPERTY.	24.5	24.5	Warehouse !
Total Split (s)	35.0	35.0		35.0	35.0		45.0	45.0		45.0	45.0	
Total Split (%)	43.8%	43.8%	-	43.8%	43.8%	-	56.3%	56.3%	West in the last	56.3%	56.3%	Ethicalous
Maximum Green (s)	28.5	28.5		28.5	28.5	- Process	38.5	38.5	460	38.5	38.5	
Yellow Time (s)	5.0	5.0	Will be to the same	5.0	5.0	OF STREET	5.0	5.0	STELLINE.	5.0	5.0	et de march
All-Red Time (s)	1.5	1.5		1.5	1.5		1.5	1.5		1.5	1.5	PER STATE
Lost Time Adjust (s)	0.0	0.0	STATE AND ADDRESS OF THE PARTY	0.0	0.0		0.0	0.0	Section 2	0.0	0.0	DESCRIPTION OF THE PERSON OF T
Total Lost Time (s)	6.5	6.5		6.5	6.5	No.	6.5	6.5	The State of the	6.5	6.5	
Lead/Lag	0.0	0.0	USC 2 ISS.	0.5	0.0	WHI SHE	0.5	0.5	Name of the last	0.5	0.5	
Lead-Lag Optimize?		C. L. Cold	archerist.	SERVICE.		STATE OF	135			real total		
Vehicle Extension (s)	3.0	3.0	The same of the sa	3.0	3.0		4.0	4.0		4.0	4.0	ONCERN
Recall Mode	None	None	00000	None	None			None		-	STATE OF THE PARTY	-
Recall Mode	None	None		None	None		None	None		None	None	

Pembroke Industrial Park Synchro 11 Report Passero Associates Page 7

Lanes, Volumes, Timings 5: NY-77 (Alleghany Road) & NY-5 (Main Street)

2025 Background AM 10/14/2022

	,	-	1	1	-	*	1	1	-	1	+	1
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Act Effct Green (s)	14.6	14.6		14.6	14.6	15-14-15	17.3	17.3		17.3	17.3	115
Actuated g/C Ratio	0.32	0.32		0.32	0.32		0.38	0.38		0.38	0.38	
v/c Ratio	0.36	0.50		0.42	0.45		0.23	0.53	Mark Co	0.11	0.51	SARAH S
Control Delay	17.1	15.2		18.5	14.6	The second second	12.0	13.8	- Contract of the Contract of	11.2	13.8	- Carriery
Queue Delay	0.0	0.0	-	0.0	0.0		0.0	0.0	STELL T	0.0	0.0	
Total Delay	17.1	15.2		18.5	14.6		12.0	13.8	ACCOUNTS NO.	11.2	13.8	NO. OF THE PARTY NAMED IN
LOS	В	В	TONE LIE	В	В	NEW N	В	В	G. C. 1997	В	В	-
Approach Delay		15.8			16.0			13.4	THE RESERVE TO SERVE	THE REAL PROPERTY.	13.6	Contract of
Approach LOS	1911111	В	L. Trible		В	E THE LA		В		MENNE	В	SAGE
Queue Length 50th (ft)	21	46		25	38	AND THE PARTY OF T	14	58		5	49	NO.
Queue Length 95th (ft)	58	106		67	92	MAN STAN	41	125	CONTRACTOR OF THE PARTY.	19	110	Service .
Internal Link Dist (ft)		696			1522	and or the Automotive		721			618	No. of Concession,
Turn Bay Length (ft)	100	THE R. P.	Seal St	300	THE ME		260	200		325	-	STERRY
Base Capacity (vph)	674	1149		662	1081		895	1528		655	1366	
Starvation Cap Reductn	0	0	-	0	0		0	0	Park Service	0	0	1
Spillback Cap Reductn	0	0		0	0		0	0		0	0	-
Storage Cap Reductn	0	0	STATE OF	0	0	-	- 0	0	War F	0	0	SERVICE SERVICE
Reduced v/c Ratio	0.17	0.25		0.20	0.22		0.10	0.24		0.05	0.23	The second second

Area Type: Other
Cycle Length: 80
Actuated Cycle Length: 45.7
Natural Cycle: 50
Control Type: Actuated-Uncoordinated
Maximum vic Ratio: 0.53
Leterostics Street Delay: 14.7

Intersection Signal Delay: 14.7 Intersection Capacity Utilization 65.3% Intersection LOS: B ICU Level of Service C

Analysis Period (min) 15

Splits and Phases: 5: NY-77 (Alleghany Road) & NY-5 (Main Street)





Pembroke Industrial Park Passero Associates

Lanes, Volumes, Timings 6: Brickhouse Road & NY-5 (Main Street) 2025 Background AM 10/14/2022

Lane Group  Lane Coroligurations Traffic Volume (vph) 288 Traffic Volume (vph) 288 Ideal Flow (vphpl) 289 Ideal Flow (vphpl) 280 Ideal Flow (prot) 280 Ideal Flow (prot) 281 Ideal Flow (prot) 281 Ideal Flow (prot) 281 Ideal Flow (prot) 282 Ideal Flow (prot) 283 Ideal Flow (prot) 283 Ideal Flow (prot) 283 Ideal Flow (prot) 383 Ideal Flow (prot) 384 Ideal Flow (ph) 385 Ideal Flow (ph) 385 Ideal Flow (ph) 386 Ideal Flow (ph) 387 Ideal Flow (ph) 387 Ideal Flow (ph) 388 Ideal Flow (ph) 388 Ideal Flow (ph) 389 Ideal Flow (ph) 380 Ideal Flow (ph) 380 Ideal Flow (ph) 381 Ideal Flow (ph) 381 Ideal Flow (ph) 384 Ideal Flow (ph) 384 Ideal Flow (ph) 384 Ideal Flow (ph) 384 Ideal Flow (ph) 385 Ideal Flow (ph) 386 Ideal Flow (ph) 386 Ideal Flow (ph) 387 Ideal Flow (ph) 387 Ideal Flow (ph) 387 Ideal Flow (ph) 388 Ideal Flow (ph) 388 Ideal Flow (ph) 389 Ideal Flow (ph) 389 Ideal Flow (ph) 380 Ideal Flow (ph) Ideal Flow (	1900	15 15 1900 120 1 75 1.00 0.950 1597 0.950	WBT 249 249 1900 1.00 1743 1743 45	NBL 1 1 1900 150 1 100 1.00 0.950 902 0.950 902 30	NBR 1 1 1900 0 1 1.00 0.850 808	
Traffic Volume (vph) 285 Future Volume (vph) 285 (deal Flow (vphpl) 1900 Storage Length (ft) Storage Lanes Taper Length (ft) Lane Util, Factor 1.00 Frt 0.996 Fit Protected Satot, Flow (prot) 1772 Fit Permitted Satot, Flow	9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	15 15 1900 120 1 75 1.00 0.950 1597 0.950	1.00 1743	1900 150 1 100 1.00 0.950 902 0.950 902	1 1 1900 0 1 1.00 0.850	
Traffic Volume (vph) 285 Future Volume (vph) 285 Ideal Flow (vphpl) 1900 Storage Length (ft) Storage Length (ft) Storage Length (ft) Lane Util, Factor 1.00 Frt 0.996 Fit Protected Satot, Flow (prot) 1772 Fit Permitted Sato	9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	15 15 1900 120 1 75 1.00 0.950 1597 0.950	1.00 1743	1900 150 1 100 1.00 0.950 902 0.950 902	1900 0 1 1.00 0.850 808	
Ideal Flow (vphpl)   1900	1900	1900 120 1 75 1.00 0.950 1597 0.950	1,00 1,743 1,743	1900 150 1 100 1.00 0.950 902 0.950 902	1900 0 1 1.00 0.850 808	
Storage Length (ft)	1,00 i : 0	120 1 75 1.00 0.950 1597 0.950	1.00 1743 1743	150 1 100 1.00 0.950 902 0.950 902	0 1 1.00 0.850 808	
Storage Lanes   Taper Length (t)   Lane Util. Factor   1.00   Fit	1.00	1 75 1.00 0.950 1597 0.950	1743 1743	1 100 1.00 0.950 902 0.950 902	1 1.00 0.850 808	
Taper Length (ft)           Lane Util, Factor         1.00           Frt         0.996           Fit Protected         5atd. Flow (prot)         1772           Fit Permitted         5atd. Flow (perm)         1772           Link Speed (mph)         44         44           Link Distance (ft)         83         172           Travel Time (s)         12.6         78           Peak Hour Factor         0.87         78           Heavy Vehicles (%)         79         Adj. Flow (vph)         332           Shared Lane Traffic (%)         Lane Group Flow (vph)         342           Enter Blocked Intersection         No.         No.	1.00	75 1.00 0.950 1597 0.950	1743 1743	1.00 0.950 902 0.950 902	0.850 808	
Lane Util. Factor 1.00 Frt 0.996 Fit Protected Satd. Flow (prot) 1772 Fit Permitted Satd. Flow (perm) 1772 Link Speed (mph) 44 Link Distance (th) 831 Travel Time (s) 12.0 Peak Hour Factor 0.81 Heavy Vehicles (%) 79 Adj. Flow (vph) 332 Lane Group Flow (vph) 342 Enter Blocked Intersection No	: 0 : 0	1.00 0.950 1597 0.950	1743 1743	1.00 0.950 902 0.950 902	0.850 808	
Frt 0.996  Itt Protected 5  Statd. Flow (prot) 1772  Itt Permitted 5  Statd. Flow (perm) 1772  Link Speed (mph) 45  Link Distance (ft) 831  Travel Time (s) 12.6  Peak Hour Factor 0.87  Heavy Vehicles (%) 79  Adj. Flow (vph) 332  Shared Lane Traffic (%)  Lane Group Flow (vph) 342  Enter Blocked Intersection No	: 0 : 0	0.950 1597 0.950	1743 1743	0.950 902 0.950 902	0.850 808	
Fit Protected Satd. Flow (prot) 1772 Fit Permitted Satd. Flow (perm) 1772 Link Speed (mph) 45 Link Distance (ft) 831 Travel Time (s) 12.6 Peak Hour Factor 0.8 Heavy Vehicles (%) 7% Adj. Flow (vph) 332 Shared Lane Traffic (%) Lane Group Flow (vph) 342 Enter Blocked Intersection No	. O	1597 0.950	1743	902 0.950 902	808	
Satd. Flow (prot) 1772 Fit Permitted 1772 Fit Permitted 1772 Link Speed (mph) 44 Link Distance (ft) 831 Travel Time (s) 12,6 Peak Hour Factor 0.81 Heavy Vehicles (%) 79 Adj. Flow (vph) 332 Lane Group Flow (vph) 342 Enter Blocked Intersection No	. 0	1597 0.950	1743	902 0.950 902	belief.	
Fit Permitted  Satd. Flow (perm) 1777  Link Speed (mph) 45  Link Distance (ft) 83  Travel Time (s) 12.6  Peak Hour Factor 0.87  Heavy Vehicles (%) 79  Adj. Flow (vph) 332  Shared Lane Traffic (%)  Lane Group Flow (vph) 342  Enter Blocked Intersection No	. 0	0.950	1743	0.950 902	belief.	
Satd. Flow (perm)         1772           Link Speed (mph)         45           Link Distance (ft)         83           Travel Time (s)         12.6           Peak Hour Factor         0.8           Heavy Vehicles (%)         7%           Adj. Flow (vph)         332           Shared Lane Traffic (%)         1           Lane Group Flow (vph)         342           Enter Blocked Intersection         No				902	808	
Link Speed (mph) 45 Link Distance (ft) 831 Travel Time (s) 12.6 Peak Hour Factor 0.8 Heavy Vehicles (%) 7% Adj. Flow (vph) 332 Shared Lane Traffic (%) Lane Group Flow (vph) 342 Enter Blocked Intersection No		1597			808	
Link Distance (ft)     831       Travel Time (s)     12.E       Peak Hour Factor     0.81       Heavy Vehicles (%)     7%       Adj. Flow (vph)     332       Shared Lane Traffic (%)     2       Lane Group Flow (vph)     342       Enter Blocked Intersection     No			45	30	San	
Travel Time (s)         12.6           Peak Hour Factor         0.87           Heavy Vehicles (%)         79           Adj. Flow (vph)         332           Shared Lane Traffic (%)         342           Lane Group Flow (vph)         342           Enter Blocked Intersection         No.						
Peak Hour Factor         0.87           Heavy Vehicles (%)         7%           Adj. Flow (vph)         332           Shared Lane Traffic (%)         Lane Group Flow (vph)         342           Enter Blocked Intersection         No	William Company		776	817		
Heavy Vehicles (%)         7%           Adj. Flow (vph)         332           Shared Lane Traffic (%)         342           Lane Group Flow (vph)         342           Enter Blocked Intersection         No	207-17		11.8	18.6		
Adj. Flow (vph)         332           Shared Lane Traffic (%)         342           Lane Group Flow (vph)         342           Enter Blocked Intersection         No	0.87	0.87	0.87	0.87	0.87	
Shared Lane Traffic (%) Lane Group Flow (vph) 342 Enter Blocked Intersection No.	0%	13%	9%	100%	100%	
Lane Group Flow (vph) 342 Enter Blocked Intersection No.	10	17	286	1	1	
Enter Blocked Intersection No	- INVS	Sales and	Sales of	WELL THE	AND DESCRIPTION OF THE PERSON	
		17	286	1	1	
A 41	No	No	No	No	No	
Lane Alignment Lef	Right	Left	Left	Left	Right	
Median Width(ft) 12	Side of the last	Section 1	12	12		
Link Offset(ft)			0	0		
Crosswalk Width(ft) 16			16	16	Mark Sales	
Two way Left Turn Lane			Yes			The second secon
Headway Factor 1.00	1.00	1.00	1.00	1.00	1.00	The condition of the second
Turning Speed (mph)	9	15		15	9	
Sign Control Free			Free	Stop		

Area Type: Other
Control Type: Unsignalized
Intersection Capacity Utilization 25.8%
Analysis Period (min) 15

Pembroke Industrial Park Synchro 11 Report Passero Associates Page 9 HCM 6th TWSC 6: Brickhouse Road & NY-5 (Main Street)

2025 Background AM 10/14/2022

Intersection							N.
Int Delay, s/veh	0.3						
Movement	EBT	EBR	WBL	WBT	NBL	NBR	
Lane Configurations	1,		7	4	7	7	
Traffic Vol., veh/h	289	9	15	249	507004	2000	
Future Vol. veh/h	289	9	15	249	1	1	
Conflicting Peds, #/hr	0	0	0	0	0	0	
Sign Control	Free	Free	Free	Free	Stop	Stop	
RT Channelized	1100			None		None	
Storage Length		HONE	120	HONG	150	0	
Veh in Median Storage,	_	DOTE:	120	0	0	0	
Grade. %	0	-		0	0		
Peak Hour Factor	87		07				
		87	87	87	87	87	
Heavy Vehicles, %	7	0	13	9	100	100	
Mvmt Flow	332	10	17	286	- 1	1	
Major/Minor N	lajor1		Major2		Minor1	3000	
Conflicting Flow All	0	0	342	0	657	337	
Stage 1			342		337	331	
Stage 2	Name III	NEWS THE			320		
Critical Hdwy	0000		4.23	2002	7.4	70	
Critical Hdwy Stg 1	and the last		Section 1	N. Contraction	-	7.2	
	-	-			6.4		
Critical Hdwy Stg 2					6.4		
Follow-up Hdwy	-		2.317		4.4	4.2	
Pot Cap-1 Maneuver	-		1158	Sold La	308	528	
Stage 1	-	-		-	548	-	
Stage 2					560		
Platoon blocked, %	-	-		-			
Mov Cap-1 Maneuver	Total A	-	1158	100	303	528	
Mov Cap-2 Maneuver	-	-	-	-	303	-	
Stage 1	200	200	Carrie .	200	548	-	
Stage 2		-	-	-	552	-	
THE RESIDENCE OF THE PARTY OF T	- Fich	No. of Concession,	COLUMN TO SERVICE STATE OF THE PERSON NAMED IN COLUMN TO SERVICE STATE OF THE PERSON NAMED STATE OF THE PERSON NAMED STATE OF THE PERSON NAMED STATE OF THE PERSON NAM	C. 1966.18	NAME OF	ALC: N	
	COLUMN TO SERVICE				Section		
Approach	EB	10 PM	WB		NB		
HCM Control Delay, s	0		0.5		14.3		
HCM LOS					В		
	31.5				-		
Minor Lane/Major Mymt		NBLn11	NBLn2	EBT	EBR	WBL	
Capacity (veh/h)	- Marie	303	528	A Party and		1158	
HCM Lane V/C Ratio		0.004				0.015	
HCM Control Delay (s)	Section 1	16.9	11.8			8.2	
HCM Lane LOS		C	В		-53	0.2 A	
HCM 95th %tile Q(veh)	-	0	0	_	SCHOOL S	A 0	
now 95th 76the Q(ven)		U	U			U	

Pembroke Industrial Park Passero Associates

1: NY-77 (Alleghany Road) & NYS Thruway (Exit 48A)

2025 Background PM 10/14/2022

	1	-	1	†	1	1
Lane Group	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	٦	7	*	4	41	ODIT
Traffic Volume (vph)	207	335	265	157	172	178
Future Volume (vph)	207	335	265	157	172	178
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Storage Length (ft)	0	0	250	1300	1300	0
Storage Lanes	1	1	230	A A STEEL		0
Taper Length (ft)	25		150	770		U
Lane Util. Factor	1.00	1.00	1.00	1.00	0.95	0.95
Ert	1.00	0.850	1.00	1.00		0.95
Fit Protected	0.050	0.850	0.000	and the same	0.924	
AND REAL PROPERTY AND ADDRESS OF THE PERSON	0.950	4000	0.950	4007		
Satd. Flow (prot)	1556	1262	1388	1827	2976	0
Flt Permitted	0.950		0.540			
Satd. Flow (perm)	1556	1262	789	1827	2976	0
Right Turn on Red		Yes				Yes
Satd. Flow (RTOR)		338			180	
Link Speed (mph)	30			45	45	
Link Distance (ft)	854			973	786	
Travel Time (s)	19.4		5 3-15	14.7	11.9	5.45
Peak Hour Factor	0.99	0.99	0.99	0.99	0.99	0.99
Heavy Vehicles (%)	16%	28%	30%	4%	8%	16%
Adj. Flow (vph)	209	338	268	159	174	180
Shared Lane Traffic (%)	DE CONTRACTO		TOTAL STATE		de la cus	100
Lane Group Flow (vph)	209	338	268	159	354	0
Enter Blocked Intersection	No	No	No	No	No.	No
Lane Alignment	Left	Right	Left	Left	Left	Right
Median Width(ft)	12	Right	Leit	12	12	Right
					-	
Link Offset(ft)	0	NAME OF THE OWN		0	0	
Crosswalk Width(ft)	16		of the same	16	16	
Two way Left Turn Lane						
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	15	9	15			9
Turn Type	Prot	pm+ov	pm+pt	NA	NA	
Protected Phases	4	5	5	2	6	
Permitted Phases	Jane -	4	2	1000	THE REAL PROPERTY.	100
Detector Phase	4	5	5	2	6	
Switch Phase	-		District Co.	107704	SA STATE	artiles
Minimum Initial (s)	6.0	6.0	6.0	6.0	6.0	
Minimum Split (s)	22.5	12.0	12.0	22.5	22.5	STATE OF THE PARTY.
Total Split (s)	30.0	25.0	25.0	55.0	30.0	and the Control
Total Split (%)	35.3%	29.4%	29.4%	64.7%	35.3%	ALC: NO.
Maximum Green (s)	24.0	19.0	19.0	49.0	24.0	
Yellow Time (s)	4.0	4.0	4.0	4.0	4.0	-
All-Red Time (s)	2.0	2.0	2.0	2.0	2.0	
4-1						
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	
Total Lost Time (s)	6.0	6.0	6.0	6.0	6.0	
Lead/Lag		Lag	Lag	A PARTY OF	Lead	-305
Lead-Lag Optimize?		Yes	Yes		Yes	
Vehicle Extension (s)	2.0	1.0	1.0	1.0	2.0	
Recall Mode	None	None	None	None	None	

Pembroke Industrial Park Passero Associates Synchro 11 Report Page 1 Lanes, Volumes, Timings

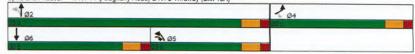
1: NY-77 (Alleghany Road) & NYS Thruway (Exit 48A)

2025 Background PM 10/14/2022

		-	1	T	+	4
Lane Group	EBL	EBR	NBL	NBT	SBT	SBR
Act Effct Green (s)	10.4	27.2	24.7	24.7	7.9	
Actuated g/C Ratio	0.22	0.57	0.52	0.52	0.17	
v/c Ratio	0.62	0.39	0.49	0.17	0.55	
Control Delay	26.7	2.1	12.9	6.9	13.8	
Queue Delay	0.0	0.0	0.0	0.0	0.0	
Total Delay	26.7	2.1	12.9	6.9	13.8	
LOS	C	A	В	Α	В	Colonia de Cara de Car
Approach Delay	11.5			10.6	13.8	
Approach LOS	В	LOUIS	-	В	В	
Queue Length 50th (ft)	49	0	37	19	21	
Queue Length 95th (ft)	131	24	95	52	67	
Internal Link Dist (ft)	774		The same of the sa	893	706	
Turn Bay Length (ft)	THE RESERVE	S. 200	250		Rut Ville	
Base Capacity (vph)	816	849	811	1719	1647	
Starvation Cap Reductn	0	0	0	0	0	
Spillback Cap Reductn	0	0	0	0	0	
Storage Cap Reductn	0	0	0	0	0	
Reduced v/c Ratio	0.26	0.40	0.33	0.09	0.21	
Intersection Summary		- 10	GUP NO			
	0					

Area Type: Other
Cycle Length: 85
Actuated Cycle Length: 47.6
Astural Cycle: 60
Control Type: Actuated-Uncoordinated
Maximum vic Ratio: 0.62
Intersection Signal Delay: 11.9
Intersection Capacity Utilization 51.6%
ICU Level of Service A

Splits and Phases: 1: NY-77 (Alleghany Road) & NYS Thruway (Exit 48A)



Pembroke Industrial Park Passero Associates

Analysis Period (min) 15

2025 Background PM 10/14/2022

Lanes, Volumes, Timings 2: NY-77 (Alleghany Road) & Flying J Truck Access

	1	7	1	1	+	1	
Lane Group	EBL	EBR	NBL	NBT	SBT	SBR	
Lane Configurations	ħ	7	ሻ	4	41+		
Traffic Volume (vph)	42	9	6	322	448	43	
Future Volume (vph)	42	9	6	322	448	43	
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	
Storage Length (ft)	0	0	440			0	
Storage Lanes	1	1	1	TO RESIDE		0	
Taper Length (ft)	25		130			A COLUMN TO SERVE THE PARTY OF	
Lane Util. Factor	1.00	1.00	1.00	1.00	0.95	0.95	The Control of the American State of the Control
Ped Bike Factor						The second second	
Frt		0.850	-	12000	0.987	Sections	
Fit Protected	0.950		0.950				
Satd. Flow (prot)	926	808	1081	1759	3087	0	
Flt Permitted	0.950		0.950				
Satd. Flow (perm)	926	808	1081	1759	3087	0	
Link Speed (mph)	10			45	45	07000	
Link Distance (ft)	888	THE PARTY	THE PARTY	664	973	100000000000000000000000000000000000000	A POST CONTRACTOR TO SAME STATE OF
Travel Time (s)	60.5			10.1	14.7		
Confl. Peds. (#/hr)	3		T-41/4/45	TE/AT	CONTRACTOR OF STREET	40.00	
Peak Hour Factor	0.93	0.93	0.93	0.93	0.93	0.93	
Heavy Vehicles (%)	95%	100%	67%	8%	8%	93%	The Control of the Co
Adj. Flow (vph)	45	10	6	346	482	46	
Shared Lane Traffic (%)	S. E. San	STATE OF THE PARTY.	THE REAL PROPERTY.	NO RELIGIO	1000	SE M	A STATE OF THE PROPERTY OF THE PARTY OF
Lane Group Flow (vph)	45	10	6	346	528	0	
Enter Blocked Intersection	No	No	No	No	No	No	
Lane Alignment	Left	Right	Left	Left	Left	Right	
Median Width(ft)	12	to the		12	12		
Link Offset(ft)	0			0	0	-	
Crosswalk Width(ft)	16	F 12.178		16	16	100	ALTERNATION OF THE PROPERTY OF THE PARTY OF
Two way Left Turn Lane					-	-	
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	
Turning Speed (mph)	15	9	15			9	
Sign Control	Stop	Charles	2/03/2	Free	Free	100 mg	
Internation Cumman	and the second	Section 1	NAME OF TAXABLE PARTY.		and the same of		VIII A CONTRACTOR OF THE PARTY

Area Type: Other
Control Type: Unsignalized
Intersection Capacity Utilization 26.9%
Analysis Period (min) 15

Pembroke Industrial Park Passero Associates

Synchro 11 Report Page 3

HCM 6th TWSC 2: NY-77 (Alleghany Road) & Flying J Truck Access

2025 Background PM 10/14/2022

				_		_	
Intersection	600	612	9	50.00	RIBAYE		N/SIEN
Int Delay, s/veh	1.6						
		con	NIS.	. Int			
Movement	EBL	EBR	NBL	NBT	SBT	SBR	
Lane Configurations	7	7	7		17		
Traffic Vol, veh/h	42	9	6	322	448	43	45.45
Future Vol, veh/h	42	9	6	322	448	43	
Conflicting Peds, #/hr		and the latest and	0	COLUMN TO SERVICE	0	0	200
Sign Control	Stop		Free	Free	Free	Free	
RT Channelized		None		None		None	
Storage Length	0	0	440	-	-	-	
Veh in Median Storag		-		Order Business	0		
Grade, %	0	-	-	-	0	-	
Peak Hour Factor	93	And the last of th	93	or the latest and the	93	93	200
Heavy Vehicles, %	95	100	67	8	8	93	
Mvmt Flow	45	10	6	346	482	46	
Major/Minor	Minor2	800	Major1	2000	Major2	200	100
Conflicting Flow All	866	264	528	0	majorz	0	
Stage 1	505	204	320	U CONTRACTOR OF THE PARTY OF TH	N. Paris	U	PAGE
Stage 2	361				-	The state of the s	
Critical Hdwv	8.025		5.105				No.
Critical Hdwy Stg 1	7.225	0.4	5.105	1	Service Con-		State
Critical Hdwy Stg 1	6.825	NAME OF TAXABLE		Salte.	-	· Manager	HARE SOME
Follow-up Hdwy	4.4025		2.8365		1995		
Pot Cap-1 Maneuver		532		-		-	and the same
Stage 1	398	532	734	1000	-11	B. Section	
Stage 1	510					-	- Contract of the Contract of
Platoon blocked, %	310	1000	100	100	400	30.00	
	400	F00	704				III. STORES
Mov Cap-1 Maneuver		532	734				
Mov Cap-2 Maneuver		-					-
Stage 1	395					5	
Stage 2	510	-	-	-	-	-	
		A POST				1	E S
Approach	EB		NB		SB	610	100
HCM Control Delay, s		ath a	0.2		0		122
HCM LOS	D		0.2	1575	V	DB 45	STREET, ST
INSTRUMENTAL PROPERTY.	-	-	P 55	and the same			2000
	DE NORTH AND ADDRESS OF THE PARTY AND ADDRESS	The same of			-	SINGUE.	
Minor Lane/Major Mvi	mt	NBL	NBT	EBLn1	EBLn2	SBT	SBR
Capacity (veh/h)		734	SEL S	190	532	-	STA
HCM Lane V/C Ratio		0.009		0.238	0.018	-	
HCM Control Delay (s	)	9.9		29.8	11.9		ALC: N
HCM Lane LOS	-	A		D	В	-	
HCM 95th %tile Q(vel	n)	0	475	0.9	0.1		
	of the other party	Name and Address of the Owner, where the Owner, which is the Owner, where the Owner, which is the Ow			-	I THE REAL PROPERTY.	No. of Lot

Pembroke Industrial Park Passero Associates

Lanes, Volumes, Timings 4: NY-77 (Alleghany Road) & Vision Parkway

2025 Background PM 10/14/2022

	1	1	1	-	1	1	
Lane Group	WBL	WBR	NBT	NBR	SBL	SBT	
Lane Configurations	**		T+			44	
Traffic Volume (vph)	2	9	315	SER OF	3	451	
Future Volume (vph)	2	9	315	1	3	451	
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	
Lane Util. Factor	1.00	1.00	1.00	1.00	0.95	0.95	The state of the s
Frt	0.887		1717	CONTRACTOR OF	No. of Contract	CONTRACTOR OF THE PARTY.	
Flt Protected	0.992						
Satd. Flow (prot)	1672	0	1760	0	0	3284	
Flt Permitted	0.992		ALC: UNIVERSITY OF				
Satd. Flow (perm)	1672	0	1760	0	0	3284	
Link Speed (mph)	30		45			45	
Link Distance (ft)	873	S STORY	403	CONTRACTOR OF THE PARTY.		478	Part of the State
Travel Time (s)	19.8		6.1			7.2	
Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94	A CONTRACTOR OF STREET
Heavy Vehicles (%)	0%	0%	8%	0%	0%	10%	
Adj. Flow (vph)	2	10	335	5001	3	480	HART CHEST STREET
Shared Lane Traffic (%)							
Lane Group Flow (vph)	12	0	336	0	0	483	SHARE THE PARTY OF THE
Enter Blocked Intersection	No	No	No	No	No	No	
Lane Alignment	Left	Right	Left	Right	Left	Left	
Median Width(ft)	12		0			0	
Link Offset(ft)	0		0	HE TO Y	100	0	
Crosswalk Width(ft)	16		16			16	
Two way Left Turn Lane					10000	THE ST	
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	
Turning Speed (mph)	15	9		9	15	THE	ET AL PROPERTY AND A SECOND
Sign Control	Stop		Free			Free	
Intersection Summary	SERVE S	- SAME AND		Sec. 25.44		TO SERVE	Market Street Street

Intersection Summ	ary		
Area Type:	Other		
Control Type: Unsi	gnalized	CONTRACTOR OF THE PROPERTY OF THE PARTY OF T	THE RESIDENCE OF THE PARTY OF T
Intersection Capac	ity Utilization 26.6%	ICU Level of Service A	
Analysis Desired (se	CONTRACTOR OF THE PROPERTY OF		Contract of the Contract of th

Pembroke Industrial Park Passero Associates

Synchro 11 Report Page 5

HCM 6th TWSC 4: NY-77 (Alleghany Road) & Vision Parkway

2025 Background PM 10/14/2022

Intersection			(6.00)	-		alt and
Int Delay, s/veh	0.2					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	Y		1	- COLC	CDL	474
Traffic Vol. veh/h	2	9	315	1	3	451
Future Vol. veh/h	2	9	315	1	3	451
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	Olop			None		None
Storage Length	0	THORIC		- TAUTIC		INDITE
Veh in Median Storage.		275-	0	ATV.		0
Grade, %	0		0		-	0
Peak Hour Factor	94	94	94	94	94	94
Heavy Vehicles, %	0	0	8	0	0	10
Mymt Flow	2		335	1	3	480
MAIN CHOM		10	333		3	400
	Minor1		Major1		Major2	
Conflicting Flow All	582	336	0	0	336	0
Stage 1	336	No.				UNITED STATE
Stage 2	246	-		-	-	-
Critical Hdwy	6.6	6.2		BOYS .	4.1	
Critical Hdwy Stg 1	5.4	-		-		-
Critical Hdwy Stg 2	5.8		1			35
Follow-up Hdwy	3.5	3.3		-	2.2	-
Pot Cap-1 Maneuver	463	711	3153	S Pas	1235	4400
Stage 1	728			-		
Stage 2	778	MANUAL PROPERTY.	DENIE C	S. S. S.	23 10	Chica.
Platoon blocked, %				-		-
Mov Cap-1 Maneuver	462	711	NEW YORK		1235	BLE C
Mov Cap-2 Maneuver	462		- DOMESTIC		1200	
Stage 1	728		-	2000000		erson and
Stage 2	776	-				100
Stage 2	110		Well-	oles or delay		andros.
	U.C			4450	0.5	
Approach	WB		NB		SB	
HCM Control Delay, s	10.7	13/8	0		0.1	200
HCM LOS	В				and the same	
		J-55	700	2 24		
Minor Lane/Major Mvm		NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	200	Buch.	648	1235	
HCM Lane V/C Ratio	and the latest designation of the latest des		-	0.018		-
HCM Control Delay (s)	PER	SALES OF SALES	-	10.7	7.9	0

- - B A A

Pembroke Industrial Park Passero Associates

HCM Control Delay (s) HCM Lane LOS

HCM 95th %tile Q(veh)

Synchro 11 Report

2025 Background PM 10/14/2022

5: NY-77 (Alleghany Road) & NY-5 (Main Street)

	1	-	*	1	-	*	4	†	-	1	1	1
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	*	1.		7	1		7	1		7	1	
Traffic Volume (vph)	74	184	93	56	145	42	68	203	51	69	266	115
Future Volume (vph)	74	184	93	56	145	42	68	203	51	69	266	115
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (ft)	100		0	300		0	260		0	325	TORON CONTRACTOR	0
Storage Lanes	1		0	1	Treasure .	0	1	P-Maria	0	1		0
Taper Length (ft)	100		-	115			100			100	NEW CONTRACTOR OF THE PARTY OF	March Co.
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Frt		0.950			0.966			0.970	10000000		0.955	
Flt Protected	0.950	Manager 1		0.950	1071,55		0.950			0.950	PERSONAL PROPERTY.	2000
Satd. Flow (prot)	1641	1714	0	1805	1786	0	1736	1713	0	1656	1659	0
Flt Permitted	0.634		NEWN	0.581	and the last	MENTE	0.490	AND DESCRIPTION OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUMN TWIND TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN	CHECK THE REAL PROPERTY.	0.594	MINE IN	AND DESCRIPTION OF THE PERSON
Satd. Flow (perm)	1095	1714	0	1104	1786	0	895	1713	0	1035	1659	0
Right Turn on Red	SAMO		Yes	1	MAN LOCAL	Yes	Billians.	AND DESCRIPTION OF THE PERSON	Yes	1000	Market S	Yes
Satd. Flow (RTOR)		35			20	100		22	103		37	163
Link Speed (mph)	HA TOTAL TO	45		all property in	45	ALCOHOL:	CONTRACTOR OF	45	BUG DIS	Salar Printer	45	Same of
Link Distance (ft)		776			1602			801	-		698	
Travel Time (s)	B100000	11.8		and the last	24.3			12.1	2507450	NO THE	10.6	
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Heavy Vehicles (%)	10%	6%	4%	0%	3%	2%	4%	9%	2%	9%	10%	8%
Adj. Flow (vph)	78	194	98	59	153	44	72	214	54	73	280	121
Shared Lane Traffic (%)	and the same	SIR PRODUCE	A STATE OF THE PARTY OF THE PAR	ACCUPATION OF	100	NAME OF TAXABLE PARTY.	12	214	J-4	- Indiana	200	121
Lane Group Flow (vph)	78	292	0	59	197	0	72	268	0	73	401	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)	TENNEN IN	12	ragne	Len	12	right	Leit	12	roynt	Leit	12	Right
Link Offset(ft)	AT THE REAL PROPERTY.	0			0	and the state of	1000	0			0	200
Crosswalk Width(ft)	the same	16	MANGE THE	CONTRACTOR OF THE PARTY OF THE	16	No.	-	16	and the		16	500000
Two way Left Turn Lane		Yes			10			10	4		10	
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	15	1.00	9	15	1.00	9	15	1.00	9	15	1.00	9
Turn Type	Perm	NA	Name of the last o	Perm	NA	9	Perm	NA	9	Perm	NA	9
Protected Phases	Leilli	1		reilli	1		Penn	3		Perm		
Permitted Phases	1		AND NA	IST IST IS IN		Name and	3	3	COMPANY	3	3	Service Con
Detector Phase	1	1		1	1		3	3		3	3	
Switch Phase		Tarante State	a street by	PARTICIO DE	-		PERSONAL PROPERTY.		A 54.54			SALDONS.
Minimum Initial (s)	10.0	10.0	e arrive	10.0	10.0		10.0	10.0		10.0	10.0	
Minimum Split (s)	24.5	24.5	- CONTRACTOR OF THE PARTY OF TH	24.5	24.5	SE WES	24.5	24.5	AND DESCRIPTION OF THE PERSON	24.5	24.5	NEWSON.
Total Split (s)	35.0	35.0		35.0	35.0		45.0	45.0	E SA	45.0	45.0	San Property
Total Split (%)	43.8%	43.8%		43.8%	43.8%	and the second	56.3%	56.3%	Degal Se	56.3%	56.3%	armerita.
Maximum Green (s)	28.5	28.5		28.5	28.5		38.5	38.5		38.5	38.5	
Yellow Time (s)	5.0	5.0		5.0	5.0	-	5.0	5.0	Non-motion	5.0	5.0	on the same
All-Red Time (s)	1.5	1.5		1.5	1.5		1.5	1.5	100	1.5	1.5	BELLI
Lost Time Adjust (s)	0.0	0.0	SERVICE SER	0.0	0.0	and the same	0.0	0.0	Take 1	0.0	0.0	MANAGES .
Total Lost Time (s)	6.5	6.5		6.5	6.5		6.5	6.5		6.5	6.5	-
Lead/Lag	0.0	0.0	-	0.5	0.0	and the second	0.5	0.5	Market	0.5	0.0	SCHOOL SECTION
Lead-Lag Optimize?							ON THE	1000	West Colors	-		
Vehicle Extension (s)	3.0	3.0	Constitution of	3.0	3.0	-	4.0	4.0		4.0	4.0	
Recall Mode	None	None		None	None		None	None				Mars III
1 CODII MODE	None	None		None	None		None	None		None	None	

Pembroke Industrial Park Passero Associates

Synchro 11 Report Page 7 Lanes, Volumes, Timings 5: NY-77 (Alleghany Road) & NY-5 (Main Street) 2025 Background PM 10/14/2022

	,	-	-	1	-	•	1	Ť	-	1	+	4
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Act Effct Green (s)	14.1	14.1	3165 F	14.1	14.1	115	18.7	18.7	Carrier Street	18.7	18.7	20000
Actuated g/C Ratio	0.30	0.30		0.30	0.30	-	0.40	0.40	and the latest and th	0.40	0.40	NAME AND DESCRIPTION OF THE PERSON OF THE PE
v/c Ratio	0.24	0.54		0.18	0.36	PULL.	0.20	0.38	STEEN .	0.18	0.59	E-0.15
Control Delay	16.3	17.4		15.5	14.9	and applications	11.1	11.0		10.6	13.9	MORNING TO
Queue Delay	0.0	0.0		0.0	0.0		0.0	0.0	YES FIRE	0.0	0.0	200
Total Delay	16.3	17.4		15.5	14.9		11.1	11.0		10.6	13.9	NO.
LOS	В	В		В	В	-	В	В	THE WAY	В	В	A STATE OF
Approach Delay		17.1			15.1			11.0			13.4	-
Approach LOS	Contract of	В	1	-	В	No. of Lot	BIT THE	В		SWEET	В	STREET, STREET,
Queue Length 50th (ft)	14	51		11	33		10	38		10	62	
Queue Length 95th (ft)	53	150		42	102		40	109	The state of the s	39	171	AND D
Internal Link Dist (ft)		696			1522			721		The state of the s	618	No. of Concession, Name of Street, or other Designation, or other
Turn Bay Length (ft)	100	To the last		300		and the same	260	A SECTION AND ADDRESS OF THE PARTY OF THE PA	-	325	Contract of	ALC: NO.
Base Capacity (vph)	714	1130		720	1172		750	1440	Aller of Principle	868	1397	and the same
Starvation Cap Reductn	0	0	TO COLOR	0	0		0	0	E CONTRACT	0	0	Harris
Spillback Cap Reductn	0	0		0	0		0	0		0	0	No. of Concession, Name of Street, or other Designation, or other
Storage Cap Reductn	0	0	No. of Lot	.0	0	5210	0	0		0	0	ADEL
Reduced v/c Ratio	0.11	0.26		0.08	0.17		0.10	0.19		0.08	0.29	M. SANGELLON

Intersection Summary

Area Type: Other
Cycle Length: 80

Actuated Cycle Length: 46.8

Natural Cycle: 50

Control Type: Actuated-Uncoordinated
Maximum vic Ratio: 0.59

Intersection Signal Delay: 14.1 Intersection LOS: B
Intersection Capacity Utilization 74.7% ICU Level of Service D

Analysis Period (min) 15

Splits and Phases: 5: NY-77 (Alleghany Road) & NY-5 (Main Street)

\$ p1



Lanes, Volumes, Timings 6: Brickhouse Road & NY-5 (Main Street) 2025 Background PM 10/14/2022

Synchro 11 Report

Page 9

	$\rightarrow$	*	1	-	1	-		
Lane Group	EBT	EBR	WBL	WBT	NBL	NBR		
Lane Configurations	1>		*	4	7	7		
Traffic Volume (vph)	327	3	2	350	6	16	A TOTAL MARKET	Chickell L.
Future Volume (vph)	327	3	2	350	6	16		
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	Server states and the	S. W. Table
Storage Length (ft)		0	120		150	0		
Storage Lanes	150	- 0	6897 E	The Par	1	1	Marie Carlos	A 200 A
Taper Length (ft)			75		100	NAME OF TAXABLE PARTY.		
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	and the second second	SECTION .
Frt	0.999		The state of the s	- Contracts		0.850		-
Flt Protected			0.950	100	0.950	SHEET SHEET		Charles and Control
Satd. Flow (prot)	1754	0	1805	1827	1626	1615		
Flt Permitted		1	0.950	-	0.950	BETTER ST		STATE OF THE STATE
Satd. Flow (perm)	1754	0	1805	1827	1626	1615		
Link Speed (mph)	45		THE REE	45	30		The second second	THE REAL PROPERTY.
Link Distance (ft)	831			776	817			ALL PROPERTY.
Travel Time (s)	12.6			11.8	18.6	Series No.	Carlo Same Cherry No.	The Same of the Sa
Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94		
Heavy Vehicles (%)	8%	33%	0%	4%	11%	0%		****************
Adj. Flow (vph)	348	3	2	372	6	17		
Shared Lane Traffic (%)		0-11-5	Carry S	E.T.	-	APRILL.		
Lane Group Flow (vph)	351	0	2	372	6	17		AND DESCRIPTION OF SHARE
Enter Blocked Intersection	No	No	No	No	No	No		SERVICE I
Lane Alignment	Left	Right	Left	Left	Left	Right		MANUFACTURE OF THE PARTY OF THE
Median Width(ft)	12	2 7/2		12	12	- THE		TE CENTER
Link Offset(ft)	0			0	0			
Crosswalk Width(ft)	16	ALC: UNK	100	16	16	MARKET H		
Two way Left Turn Lane				Yes				
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00		2500
Turning Speed (mph)		9	15		15	9		
Sign Control	Free			Free	Stop			
Intersection Summary								
	Other		E 3 17	100 mg		1		S. Edward
Control Type: Uneignalized								

Control Type: Unsignalized
Intersection Capacity Utilization 28.4%
Analysis Period (min) 15

ICU Level of Service A

Pembroke Industrial Park
Passero Associates

HCM 6th TWSC 6: Brickhouse Road & NY-5 (Main Street)

2025 Background PM 10/14/2022

Intersection	9892	CHOSE	description of				Street, or other party of the last of the
Int Delay, s/veh	0.4		-				
		rne	16/85	NA OR			
Movement Conferentian	EBT	EBR	WBL	WBT	NBL	NBR	n s
Lane Configurations Traffic Vol., veh/h	\$	-	7	1	7	7	Sharper In
Future Vol. veh/h	327	3	2	350	6	16	
Conflicting Peds, #/hr	327	0	0	350	6	16	ALC: NO
Sign Control	Free	Free	Free	Free	Stop	Stop	E-26-5
RT Channelized	riee		Free		Stop	-	100 H
Storage Length		None	120	None	150	None	6.5
Veh in Median Storage,		-	120		150	U	NOTICE OF
Grade, %	0	-		0	0	SEE S	
Peak Hour Factor	94	94	94	94	94	94	E-ENURE
Heavy Vehicles, %	8	33	0	4	11	0	-
Mymt Flow	348	3	2	372	6	17	V Miller I
The state of the s	040			312	D	H	Section 5
	lajor1		Major2		Minor1	Mary Inc.	
Conflicting Flow All	0	0	351	0	726	350	
Stage 1					350		100
Stage 2	-		-		376		
Critical Hdwy			4.1		6.51	6.2	
Critical Hdwy Stg 1			-	-	5.51	-	
Critical Hdwy Stg 2		1		915	5.51		
Follow-up Hdwy	-	-	2.2	-		3.3	
Pot Cap-1 Maneuver	1000		1219		379	698	
Stage 1	-	-			694		
Stage 2	-		100		675	Sie e	
Platoon blocked, %	-		_	-			
Mov Cap-1 Maneuver		Santa Santa	1219		378	698	
Mov Cap-2 Maneuver	-		-		378	-	
Stage 1					694		
Stage 2					674	-	
	1	No.		1	SE	7,72	2000
Approach	EB		WB		NB	SIRVING D	N 5340
HCM Control Delay, s	0	dia eu	0		11.5	Terror I	TO BE
HCM LOS	-		-	-	В		The same
THE SHIP OF	Like Hij	SERVICE SERVICE	STATE OF THE STATE		No.		ARS: N
Minor Lane/Major Mymt		NBLn11	NIDI -2	COT	EDD	MDI	MOT
	ALMOST NA			EBT	EBR	WBL	WBT
Capacity (veh/h) HCM Lane V/C Ratio	195	378	698			1219	
	WALLEY BEAU	0.017		-		0.002	
HCM Control Delay (s) HCM Lane LOS		14.7 B	10.3 B		1	8	
HCM 95th %tile Q(veh)	No.	0.1	0.1	-		A	
riciwi souri %tile Q(ven)		0.1	0.1	- 9.5	- 1	0	200

Pembroke Industrial Park Passero Associates

## A6

## Level of Service Calculations: Full Development Conditions

2025 Phase 1 AM 10/27/2022

Synchro 11 Report

Page 1

1: NY-77 (Alleghany Road) & NYS Thruway (Exit 48A)

	•	*	1	1	1	4	
Lane Group	EBL	EBR	NBL	NBT	SBT	SBR	
Lane Configurations	7	7	7	<b>↑</b>	41		
Traffic Volume (vph)	99	242	363	100	162	211	TO THE REAL PROPERTY.
Future Volume (vph)	99	242	363	100	162	211	DATE OF THE PARTY
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	-
Storage Length (ft)	0	0	250			0	
Storage Lanes	Kernes Sale	1	1		ACTION OF	0	
Taper Length (ft)	25		150			B/800E/03/9000	District Control
Lane Util. Factor	1.00	1.00	1.00	1.00	0.95	0.95	ASSESSED AND ADDRESS OF THE PARTY OF THE PAR
Frt		0.850			0.915		
Fit Protected	0.950		0.950	PER STA	AT THE	-	TANK A
Satd. Flow (prot)	1480	1214	1399	1712	2906	0	
Fit Permitted	0.950	-	0.514		Physical Control	E ATTEN	AL SANS
Satd. Flow (perm)	1480	1214	757	1712	2906	0	
Right Turn on Red		Yes		ALC: NO		Yes	THE PARTY
Satd. Flow (RTOR)		263			229		
Link Speed (mph)	30	15-10	all de	45	45	1133	T-1-1-2
Link Distance (ft)	854			973	786		
Travel Time (s)	19.4	100	Market A	14.7	11.9	14 6 5 5 6	PROTECTION.
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	
Heavy Vehicles (%)	22%	33%	29%	11%	8%	18%	STENEST ST
Adj. Flow (vph)	108	263	395	109	176	229	
Shared Lane Traffic (%)	AND DESIGNATION		2012/1908		THE SECTION	TOTAL PROPERTY.	
Lane Group Flow (vph)	108	263	395	109	405	0	
Enter Blocked Intersection	No	No	No	No	No	No	TO SECURE
Lane Alignment	Left	Right	Left	Left	Left	Right	
Median Width(ft)	12	ENGLES	Marie Co.	12	12	Made and	NAME OF STREET
Link Offset(ft)	0		and the same of th	0	0		
Crosswalk Width(ft)	16	A STORY	ALC: N	16	16	Mental State	- Colonia
Two way Left Turn Lane	to Page 1						of the self-self-self-self-self-self-self-self-
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	Sales Sales
Turning Speed (mph)	15	9	15			9	
Turn Type	Prot	pm+ov	pm+pt	NA	NA	No. of Lot	SERVICE IN
Protected Phases	4	5	5	2	6		
Permitted Phases	and the same	4	2	NAME OF TAXABLE PARTY.	STATE OF THE PARTY OF	905	
Detector Phase	4	5	5	2	6		
Switch Phase	WALLEY.	ar made	William Inter	STREET	1990 O. TO	Contract of the last	50,5160
Minimum Initial (s)	6.0	6.0	6.0	6.0	6.0		and the same of th
Minimum Split (s)	22.5	12.0	12.0	22.5	22.5	STATE OF THE PARTY OF	Services .
Total Split (s)	30.0	25.0	25.0	55.0	30.0		
Total Split (%)	35.3%	29.4%	29.4%	64.7%	35.3%		ALC: NO.
Maximum Green (s)	24.0	19.0	19.0	49.0	24.0	The second second	
Yellow Time (s)	4.0	4.0	4.0	4.0	4.0	CALL STATE	Desir Property
All-Red Time (s)	2.0	2.0	2.0	2.0	2.0	-	SECTION AND ADDRESS OF
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	NO. OF THE PERSON	
Total Lost Time (s)	6.0	6.0	6.0	6.0	6.0		100000
Lead/Lag	0.0	Lag	Lag	0.0	Lead	-	SA PARTIES AND ADDRESS OF THE PARTIES AND ADDRES
Lead-Lag Optimize?		Yes	Yes		Yes	A STATE OF THE PARTY OF	
Vehicle Extension (s)	2.0	1.0	1.0	1.0	2.0	91324	Sign and the same
Recall Mode	None	None	None	None	None		Marie Ca
recail wode	None	None	None	None	None		

Pembroke Industrial Park
Passero Associates

Lanes, Volumes, Timings

1: NY-77 (Alleghany Road) & NYS Thruway (Exit 48A)

2025 Phase 1 AM 10/27/2022

	•	*	1	1	1	4
Lane Group	EBL	EBR	NBL	NBT	SBT	SBR
Act Effct Green (s)	8.7	26.4	30.8	33.0	8.6	
Actuated g/C Ratio	0.18	0.55	0.64	0.68	0.18	
v/c Ratio	0.40	0.34	0.57	0.09	0.58	
Control Delay	25.8	2.1	12.6	4.9	13.2	
Queue Delay	0.0	0.0	0.0	0.0	0.0	
Total Delay	25.8	2.1	12.6	4.9	13.2	
LOS	C	A	В	A	В	
Approach Delay	9.0			11.0	13.2	
Approach LOS	A	THE RE	29/75	В	В	
Queue Length 50th (ft)	31	0	53	11	26	Committee of the Commit
Queue Length 95th (ft)	76	23	128	32	66	And the second and the second second second second
Internal Link Dist (ft)	774			893	706	
Turn Bay Length (ft)		-	250		AND FOR	AT THE RESIDENCE OF STREET
Base Capacity (vph)	813	842	814	1575	1701	
Starvation Cap Reductn	0	0	0	0	0	CANADA TO THE COURT AND LOSS OF THE COURT
Spillback Cap Reductn	0	0	0	0	0	
Storage Cap Reductn	0	0	0	0	0	
Reduced v/c Ratio	0.13	0.31	0.49	0.07	0.24	
Intersection Summary			E6 3 8		40000	
Area Type:	Other					
Cycle Length: 85	Control of the Control	ALL STATE		Salar Salar	SECTION SE	
Actuated Cycle Length: 4	8.2					
Natural Cycle: 60	900		ACTION S	CHE		Markey of the Salar Sala
Control Type: Actuated-U	Incoordinated					
1 TO 1 TO 1 TO 1 TO 1 TO 1 TO 1	the same that th	A THE REAL PROPERTY.	and the second	Contraction in Contract		

Splits and Phases: 1: NY-77 (Alleghany Road) & NYS Thruway (Exit 48A)

Intersection Signal Delay: 11.1 Intersection Capacity Utilization 51.9%

Analysis Period (min) 15



Intersection LOS: B
ICU Level of Service A

Pembroke Industrial Park Passero Associates

2025 Phase 1 AM 10/27/2022

Lanes, Volumes, Timings 2: NY-77 (Alleghany Road) & Flying J Truck Access

	1	-	1	1	+	1	
Lane Group	EBL	EBR	NBL	NBT	SBT	SBR	
Lane Configurations	7	7	*	4	414		
Traffic Volume (vph)	55	4	2	385	327	43	
Future Volume (vph)	55	4	2	385	327	43	
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	
Storage Length (ft)	0	0	440		No. of Street, or other transferred	0	
Storage Lanes	1	1	1	APPEN	STATE OF THE PARTY	0	A SHOULD BE SHOULD BE SHOULD BE SHOULD BE
Taper Length (ft)	25		130				
Lane Util, Factor	1.00	1.00	1.00	1.00	0.95	0.95	
Frt		0.850			0.983		
Fit Protected	0.950		0.950	300 M		AS THE REAL PROPERTY.	
Satd. Flow (prot)	912	808	902	1696	2854	0	
Fit Permitted	0.950	STATE OF	0.950		District No.	No. of Contract of	No. 10 To
Satd. Flow (perm)	912	808	902	1696	2854	0	
Link Speed (mph)	10		British S	45	45	2000 E-20	The state of the s
Link Distance (ft)	888		APPLICATION OF THE PERSON OF T	664	973	No.	
Travel Time (s)	60.5	AND DESCRIPTION	THE REAL PROPERTY.	10.1	14.7	17.24.77.00	State of the State
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96	
Heavy Vehicles (%)	98%	100%	100%	12%	15%	95%	A TOTAL PROPERTY OF THE PROPERTY OF
Adj. Flow (vph)	57	4	2	401	341	45	
Shared Lane Traffic (%)	Charles and	E MAN TANK		Mary I was a	- Contractor	MESCRIPTOR	Charles and the Charles and Charles and the Charles
Lane Group Flow (vph)	57	4	2	401	386	0	
Enter Blocked Intersection	No	No	No	No	No	No	
Lane Alignment	Left	Right	Left	Left	Left	Right	
Median Width(ft)	12	AND VALUE OF		12	12	SHEET STATE	
Link Offset(ft)	0		THE REAL PROPERTY.	0	0		
Crosswalk Width(ft)	16	Te Care	到 经 图 图	16	16	-	
Two way Left Turn Lane							
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	
Turning Speed (mph)	15	9	15			9	
Sign Control	Stop	STAN		Free	Free		
Intersection Summary							
Area Type: (	Other		Total Control				

Control Type: Unsignalized Intersection Capacity Utilization 30.3% Analysis Period (min) 15

ICU Level of Service A

Pembroke Industrial Park Passero Associates

Synchro 11 Report Page 3

HCM 6th TWSC 2: NY-77 (Alleghany Road) & Flying J Truck Access

2025 Phase 1 AM 10/27/2022

It Delay, s/veh   1.9	La constant de la con							
Section   Sect	Intersection	10	1	2018	EW.	arch-g		39.90
ane Configurations raffic Vol, veh/h	int Delay, siven							
uture Vol, veh/h 55 4 2 385 327 43 onflicing Peds, #/hr 0 0 0 0 0 0 0 onflicing Peds, #/hr 0 0 0 0 0 0 0 onflicing Peds, #/hr 0 0 0 0 0 0 0 onflicing Peds, #/hr 0 0 0 0 0 0 0 onflicing Peds, #/hr 0 0 0 0 0 0 0 0 onflicing Peds, #/hr 0 0 0 0 0 0 0 0 onflicing Peds, #/hr 0 0 0 0 0 0 0 0 onflicing Peds, #/hr 0 0 0 440	Movement	The second second		ALC: NAME OF	NBT	SBT	SBR	
uture Vol, veh/h 55 4 2 385 327 43 onflicting Peds, #hr 0	Lane Configurations		7	7	1	1		
onflicting Peds, #/hr         0	Traffic Vol, veh/h			2		327		4
Stop   Stop   Free	Future Vol, veh/h							
Tohannelized						0		E CO
torage Length         0         0         440         -         -           eh in Median Storage, #         0         -         -         0         0         -         -         0         0         -         -         -         0         0         -         -         -         0         0         -         -         -         -         0         0         -         -         -         -         0         0         -         -         -         -         0         0         -	Sign Control	Stop	Stop	Free	Free	Free	Free	
eh in Median Storage, # 0		-	None		None		None	100
rade, % 0	Storage Length		0	440	-	-	-	
eak Hour Factor 96 96 96 96 96 96 96 96 96 96 96 97 96 97 96 97 96 97 96 97 96 97 97 97 97 97 97 97 97 97 97 97 97 97	Veh in Median Storage	e, # 0			0	0		
Part	Grade, %	0	-	-	0	0	-	
Nort Flow   57   4   2   401   341   45   45	Peak Hour Factor	96		96	96	96	96	
Agior/Minor   Minor2   Major1   Major2	Heavy Vehicles, %		100	100	12	15	95	
Iajor/Minor   Minor2   Major1   Major2	Mvmt Flow	57	4	2	401	341	45	No.
onflicting Flow All 769 193 386 0 - 0 Stage 1 364 Stage 2 405 Stage 2 405 Stage 1 7.27 Stage 1 7.27 Stage 1 7.27 Stage 1 483 Stage 1 483 Stage 2 476 Stage 2 476 Stage 2 476 Stage 1 483 Stage 1 483 Stage 2 476 Stage 1 483 Stage 1 Stage 2 476 Stage 1 Stage 2 55 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5								
onflicting Flow All 769 193 386 0 - 0 Stage 1 364 Stage 1 364 Stage 2 405 ritical Hdwy 807 8.4 5.6 ritical Hdwy Stg 1 7.27 ritical Hdwy Stg 2 6.87 collow-up Hdwy 4.431 4.25 3.15	Major/Minor	Minor?	Series 1	Aninet		Maine	257	NOTE OF
Stage 1   364           Stage 2   405         Stage 3   405   8.4   5.6         Iritical Hdwy 8tg 1   7.27         Iritical Hdwy 8tg 2   6.87         Iritical Hdwy 9tg 2   4.81         Iritical Hdwy 9tg 2   4.81         Iritical Hdwy 9tg 2   4.81         Iritical Hdwy 9tg 2   4.81   -       Iritica						wajur2	0	
Stage 2			and the local division in		-	· ·		STATE OF THE PARTY
ritical Hdwy 8.07 8.4 5.6			10-25	The state of the state of	The second			
ritical Hdwy Stg 1 7.27 ritical Hdwy Stg 2 6.87						_		Name to the
ritical Hdwy Stg 2 6.87								No.
ollow-up Hdwy         4.431         4.25         3.15         -							-	
ot Cap-1 Maneuver         224         604         739         -         -           Stage 1         483         -         -         -         -           Iatoon blocked, %         -         -         -         -           Iov Cap-1 Maneuver         223         604         739         -         -           Iov Cap-2 Maneuver         223         -         -         -         -           Stage 1         482         -         -         -         -           Stage 2         476         -         -         -         -           CM Control Delay, s         25.5         0.1         0         0         -           CM LOS         D         -					200		100	
Stage 1						-	-	
Stage 2			of the latest designation of the latest desi	10 200		10 700		1
Idation blocked, %				_	_	-	-	
Nov Cap-1 Maneuver   223   604   739		476				101 1		100
Stage 1					-		-	
Stage 1			The second	739		CALCULATION.		
Stage 2				-			-	
Description					200			
CM Control Delay, s 25.5	Stage 2	476						
CM Control Delay, s 25.5		100	1.5	1.1	20.25	1000		SYNT
CM Control Delay, s 25.5	Approach	EB	No. 2	NB	100	SB		1000
CM LOS   D			in the same		A Miles			0.12
NBL NBT EBLn1 EBLn2 SBT SBR   NBT EBLn2 SBT SBR SBT SBR   NBT EBLn2 SBT SBR SBR SBT SBR SBR SBT SBR SBT SBR SBT SBR SBR SBT SBR SBR SBT SBR SBR SBT SBR SBR SBR SBR SBT SBR	HCM LOS			0.1	A PARTY	U	- 11,00	3 (-3 14.5)
apacity (veh/h) 739 - 223 604	Property and Property and	BUSINE .	Contract of	THE REAL PROPERTY.	No. of Lot	251117	A STREET	No. of Lot
apacity (veh/h) 739 - 223 604					la la		200	
CM Lane V/C Ratio 0.003 - 0.257 0.007 CM Control Delay (s) 9.9 - 26.6 11 CM Lane LOS A - D B		ıt	- Contractor	NBT	_		SBT	SBR
CM Control Delay (s) 9.9 - 26.6 11								
CM Lane LOS A - D B							-	-
	HCM Control Delay (s)			100			27-18	
CM 95th %tile Q(veh) 0 - 1 0	HCM Lane LOS			-				
	HCM 95th %tile Q(veh	)	0	351	1	0	10 Pe-	

Pembroke Industrial Park Passero Associates

2025 Phase 1 AM

4: NY-77 (Alleghany Road) & Proposed Southerly Access/Vision Parkway

10/27/2022

	1	-	-	1	-	1	1	1	-	1	1	1
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	ħ	1			4			4			414	
Traffic Volume (vph)	13	0	3	1	0	7	14	370	9	8	276	54
Future Volume (vph)	13	0	3	1	0	7	14	370	9	8	276	54
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.95	0.95	0.95
Frt	P. C. C.	0.850	ARTIS!		0.882	DESCRIPTION OF THE PERSON NAMED IN	Take to be	0.997		To 100	0.976	Marine.
Flt Protected	0.950				0.994			0.998	The second second		0.999	THE OWNER OF THE OWNER OF THE OWNER,
Satd. Flow (prot)	1805	1615	0	0	1666	0	0	1657	0	0	3005	0
Flt Permitted	0.950				0.994			0.998			0.999	and the same of th
Satd. Flow (perm)	1805	1615	0	0	1666	0	0	1657	0	0	3005	0
Link Speed (mph)		30			30		-	45		STATE OF THE PARTY OF	45	
Link Distance (ft)	Carlo Marke	883	ALC: NO.		873	CENTAL PROPERTY	MA NO	403	HERMA		478	-
Travel Time (s)		20.1			19.8			6.1		The contract of	7.2	
Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
Heavy Vehicles (%)	0%	0%	0%	0%	0%	0%	0%	15%	0%	0%	21%	0%
Adj. Flow (vph)	14	0	3	1	0	7	15	394	10	9	294	57
Shared Lane Traffic (%)												Name and Address of the Owner, where the Owner, which is the Owner, which is the Owner, which is the Owner, where the Owner, which is the Owner
Lane Group Flow (vph)	14	3	0	0	8	0	0	419	0	0	360	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		12			12		-	0			0	
Link Offset(ft)		0	PAU 38	No. of Street, or other Designation of the last of the	0	SUL	100	0	48-508	Sales and	0	North Co.
Crosswalk Width(ft)	WINCOM STREET	16			16			16			16	-
Two way Left Turn Lane	1		MAL SH	1		No.				Ly-Sam		Contract of
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	15	100 m	9	15	THE REAL PROPERTY.	9	15	UNITED A	9	15	اخرادك	9
Sign Control		Stop	The state of the s		Stop	The second second		Free		and the latest designation of the latest des	Free	and the latest states
Internation Cummon	TO SHOW IN	STOCKERSON	The second second	OSTON SHAPE	Name and Address of the Owner, where	ALC: UNKNOWN	NAME OF TAXABLE PARTY.	MERCHINO NO.	MATUREAU	CONTRACTOR OF THE PARTY OF THE	NAME OF TAXABLE PARTY.	PARTICIPATION NAMED IN

Sign Control	Stop	Stop	Free	Free
Intersection Summary				
Area Type:	Other			
Control Type: Unsignalize	ed		Company of the same	
Intersection Capacity Utili	ization 41.8%	ICU Level of Service A		
A CONTRACTOR OF THE PROPERTY OF THE PARTY OF	THE TAXABLE PROPERTY AND ADDRESS OF THE PARTY	Market Street, Street Street,	The second second second second second	the same of the sa

HCM 6th TWSC

2025 Phase 1 AM

10/27/2022

4: NY-77 (Alleghany Road) & Proposed Southerly Access/Vision Parkway

Intersection	900 H		the second				- 60						
Int Delay, s/veh	0.7												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	٦	1.			4			4			414		
Traffic Vol, veh/h	13	0	3	1	0	7	14	370	9	8	276	54	
Future Vol, veh/h	13	0	3	1	0	7	14	370	9	8	276	54	
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0	
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free	
RT Channelized		THE S	None		WANT OF STREET	None	A Total	-	None	08-5		None	AND MAKE THE
Storage Length	0		-	-	-	-	-	-		-	-		
Veh in Median Storage,	# -	0		STATE OF	0	Part I	100 100	0	1000	No. of London	0	Sha to	AND RESIDENCE
Grade, %		0	-	-	0	-		0	-	-	0	-	
Peak Hour Factor	94	94	94	94	94	94	94	94	94	94	94	94	
Heavy Vehicles, %	0	0	0	0	0	0	0	15	0	0	21	0	
Mvmt Flow	14	0	3	10	0	7	15	394	10	9	294	57	

Major/Minor	Minor2	10 mg	A.	finor1		1	Major1		133	Major2	353		
Conflicting Flow All	774	775	176	594	798	399	351	0	0	404	0	0	
Stage 1	341	341	-	429	429				1	-	BORLEY.		AND DESCRIPTION OF THE PARTY.
Stage 2	433	434	-	165	369		-	-	-	-	-	-	
Critical Hdwy	7.3	6.5	6.9	7.3	6.5	6.2	4.1		-	4.1			All the second second
Critical Hdwy Stg 1	6.5	5.5	-	6.1	5.5			-		-	-		
Critical Hdwy Stg 2	6.1	5.5	1	6.5	5.5	18,44	ER (FS)	111411	55/4	-			CALL CONTRACTOR
Follow-up Hdwy	3.5	4	3.3	3.5	4	3.3	2.2	-	-	2.2	-		
Pot Cap-1 Maneuver	305	331	843	406	321	655	1219		200	1166	N THE	S STATE	A STAN AND THE
Stage 1	653	642	-	608	587	-	-	-	-		-	-	
Stage 2	605	585		826	624	ME	TOTAL O	SECUL	11/2	F 54 5	WALLEY OF	A1525-11	CONTRACTOR OF STREET
Platoon blocked, %				Name and Address	1011-1010			-			-	-	
Mov Cap-1 Maneuver	296	322	843	397	313	655	1219	534	No.	1166	STATE OF	MESSAGE P	The Park State of the Park
Mov Cap-2 Maneuver	296	322		397	313			-	-	-	-	-	
Stage 1	643	636	-	598	578		PAR ST	No.			STATE AND	NAC TO	ENGINE ENGINEER
Stage 2	589	576	- Company	815	618	-	-	-	-			-	
Approach	EB			WB			NB			SB			

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	EBLn2	WBLn1	SBL	SBT	SBR	
Capacity (veh/h)	1219			296	843	606	1166			
HCM Lane V/C Ratio	0.012	-		0.047	0.004	0.014	0.007		-	
HCM Control Delay (s)	8	0		17.8	9.3	11	8.1	0	10 A 48	
HCM Lane LOS	A	A		C	A	В	A	A		
HCM 95th %tile Q(veh)	0	Same.	25	0.1	0	0	0		STREET, STREET,	

Pembroke Industrial Park Passero Associates Synchro 11 Report Page 5 Pembroke Industrial Park Passero Associates

2025 Phase 1 AM 10/27/2022

5: NY-77 (Alleghany Road) & NY-5 (Main Street)

	•	<b>→</b>	*	1	-	*	1	†	~	1	ţ	4
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	7	1.		*	1.		ሻ	4		7	1	
Traffic Volume (vph)	91	145	82	102	138	69	97	224	60	25	195	59
Future Volume (vph)	91	145	82	102	138	69	97	224	60	25	195	59
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (ft)	100		0	300		0	260		0	325		0
Storage Lanes	1	September 1	0	CONTRACTOR	ALC: N	0	1	attent par	0	3		0
Taper Length (ft)	100			115			100	and the same		100	Charles and	-
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Frt		0.946			0.950			0.968	1,00	11.00	0.965	1.00
Flt Protected	0.950	163 (135	Carlo City	0.950	MALE LANG	-3-11	0.950	BASISSISSISSISSISSISSISSISSISSISSISSISSIS	Carrier No.	0.950	0.000	ALC: Y
Satd, Flow (prot)	1543	1703	0	1612	1616	0	1770	1794	0	1456	1529	0
Flt Permitted	0.591	TO PARTY	55/10/45	0.578	ALTON MARKET	#1551G	0.559	Name and Address of the Owner, where		0.512	1020	in the same
Satd. Flow (perm)	960	1703	0	981	1616	0	1041	1794	0	785	1529	0
Right Turn on Red	and the later of	Line years	Yes	SESSEE AND ADDRESS OF THE PARTY	No.	Yes	HEED WATER	TO STATE OF THE PARTY OF THE PA	Yes	100	1020	Yes
Satd. Flow (RTOR)		40	100		35	100		23	103		26	100
Link Speed (mph)	SHEET SHEET	45	ENS-IN	END ED	45	CONTRACTOR OF THE PARTY OF THE	West Com	45	the same	SAMESIE	45	STATE OF
Link Distance (ft)		776			1602			801	and the		698	-
Travel Time (s)	50 St. 2	11.8	A		24.3	THE REAL PROPERTY.	THE PARTY OF	12.1	EASTERN .	WIR COLUMN	10.6	ALC: U
Peak Hour Factor	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76
Heavy Vehicles (%)	17%	7%	3%	12%	11%	13%	2%	0.76	12%	24%	15%	36%
Adj. Flow (vph)	120	191	108	134	182	91	128	295	79	33	257	78
Shared Lane Traffic (%)	SEAL CONTRACTOR	Market S	AND RES	104	102	And the state of	120	250	15	33	201	/0
Lane Group Flow (vph)	120	299	0	134	273	0	128	374	0	33	335	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No.	No	No.	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	
Median Width(ft)	E-PS-WIT	12	rugin	- Len	12	ragin	Leit	12	Right	Leit	12	Right
Link Offset(ft)		0			0	O CANAD	MINISTER CO.	0			0	
Crosswalk Width(ft)	TO COLORADO	16	A SHAPE OF SHAPE	The latest lates	16	ESTIMATE	No. of Lot, House, etc., in case, the case, th	16	PRINCEPHE	SERVICE SERVIC	16	TO CALL THE
Two way Left Turn Lane	-000	Yes			10			10			10	
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	15	1.00	9	15	1.00	9	15	1.00	9	1.00	1.00	1.00
Turn Type	Perm	NA	and the same	Perm	NA	9	Perm	NA	9	Perm	NA	9
Protected Phases	reilli	1		Perm	NA 1	270000	Perm			Perm		
Permitted Phases	4	ON THE REAL PROPERTY.	COLUMN TO SERVE	Str. Mate	Device to the later of the late	ALK LEV	3	3	SERVICE DATE		3	
Detector Phase	1	1		1	1		3	3		3	3	Cart.
Switch Phase	A72304514	In Colors	U.S. 1984	SAN THE PROPERTY.	SALAR SALAR	NAC AND PA	SCHOOL STATE	SAME IN	Wilsiam	3	NAME OF TAXABLE PARTY.	MOTOR SECTION
Minimum Initial (s)	10.0	10.0		10.0	10.0		10.0	10.0		10.0	10.0	and the same
Minimum Split (s)	24.5	24.5	Sal session	24.5	24.5	No lection	24.5	24.5	STASSES.	24.5	24.5	AUTHOR S
Total Split (s)	35.0	35.0		35.0	35.0	NEEDS.	45.0	45.0	SEN PUR	45.0	45.0	
Total Split (%)	43.8%	43.8%	- 10-15-14	43.8%	43.8%	PER SERVICE	56.3%	56.3%	and the same	56.3%	56.3%	Anadaka
Maximum Green (s)	28.5	28.5		28.5	28.5	241,641	38.5	38.5	Sylv	38.5	38.5	
Yellow Time (s)	5.0	5.0	C. C. C. C.	5.0	5.0	in plant	5.0	5.0	SATURDAY OF THE	5.0	5.0	CONTRACTOR IN CO
All-Red Time (s)	1.5	1.5		1.5	1.5		1.5	1.5		1.5	1.5	
Lost Time Adjust (s)	0.0	0.0	Chierra Co.	0.0	0.0	NO TORR	0.0	0.0	N. C. C. C.	0.0	0.0	NAME OF TAXABLE PARTY.
Total Lost Time (s)	6.5	6.5	TO SHOW SHE	6.5	6.5		6.5	6.5	Committee of	6.5		The state of
Lead/Lag	0.0	0.0	Secondary.	0.5	0.0	ALCO NO.	0.0	0.0	Series Series	0.5	6.5	
Lead-Lag Optimize?						WILLIAM		1000		0.000		15 200
Vehicle Extension (s)	3.0	3.0	TO MENT	3.0	3.0	Street and	4.0	4.0	MARCH TO	4.0	4.0	and and and
Recall Mode	None	None		None None	None	and the second	None	None		The second second		100
recall Mode	None	Nous		None	None		None	None		None	None	

Pembroke Industrial Park Passero Associates

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Lanes, Volumes, Timings

5: NY-77 (Alleghany Road) & NY-5 (Main Street)

2025 Phase 1 AM 10/27/2022

	•	$\rightarrow$	1	1	-	*	1	1	-	1	1	4
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBF
Act Effct Green (s)	15.4	15.4		15.4	15.4		18.7	18.7	A Control of the Control	18.7	18.7	
Actuated g/C Ratio	0.32	0.32		0.32	0.32	and the same of th	0.39	0.39		0.39	0.39	
v/c Ratio	0.39	0.52		0.43	0.51		0.32	0.53	Contract of	0.11	0.55	THE RES
Control Delay	18.8	16.3		19.5	16.3		13.5	14.0		11.5	14.9	THE REAL PROPERTY.
Queue Delay	0.0	0.0	0.00	0.0	0.0	NO.	0.0	0.0	No. of Page 1	0.0	0.0	mienta.
Total Delay	18.8	16.3		19.5	16.3	And the Party of t	13.5	14.0	Town town	11.5	14.9	DO POR
LOS	В	В		В	В	EARS I	В	В	alertic ser	В	В	William I
Approach Delay		17.0			17.4	Market Control	NAME OF TAXABLE PARTY.	13.9			14.6	The same
Approach LOS		В	STATE OF	THE STATE OF	В	PEN PER		В	ALL STREET	C 14 1/2	В	ALLIES A
Queue Length 50th (ft)	24	53		27	48		21	62		5	55	
Queue Length 95th (ft)	65	120	ALC: NO.	71	111	SEASON S	58	139	Name of Street	20	128	
Internal Link Dist (ft)		696		and the state of t	1522		-	721	Carpet Street	-	618	
Turn Bay Length (ft)	100	-		300		200	260	NAME OF STREET	No.	325	Note: Indian	and an
Base Capacity (vph)	615	1107		629	1049	THE RESERVE OF THE PARTY OF THE	853	1475		644	1258	- PROPERTY
Starvation Cap Reductn	0	0	1-13-01-15	0	0	NAME OF TAXABLE PARTY.	0	0	STREET, STREET,	0	0	HAR
Spillback Cap Reductn	0	0		0	0	MORNING RECOVERAGE	0	0	CONTRACTOR OF THE PARTY OF THE	0	0	AND DESCRIPTION OF THE PERSON
Storage Cap Reductn	0	0	Sec.	0	0		0	0	Lack Street	0	0	NAME OF
Reduced v/c Ratio	0.20	0.27		0.21	0.26	- Contraction	0.15	0.25	- Boroso	0.05	0.27	Name and Addition

Area Type: Cycle Length: 80 Other

Actuated Cycle Length: 48.3 Natural Cycle: 50

National Cycle: 900 Control Type: Actuated-Uncoordinated Maximum v/c Ratio: 0.55 Intersection Signal Delay: 15.7 Intersection Capacity Utilization 66.4% Intersection LOS: B ICU Level of Service C

Analysis Period (min) 15

Splits and Phases: 5: NY-77 (Alleghany Road) & NY-5 (Main Street)





Pembroke Industrial Park Passero Associates

Lanes, Volumes, Timings 6: Brickhouse Road/Proposed Access & NY-5 (Main Street)

2025 Phase 1 AM 10/27/2022

	1	$\rightarrow$	*	1	-	*	1	1	-	1	+	1
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBF
Lane Configurations	7	4		7	1.		*	1		7	1	
Traffic Volume (vph)	28	289	9	15	249	58	1	0	1	14	0	1
Future Volume (vph)	28	289	9	15	249	58	1	0	1	14	0	(
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (ft)	300		0	120		0	150		0	200		(
Storage Lanes	1	30-1000	0		-	0	1	10 M	0	1		State (
Taper Length (ft)	125			75			100			25	STATE OF THE PARTY	
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Frt		0.996			0.972			0.850	HINDOOD DAY	and the same of	0.850	
Fit Protected	0.950			0.950	Self-life	Strawer.	0.950		NO. OR	0.950		Marie II
Satd. Flow (prot)	1687	1772	0	1597	1637	0	902	808	0	1399	1615	(
Flt Permitted	0.950	The same	A FAMILY	0.950	NAME OF THE OWNER, OWNE	The State of the	0.950	19-21-15 B	ATTESTS.	0.950	THE PARTY	March 1
Satd. Flow (perm)	1687	1772	0	1597	1637	0	902	808	0	1399	1615	(
Link Speed (mph)		45	THE WAY	No.	45	Sale		30		STEEL MARK	30	MEN'S
Link Distance (ft)		831			776			817			652	
Travel Time (s)	100	12.6	119-115		11.8	400.55	18-5 PM	18.6	31121	No. of Lot	14.8	1166
Peak Hour Factor	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87
Heavy Vehicles (%)	7%	7%	0%	13%	9%	29%	100%	0%	100%	29%	0%	0%
Adj. Flow (vph)	32	332	10	17	286	67	1	0	1	16	0	7
Shared Lane Traffic (%)	1000	Her Chief	-		CALL SH	1000	STATE OF	Side trans	THE REAL PROPERTY.	September 1988	200	State of
Lane Group Flow (vph)	32	342	0	17	353	0	1	1	0	16	7	(
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Righ
Median Width(ft)	N. S. S.	12	THE STATE OF	-	12		The state	12	PER LINE	100000	12	SIGNS
Link Offset(ft)	and the same of the	0			0	manufacture of the con-	Name and Address of the Owner, where the Owner, which is	0	-	The state of the s	0	
Crosswalk Width(ft)	S DESCRIPTION OF THE PARTY OF T	16	34		16	A STATE OF	200 100	16	5 640	No. of London	16	-
Two way Left Turn Lane	No.	and the second second		1	Yes			CONTRACTOR STORY		ALTERNATION OF THE PARTY NAMED IN	Manager and Total	DESCRIP
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	15	NAME OF TAXABLE PARTY.	9	15		9	15		9	15	1,00	(
Sign Control		Free			Free			Stop			Stop	200
Intersection Summary	NAME OF STREET		12/04/04/03	NAME OF TAXABLE	SECTION AND ADDRESS OF		SHIP SHIP	CAUCHA COME			-	Name of Street

Intersection Capacity Utilization 37.4%
Analysis Period (min) 15

Pembroke Industrial Park Passero Associates

Synchro 11 Report Page 9 HCM 6th TWSC

6: Brickhouse Road/Proposed Access & NY-5 (Main Street)

2025 Phase 1 AM 10/27/2022

Intersection			1000		12.	-	distribution	-	945	NEWS !		
nt Delay, s/veh	1.1											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	ሻ	1.		*	1		*	1,		7	1,	
Traffic Vol, veh/h	- 28	289	9	15	249	58	1	0	1	14	0	6
Future Vol, veh/h	28	289	9	15	249	58	1	0	1	14	0	6
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized			None	Part of the	Philippin I	None	etter er	aleger.	None	Medical	MARKET OF	None
Storage Length	300	-	-	120		-	150		-	200	-	-
Veh in Median Storage	# -	0	Surgice.	-	0		17	0		DEC.	0	Mary 1
Grade, %	-	0	-	-	0	-	-	0	-		0	
Peak Hour Factor	87	87	87	87	87	87	87	87	87	87	87	87
Heavy Vehicles, %	7	7	0	13	9	29	100	0	100	29	0	0
Mvmt Flow	32	332	10	17	286	67	1	0	1	16	0	7
Major/Minor	Major1			Major2	CO. C.	1	Minor1			Vlinor2		199
Conflicting Flow All	353	0	0	342	0	0	758	788	337	756	760	320
Stage 1	-	STREET, STREET,		945 E		Name of	401	401	331	354	354	320
Stage 2	-					N COME	357	387		402	406	
Critical Hdwy	4.17		5-50 P	4.23	22100	Charles Inc.	8.1	6.5	7.2	7.39	6.5	6.2
Critical Hdwy Stg 1	-		-	-			7.1	5.5	-	6.39	5.5	0,2
Critical Hdwy Stg 2		B-1202				WHITE	7.1	5.5	WENS	6.39	5.5	HE WEST
Follow-up Hdwy	2.263		-	2.317	-	-	4.4	4	4.2	3.761	4	3.3
Pot Cap-1 Maneuver	1179	-		1158	1000		228	326	528	293	338	725
Stage 1			-				469	604	-	611	634	125
Stage 2		815	TO THE	-	1200	And in	499	613	Service of	574	601	diam's
Platoon blocked, %					-	-		The same of	and Completed			
Mov Cap-1 Maneuver	1179		William .	1158	Sales Sales	200	219	312	528	283	324	725
Mov Cap-2 Maneuver	-						219	312	-	283	324	125
Stage 1		100	DES.Y	9 34	1		456	588	V5-015	595	624	March 1
Stage 2						-	487	604	-	557	585	-
CASSING COLUMN	# TO SE	SA G	19.00	NO SERVICE	100		and the					
Approach	EB	1887		WB		9 5 5	NB	1015		SB		
HCM Control Delay, s	0.7	A VS	R- No	0.4			16.7	Trion		16	Volume of	
HCM LOS		-					C	Contract of	No. of Concession,	C	Service of	
								PER		75-51		KE CO
Minor Lane/Major Mym	nt	NBLn1	NBLn2	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1	SBI n2	5800
Capacity (veh/h)	1999	219	528	1179	1	22.4	1158	1900		283	725	-66
HCM Lane V/C Ratio		0.005	0.002	0.027	-		0.015			0.057	0.01	
HCM Control Delay (s)	esc.	21.5	11.8	8.1			8.2			18.5		1 11 11
HCM Lane LOS		С	В	A	-		A	-	-	C	В	Contract of the
HCM 95th %tile Q(veh)	SECOND SECOND	0	0	0.1	PER MANAGEMENT	EN MARKE	0	Marco 2070	BRIDGE NO.	0.2	0	-

Pembroke Industrial Park Passero Associates

1: NY-77 (Alleghany Road) & NYS Thruway (Exit 48A)

2025 Phase 1 PM 10/27/2022

	1	1	1	1	+	4	
Lane Group	EBL	EBR	NBL	NBT	SBT	SBR	10 - 10 10
Lane Configurations	7	7	*	4	41		-
Traffic Volume (vph)	207	347	311	178	178	178	No. of Lot
Future Volume (vph)	207	347	311	178	178	178	
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	
Storage Length (ft)	0	0	250			0	
Storage Lanes	1	1	Stevens 1	R. F. Francisco	THE PERSON NAMED IN	0	-
Taper Length (ft)	25	No. of Concession, Name of Street, or other Persons, Name of Street, or ot	150			a comment	
Lane Util, Factor	1.00	1.00	1.00	1.00	0.95	0.95	Services.
Frt		0.850	- 1000		0.925	0.00	
Flt Protected	0.950	DE MON	0.950	(Allendaria	GIEL IN COLUMN		No. of Concession,
Satd. Flow (prot)	1556	1262	1388	1810	2981	0	
Fit Permitted	0.950	NEWS OF	0.537	SEE TO THE	DI MESSE	DECK LIN	STATISTICS.
Satd. Flow (perm)	1556	1262	785	1810	2981	0	N. Contractor
Right Turn on Red	-	Yes	MEN CO	ASSESSED NO.	SENETE S	Yes	Harton Services
Satd. Flow (RTOR)		351			180		The second second
Link Speed (mph)	30	219.51		45	45	Person	
Link Distance (ft)	854			973	786		
Travel Time (s)	19.4	THE PERSON		14.7	11.9		C. C. Contract
Peak Hour Factor	0.99	0.99	0.99	0.99	0.99	0.99	
Heavy Vehicles (%)	16%	28%	30%	5%	8%	16%	AND DESCRIPTION
Adj. Flow (vph)	209	351	314	180	180	180	The Paris of the Paris of
Shared Lane Traffic (%)	ELECTION OF THE PARTY OF THE PA	200000		REPORTED IN	-	United States	1 T 3 A C 1 T 3
Lane Group Flow (vph)	209	351	314	180	360	0	David Street
Enter Blocked Intersection	No	No	No	No	No	No	
Lane Alignment	Left	Right	Left	Left	Left	Right	
Median Width(ft)	12	Tugite	PER SIGN	12	12	Trigint	SEE SEE SEE
Link Offset(ft)	0			0	0		
Crosswalk Width(ft)	16			16	16	Charles and	CONTRACTOR OF THE PARTY OF THE
Two way Left Turn Lane	10			10	10		
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	PAGAMATA
Turning Speed (mph)	15	9	15	1.00	1.00	9	
Turn Type	Prot	pm+ov	pm+pt	NA	NA	3	MONTH ON
Protected Phases	4	5	5	2	6		
Permitted Phases	ENGINEERING .	4	2	-	0		No contraction of the
Detector Phase	4	5	5	2	6	4.46	State of the state of
Switch Phase	September 1	ADDRESS OF THE PARTY.	400000	DESCRIPTION OF THE PARTY OF THE	NAME OF THE OWNER, OWNE	AND DESCRIPTION OF THE PARTY OF	
Minimum Initial (s)	6.0	6.0	6.0	6.0	6.0		
Minimum Split (s)	22.5	12.0	12.0	22.5	22.5	NA STREET	
Total Split (s)	30.0	25.0	25.0	55.0	30.0		
Total Split (%)	35.3%	29.4%	29.4%	64.7%	35.3%	a la servicio de la constante	District Control
Maximum Green (s)	24.0	19.0	19.0	49.0	24.0		
Yellow Time (s)	4.0	4.0	4.0	49.0	4.0		-University
All-Red Time (s)	2.0	2.0	2.0	2.0	2.0		
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0		
Total Lost Time (s)	6.0	6.0	6.0	6.0	6.0		
Lead/Lag	0.0	Laq	Lag	0.0	Lead	10000	eriscont and
Lead-Lag Optimize?	The state of	Yes	Yes	-	Yes	Street Land	
Vehicle Extension (s)	2.0	1.0	1.0	10	2.0		
Recall Mode	None	None	None	1.0 None	None		THE COLUMN
Necali Mode	None	None	None	None	None		

Pembroke Industrial Park Passero Associates

Synchro 11 Report Page 1

Lanes, Volumes, Timings 1: NY-77 (Alleghany Road) & NYS Thruway (Exit 48A)

2025 Phase 1 PM 10/27/2022

Act Effct Green (s) 1 Actualed g/C Ratio 0 C/C Ratio 0 C Control Delay 2 Queue Delay 7 Total Delay 2 LOS Approach LOS Queue Length 50th (ft) Queue Length 95th (ft)	10.7 0.21 0.62 27.9 0.0 27.9 C 11.7 B 52	29.2 0.59 0.40 2.1 0.0 2.1 A	NBL 26.5 0.53 0.56 14.4 0.0 14.4 B	NBT 26.5 0.53 0.19 7.0 0.0 7.0 A	8.1 0.16 0.56 14.6 0.0 14.6 B	SBR	
Actualed g/C Ratio (Control Delay 2 Queue Delay 3 Approach LOS Queue Length 50th (ft) Queue Length 95th (ft)	0.21 0.62 27.9 0.0 27.9 C 11.7 B	0.59 0.40 2.1 0.0 2.1 A	0.53 0.56 14.4 0.0 14.4	0.53 0.19 7.0 0.0 7.0 A	0.16 0.56 14.6 0.0 14.6 B		
v/c Ratio C Control Delay 2 Queue Delay Total Delay 2 LOS Approach Delay 1 Approach LOS Queue Length 50th (ft) Queue Length 95th (ft)	0.62 27.9 0.0 27.9 C 11.7 B 52	0.40 2.1 0.0 2.1 A	0.56 14.4 0.0 14.4	0.19 7.0 0.0 7.0 A	0.56 14.6 0.0 14.6 B		
Control Delay 2 Queue Delay 7 Total Delay 2 LOS Approach Delay 1 Approach LOS Queue Length 50th (ft) Queue Length 95th (ft)	27.9 0.0 27.9 C 11.7 B 52	2.1 0.0 2.1 A	14.4 0.0 14.4	7.0 0.0 7.0 A	14.6 0.0 14.6 B		
Queue Delay Total Delay LOS Approach Delay Approach LOS Queue Length 50th (ft) Queue Length 95th (ft)	0.0 27.9 C 11.7 B 52	0.0 2.1 A	0.0 14.4	0.0 7.0 A	0.0 14.6 B		
Total Delay 2 LOS Approach Delay 1 Approach LOS Queue Length 50th (ft) Queue Length 95th (ft)	27.9 C 11.7 B 52	2.1 A	14.4	7.0 A	14.6 B		
LOS Approach Delay 1 Approach LOS Queue Length 50th (ft) Queue Length 95th (ft)	C 11.7 B 52	A		A	В		
Approach Delay 1 Approach LOS Queue Length 50th (ft) Queue Length 95th (ft)	11.7 B 52		В				TO STATE OF STREET
Approach LOS  Queue Length 50th (ft)  Queue Length 95th (ft)	B 52			11.7	THE RESERVE AND ADDRESS OF THE PERSON NAMED IN		
Queue Length 50th (ft) Queue Length 95th (ft)	52		The second	11.1	14.6		
Queue Length 95th (ft)		0		В	В		
Queue Length 95th (ft)	424	0	46	23	23		
Internal Link Dist (ft)	134	25	119	61	71		
	774			893	706	NAME OF TAXABLE PARTY OF TAXABLE PARTY.	
Turn Bay Length (ft)	64.5	STATE OF	250	C STATE	SCHOOL STREET	NOW THE RESERVE STATES	THE WAY SEE
Base Capacity (vph)	781	876	778	1671	1586		
Starvation Cap Reductn	0	0	0	0	0		E GENERAL IN
Spillback Cap Reductn	0	0	0	0	0		
Storage Cap Reductn	0	0	0	0	0		
Reduced v/c Ratio (	0.27	0.40	0.40	0.11	0.23		
Intersection Summary				200			
Area Type: Other	r						
Cycle Length: 85	1				-	Western Control of the Control	
Actuated Cycle Length: 49.8							THE REAL PROPERTY.
Natural Cycle: 60				100	-	THE PERSON NAMED AND ADDRESS OF	Sept. The second
Control Type: Actuated-Uncoording	nated						
Maximum v/c Ratio: 0.62			N. 4		CE A		Control of the second
Intersection Signal Delay: 12.5				In	tersection	LOS: B	
Intersection Capacity Utilization 5	4.3%	-		IC	U Level o	Service A	1

Splits and Phases: 1: NY-77 (Alleghany Road) & NYS Thruway (Exit 48A)



Pembroke Industrial Park Passero Associates

2025 Phase 1 PM 10/27/2022

Lanes, Volumes, Timings 2: NY-77 (Alleghany Road) & Flying J Truck Access

	1	1	4	†	1	1		
Lane Group	EBL	EBR	NBL	NBT	SBT	SBR		
Lane Configurations	*	7	*	4	41			
Traffic Volume (vph)	42	9	6	389	467	43	PERSONAL PROPERTY.	ale:
Future Volume (vph)	42	9	6	389	467	43	The state of the state of	
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	AND DESCRIPTION	
Storage Length (ft)	0	0	440	************		0		
Storage Lanes	1	and 1	1	1500	THE ST	0	instance.	
Taper Length (ft)	25		130				Name and Address of the Owner, when the Owner, where the Owner, which is the Owner,	
Lane Util. Factor	1.00	1.00	1.00	1.00	0.95	0.95		
Ped Bike Factor				-				
Frt	100	0.850	a relation	WEST.	0.987			į
Flt Protected	0.950		0.950					h
Satd. Flow (prot)	926	808	1081	1727	3070	0	EN PRINTS	į
Flt Permitted	0.950		0.950					١
Satd. Flow (perm)	926	808	1081	1727	3070	0	Rest Section	į
Link Speed (mph)	10			45	45	Control of the last of the las		
Link Distance (ft)	888		S. Carlo	664	973	The same of the	West State	
Travel Time (s)	60.5			10.1	14.7			
Confl. Peds. (#/hr)	3	1202		115		1		
Peak Hour Factor	0.93	0.93	0.93	0.93	0.93	0.93		
Heavy Vehicles (%)	95%	100%	67%	10%	9%	93%	-15-50	
Adj. Flow (vph)	45	10	6	418	502	46		
Shared Lane Traffic (%)	TO SE		SHE'S AND	THE REAL PROPERTY.	3 6 6 6	-	Name and	
Lane Group Flow (vph)	45	10	6	418	548	0		
Enter Blocked Intersection	No	No	No	No	No	No	1	
Lane Alignment	Left	Right	Left	Left	Left	Right		
Median Width(ft)	12	All de la	and the same	12	12	THE PERSON	THE PRINCE	
Link Offset(ft)	0			0	0			
Crosswalk Width(ft)	16	NEW TOWN	Mark Street	16	16			į
Two way Left Turn Lane								Ī
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	LINE AND	
Turning Speed (mph)	15	9	15		the state of the state of	9		
Sign Control	Stop	1	10810	Free	Free		1000	
Intersection Summary	<b>1000</b>	92002	N. S. S. S. S.					

Intersection Summa	Y	
Area Type:	Other	T.
Control Type: Unsig	nalized	ī
Intersection Capacit	Utilization 30.5%	ä
Analysis Period (mir	) 15	

Pembroke Industrial Park Passero Associates

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HCM 6th TWSC 2: NY-77 (Alleghany Road) & Flying J Truck Access

2025 Phase 1 PM 10/27/2022

Intersection	000		1-1-1	345		100
Int Delay, s/veh	1.7					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	7	7	7	<b></b>	41	
Traffic Vol., veh/h	42	9	6	389	467	43
Future Vol. veh/h	42	9	6	389	467	43
Conflicting Peds. #/hr	3	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized		None	FORESCO.		The same	
Storage Length	0	0	440	-	-	
Veh in Median Storage	# 0	RIGHT SHE	APPROPRIES		0	10000
Grade, %	0	-	-	0	0	
Peak Hour Factor	93	93	93	93	93	93
Heavy Vehicles, %	95	100	67	10	9	93
Mymt Flow	45	10	6	418	502	46
MANUEL ION	-	10	0	410	302	40
	Ainor2		Major1	1/200	Major2	
Conflicting Flow All	958	274	548	0	-	0
Stage 1	525		345.00			ACT OF
Stage 2	433	-	-	-	-	-
	8.025	8.4	5.105		199	
	7.225	-	-	-	-	-
Critical Hdwy Stg 2	6.825		-			27.54
Follow-up Hdwy 4	.4025	4.252	2.8365	-	-	-
Pot Cap-1 Maneuver	164	523	718	10000	11 H	100
Stage 1	386	-	-	-	-	-
Stage 2	463	-		THE .		000
Platoon blocked, %		All Indiana		-		-
Mov Cap-1 Maneuver	163	523	718	BOSH-		The same
Mov Cap-2 Maneuver	163			-	-	-
Stage 1	383	800 Pm	Section 2	DEPTH CO	SAME OF STREET	
Stage 2	463	-			-	
ENTERNATION OF THE PERSONS	and the last	HE WEST	NAME OF STREET	Char	15 miles	CONTRACTOR OF THE PERSON
	COLUMBIA	der and the same	10000000		all Section 1	
Approach	EB		NB		SB	
HCM Control Delay, s	31.2		0.2		0	
HCM LOS	D					
Minor Lane/Major Mvm		NBL	NRT	EBLn1	FRI n2	SBT
Capacity (veh/h)		718		163	523	001
HCM Lane V/C Ratio		0.009	ASSM	0.277		
HCM Control Delay (s)	2004-25	10.1	F-GINSS		12	
HCM Lane LOS		10.1 B		35.3 E	B	Um 5 -
HCM 95th %tile Q(veh)	No.	0	SEME			SATURAGE S
How sour wille Q(ven)		U	3 11 3	- Isl	0.1	100

Pembroke Industrial Park Passero Associates

Synchro 11 Report

2025 Phase 1 PM

4: NY-77 (Alleghany Road) & Proposed Southerly Access/Vision Parkway

10/27/2022

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	1	-	*	1	-	*	1	1	-	1	1	1
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	7	1.			4			4			414	
Traffic Volume (vph)	52	0	13	2	0	9	4	330	1	3	455	14
Future Volume (vph)	52	0	13	2	0	9	4	330	1	3	455	14
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.95	0.95	0.95
Frt		0.850	ARK SE		0.887	PLICE S	15.5	10 mm	In State	THE REAL	0.996	1.0
Flt Protected	0.950				0.992			0.999			Charles of Color Delico	-
Satd. Flow (prot)	1805	1615	0	0	1672	0	0	1697	0	0	3279	0
Flt Permitted	0.950				0.992			0.999				ALC: NAME OF
Satd. Flow (perm)	1805	1615	0	0	1672	0	0	1697	0	0	3279	0
Link Speed (mph)		30			30		Number of Street, South	45			45	
Link Distance (ft)		883		-	873	SA STEEL		403	No.	area ab a	478	-
Travel Time (s)		20.1			19.8			6.1		Name and Address of the Owner, or the Owner,	7.2	-
Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
Heavy Vehicles (%)	0%	0%	0%	0%	0%	0%	0%	12%	0%	0%	10%	0%
Adj. Flow (vph)	55	0	14	2	0	10	4	351	100 PM	3	484	15
Shared Lane Traffic (%)										1100000		Name and Address of the Owner, where the Owner, which is the Owner, where the Owner, which is the Owner, where the Owner, which is the Ow
Lane Group Flow (vph)	55	14	0	0	12	0	0	356	0	0	502	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		12			12			0			0	
Link Offset(ft)		0	Mary Co.	TO HOLE	0		The State of	0	-	. instant	0	NEW PER
Crosswalk Width(ft)	-	16			16			16	and the second second		16	E I E
Two way Left Turn Lane				E TO THE	-	W. College	200	(EMPSY)				250
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	60		60	15		9	60	Part St	9	15	CONTRACT OF STREET	60
Sign Control		Stop	The second second		Stop	-		Free			Free	

Intersection Summary		
Area Type: C	Other	
Control Type: Unsignalized		
Intersection Capacity Utilizati	ion 36.8%	ICU Level of Service A

HCM 6th TWSC

2025 Phase 1 PM 10/27/2022

4: NY-77 (Alleghany Road) & Proposed Southerly Access/Vision Parkway

Intersection Int Delay, s/veh	1.7			- 1000			- Contract					and the same
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR.	SBL	SBT	SBR
Lane Configurations	7	1.			4			4			414	
Traffic Vol, veh/h	52	0	13	2	0	9	4	330	1	3	455	14
Future Vol, veh/h	52	0	13	2	0	9	4	330	1	3	455	14
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	100		None	TER	233	None		THE SE	None			None
Storage Length	0	-	-	-		-	-	-	-	-		
Veh in Median Storage	# -	0		NO THE	0		-	0	1000	53.5	0	
Grade, %	-	0	-		0	-	-	0	-	-	0	
Peak Hour Factor	94	94	94	94	94	94	94	94	94	94	94	94
Heavy Vehicles, %	0	0	0	0	0	0	0	12	0	0	10	0
Mvmt Flow	55	0	14	2	0	10	4	351	1	3	484	15
Major/Minor N	Vinor2	22.0		Minor1		ALT AND	Major1	TEGS SA		Major2	100000	Sales .
Conflicting Flow All	863	858	250	608	865	352	499	0	0	352	0	0
Stage 1	498	498	200	360	360	HILL	700		0	302	V	3
Stage 2	365	360	-	248	505			Contract of		No.		
Critical Hdwy	7.3	6.5	6.9	7.3	6.5	6.2	4.1	-	GENERAL SERVICE	4.1	1260	
Critical Hdwy Stg 1	6.5	5.5	0,0	6.1	5.5	0.2	4.1			-		
Critical Hdwy Stg 2	6.1	5.5		6.5	5.5	Marie L	-	-	NEW YORK	-	NO. SEC.	ACRES DICK
Follow-up Hdwy	3.5	4	3.3	3.5	4	3.3	2.2			2.2		-
Pot Cap-1 Maneuver	264	297	756	397	294	696	1075	REPURE DE	-	1218	SERVING.	SOURCE WATER
Stage 1	528	548	150	662	630	030	1073	Marine I.		1210	N. W.	13/15/20
Stage 2	658	630	-	740	544	PAGE 1		-	SALES OF THE PARTY	SHIP OF THE PARTY	-	-
Platoon blocked, %	000	000	- Name	140	044	HER WATER	The state of the s	DOM: NO.	and the second			1 11 12
Mov Cap-1 Maneuver	259	295	756	387	292	696	1075		SHOW	1218	1000	-
Mov Cap-2 Maneuver	259	295	130	387	292	090	10/3		-	1210		
Stage 1	525	546		659	627	SEP-12	A SOUND TO	DOM:	SUPPLIES TO	700000	-	
Stage 2	646	627		724	542	-		T WA	4	100		
Oldge 2	040	021	NAME OF TAXABLE PARTY.	124	342	ASSESSED A	NEEK!	PRINCES	500000		SCHOOL SECTION	
Approach	EB		Maria Const	WB			NO	- Trees		0.0	and Alman	
HCM Control Delay, s	20.1			11	- Till total	and the same	NB 0.1	Della della	ALC: NO.	SB		
HCM LOS	ZU.1		-	B		300	0.1			0.1		100
HCM LOS		BANKA	AN ESTABLE	В		APPL DIS	STATE OF THE PARTY	4000	0.000	MOUSE	NAME OF TAXABLE	
Mary Law Mary 11		NIDI	NIDT	NIDO						Was also		
Minor Lane/Major Mvm		NBL 1075	NBT	MRK		EBLn2\	T-HOME DIE	SBL	SBT	SBR	-	de la cons
Capacity (veh/h) HCM Lane V/C Ratio		0.004		-	259	756	608	1218				
			0	-	0.214		0.019	0.003			a series	BIR OF CHAPTE
HCM Control Delay (s) HCM Lane LOS	1	8.4	A		22.6	9.9	11	8	0			
HCM 95th %tile Q(veh)	and the same	A 0	A	-	0.8	A	В	A	Α			-
TICIVI SOUT YOUR Q(Ven)		U		100	0.8	0.1	0.1	0	-			

2025 Phase 1 PM 10/27/2022

5: NY-77 (Alleghany Road) & NY-5 (Main Street)

	1	-	-	1	-	*	1	1	-	1	1	1
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	7	1.		7	1.		7	14		ሻ	1	
Traffic Volume (vph)	89	199	120	56	150	44	75	205	51	75	273	119
Future Volume (vph)	89	199	120	56	150	44	75	205	51	75	273	119
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (ft)	100		0	300	S. D. L. P. C. L. P. L.	0	260		0	325		0
Storage Lanes	1	- HERTON	0	1	Britain St	0	1	Get Sale	0	1	NESSWITE	0
Taper Length (ft)	100		-	115			100			100		and the second
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Frt		0.944			0.966	CONTRACTOR OF THE PARTY OF THE		0.970			0.954	1100
Flt Protected	0.950	-	TALES.	0.950	STATE OF		0.950	Tables 150	10,000	0.950	0.004	
Satd. Flow (prot)	1444	1700	0	1805	1772	0	1752	1726	0	1671	1654	0
Flt Permitted	0.630		- XIELEN	0.522	PLANE THE	CONTRACT OF	0.467	THE REAL PROPERTY.	and the same of	0.593	1004	Name of Street
Satd. Flow (perm)	958	1700	0	992	1772	0	861	1726	0	1043	1654	0
Right Turn on Red	NAME OF STREET	ZAS-TRA	Yes	DESCRIPTION OF THE PARTY OF THE	COLUMN TO STATE OF THE PARTY OF	Yes	Selections	1720	Yes	1045	1004	Yes
Satd. Flow (RTOR)		42	100		20	103		22	100	TO STATE	38	165
Link Speed (mph)	SERVICE	45	A STATE OF	SECTION AND	45	- CONTRACTOR	Olf-Squeen	45	25 L 26		45	Company of the last
Link Distance (ft)		776			1602		40.0	801	Sec. Tel. 6	-	698	The same
Travel Time (s)	Name of the least	11.8	-	THE PARTY NAMED IN	24.3	OR STATE	design to the last	12.1	Minuteres	NE STANSON	10.6	
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.05
Heavy Vehicles (%)	25%	7%	3%	0.95	4%	2%	3%	0.95		0.95	9%	0.95
Adj. Flow (vph)	94	209	126	59	158	46	79		2%	which the law being the		11%
Shared Lane Traffic (%)	94	209	120	29	158	46	79	216	54	79	287	125
	94	205	0	50	004							-5.46
Lane Group Flow (vph)		335	No	59	204	0	79	270	0	79	412	0
Enter Blocked Intersection	No	No	1000	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		12			12	1		12			12	
Link Offset(ft)	CONTROL TO A STATE OF THE PARTY	0			0			0			0	
Crosswalk Width(ft)		16			16			16			16	150
Two way Left Turn Lane		Yes										
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	15		9	15		9	15		9	15		9
Turn Type	Perm	NA	THE REAL PROPERTY.	Perm	NA		Perm	NA		Perm	NA	
Protected Phases		1			1			3			3	
Permitted Phases	55.1	And the		1			3			3		
Detector Phase	1	1		1	1		3	3		3	3	
Switch Phase												
Minimum Initial (s)	10.0	10.0		10.0	10.0		10.0	10.0		10.0	10.0	
Minimum Split (s)	24.5	24.5		24.5	24.5		24.5	24.5		24.5	24.5	
Total Split (s)	35.0	35.0		35.0	35.0		45.0	45.0		45.0	45.0	
Total Split (%)	43.8%	43.8%		43.8%	43.8%		56.3%	56.3%	FINE ST	56.3%	56.3%	CE ST
Maximum Green (s)	28.5	28.5		28.5	28.5		38.5	38.5		38.5	38.5	
Yellow Time (s)	5.0	5.0		5.0	5.0	16	5.0	5.0	1	5.0	5.0	1
All-Red Time (s)	1.5	1.5		1.5	1.5		1.5	1.5		1.5	1.5	
Lost Time Adjust (s)	0.0	0.0		0.0	0.0	PER STA	0.0	0.0	7	0.0	0.0	1200
Total Lost Time (s)	6.5	6.5		6.5	6.5		6.5	6.5		6.5	6.5	
Lead/Lag	AND SE		The state of		TO SEA	THE LOUIS	Water In		1500	Calal His		Police Co.
Lead-Lag Optimize?											-1129000000	
Vehicle Extension (s)	3.0	3.0	100	3.0	3.0	COLUMN TO SERVICE	4.0	4.0	-	4.0	4.0	-
Recall Mode	None	None		None	None	-	None	None	The same of the sa	None	None	Name and Address of the Owner, where the Owner, which is the Ow

Pembroke Industrial Park Passero Associates

Synchro 11 Report Page 7 Lanes, Volumes, Timings 5: NY-77 (Alleghany Road) & NY-5 (Main Street)

2025 Phase 1 PM 10/27/2022

	-	$\rightarrow$	1	1	-	•	1	1	-	1	+	4
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Act Effct Green (s)	15.9	15.9	NAME OF	15.9	15.9		20.0	20.0		20.0	20.0	001
Actuated g/C Ratio	0.32	0.32		0.32	0.32	- Commence of the Commence of	0.40	0.40		0.40	0.40	
v/c Ratio	0.31	0.59	SHEY	0.19	0.35		0.23	0.38	to select	0.19	0.60	S. IS THE
Control Delay	18.1	18.5		16.2	15.2	Kepti de discassiones	12.5	11.8		11.6	15.2	The second
Queue Delay	0.0	0.0		0.0	0.0	Carried S	0.0	0.0	The state of the state of	0.0	0.0	NEEDEN.
Total Delay	18.1	18.5		16.2	15.2	Name of Street,	12.5	11.8		11.6	15.2	ALIEN AND A
LOS	В	В	100	В	В	NOW SE	В	В	TOWARD	В	В	
Approach Delay		18.4			15.4			11.9	The Park		14.6	THE PARTY NAMED IN
Approach LOS		В	89279		В		No.	В	and the same	ALL AND THE	В.	Service I
Queue Length 50th (ft)	19	63		11	37		13	43		13	73	
Queue Length 95th (ft)	68	185	TAR ST	45	113	AN TO BE	48	122	SERVICE .	46	197	
Internal Link Dist (ft)		696			1522	Minute State of the State of th	and the same of the same of	721		-	618	and a second
Turn Bay Length (ft)	100	10 May 10 Ma	Lune S	300	Trains work	No.	260	TO SERVICE	MARKET STATE	325		
Base Capacity (vph)	593	1069		614	1105	and the same of the	692	1392		838	1337	
Starvation Cap Reductn	0	0	O Partie	0	0	With the last	0	0	Maria de la companya	0	0	
Spillback Cap Reductn	0	0		0	0		0	0		0	0	and the same
Storage Cap Reductn	0	0	There's	0	0	SHIP S	0	0	EASTE !	0	0	PARK S
Reduced v/c Ratio	0.16	0.31		0.10	0.18	and an old of the least of the	0.11	0.19		0.09	0.31	

Area Type: Other
Cycle Length: 80
Actuated Cycle Length: 50.1
Natural Cycle: 50
Control Type: Actuated-Uncoordinated
Maximum vic Ratio: 0.60
Letteration Sizes Calculated Sizes (Sept. 15.2)

Intersection Signal Delay: 15.2 Intersection Capacity Utilization 77.7% Intersection LOS: B ICU Level of Service D

Analysis Period (min) 15

Splits and Phases: 5: NY-77 (Alleghany Road) & NY-5 (Main Street)

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Pembroke Industrial Park Passero Associates

Synchro 11 Report

2025 Phase 1 PM

6: Brickhouse Road/Proposed Access & NY-5 (Main Street)

10/27/2022

	1	$\rightarrow$	*	1	-	1	4	†	-	>	+	1
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	*	1		7	1.		7	4		7	1	
Traffic Volume (vph)	7	327	3	2	350	16	6	0	16	57	0	27
Future Volume (vph)	7	327	3	2	350	16	6	0	16	57	0	27
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (ft)	300		0	120		0	150		0	200	Marin Control of the	0
Storage Lanes			0	1	F-100	0	1	100	0	3.5	1	0
Taper Length (ft)	125			75			100			25	- Control of the Cont	March Country of
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Frt		0.999			0.993			0.850			0.850	
Flt Protected	0.950		THE ST	0.950	FEET'S	Carlo.	0.950	-	THE REAL PROPERTY.	0.950	DESIGNATION OF THE PERSON NAMED IN	NE BEL
Satd. Flow (prot)	1805	1754	0	1805	1794	0	1626	1615	0	1367	1553	0
Flt Permitted	0.950	MARKET STATE	20000	0.950	15/2,55(S	85 D. S	0.950	DE SERVICIONE	255	0.950	ALC: NO	DESIGN
Satd. Flow (perm)	1805	1754	0	1805	1794	0	1626	1615	0	1367	1553	0
Link Speed (mph)		45	A Training	Service of	45	MILES DE	The second	30	THE PARTY	THE REAL PROPERTY.	30	B11950
Link Distance (ft)	AND THE PERSON	831			776	100000000000000000000000000000000000000	ange a control of	817	Contract Con	On the Park of the	652	AND LOTTER
Travel Time (s)	STORE .	12.6	The same	STATE OF THE PARTY.	11.8	March 1		18.6	3.0	and the later	14.8	
Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
Heavy Vehicles (%)	0%	8%	33%	0%	4%	31%	11%	0%	0%	32%	0%	4%
Adj. Flow (vph)	7	348	3	2	372	17	6	0	17	61	0	29
Shared Lane Traffic (%)	HOW THE	A PAGE	THE PERSON			9984	100	-	HEER!	Name of Street	100	STATE OF
Lane Group Flow (vph)	7	351	0	2	389	0	6	17	0	61	29	0
Enter Blocked Intersection	. No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)	3 1144	12		-	12	HE TE	THE RESERVE	12	W-15-6		12	September 1
Link Offset(ft)		0	articular and	CONTROL OF LANGE OF	0		- Control of the	0	N. State of the last		0	Contract Contract
Crosswalk Width(ft)		16	No.	The state of	16	-	State.	16	THE PERSON	-	16	ALC: UNK
Two way Left Turn Lane		-			Yes	-		MACHINE CONT.	The state of the s	OSC MARKE	and the state of t	The same of the
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	60		9	15	-	60	15		9	60		60
Sign Control		Free	No.	7 9 10	Free	THE NAME OF	NE P	Stop			Stop	
Intersection Summary				N. Carlo		Makes						

Area Type: Other
Control Type: Unsignalized
Intersection Capacity Utilization 35.9%
Analysis Period (min) 15

ICU Level of Service A

Pembroke Industrial Park Passero Associates

Synchro 11 Report Page 9 HCM 6th TWSC

2025 Phase 1 PM 10/27/2022

6: Brickhouse Road/Proposed Access & NY-5 (Main Street)

Intersection Int Delay, s/veh	2.3						ASC TOP C		and the	STORY NO.		Mary Control
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	7	7.		7	1		7	1		7	1	
Traffic Vol, veh/h	7	327	3	2	350	16	6	0	16	57	0	27
Future Vol, veh/h	7	327	3	2	350	16	6	0	16	57	0	27
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized			None	200	9.85	None	8000	HORE	None	325	90-01V-	
Storage Length	300	-	-	120		-	150			200		
Veh in Median Storage,	# -	0	1000		0		SON	0		1000	0	STATE OF
Grade, %	-	0	-	-	0		-	0		-	0	-
Peak Hour Factor	94	94	94	94	94	94	94	94	94	94	94	94
Heavy Vehicles, %	0	8	33	0	4	31	11	0	0	32	0	4
Mvmt Flow	7	348	3	2	372	17	6	0	17	61	0	29
	a Library Co.	Nancasa.	COLUMN TO SE			and a second	Service Servic	STATE OF THE PARTY			1200-	
Major/Minor N	lajor1			Maior2	A PROPERTY.	BIE SI	Minor1			Minor2	Seal Se	No.
Conflicting Flow All	389	0	0	351	0	0	763	757	350	757	750	381
Stage 1		10000	NET THE	2001	HILL CO	and the last	364	364	330	385	385	301
Stage 2	-	ALC: SEC.		-	-		399	393		372	365	
Critical Hdwy	4.1		en au	4.1	12000		7.21	6.5	6.2	7.42	6.5	6.24
Critical Hdwy Stg 1	-	-	-	-			6.21	5.5	0.2	6.42	5.5	0.24
Critical Hdwy Stg 2	-	Series.	THE PERSON	1000	State of		6.21	5.5	1000000	6.42	5.5	
Follow-up Hdwy	2.2	especial.		2.2			3.599	4		3.788		3.336
Pot Cap-1 Maneuver	1181	-	RMARKS	1219	NAME OF TAXABLE	C-Ships	310	339	698	290	342	662
Stage 1		otherine.		1215			637	627	030	582	614	002
Stage 2			C STREET	-	ERRIE	Service Servic	609	609	NAME OF TAXABLE PARTY.	592	627	
Platoon blocked. %	No. of Concession,	-	-			-	003	009		332	021	
	1181	Resident Services	PHONE S	1219	ANTEND	20150	295	336	698	281	339	662
Mov Cap-2 Maneuver	1101		-	1213			295	336	090	281	339	002
Stage 1	-	-	DURCH	U MOST	C. Dicker	BROKE THE	633	623	and the last last last last last last last last	579	613	-
Stage 2							582	608		Albandaria A	623	
Stage 2		NE SECTION A	Suples				202	500	ON SURE	574	023	SAIRHON.
Approach	EB		CHARLES	WB			NB	Taxable land		SB		
HCM Control Delay, s	0.2	Date of the	est to come	0		Na Park	12.3	To the last				ALC: NO.
HCM LOS	U,Z		de tra	U		1-0-0	12.3 B			17.9		
HCW LOS		100	A TO SE	-	No.	and a	В	NOTE:		С	N. Belleville	West St
Minor Lane/Major Mymt		NBLn1	MDI -0	CDI	EDT	COD	LA COL	MOT	won	ODI 4	ODL A	
Capacity (veh/h)	Street Land	295	698	1181	EBT	EBR	WBL 1219	WBT	WDR	SBLn1	COMPAND NO.	A Company
HCM Lane V/C Ratio	-	0.022	0.024	0.006			0.002			0.216	0.043	
HCM Control Delay (s)	-	17.5	10.3	8.1	13.62	Name of	0.002	-	and the Assessment	21.3	10.7	NAME OF TAXABLE PARTY.
			10.3 B	Α.Ι		100	A			21.3 C	10.7 B	-
HCM Lane LOS		C										

Pembroke Industrial Park Passero Associates

2029 Phase 2 AM 10/27/2022

1: NY-77 (Alleghany Road) & NYS Thruway (Exit 48A)

	1	-	4	1	1	1	
Lane Group	EBL	EBR	NBL	NBT	SBT	SBR	
Lane Configurations	*	7	7	+	41	0011	
Traffic Volume (vph)	103	264	381	105	176	220	
Future Volume (vph)	103	264	381	105	176	220	
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	and the state of the second state of the second
Storage Length (ft)	0	0	250		1000	0	
Storage Lanes	1	1	SECTION S.		Se house he	0	
Taper Length (ft)	25		150				
Lane Util. Factor	1.00	1.00	1.00	1.00	0.95	0.95	
Frt	1100	0.850	11.00	1.00	0.917	0.00	
Flt Protected	0.950	Harianta	0.950	Hudy SAS	State State St	No. of Concession,	Self-residence of the self-residence of
Satd. Flow (prot)	1480	1233	1410	1727	2927	0	
Flt Permitted	0.950	1200	0.502	1121	EGE!		
Satd. Flow (perm)	1480	1233	745	1727	2927	0	
Right Turn on Red	1700	Yes	140	1121	2321	Yes	
Satd. Flow (RTOR)		287	Service Service	STORES !	239	162	
Link Speed (mph)	30	201	170000	45	45	A STATE OF	AND THE RESERVE OF THE PERSON
Link Speed (mph)	854		1	973	786		
Travel Time (s)	19.4	Short and	SECULIAR DESIGNATION OF THE PERSON OF THE PE			Children and Children	
Peak Hour Factor		0.00	0.00	14.7	11.9	0.00	
	0.92	0.92	0.92	0.92	0.92	0.92	
Heavy Vehicles (%)	22%	31%	28%	10%	7%	18%	
Adj. Flow (vph)	112	287	414	114	191	239	
Shared Lane Traffic (%)		US SAIS			VES-		
Lane Group Flow (vph)	112	287	414	114	430	0	
Enter Blocked Intersection	No	No	No	No	No	No	
Lane Alignment	Left	Right	Left	Left	Left	Right	
Median Width(ft)	12			12	12		
Link Offset(ft)	0			0	0		
Crosswalk Width(ft)	16			16	16		
Two way Left Turn Lane							
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	SERVICE SERVIC
Turning Speed (mph)	15	9	15			9	
Turn Type	Prot	pm+ov	pm+pt	NA	NA		A STATE OF STATE OF STATE OF
Protected Phases	4	5	5	2	6		
Permitted Phases		4	2	1	1514388	E11256	THE RESERVE OF THE PERSON NAMED IN
Detector Phase	4	5	5	2	6		
Switch Phase				Mary Paris			
Minimum Initial (s)	6.0	6.0	6.0	6.0	6.0		The state of the s
Minimum Split (s)	22.5	12.0	12.0	22.5	22.5	10000	
Total Split (s)	30.0	25.0	25.0	55.0	30.0		
Total Split (%)	35.3%	29.4%	29.4%	64.7%	35.3%	* -	
Maximum Green (s)	24.0	19.0	19.0	49.0	24.0		
Yellow Time (s)	4.0	4.0	4.0	4.0	4.0		
All-Red Time (s)	2.0	2.0	2.0	2.0	2.0		
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	F100E 3.78	Contact the state of the place has be-
Total Lost Time (s)	6.0	6.0	6.0	6.0	6.0		
Lead/Lag		Lag	Lag	100000	Lead	and the same	A STATE OF THE PARTY OF THE PAR
Lead-Lag Optimize?		Yes	Yes		Yes		
Vehicle Extension (s)	2.0	1.0	1.0	1.0	2.0	SHIP CONTRACTOR	
Recall Mode	None	None	None	None	None	-	

Pembroke Industrial Park Passero Associates Synchro 11 Report Page 1 Lanes, Volumes, Timings

1: NY-77 (Alleghany Road) & NYS Thruway (Exit 48A)

2029 Phase 2 AM 10/27/2022

	•	1	1	1	1	1	
Lane Group	EBL	EBR	NBL	NBT	SBT	SBR	
Act Effct Green (s)	8.9	26.7	31.1	33.3	8.8		100
Actuated g/C Ratio	0.18	0.55	0.64	0.68	0.18		
v/c Ratio	0.42	0.36	0.60	0.10	0.59	SECTION OF THE PROPERTY OF THE PARTY OF THE	JE I
Control Delay	26.0	2.2	13.6	5.0	13.3		ESSE
Queue Delay	0.0	0.0	0.0	0.0	0.0	THE RESERVE OF THE PARTY OF THE	98
Total Delay	26.0	2.2	13.6	5.0	13.3		
LOS	C	A	В	A	В	See that the second property of the second	133
Approach Delay	8.9			11.8	13.3		
Approach LOS	A			В	В		
Queue Length 50th (ft)	31	0	58	12	27	Company of the Compan	
Queue Length 95th (ft)	79	25	137	33	70		100
Internal Link Dist (ft)	774			893	706		
Turn Bay Length (ft)			250	N. YEAR			复
Base Capacity (vph)	799	858	812	1590	1691		
Starvation Cap Reductn	0	0	0	0	0		
Spillback Cap Reductn	0	0	0	0	0		
Storage Cap Reductn	0	0	0	0	0		US.
Reduced v/c Ratio	0.14	0.33	0.51	0.07	0.25		
Intersection Summary	0.000				6.57		
Area Type:	Other						_
Cycle Length: 85	No. of the last of	-		-			100
Actuated Cycle Length: 4	8.7			- Allerton			

Cycle Length: 85
Actuated Cycle Length: 48.7
Natural Cycle: 60
Control Type: Actuated-Uncoordinated
Maximum vlc Ratio: 0.60
Intersection Signal Delay: 11.4
Intersection Capacity Utilization 53.8%
ICU Level of Service A
Analysis Period (min) 15

Splits and Phases: 1: NY-77 (Alleghany Road) & NYS Thruway (Exit 48A)



Pembroke Industrial Park Passero Associates

2029 Phase 2 AM 10/27/2022

Page 3

2: NY-77 (Alleghany Road) & Flying J Truck Access

	1	*	1	1	1	1	
Lane Group	EBL	EBR	NBL	NBT	SBT	SBR	
Lane Configurations	7	*	*	4	41		
Traffic Volume (vph)	57	4	2	406	361	45	
Future Volume (vph)	57	4	2	406	361	45	
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	
Storage Length (ft)	0	0	175			0	
Storage Lanes	1	1	1		100	0	TO BE THE STREET, STRE
Taper Length (ft)	25		25				
Lane Util. Factor	1.00	1.00	1.00	1.00	0.95	0.95	
Frt		0.850			0.983		
Fit Protected	0.950		0.950	HE .	THE PARTY.	THE WAR	
Satd. Flow (prot)	912	808	902	1696	2885	0	
Flt Permitted	0.950		0.950		1	THE RESIDENCE	
Satd. Flow (perm)	912	808	902	1696	2885	0	
Link Speed (mph)	10			45	45	100000	
Link Distance (ft)	888			295	973		
Travel Time (s)	60.5			4.5	14.7		
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96	
Heavy Vehicles (%)	98%	100%	100%	12%	14%	95%	
Adj. Flow (vph)	59	4	2	423	376	47	
Shared Lane Traffic (%)	000	1116					
Lane Group Flow (vph)	59	4	2	423	423	0	
Enter Blocked Intersection	No	No	No	No	No	No	
Lane Alignment	Left	Right	Left	Left	Left	Right	
Median Width(ft)	12	S. P. S. S.		12	12	This said	A STATE OF THE PARTY OF THE PAR
Link Offent(ff)	0	-	-	0		-	

0

Sign Control Area Type: Control Type: Unsignalized

Link Offset(ft)

Crosswalk Width(ft) Two way Left Turn Lane Headway Factor Turning Speed (mph)

Intersection Capacity Utilization 31.4% Analysis Period (min) 15

ICU Level of Service A

9 15

15

Pembroke Industrial Park Synchro 11 Report Passero Associates

HCM 6th TWSC 2: NY-77 (Alleghany Road) & Flying J Truck Access

2029 Phase 2 AM 10/27/2022

Intersection				4.3						
nt Delay, s/veh	2									
Movement	EBL	EBR	NBL	NBT	SBT	SBR			<b>MB.</b>	
Lane Configurations	*	-	7	4	1					
Traffic Vol. veh/h	57	4	2	406	361	45			NAME OF	The second
Future Vol, veh/h	57	4	2	406	361	45				
Conflicting Peds, #/hr	0	0	0	0	0	0		100	1	NAME OF TAXABLE PARTY.
Sign Control	Stop	Stop	Free	Free	Free	Free			len.	
RT Channelized		None	THUS	None	Was E	None		3675		B 200
Storage Length	0	0	175						Ī	
eh in Median Storage				0	0			Contract of the last		
Grade, %	0		-	0	0					
Peak Hour Factor	96	96	96	96	96	96	And St	STORE	No.	B
Heavy Vehicles, %	98	100	100	12	14	95				
Mvmt Flow	59	4	2	423	376	47		E ST		ĺ
										١
Major/Minor 1	Ainor2		Major1	27.33	Major2		200		200	
Conflicting Flow All	827	212	423	0	-	0			The State of the S	
Stage 1	400	TRACTICAL DESIGNATION OF THE PERSON OF THE P	1855				5-2-0-			
Stage 2	427				-	-	The state of the s	Total Santa	The state of the s	ì
Critical Hdwy	8.07	8.4	5.6	North Control		No.	A STATE OF THE PARTY OF	the state of	AND SHOULD SHOUL	
Critical Hdwy Stg 1	7.27		0.0		-	-	Address C	No.	The same of the	
Critical Hdwy Stg 2	6.87	150 R	THE S		EP S	emos e	1000000			
Follow-up Hdwy	4.431	4.25	3.15		STANCE OF		7 6 9 1.1	No. of Lot	The same	
Pot Cap-1 Maneuver	203	584	708			MUDER	and the same	E AVIN	OF THE OWNER	
Stage 1	459	- 004	- 100	elecci.	Harris .			Section.	-	
Stage 2	462		Simon's	STATE OF	-	ESPECIAL DE		SEC.	of the case	
Platoon blocked, %	702	Name of the last	20/5/20	-			de la constantina	25.00	-	ė
Mov Cap-1 Maneuver	202	584	708			CHARLES CO.	Mark Mark	e Tilyai		
Mov Cap-1 Maneuver	202	204	700				Series Co.	and the		
Stage 1	458	STATE OF THE PARTY.	000		-	SERVE SE	LINES ENGIN	and the sale		
Stage 2	462			2000	and the second					
Slaye 2	402	STS IS	-		DESCRIPTION OF THE PERSON OF T	-	and the latest terminal	- Constitution	CO. AMPLIAN	
The second section.	N. Carlo		2000	STATE OF THE PARTY.	-			D TAX LON	NAME OF THE OWNER, OWNE	
Approach	EB		NB		SB	la de la	The said			
HCM Control Delay, s	28.9		0		0					
HCM LOS	D									
	Winds		40.4					100 Ac		
Minor Lane/Major Mym	t	NBL	NBT	EBLn1	EBLn2	SBT	SBR	49-0-8	Sec. 5	
Capacity (veh/h)		708		202	584		tate eas		45 (2) 22	
HCM Lane V/C Ratio	THE PERSON NAMED IN	-0.003		0.294		-	-		-	
HCM Control Delay (s)	SEASON .	10.1	TO BE		11.2				TO CHES	
HCM Lane LOS		В			В	ALC: N	· Contraction	a Williams		
HCM 95th %tile Q(veh)	NAME OF TAXABLE	0	NAME OF TAXABLE	1.2	0	OR WEST HOP	BANKS MICH.		-	

Pembroke Industrial Park Passero Associates

2029 Phase 2 AM

Lanes, Volumes, Timings 3: NY-77 (Alleghany Road) & Proposed Northerly Access

10/27/2022

Storage Length (ft) Storage Lanes	5 5 1900 0 1 25	2 2 1900 0	NBL 6 6 1900 210	NBT 403 403 1900	\$BT 345 345 1900	SBR 20 20	
Traffic Volume (vph) Future Volume (vph) Ideal Flow (vphpl) Storage Length (ft) Storage Lanes	5 1900 0 1 25	2 2 1900 0	6 1900 210	403	345 345		
Future Volume (vph) Ideal Flow (vphpl) Storage Length (ft) Storage Lanes	5 1900 0 1 25	1900 0	6 1900 210	403	345 345		
ideal Flow (vphpl) Storage Length (ft) Storage Lanes	1900 0 1 25	1900	1900 210			20	
Storage Length (ft) Storage Lanes	0 1 25	0	210	1900	4000		
Storage Lanes	1 25			No. of Persons Street	1900	1900	
	25	1	STATE OF THE PARTY			0	
Tonas Laureth (ft)			100	Service Management		0	Control in the Control of the Contro
Taper Length (ft)	4 00		125		-		
Lane Util. Factor	1.00	1.00	1.00	1.00	0.95	0.95	The first production of the state of the second second
Frt		0.850		and the same of th	0.992		
Flt Protected 0	0.950	COLUMN TO SERVICE	0.950	VA-1516	No. of Lot	THE REAL PROPERTY.	
Satd. Flow (prot)	1504	1615	1805	1696	3140	0	
	0.950		0.950	100	THE COLUMN	BASIC WAR	A STATE OF THE STA
Satd. Flow (perm)	1504	1615	1805	1696	3140	0	
Link Speed (mph)	30	5 5 146	13:15	45	45	ATEL NO	the forest the second s
Link Distance (ft)	710		A STATE OF THE PARTY OF THE PAR	369	295	No. of the last of	
Travel Time (s)	16.1		5/H 394	5.6	4.5	-	The second of the second of the second
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96	
Heavy Vehicles (%)	20%	0%	0%	12%	14%	15%	
Adj. Flow (vph)	5	2	6	420	359	21	
Shared Lane Traffic (%)	H125 1	LINE BUT	AB FALS	WITH B	Telegals	Cold Cold	SUPPLIES TO SUPPLIES A SUPPLIES AND ADDRESS OF THE SUPPLIE
Lane Group Flow (vph)	5	2	6	420	380	0	
Enter Blocked Intersection	No	No	No	No	No	No	STATE OF THE PARTY
Lane Alignment	Left	Right	Left	Left	Left	Right	
Median Width(ft)	12	READ NO.	E 51812	12	12		ONE STREET AND PROPERTY.
Link Offset(ft)	0		-	0	0		
Crosswalk Width(ft)	16		SHOW SHE	16	16		CONTRACTOR CONTRACTOR
Two way Left Turn Lane							
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	
Turning Speed (mph)	15	9	15			9	
	Stop		S 200	Free	Free	Marine.	
Intersection Summary	CHINA CO.		VIOLENCE OF THE PARTY.	NAME OF TAXABLE PARTY.	NAME OF TAXABLE PARTY.		

Area Type: Other
Control Type: Unsignalized
Intersection Capacity Utilization 31.2%
Analysis Period (min) 15

Pembroke Industrial Park Passero Associates

Synchro 11 Report Page 5 HCM 6th TWSC

3: NY-77 (Alleghany Road) & Proposed Northerly Access

2029 Phase 2 AM 10/27/2022

Intersection		NUMBER OF	COURT	escale.	CONTRACT OF THE PARTY OF THE PA	Mary and a	
Int Delay, s/veh	0.2	and the same of	- V			10.50	
		FDD	MO	N/O-	- 00=	000	
Movement	EBL	EBR	NBL	NBT	SBT	SBR	
Lane Configurations	7	7	7	1	41		
Traffic Vol, veh/h Future Vol, veh/h	5	2	6	403	345	20	
	5	2	6	403	345	20	
Conflicting Peds, #/hr	0	0	0	0	0	0	
Sign Control	Stop	Stop	Free	Free	Free	Free	
RT Channelized	-	None	-			None	THE REAL PROPERTY.
Storage Length	0	0	210				
Veh in Median Storage,				0	0		
Grade, %	0	-	-	0	0	-	
Peak Hour Factor	96	96	96	96	96	96	1
Heavy Vehicles, %	20	0	0	12	14	15	
Mvmt Flow	5	2	6	420	359	21	C. N. H.
Major/Minor N	linor2		Aninet		Anton	VIII O COLO	
			Majori	_	Major2	Salter .	G Service
Conflicting Flow All	802	190	380	0	-	0	
Stage 1	370						
Stage 2	432	-		-		-	
Critical Hdwy	6.9	6.9	4.1		100	WE WE	Marie Ba
Critical Hdwy Stg 1	6.1	-		-			
Critical Hdwy Stg 2	5.7	THE STATE OF			63	17 -	Real Property
Follow-up Hdwy	3.69	3.3	2.2	-			
Pot Cap-1 Maneuver	308	826	1190				
Stage 1	626	-	-	-	-	-	
Stage 2	609	-	100	-	SP S	905-	
Platoon blocked, %							
Mov Cap-1 Maneuver	306	826	1190	148		An 643	Carre 21
Mov Cap-2 Maneuver	306	-					
Stage 1	623	-			1550		- Allendar
Stage 2	609	-	-			The same of the sa	A STORY
CHICAGO E	EL STATE	Hat said	2000	STIE	NO.	in the	THE REAL PROPERTY.
	OCCUPATION.	THE PERSON				Dice.	- Name of the last
Approach	EB		NB	- 1	SB		12-3
HCM Control Delay, s	14.8		0.1		0		
HCM LOS	В						
The second second		1000		7007	100	SE STATE OF	A STATE OF
Minor I spothfolog Mumb	-	NBL	NOT	TOL -4	CD( 2	ODT	con
Minor Lane/Major Mymt		1000	_	BLn1		SBT	SBR
Capacity (veh/h)	9.5	1190		306	826	500	
HCM Lane V/C Ratio		0.005		0.017			-
HCM Control Delay (s)		8	2.4	The second second	9.4		
HCM Lane LOS		A	-	C	A	-	-
HCM 95th %tile Q(veh)	2790	0	1206	0.1	0	Section 1	STATE OF THE PARTY OF

Pembroke Industrial Park Passero Associates

2029 Phase 2 AM

4: NY-77 (Alleghany Road) & Proposed Southerly Access/Vision Parkway

10/27/2022

	1	-	1	1	-	*	1	1	-	>	1	1
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	7	1,			4			4			414	
Traffic Volume (vph)	13	0	3	1	0	8	14	391	9	9	290	54
Future Volume (vph)	13	0	3	1	0	8	14	391	9	9	290	54
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.95	0.95	0.95
Frt		0.850			0.878	NAME OF	-	0.997	NEWS TO	To Chi	0.977	
Flt Protected	0.950				0.995			0.998			0.999	
Satd. Flow (prot)	1805	1615	0	0	1660	0	0	1656	0	0	3005	0
Flt Permitted	0.950				0.995			0.998			0.999	
Satd. Flow (perm)	1805	1615	0	0	1660	0	0	1656	0	0	3005	0
Link Speed (mph)		30			30			45			45	
Link Distance (ft)		883	A State of		873	CE SE SE	W. S. C. S.	403	100	1	478	SALES
Travel Time (s)		20.1			19.8			6.1			7.2	MATERIAL STATE
Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
Heavy Vehicles (%)	0%	0%	0%	0%	0%	0%	0%	15%	0%	0%	21%	0%
Adj. Flow (vph)	14	0	3	1	0	9	15	416	10	10	309	57
Shared Lane Traffic (%)							A CONTRACTOR OF THE PARTY OF TH			NAME OF TAXABLE PARTY.		-
Lane Group Flow (vph)	14	3	0	0	10	0	0	441	0	0	376	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		12			12	-		0	10000	and the second	0	
Link Offset(ft)	AND NEW	0		-	0	and the same	100	0	200		0	Plants.
Crosswalk Width(ft)		16			16		and the latest of the latest o	16	A STATE OF THE PARTY OF THE PAR		16	and a second
Two way Left Turn Lane	4	West Block	Section.	A 188	-	E 123 11 11	DOF 174	Section 2	STORE ST	-		NAME OF TAXABLE
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	15		9	15	ALC: UNK	9	15		9	15	US STATE OF	9
Sign Control		Stop			Stop			Free			Free	

Intersection Summi	ary		
Area Type:	Other		
Control Type: Unsig	gnalized		PARTY OF STREET
Intersection Capaci	ity Utilization 43.2%	ICU Level of Service A	

HCM 6th TWSC

4: NY-77 (Alleghany Road) & Proposed Southerly Access/Vision Parkway

2029 Phase 2 AM 10/27/2022

Intersection	0.7	V-1-2-19	alle Say	ALC: YES	92.5%	2700						100	
nt Delay, s/veh	0.7												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	Section 1
Lane Configurations	ሻ	10			4			4			414		
Traffic Vol, veh/h	13	0	3	1	0	8	14	391	9	9	290	54	
Future Vol, veh/h	13	0	3	1	0	8	14	391	9	9	290	54	
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0	STEEL STATE
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free	
RT Channelized			None	TO S	1179-	None	5	TO SERVICE STATE OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED	None	200	LOSS !	None	
Storage Length	0	-	-	-	-	-	-	-	-	-	-	-	
Veh in Median Storage,	# -	0			0	-	THE PARTY	0		N. W.	0		William to the
Grade, %	-	0	-	-	0	-	-	0	-		0	-	
Peak Hour Factor	94	94	94	94	94	94	94	94	94	94	94	94	
Heavy Vehicles, %	0	0	0	0	0	0	0	15	0	0	21	0	
Mvmt Flow	. 14	0	3	1	0	9	15	416	10	10	309	57	
	linor2	an year		Ainor1	1000	_	Major1			Major2		4	
Conflicting Flow All	814	814	183	626	837	421	366	0	0	426	0	0	
Stage 1	358	358	TITE	451	451	E E	RISE .						PER MANAGEMENT
Stage 2	456	456	-	175	386	-	-	-	-		-	-	
Critical Hdwy	7.3	6.5	6.9	7.3	6.5	6.2	4.1			4.1			STATE OF THE PARTY
Critical Hdwy Stg 1	6.5	5.5	-	6.1	5.5	-	-	-	-	-		-	
Critical Hdwy Stg 2	6.1	5.5		6.5	5.5	TENE						144	
Follow-up Hdwy	3.5	4	3.3	3.5	4	3.3	2.2		-	2.2	-		
Pot Cap-1 Maneuver	286	315	834	386	305	637	1204			1144	-		
Stage 1	638	631	-	592	574	-	-		-	-	-	-	
Stage 2	588	572	1	816	614	-	-		-	The same	Willey W		The Part of the Pa
Platoon blocked, %									-			-	
Mov Cap-1 Maneuver	276	306	834	377	297	637	1204		-	1144	95.3	200	HAR DELIVERY
Mov Cap-2 Maneuver	276	306	-	377	297	-	-	-	-	-	-	-	
Stage 1	628	624		583	565	7						AND PARTY	THE RESERVE AND ADDRESS.
Stage 2	571	563		804	607	-	-	-	-	-	-	-	
Approach	FB			LA ID	EWA CO.			and said					
				WB	and the same		NB	La constant		SB			
HCM Control Delay, s HCM LOS	16.9 C		Spel	11.2 B	Sec.		0.3			0.2	100		
HCM LOS		No.	9 161	B	STATES		2000	STATE OF	es er e	SEN SE	ELECTRIC PROPERTY.		La restancia de la compansión de la comp
Minor Lane/Major Mvmt		NBL	NBT	NBR	Bi n1	EBLn2V	VBI n1	SBL	SBT	SBR			
Capacity (veh/h)	- 32	1204		1000	276	834	592	1144			The state of	/1000	
HCM Lane V/C Ratio	and the same of the	0.012		-		0.004	0.016	0.008		and the same of	1000	Value of the last	
HCM Control Delay (s)	SIDE S	8	0	en cree	18.7	9.3	11.2	8.2	0		PROP	all the later of	La respectivo de la compansión de la compa
HCM Lane LOS	-	A	A	-	C	A	В	A	A			CANADA PA	
HCM 95th %tile Q(veh)	none and a	0		ORDERO A	0.2	0	0	0		-	-		

5: NY-77 (Alleghany Road) & NY-5 (Main Street)

2029 Phase 2 AM 10/27/2022

	1	-	*	1	-	*	1	1	-	1	+	1
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	*	1		7	1		ሻ	1		7	1,	(C) Shelleddill
Traffic Volume (vph)	95	152	87	106	149	74	108	237	62	27	204	61
Future Volume (vph)	95	152	87	106	149	74	108	237	62	27	204	61
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (ft)	100		0	300		0	260		0	325	1000	(
Storage Lanes	1		0	1	1 28	0	1	HARRION CO.	0	200	TO COMP	2
Taper Length (ft)	100			115			100	CONTRACTOR OF THE PARTY OF THE	-	100		The same of
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Frt		0.946	The second second		0.950			0.969			0.966	
Flt Protected	0.950	F1000 W	2000	0.950		015-07-03	0.950	BESSA SEE	Edding:	0.950		Tiple to
Satd. Flow (prot)	1556	1703	0	1612	1621	0	1770	1796	0	1480	1539	(
Flt Permitted	0.581	The Sales	PERSONAL PROPERTY.	0.554	Na Principal	NAME OF THE OWNER, OWNE	0.538	# 1100	MEDISONS.	0.484	1000	Contract of
Satd. Flow (perm)	952	1703	0	940	1621	0	1002	1796	0	754	1539	(
Right Turn on Red	m Versel	Maria de la compansión de	Yes	ALC: N	TENNESS OF THE PARTY OF THE PAR	Yes	ENGRESS .	1100	Yes	Market and	PAN S	Yes
Satd. Flow (RTOR)		40			35	100		23	100		26	100
Link Speed (mph)	HARLE RE	45	AN ESTA	STATE OF	45	STATISTICS.	155000	45		1200	45	der 20
Link Distance (ft)		776	The second second		1602		the sales of the s	801	- Appendix		698	
Travel Time (s)	1000	11.8	Salar Sa	The souls	24.3	CHI STORY	TO ALL THE	12.1	14 12 15	NAME OF STREET	10.6	SALES OF
Peak Hour Factor	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76
Heavy Vehicles (%)	16%	7%	3%	12%	11%	12%	2%	0.76	12%	22%	14%	37%
Adi. Flow (vph)	125	200	114	139	196	97	142	312	82	36	268	80
Shared Lane Traffic (%)	120	200	E STATE OF THE PARTY OF THE PAR	100	190	31	142	312	02	30	200	OL
Lane Group Flow (vph)	125	314	0	139	293	0	142	394	0	36	348	(
Enter Blocked Intersection	No	No.	No	No	No	No	No.	No No	No	No	No No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	
Median Width(ft)	Con	12	ragin	Leit	12	Night	Leit	12	Right	Leit	12	Right
Link Offset(ft)		0			0		der.	0			0	lance of
Crosswalk Width(ft)	er van een de	16		SERVICE OF	16	AND PROPERTY.	a November 1	16	2000		16	
Two way Left Turn Lane		Yes			10			10			10	A CONTRACT
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	15	1.00	9	15	1.00	9	15	1.00	9	15	1.00	1.00
Turn Type	Perm	NA	OCCUPATION OF THE PERSON OF TH	Perm	NA	9	Perm	NA	9	Perm	NA	-
Protected Phases	Feiill	1		renn	1		reilli	3		reini		
Permitted Phases	4	CHI THE PARTY OF	PROTECTION OF	THE PERSON NAMED IN	SECURIOR SEC	e suledanisti	3	3	1000000	3	3	
Detector Phase	1	1		1	1		3	3		3	3	
Switch Phase	SUBSTITUTE	ALCOHOL: N	ALC: NO	THE REAL PROPERTY.	and the same of	No.	Edward .	3	1-250	3	Deliver of the last	
Minimum Initial (s)	10.0	10.0		10.0	10.0		10.0	10.0		10.0	10.0	
Minimum Split (s)	24.5	24.5	SERVICE OF THE PERSON	24.5	24.5		24.5	24.5	Salar Salar	24.5	24.5	CONTRACT OF
Total Split (s)	35.0	35.0		35.0	35.0	Liberal Co.	45.0	45.0		45.0	45.0	
Total Split (%)	43.8%	43.8%	20000000	43.8%	43.8%	MARKEN	56.3%	56.3%		56.3%	56.3%	NAME OF TAXABLE PARTY.
Maximum Green (s)	28.5	28.5		28.5	28.5		38.5	38.5		38.5	38.5	Seattle Control
Yellow Time (s)	5.0	5.0	Part Salar	5.0	5.0	W-150	5.0	5.0	Selfoctual Control	5.0	5.0	SECURIOR SEC
All-Red Time (s)	1.5	1.5	- Barrie	1.5	1.5	- Jack Street	1.5	1.5	100	1.5	1.5	State of
Lost Time Adjust (s)	0.0	0.0	THE REAL PROPERTY.	0.0	0.0	et aye per	0.0	0.0		0.0	0.0	
Total Lost Time (s)	6.5	6.5		6.5	6.5	Description of	6.5	6.5	esp. v C	6.5	6.5	900
Lead/Lag	0.0	0.5	2000	0.5	0.0	SENSET	0.5	0.5	N. S. S. S. S. S.	0.5	0.5	CHARLES FOR
Lead-Lag Optimize?	MARKET STATE	C CONT	A LANGE		To leave the						1000	100000
Vehicle Extension (s)	3.0	3.0	64600	3.0	3.0		10	40		10	10	
Recall Mode	None	None		None	None		4.0 None	4.0 None		4.0	4.0	
Necali Mode	INOLIG	None		None	None		None	None		None	None	

Pembroke Industrial Park Passero Associates

Synchro 11 Report Page 9 Lanes, Volumes, Timings 5: NY-77 (Alleghany Road) & NY-5 (Main Street)

2029 Phase 2 AM 10/27/2022

	•	-	*	1	-	*	1	1	-	1	1	1
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Act Effct Green (s)	16.3	16.3		16.3	16.3		19.9	19.9		19.9	19.9	
Actuated g/C Ratio	0.32	0.32		0.32	0.32	Marie Control College	0.40	0.40		0.40	0.40	No. of Concession, Name of Street, or other Persons, Name of Street, or ot
v/c Ratio	0.41	0.54	All the last	0.46	0.54	-	0.36	0.54	THE PARTY	0.12	0.56	1000
Control Delay	19.8	17.3		21.1	17.4	and the state of the state of	14.4	14.5		11.7	15.1	NAME OF STREET
Queue Delay	0.0	0.0	STANTAG	0.0	0.0	1	0.0	0.0	SHAPE OF	0.0	0.0	HOUSESAN
Total Delay	19.8	17.3		21.1	17.4	WOOD AND ADDRESS OF A	14.4	14.5		11.7	15.1	
LOS	В	В	THE PERSON NAMED IN	C	В	BEAT OF	В	В	the real	В	В	MS WATER
Approach Delay		18.0			18.6	and the same of		14.5			14.8	
Approach LOS	Time See	В	PROM		В		-	В	-	Time to	В	ALC: NO.
Queue Length 50th (ft)	26	58		29	54		24	68		6	60	
Queue Length 95th (ft)	70	131	100	78	125	DET PARTY	66	148	(Newson of	22	134	THE METERS
Internal Link Dist (ft)		696			1522	and the same of the same		721			618	A STATE OF THE PARTY OF THE PAR
Turn Bay Length (ft)	100	-	A STATE	300	1 - 2 THE O	The sales	260	introduction.	THE PERSON	325	CONTRACTOR OF THE PARTY.	ALC: NO
Base Capacity (vph)	587	1066	CONTRACTOR OF THE	580	1014		802	1442	ACCOUNT NAME OF	603	1237	INDESCRIPTION OF THE PARTY OF T
Starvation Cap Reductn	0	0	S I WAR	0	0	out Cherry	0	0	E TRANS	000	0	See and
Spillback Cap Reductn	0	0	and the same of	0	0		0	0		0	0	A PARTY OF
Storage Cap Reductn	0	0	TOTAL S	0	0	-	0	0	SS STATE OF	0	0	
Reduced v/c Ratio	0.21	0.29		0.24	0.29		0.18	0.27		0.06	0.28	

Area Type: Oti Cycle Length: 80 Actuated Cycle Length: 50.3 Natural Cycle: 50 Other

Control Type: Actuated-Uncoordinated

Maximum v/c Ratio: 0.56

Intersection Signal Delay: 16.4 Intersection Capacity Utilization 67.9% Intersection LOS: B ICU Level of Service C

Analysis Period (min) 15

Splits and Phases: 5: NY-77 (Alleghany Road) & NY-5 (Main Street)





Pembroke Industrial Park Passero Associates

2029 Phase 2 AM

6: Brickhouse Road/Proposed Access & NY-5 (Main Street)

10/27/2022

Page 11

	1	-	1	1	-	1	1	1	-	-	+	1
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	7	1		7	1		7	1		7	1-	
Traffic Volume (vph)	36	301	9	15	259	69	1	0	1	17	0	7
Future Volume (vph)	36	301	9	15	259	69	1	0	1	17	0	7
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (ft)	300		0	120		0	150		0	200		0
Storage Lanes	1	TO THE	0	1		0	1	STEEL ST	0	1	er and	15 C
Taper Length (ft)	125			75			100			25		No. of Concession, Name of Street, or other Desires, Name of Street, Name of S
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Frt		0.996			0.969			0.850	-		0.850	
Flt Protected	0.950	THE REAL PROPERTY.		0.950		STATE	0.950	TAN STA		0.950		TO THE
Satd. Flow (prot)	1719	1772	0	1597	1636	0	902	808	0	1456	1615	0
Flt Permitted	0.950	124	100	0.950	A 15 15		0.950	STATE OF THE PARTY.	E CONTRACTOR OF THE PARTY OF TH	0.950	15 To	NO.
Satd. Flow (perm)	1719	1772	0	1597	1636	0	902	808	0	1456	1615	0
Link Speed (mph)	THE STATE	45		1	45	AND SE		30	200		30	ACT.
Link Distance (ft)		831			776			817			652	
Travel Time (s)	200	12.6			11.8			18.6	La ster		14.8	
Peak Hour Factor	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87
Heavy Vehicles (%)	5%	7%	0%	13%	9%	26%	100%	0%	100%	24%	0%	0%
Adj. Flow (vph)	41	346	10	17	298	79	1	0	1	20	0	8
Shared Lane Traffic (%)	BUSH		101	SAME IN	THE WAR	SHOOL					NACES	5033
Lane Group Flow (vph)	41	356	0	17	377	0	1	1	0	20	8	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		12		THE REAL	12		DE COM	12	District Co.	STANKS.	12	
Link Offset(ft)	A DESTRUCTION AND	0	Delicated Indian		0			0	Carrieros unas	ALC: COMMO	0	
Crosswalk Width(ft)		16	LIGHT WE		16	A STREET	THE PARTY	16	E LA		16	HALL ST
Two way Left Turn Lane	ELECTION SON		The state of the s		Yes	-	NOTE AND DESCRIPTION OF THE PERSON OF THE PE		and the second	And the Party of t		
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	15		9	15		9	15		9	15		9
Sign Control		Free	<b>BARRIE</b>		Free	and the	Sec. 18	Stop			Stop	
Intersection Summary				NAME:		<b>1964</b>						
THE RESERVE THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUMN TWIND TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN	Other	305.3									a total	
Control Type: Unsignalized												

Control Type: Unsignalized Intersection Capacity Utilization 38.8% Analysis Period (min) 15

ICU Level of Service A

Pembroke Industrial Park Synchro 11 Report Passero Associates

HCM 6th TWSC

6: Brickhouse Road/Proposed Access & NY-5 (Main Street)

2029 Phase 2 AM 10/27/2022

Int Delay, s/veh	1.2								-			
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	٦	1		7	1		7	10		7	1	
Traffic Vol, veh/h	36	301	9	15	259	69	1	0	- 1	17	0	7
Future Vol, veh/h	36	301	9	15	259	69	1	0	1	17	0	7
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	E MAN		None		73.5	None	TOWN C		None		BEEL IN	None
Storage Length	300	-	-	120	-	-	150		-	200		
Veh in Median Storage	# -	0	-		0	3		0	Section .	Sec. 13	0	
Grade, %	-	0	-	-	0	-	-	0	-		0	
Peak Hour Factor	87	87	87	87	87	87	87	87	87	87	87	87
Heavy Vehicles, %	5	7	0	13	9	26	100	0	100	24	0	0
Mvmt Flow	41	346	10	17	298	79	1	0	1	20	0	8
					ORDER MANAGEM, ES			and Colors	ALC: NO.			
Major/Minor N	Major1		telbase.	Major2	el acco		Minor1	and the fi		Minor2	LEW YEAR	No.
Conflicting Flow All	377	0	0	356	0	0	809	844	351	806	810	338
Stage 1	311	0	U	330	U	U	433	433	351	372	372	338
Stage 2							376	433		434	438	
Critical Hdwy	4.15	SACORDII.	-	4.23	-	DESCRIPTION	8.1	6.5	7.2	7.34	6.5	
Critical Hdwy Stg 1	4,15			4.23			7.1	5.5	Girls and the sale	6.34	5.5	6.2
Critical Hdwy Stg 2	SUR!		-	No.	in the last of	5000	7.1	5.5	-	6.34	5.5	Series Co
Follow-up Hdwy	2.245			2.317			4.4	5.5	4.2	3.716	5.5	
Pot Cap-1 Maneuver	1165	SISSING		1144	NAME OF TAXABLE PARTY.		209		518			3.3
	1105		200	1144	200		449	302		276	316	709
Stage 1 Stage 2	PARTY IS	-			30000	No response	449	585	-	606 560	622	
Platoon blocked, %		1500	THE PARTY		1		486	598		200	582	-
Mov Cap-1 Maneuver	1165			4444	-		100	007	E40	200	201	700
Mov Cap-1 Maneuver Mov Cap-2 Maneuver		The state of the s		1144	S. Carlot	-	199	287	518	265	301	709
	-	-	-	-	-	-	199	287	-	265	301	
Stage 1		4	1983		10 m		433	565		585	613	-
Stage 2		-	-	ebito.	-	-	473	589		539	562	-
	an sale		-			DELL'AND			100	SECTION AND ADDRESS OF THE PARTY.		10 TO
Approach	EB		1-1-14	WB	que trave		NB		1 30	SB	1,55-00	re Maria
HCM Control Delay, s	0.9			0.4			17.6	97.4		16.9		
HCM LOS	CONTRACTOR OF THE PERSON AND ADDRESS OF THE PERSON ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON AND A	en en en en	NEAD OF THE PERSON	No. of Concession, Name of			С			С	-	
				11995	PRIVE	- 100	Sant C	4.46		THE REAL PROPERTY.		10/20
Minor Lane/Major Mvm	ıt	NBLn1	_	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1	_	
Capacity (veh/h)	4	199	518	1165		-	1144	100	3	265	709	100
HCM Lane V/C Ratio		0.006	0.002	0.036	-	-	0.015	-		0.074	0.011	
HCM Control Delay (s)		23.2	12	8.2			8.2			19.7	10.1	
HCM Lane LOS		C	В	Α	-		A	-		C	В	
HCM 95th %tile Q(veh)		0	0	0.1	4-500	SHAPES	0	1872	P 700	0.2	0	STREET

Pembroke Industrial Park Passero Associates

1: NY-77 (Alleghany Road) & NYS Thruway (Exit 48A)

2029 Phase 2 PM 10/27/2022

	1	-	4	1	1	1
Lane Group	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	*	7	*	4	41	
Traffic Volume (vph)	215	369	334	190	189	185
Future Volume (vph)	215	369	334	190	189	185
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Storage Length (ft)	0	0	250			0
Storage Lanes	1	1	1	190730		0
Taper Length (ft)	25		150	Mark Street	NUMBER OF STREET	
Lane Util. Factor	1.00	1.00	1.00	1.00	0.95	0.95
Frt	1100	0.850	1.00	1.00	0.926	0.55
Flt Protected	0.950	0.000	0.950	in the same of	0.020	a contra
Satd. Flow (prot)	1570	1272	1399	1810	2986	0
Flt Permitted	0.950	Sherring.	0.528	1010	2000	
Satd. Flow (perm)	1570	1272	778	1810	2986	0
Right Turn on Red		Yes	110	1010	2300	Yes
Satd. Flow (RTOR)		373			187	103
Link Speed (mph)	30	NO THE REAL PROPERTY.	THE STATE	45	45	-4-5-11-14-14-
Link Distance (ft)	854			973	786	
Travel Time (s)	19.4	-	NOT THE	14.7	11.9	
Peak Hour Factor	0.99	0.99	0.99	0.99	0.99	0.99
Heavy Vehicles (%)	15%	27%	29%	5%	8%	16%
Adj. Flow (vph)	217	373	337	192	191	187
Shared Lane Traffic (%)	211	313	331	192	191	10/
Lane Group Flow (vph)	217	373	337	192	378	0
Enter Blocked Intersection	No.	No.	No.	No No	No No	No
Lane Alignment	Left	Right	Left	Left	Left	
Median Width(ft)	12	Right	Lell	12	12	Right
Link Offset(ft)	0	A CHARLES				
	16	and the same	****	0	0	muo in ches
Crosswalk Width(ft)	16		St. Joseph	16	16	
Two way Left Turn Lane	4.00	4.00	4.00	4.00	4.00	4.00
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	15	9	15			9
Turn Type	Prot	pm+ov	pm+pt	NA	NA	Eschure F
Protected Phases	4	5	5	2	6	
Permitted Phases		4	2			
Detector Phase	4	5	5	2	6	The same
Switch Phase	VIEW CO.	The country				
Minimum Initial (s)	6.0	6.0	6.0	6.0	6.0	
Minimum Split (s)	22.5	12.0	12.0	22.5	22.5	
Total Split (s)	30.0	25.0	25.0	55.0	30.0	
Total Split (%)	35.3%	29.4%	29.4%	64.7%	35.3%	
Maximum Green (s)	24.0	19.0	19.0	49.0	24.0	
Yellow Time (s)	4.0	4.0	4.0	4.0	4.0	
All-Red Time (s)	2.0	2.0	2.0	2.0	2.0	
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	
Total Lost Time (s)	6.0	6.0	6.0	6.0	6.0	
Lead/Lag	E and	Lag	Lag	1	Lead	
Lead-Lag Optimize?		Yes	Yes		Yes	
Vehicle Extension (s)	2.0	1.0	1.0	1.0	2.0	The State of
Recall Mode	None	None	None	None	None	

Pembroke Industrial Park Passero Associates

Synchro 11 Report Page 1

Lanes, Volumes, Timings 1: NY-77 (Alleghany Road) & NYS Thruway (Exit 48A)

2029 Phase 2 PM 10/27/2022

		-	1	Т	+	4	
Lane Group	EBL	EBR	NBL	NBT	SBT	SBR	
Act Effct Green (s)	11.2	30.5	27.8	27.8	8.4		The Name of
Actuated g/C Ratio	0.22	0.59	0.54	0.54	0.16		NACTOR AND
v/c Ratio	0.63	0.41	0.58	0.20	0.59		CHICAGO IN
Control Delay	28.7	2.2	15.4	7.2	15.3		And State of Lot,
Queue Delay	0.0	0.0	0.0	0.0	0.0	THE THE PARTY OF T	
Total Delay	28.7	2.2	15.4	7.2	15.3		-
LOS	C	A	В	A	В	PROBLEM TO A PROPERTY OF A SECOND OF	NECKS AND ADDRESS OF
Approach Delay	11.9			12.4	15.3		
Approach LOS	В		WEST TO SE	В	В		OTHER DES
Queue Length 50th (ft)	57	0	52	25	26		SALES SEE
Queue Length 95th (ft)	140	26	134	67	75	Hard State of the	STATE OF THE PARTY
Internal Link Dist (ft)	774			893	706		
Turn Bay Length (ft)	Sec. 1955	No. of the	250		NAME OF TAXABLE		STATE OF THE PARTY OF
Base Capacity (vph)	762	894	759	1648	1546		Proceedings
Starvation Cap Reductn	0	0	0	0	0		Spieles.
Spillback Cap Reductn	0	0	0	0	0		AND DESCRIPTION OF THE PARTY OF
Storage Cap Reductn	0	0	0	0	0	What is a second with the second second second	STATE OF
Reduced v/c Ratio	0.28	0.42	0.44	0.12	0.24		
Intersection Summary				700000	NAME OF TAXABLE PARTY.		NAME OF TAXABLE PARTY.

Area Type: Cycle Length: 85 Other

Actuated Cycle Length: 51.5
Natural Cycle: 60
Control Type: Actuated-Uncoordinated
Maximum v/c Ratio: 0.63

Intersection Signal Delay: 12.9 Intersection Capacity Utilization 56.6% Intersection LOS: B ICU Level of Service B

Analysis Period (min) 15

Splits and Phases: 1: NY-77 (Alleghany Road) & NYS Thruway (Exit 48A)



Pembroke Industrial Park Passero Associates

2029 Phase 2 PM 10/27/2022

2: NY-77 (Alleghany Road) & Flying J Truck Access

	1	*	1	1	1	1		
Lane Group	EBL	EBR	NBL	NBT	SBT	SBR		
Lane Configurations	*	*	7	4	41			
Traffic Volume (vph)	44	9	6	421	496	45		CONTRACTOR OF
Future Volume (vph)	44	9	6	421	496	45		
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	CARROLL SECTION	- T
Storage Length (ft)	0	0	175			0		
Storage Lanes	1	1	1	25 35 5		0		
Taper Length (ft)	25		25					
Lane Util, Factor	1.00	1.00	1.00	1.00	0.95	0.95		In the same
Ped Bike Factor			- Commercial Company					
Frt	A THE PERSON	0.850			0.988	and the second	- Control - H	THE RESERVE
Flt Protected	0.950		0.950					
Satd. Flow (prot)	926	808	1081	1727	3076	0	CONTRACTOR OF THE PARTY OF	THE REAL PROPERTY.
Flt Permitted	0.950		0.950	-				
Satd. Flow (perm)	926	808	1081	1727	3076	0	CONTRACTOR	PARTY BEAR
Link Speed (mph)	10			45	45			
Link Distance (ft)	888	THE	Park I	295	973	THE RESERVE	SPATESTA	Market Mark
Travel Time (s)	60.5		The second second	4.5	14.7			
Confl. Peds. (#/hr)	3	3255		DESCRIPTION OF THE PERSON OF T	A CAMPA	-	None Constitution	
Peak Hour Factor	0.93	0.93	0.93	0.93	0.93	0.93		
Heavy Vehicles (%)	05%	1000/	670/	100/	000	0.00	area or a real real real	

Heavy Vehicles (%)	95%	100%	67%	10%	9%	93%
Adj. Flow (vph)	47	10	6	453	533	48
Shared Lane Traffic (%)		of the		TO ANNUAL PROPERTY.	STITUTE OF	300
Lane Group Flow (vph)	47	10	6	453	581	0
Enter Blocked Intersection	No	No	No	No	No	No
Lane Alignment	Left	Right	Left	Left	Left	Right
Median Width(ft)	12		PART T	12	12	
Link Offset(ft)	0			0	0	
Crosswalk Width(ft)	16		The sales	16	16	
Two way Left Turn Lane						
Headway Factor	1.00	1.00	1.00	1.00	1,00	1.00
Turning Speed (mph)	15	9	15			9
AND A STREET WALL WAS ADDRESSED AND ADDRESSED ADDRESSED AND ADDRESSED ADDRESSED AND ADDRESSED AND ADDRESSED ADDRESSED AND ADDRESSED AND ADDRESSED AND ADDRESSED ADDRESSED AND ADDRESSED AND ADDRESSED AND ADDRESSED AND ADDRESSED ADDRESSED AND ADDRESSED AND ADDRESSED ADDRESSED AND ADDRESSED ADDRESSED AND ADDRESSED AND ADDRESSED AND ADDRESSED AND ADDRESSE	DISTRICT OF THE PARTY OF	AND DESCRIPTION OF THE PERSON NAMED IN	THE RESERVE AND ADDRESS OF THE PERSON NAMED IN	OF REAL PROPERTY.	STORESTON OF	CONTRACTOR OF STREET

Intersection Summary
Area Type: Other
Control Type: Unsignalized
Intersection Capacity Utilization 32.2%
Analysis Period (min) 15

ICU Level of Service A

Pembroke Industrial Park Passero Associates

Synchro 11 Report Page 3 HCM 6th TWSC

2: NY-77 (Alleghany Road) & Flying J Truck Access

2029 Phase 2 PM 10/27/2022

Intersection	excesses.		12000	470			No.
Int Delay, s/veh	1.9				and F	V 1810	
		-					
Movement	EBL	EBR	NBL	NBT	SBT	SBR	
Lane Configurations	٦	7	7	1	41		
Traffic Vol. veh/h	44	9	6	421	496	45	Span
Future Vol, veh/h	44	9	6	421	496	45	
Conflicting Peds, #/hr		0	0	0	0	0	-
Sign Control	Stop	Stop	Free	Free	Free	Free	
RT Channelized		None		None		None	Aller .
Storage Length	0	0	175				
Veh in Median Storag		30.00		0	0		
Grade, %	0	-	-	0	0	-	
Peak Hour Factor	93	93	93	93	93	93	
Heavy Vehicles, %	95	100	67	10	9	93	
Mvmt Flow	47	10	6	453	533	48	
Major/Minor	Minor2		Major1	J 80 0	Major2	1000	700 Sec.
Conflicting Flow All	1025	291	581	0	-	0	The state of the s
Stage 1	557	2635	001	ENGINE N	POOLAGE		ange-te
Stage 2	468	-	-				William St.
Critical Hdwy	8.025	84	5.105	F-15-5	REMAN	U-200 E	Silitor
Critical Hdwy Stg 1	7.225	-	0.100			3631	and the same
Critical Howy Stg 2	6.825		Marie Co.				
	4.4025	4.252	2.8365	Separate Sep	-		ab a d
Pot Cap-1 Maneuver	146	508	694	7860	NY DE	CALLED .	
Stage 1	369	-	-				
Stage 2	442		2230	1000	SECTION AND ADDRESS.	ARLESS .	- Constitution
Platoon blocked, %	The state of the state of	San Variable	Service de		THE REAL PROPERTY.	ENION.	To the said
Mov Cap-1 Maneuver	145	508	694	100 / Kal	BE 812		ALGO D
Mov Cap-2 Maneuver		300	034	and a	-		1000
Stage 1	366		2000	MEN AND AND AND AND AND AND AND AND AND AN		-	07 4450
Stage 2	442		- Charles		-	1000	200
Stage 2	442	NAME OF	2000	WARRIES .	and the same	AND DESCRIPTION OF THE PERSON	Mailton was
	Total Control					1000	
Approach	EB		NB		SB	25-37	100
HCM Control Delay, s			0.1		0		
HCM LOS	E						-
			25.40				
Minor Lane/Major Mvr	nt	NBL	NRT	EBLn1	FRI n2	SBT	SBR
Capacity (veh/h)		694	101		508	301	JUN
HCM Lane V/C Ratio		0.009		0.326			100
HCM Control Delay (s	1	10.2		41.4	12.2	-	ALC: N
HCM Lane LOS	1	В		41,4 E	1Z.Z	10.00	
HCM 95th %tile Q(veh		0	-	1.3	0.1	-	
TOW SOUT JOHN O(VE)	4	U	1000	1.3	0.1	1000	1000

Pembroke Industrial Park Passero Associates

3: NY-77 (Alleghany Road) & Proposed Northerly Access

2029 Phase 2 PM 10/27/2022

	1	*	1	1	1	1		
Lane Group	EBL	EBR	NBL	NBT	SBT	SBR		No.
Lane Configurations	7	7	*	4	<b>†</b> ‡			
Traffic Volume (vph)	16	4	3	411	496	10	A Transaction	No.
Future Volume (vph)	16	4	3	411	496	10		N-SACON
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900		SHAR
Storage Length (ft)	0	0	210			0		and the second
Storage Lanes	1	19	1		THE REAL PROPERTY.	0		127 -
Taper Length (ft)	25		125					Mathematic
Lane Util. Factor	1.00	1.00	1.00	1.00	0.95	0.95	the contract of the same	SIE
Frt		0.850			0.997			passoning.
Flt Protected	0.950		0.950	A PROPERTY.				
Satd. Flow (prot)	1597	1615	1805	1727	3295	0		
Flt Permitted	0.950	£ 06	0.950	William H	111111	ATTENNA		-
Satd. Flow (perm)	1597	1615	1805	1727	3295	0		-
Link Speed (mph)	30	P98-191		30	30			2
Link Distance (ft)	710		A STATE OF THE PARTY OF THE PAR	369	295			NAME OF TAXABLE PARTY.
Travel Time (s)	16.1	The same of the		8.4	6.7		The second second second second	REFER
Peak Hour Factor	0.93	0.93	0.93	0.93	0.93	0.93		
Heavy Vehicles (%)	13%	0%	0%	10%	9%	20%	THE PARTY OF THE PARTY OF THE PARTY.	GEN S
Adj. Flow (vph)	17	4	3	442	533	11		Bar-se Ca
Shared Lane Traffic (%)	THE ST	T-12514	THE REAL PROPERTY.	STATE OF THE PARTY	B. S. T. T. S. S.			A CO
Lane Group Flow (vph)	17	4	3	442	544	0		
Enter Blocked Intersection	No	No	No	No	No	No	All the second s	Artis
Lane Alignment	Left	Right	Left	Left	Left	Right	A STATE OF THE STA	NAME OF TAXABLE PARTY.
Median Width(ft)	12	No. of Lot		12	12	THE RESERVE OF		NESS I
Link Offset(ft)	0			0	0			
Crosswalk Width(ft)	16	1-11		16	16	A District August Mar		THE Y
Two way Left Turn Lane								
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00		Blone
Turning Speed (mph)	60	60	60			60		
Sign Control	Stop	502		Free	Free			The same
Intersection Summary	NA SE							Party
	Other	The second second	THE RESERVE AND ADDRESS OF THE PARTY OF THE	THE PERSON NAMED IN	AND DESCRIPTION OF	THE RESERVE OF THE PARTY OF THE		Name and Address

Pembroke Industrial Park Passero Associates Synchro 11 Report Page 5 HCM 6th TWSC 3: NY-77 (Alleghany Road) & Proposed Northerly Access 2029 Phase 2 PM 10/27/2022

Intersection			015000				1000
Int Delay, s/veh	0.4						-953
Movement	EBL	EBR	NBL	NBT	SBT	SBR	1000
Lane Configurations	T	EDK.	NOL	IND I	41	SOR	A COUNTY
Traffic Vol, veh/h	16	4	3	411	496	10	TO THE ME
Future Vol, veh/h	16	4	3	411	496	10	100
Conflicting Peds, #/hr	0	0	0		0	0	Marie S
Sign Control	Stop	Stop	Free	Free	Free	Free	
RT Channelized		None		None		None	W. C.
Storage Length	0	0	210				
Veh in Median Storage		Ships.			0	-	
Grade, %	0			0	0		
Peak Hour Factor	93	93	93	93	93	93	125
Heavy Vehicles, %	13	0	0	10	9	20	
Mvmt Flow	17	4	3	442	533	11	
	Minor2		Major1		Major2		
Conflicting Flow All	987	272	544	0		0	
Stage 1	539					100	1
Stage 2	448	-	-				
Critical Hdwy	6.795	6.9	4.1		-		
Critical Hdwy Stg 1	5.995						
Critical Hdwy Stg 2	5.595			200			
	3.6235	3.3	2.2		-		-
Pot Cap-1 Maneuver	243 525	732	1035				
Stage 1 Stage 2	615		-	-	-		
Platoon blocked, %	615	Contract To		-			
Mov Cap-1 Maneuver	242	732	1035		-	-	WILLIAM D
Mov Cap-1 Maneuver	242	132	1035	Second .			
Stage 1	523	-		ewww.	Milkama.	MINISTER OF	
Stage 2	615					2	
Stage 2	010	and the same of	ESSE!	091680	Describer.	EURIN	
						OF THE	S. San
Approach	EB		NB	1800	SB		
HCM Control Delay, s			0.1		0		
HCM LOS	С	Marin All	Park Mark	The same		SWO SHARE	
		The second					545
Minor Lane/Major Mvm	nt	NBL	NBT	EBLn1	EBLn2	SBT	SBR
Capacity (veh/h)		1035	200		732		100
HCM Lane V/C Ratio		0.003		0.071		-	-
HCM Control Delay (s)		8.5			9.9	13.5	-
HCM Lane LOS		Α	-	_	Α	-	-
HCM 95th %tile Q(veh	)	0	Nex 3	0.2	0		

Pembroke Industrial Park Passero Associates

2029 Phase 2 PM

Lanes, Volumes, Timings 4: NY-77 (Alleghany Road) & Proposed Southerly Access/Vision Parkway

10/27/2022

	1	-	-	1	-	-	1	1	-	1	1	1
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	7	1+			4			4			414	
Traffic Volume (vph)	52	0	13	2	0	9	4	347	1	3	478	14
Future Volume (vph)	52	0	13	2	0	9	4	347	1	3	478	14
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.95	0.95	0.95
Frt		0.850			0.887			33 TAN 1975	PAUL DE		0.996	The same
Flt Protected	0.950				0.992			0.999				
Satd. Flow (prot)	1805	1615	0	0	1672	0	0	1697	0	0	3279	0
Flt Permitted	0.950				0.992			0.999				
Satd. Flow (perm)	1805	1615	0	0	1672	0	0	1697	0	0	3279	- 0
Link Speed (mph)		30			30			45			45	
Link Distance (ft)		883			873	500	1215	403	William !	1-1-	478	1
Travel Time (s)		20.1			19.8			6.1			7.2	
Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
Heavy Vehicles (%)	0%	0%	0%	0%	0%	0%	0%	12%	0%	0%	10%	0%
Adj. Flow (vph)	55	0	14	2	0	10	4	369	1	3	509	15
Shared Lane Traffic (%)												
Lane Group Flow (vph)	55	14	0	0	12	0	0	374	0	0	527	- 0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		12			12			0			0	
Link Offset(ft)		0	N. W. S. W. LO		0	P. Line	7	0			0	Charles of
Crosswalk Width(ft)		16			16			16			16	
Two way Left Turn Lane	NAME OF STREET	1	1	VIVET TY	174.50	and the same				-	A STATE OF	WE STO
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	60	1000	60	15	200	9	60		9	15	The same	60
Sign Control		Stop			Stop			Free			Free	

U.S. Company		
Intersection Summ	ary	
Area Type:	Other	
Control Type: Unsig	gnalized	
Intersection Capaci	ty Utilization 37.7%	ICU Level of Service A

HCM 6th TWSC

4: NY-77 (Alleghany Road) & Proposed Southerly Access/Vision Parkway

2029 Phase 2 PM 10/27/2022

Intersection	4.7	2505-25	E DEL		ero.	79.00				5-58	Service.	Charles I
Int Delay, s/veh	1.7											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	7	1.			4			4			414	
Traffic Vol, veh/h	52	0	13	2	0	9	4	347	1	3	478	14
Future Vol, veh/h	52	0	13	2	0	9	4	347	1	3	478	14
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	155	1	None	SE SE	-	None	Mary S	Sec.	None	Tella.		None
Storage Length	0		-	-	-	-	-	-	-			
Veh in Median Storage,	# -	0		100	0	256	230-	0	ST-		0	
Grade, %	-	0	-	-	0	-	-	0	-	-	0	
Peak Hour Factor	94	94	94	94	94	94	94	94	94	94	94	94
Heavy Vehicles, %	0	0	0	0	0	0	0	12	0	0	10	0
Mvmt Flow	55	0	14	2	0	10	4	369	1	3	509	15
	-					THE RESERVE	S. Contract					
Major/Minor N	Ainor2	100	A	Minor1		N	lajor1		1	Najor2	100	
Conflicting Flow All	906	901	262	639	908	370	524	0	0	370	0	0
Stage 1	523	523		378	378	510	024	1	No.	1000		THE REAL PROPERTY.
Stage 2	383	378	-	261	530		-	MARKET STATE	S. O'CHALLES	-	and the same	may 6
Critical Hdwy	7.3	6.5	6.9	7.3	6.5	6.2	4.1	2 SHARES	No. of Lot	4.1	Sich Land	AE WHEN
Critical Hdwy Stg 1	6.5	5.5		6.1	5.5	0.2	-	minimum co	Maria de la constante de la co	-	to be seen a	No.
Critical Hdwy Stg 2	6.1	5.5		6.5	5.5	NO.	-	STEELS .			SEC	56000
Follow-up Hdwy	3.5	4	3.3	3.5	4	3.3	2.2			2.2		
Pot Cap-1 Maneuver	246	280	743	378	277	680	1053		ACCESSED BY	1200	William .	NAME OF TAXABLE
Stage 1	510	534	-	648	619	-		Manufacture .	-	-		
Stage 2	644	619		727	530	42500	1976	STEP SELECT			THE REAL PROPERTY.	lena a s
Platoon blocked, %		0.0		- 121	-000	100	10,000	-	-			-
Mov Cap-1 Maneuver	241	277	743	369	275	680	1053	No.		1200	West St	-
Mov Cap-2 Maneuver	241	277		369	275	000	1000		100	1200		15-11-
Stage 1	507	532		645	616	ALC: UNITED IN	EXECUTE	SERVICE OF		Service .	-	
Stage 2	632	616		711	528	Service of the last	Director	all little and		2000	ALC: N	100
Ologe 2	1002	010		5500	320		AUGUS		-		Titles:	E 135
Approach	EB			WB		-	NB		RETURN	SB		
HCM Control Delay, s	21.4	TEN, I		11.2		1000	0.1		943	0		Sept.
HCM LOS	C	-		В	The same of the sa			- ALLES	THE COLD		No. of Concession,	
		200				5745				1945	TO A	
Minor Lane/Major Mvm		NBL	NBT	NBR E	BLn1	EBLn2W	/BLn1	SBL	SBT	SBR		3212
Capacity (veh/h)		1053			241	743	590	1200		N. E.	USIG	450
HCM Lane V/C Ratio		0.004			0.23	0.019	0.02	0.003		-	The state of the s	-
HCM Control Delay (s)		8.4	0		24.3	9.9	11.2	8	0	1000	NO.E	and the same
HCM Lane LOS	ALC: UNKNOWN	A	A	-	C	A	В	A	A	-	-	0 101 202
HCM Lane LOS												

Pembroke Industrial Park Passero Associates

Synchro 11 Report Page 7 Pembroke Industrial Park Passero Associates

2029 Phase 2 PM 10/27/2022

5: NY-77 (Alleghany Road) & NY-5 (Main Street)

	1	-	-	1	-	*	1	1	-	1	1	1
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	*	1.		*	1		*	1		7	4	
Traffic Volume (vph)	93	211	130	58	158	47	82	215	53	79	287	123
Future Volume (vph)	93	211	130	58	158	47	82	215	53	79	287	123
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (ft)	100		0	300		0	260		0	325	1000	0
Storage Lanes	1	The same	0	1	EN OWN	0	1	The same	0	1	126 305	0
Taper Length (ft)	100			115			100			100	A STANDARD	
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Frt		0.943			0.966	1.00	1.00	0.970	1.00	1.00	0.955	1.00
Flt Protected	0.950		and the same	0.950	WORSE S	A CONTRACTOR	0.950	DESCRIPTION OF THE PARTY OF THE	North Called	0.950	0.555	-
Satd. Flow (prot)	1456	1699	0	1805	1773	0	1752	1726	0	1671	1656	0
Flt Permitted	0.624	MARKET PR	NEATHORN.	0.481	RESIDENCE OF THE PARTY OF THE P	SECTION AND ADDRESS.	0.442	STATE OF THE PARTY OF	No. of Lot	0.587	1000	THE REAL PROPERTY.
Satd. Flow (perm)	956	1699	0	914	1773	0	815	1726	0	1033	1656	0
Right Turn on Red		1000	Yes	ALLINE	COMMISSION	Yes	013	1720	Yes	1033	1030	Yes
Satd. Flow (RTOR)		43	163		21	169		21	162		37	105
Link Speed (mph)	Name of the	45	With the same	PARTIE AND	45	THE REAL PROPERTY.	1200	45	CONTRACTION OF	Same and the last	45	
Link Distance (ft)		776	40.00	NAC SE	1602		* 25	801		S 11 15		
Travel Time (s)	TO MAY WELL	11.8	FO-SULTON	COMET VIEW DAY	24.3		AND DESIGNATION OF THE PERSON NAMED IN COLUMN 1	12.1			698	_
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.05		0.05	0.05	10.6	
Heavy Vehicles (%)	24%	7%	3%	0.95	4%		0.95	0.95	0.95	0.95	0.95	0.95
Adi. Flow (vph)	98	222			The second second	2%	3%	8%	2%	8%	9%	11%
Shared Lane Traffic (%)	90	222	137	61	166	49	86	226	56	83	302	129
	00	050				S. S. S.					19-20	1
Lane Group Flow (vph)	98	359	0	61	215	0	86	282	0	83	431	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)	125.24	12	255-27		12		100	12			12	
Link Offset(ft)		0			0			0			0	
Crosswalk Width(ft)		16	No.		16	Transfer or		16			16	
Two way Left Turn Lane		Yes										
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	15		9	15		9	15		9	15		9
Turn Type	Perm	NA		Perm	NA		Perm	NA		Perm	NA	
Protected Phases		1			1			3			3	
Permitted Phases		T. C.					3			3		
Detector Phase	1	1		1	1		3	3		3	3	
Switch Phase												
Minimum Initial (s)	10.0	10.0		10.0	10.0		10.0	10.0		10.0	10.0	
Minimum Split (s)	24.5	24.5		24.5	24.5		24.5	24.5		24.5	24.5	STORY PRO
Total Split (s)	35.0	35.0		35.0	35.0		45.0	45.0		45.0	45.0	
Total Split (%)	43.8%	43.8%		43.8%	43.8%	1000	56.3%	56.3%	SHA	56.3%	56.3%	-
Maximum Green (s)	28.5	28.5		28.5	28.5		38.5	38.5		38.5	38.5	
Yellow Time (s)	5.0	5.0		5.0	5.0	*	5.0	5.0	A STATE OF	5.0	5.0	
All-Red Time (s)	1.5	1.5		1.5	1.5		1.5	1.5		1.5	1.5	
Lost Time Adjust (s)	0.0	0.0	100	0.0	0.0	THE PERSON NAMED IN	0.0	0.0	E-STORES	0.0	0.0	
Total Lost Time (s)	6.5	6.5		6.5	6.5		6.5	6.5		6.5	6.5	The second second
Lead/Lag	150		me la	NO THE	575 60	THE STATE OF	POTENTIAL SE	WW.	Charles .	No. of Street	NAME OF TAXABLE PARTY.	19
Lead-Lag Optimize?										-		-
Vehicle Extension (s)	3.0	3.0		3.0	3.0	NAME OF THE OWNER, OWNE	4.0	4.0	STEEL ST	4.0	4.0	of the last
Recall Mode	None	None		None	None	A SECTION AND ADDRESS OF	None	None		None	None	-

Pembroke Industrial Park Passero Associates

Synchro 11 Report Page 9 Lanes, Volumes, Timings

5: NY-77 (Alleghany Road) & NY-5 (Main Street)

2029 Phase 2 PM 10/27/2022

	•	-	1	1	-	*	1	1	-	1	1	1
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Act Effct Green (s)	16.9	16.9	7.75	16.9	16.9		21.3	21,3		21.3	21.3	RESERVE OF
Actuated g/C Ratio	0.32	0.32		0.32	0.32	Principle of the Control	0.41	0.41		0.41	0.41	CHICAGO I
v/c Ratio	0.32	0.62		0.21	0.37	A STATE OF THE STA	0.26	0.40		0.20	0.62	SERVICE.
Control Delay	18.8	19.8	-	17.2	15.7	With the Park of t	13.4	12.3	Name and Address of the Owner, where the Owner, which is the Ow	12.1	15.9	
Queue Delay	0.0	0.0	Sept Man	0.0	0.0	SERVICE S	0.0	0.0	ENDERED !	0.0	0.0	A SECRETARY
Total Delay	18.8	19.8		17.2	15.7	AND DESCRIPTION OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED	13.4	12.3		12.1	15.9	
LOS	В	В	-	В	В		В	В		В	В	ACTION STATE
Approach Delay		19.6			16.1			12.5	La minera in	U	15.3	
Approach LOS	-	В	HAP SIT	ALEX DEL	В		100000	В		PARKET DE	В.	New York
Queue Length 50th (ft)	21	75		13	42		15	49		14	82	
Queue Length 95th (ft)	72	206		48	121	PASSAGE AND ADDRESS OF THE PASSAGE AND ADDRESS O	53	129	THE WORLD	49	213	HERON
Internal Link Dist (ft)		696	ALL RESIDENCE AND ADDRESS OF THE PARTY OF TH	ALC: NO.	1522		00	721	TOTAL TER	40	618	
Turn Bay Length (ft)	100			300	ALC: N	BERLEVA.	260	ALTERNATION OF THE PARTY OF THE	WALL BEING	325	010	MANUARO.
Base Capacity (vph)	569	1028		543	1063		631	1342	Walliam Co.	800	1291	STATE OF THE PARTY
Starvation Cap Reductn	0	0	SAT SHIP	0	0	Pige Park	0	0	STORES LA	0	0	No.
Spillback Cap Reductn	0	0		0	0	and an extension of the	0	0		0	0	
Storage Cap Reductn	0	0	SAME EN	0	0	-	0	0	KEN THE PERSON	0	0	Marin In
Reduced v/c Ratio	0.17	0.35		0.11	0.20		0.14	0.21		0.10	0.33	

Area Type: Other
Cycle Length: 80
Actuated Cycle Length: 52.4
Natural Cycle: 50
Control Type: Actuated-Uncoordinated
Maximum vic Ratio: 0.62

Intersection Signal Delay: 16.0
Intersection Capacity Utilization 80.0% Intersection LOS: B ICU Level of Service D

Analysis Period (min) 15

Splits and Phases: 5: NY-77 (Alleghany Road) & NY-5 (Main Street)

\$01 1 03

Pembroke Industrial Park Passero Associates

2029 Phase 2 PM 10/27/2022

Lanes, Volumes, Timings 6: Brickhouse Road/Proposed Access & NY-5 (Main Street)

1	-	*	1	-	1	1	†	-	>	+	1
EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
7	12		7	1.		7	1.		7	1.	
11	340	3	2	364	22	6	0	17	67	0	34
11	340	3	2	364	22	6	0	17	67	0	34
1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
300		0	120		0	150		0	200		0
1		0	1		0	1	100	0	19	British Co.	0
125			75			100			25		
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	0.999			0.992			0.850			0.850	
0.950	5.50	1	0.950	5 6 20	100	0.950	THE REAL PROPERTY.	The state of	0.950	The same	- MA . JA
1805	1754	0	1805	1794	0	1626	1615	0	1399	1568	0
0.950			0.950	SOLE OF	THE TA	0.950	2000	4	0.950	THE PERSON NAMED IN	200
1805	1754	0	1805	1794	0	1626	1615	0	1399	1568	0
	45			45	1	-	30	25	THE ST	30	1
	831			776			817			652	
	12.6			11.8	513613		18.6	2 4114	1012-10	14.8	2515
0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
0%	8%	33%	0%	4%	23%	11%	0%	0%	29%	0%	3%
12	362	3	2	387	23	6	0	18	71	0	36
						COLUMN TO SERVICE	FOR THE	Salto	100	Por III	E WAR
12	365	0	2	410	0	6	18	0	71	36	0
No	No	No	No	No	No	No	No	No	No	No	No
Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
San	12		are of	12	aliterated	district.	12		100	12	MAGN
	0			0			0			0	Charles Plants
A STATE OF	16			16	THE PERSON	10.475	16	-	-	16	ALC: C
				Yes							
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
60		9	15	-	60	15		9	60		60
	11 11 1900 300 1 125 1.00 0.950 1805 0.950 1805	11 340 11 340 1900 1900 300 1 1 125 1.00 1.00 0.999 0.950 1754 0.950 1754 0.950 1754 831 12.6 0.94 0.94 0% 8% 12 362 12 365 No No Left Left 12 0 16	11 340 3 11 340 3 1900 1900 1900 300 0 0 1 0 0 125 1.00 1.00 1.00 0.999 1805 1754 0 0.950 1754 0 0.950 45 831 12.6 0.94 0.94 0.94 0% 8% 33% 12 362 3 12 362 3 12 365 0 No No No Left Left Right 12 0 16 100 1.00 1.00	11 340 3 2 11 340 3 2 1900 1900 1900 1900 300 0 120 1 0 1 125 75 1.00 1.00 1.00 1.00 0.999 0 0,950 1805 1754 0 1805 0.950 0,950 1805 1754 0 1805 45 831 12.6 0,94 0,94 0,94 0% 8% 33% 0% 12 362 3 2 No No No No Left Left Right Left 12 0 16	11 340 3 2 364 111 340 3 2 364 1900 1900 1900 1900 1900 300 0 120 1 0 1 125 75 1.00 1.00 1.00 1.00 1.00 0.999 0.992 0.990 1805 1754 0 1805 1794 0.950 0.950 1805 1754 0 1805 1794 0.950 1805 1794 45 45 45 831 776 12.6 11.8 0.94 0.94 0.94 0.94 0% 8% 33% 0% 4% 12 362 3 2 387 12 365 0 2 410 No No No No No Left Left Right Left Left 12 0 0 16 16 Yes 1.00 1.00 1.00 1.00 1.00	11 340 3 2 364 22 1900 1900 1900 1900 1900 300 0 120 900 125 75 1.00 1.00 1.00 1.00 1.00 1.00 0.999 0.992 1805 1754 0 1805 1794 0 0.950 0.950 1805 1754 0 1805 1794 0 0.950 1754 0 1805 1794 0 0.950 1805 1754 0 1805 1794 0 0.950 0.950 1805 1754 0 1805 1794 0 0.950 1805 1794 0 0.950 2 387 23 12 365 0 2 387 23 12 365 0 2 410 0 No No No No No No Left Left Right 12 12 12 12 12 12 12 12 12 12 12 12 12	11   340   3   2   364   22   6	11   340   3   2   364   22   6   0	11   340   3   2   364   22   6   0   17     11   340   3   2   364   22   6   0   17     1900   1900   1900   1900   1900   1900   1900   1900     300   0   120   0   0   150   0     1	11   340   3   2   364   22   6   0   17   67     11   340   3   2   364   22   6   0   17   67     1900   1900   1900   1900   1900   1900   1900   1900   1900     300   0   120   0   0   150   0   0   0     1	11   340   3   2   364   22   6   0   17   67   0

Area Type: Other
Control Type: Unsignalized
Intersection Capacity Utilization 37.5%
Analysis Period (min) 15

Pembroke Industrial Park Passero Associates

Synchro 11 Report Page 11 HCM 6th TWSC

2029 Phase 2 PM 10/27/2022

6: Brickhouse Road/Proposed Access & NY-5 (Main Street)

Intersection												
Int Delay, s/veh	2.7	-										
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	*	1.		ሻ	1,		*	1,		7	4	SLAGARIS .
Traffic Vol. veh/h	11	340	3	2	364	22	6	0	17	67	0	34
Future Vol. veh/h	11	340	3	2	364	22	6	0	17	67	0	34
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	ALC: N	and the same	None	BE CHIEF		None		DE L	None		TO BE SHOW	None
Storage Length	300	-	-	120		-	150	-	-	200	-	
Veh in Median Storage,	# -	0	to the first	Service N	0		STEWARD ST	0	1		0	SHOTS
Grade, %	-	0	-	-	0		-	0		-	0	-
Peak Hour Factor	94	94	94	94	94	94	94	94	94	94	94	94
Heavy Vehicles, %	0	8	33	0	4	23	11	0	0	29	0	3
Mymt Flow	12	362	3	2	387	23	6	0	18	71	0	36
	-											
Major/Minor N	lajor1	22.00	500	Major2			Minor1	244		Minor2		
Conflicting Flow All	410	0	0	365	0	0	809	802	364	800	792	399
Stage 1		35-10-	1000	-		Den ne	388	388	1991	403	403	CHAMP
Stage 2	-	-	-	-		-	421	414	-	397	389	
Critical Hdwy	4.1	200	Sec. 24	4.1		100 CO	7.21	6.5	6.2	7.39	6.5	6.23
Critical Hdwy Stg 1		-	-	-	-		6.21	5.5	-	6.39	5.5	
Critical Hdwy Stg 2			10777	1	No.	THE PARTY	6.21	5.5	-	6.39	5.5	Sport L
Follow-up Hdwy	2.2	-	-	2.2		-	3.599	4	3.3	3.761	4	3.327
Pot Cap-1 Maneuver	1160			1205		THE ST	289	320	685	273	324	649
Stage 1		-		-		-	618	612		574	603	
Stage 2	RIA P	100	-			2000	593	597	1	578	612	
Platoon blocked, %	Proposition and a	-	-			-		WHITE SHEET	Mileson Miles	Mary Rose To	Stranger Commission	
Mov Cap-1 Maneuver	1160	NAME OF		1205	9-84		271	316	685	263	320	649
Mov Cap-2 Maneuver	-						271	316		263	320	
Stage 1	455	-		SE SE	No.		612	606		568	602	25/19/2
Stage 2	-		-		-		559	596	-	557	606	-
			College Services	7 7 9			105 AS					3000
Approach	EB			WB	18 E	Sec. 1	NB		1	SB	250	5830
HCM Control Delay, s	0.3			0	11/1/2	1465	12.5		C T-IV	19.4		
HCM LOS				and the same		-	В	diseases.		С		
Minor Lane/Major Mvml		NBLn1		EBL	EBT	EBR	WBL	WBT	WBR	SBLn1	-	
Capacity (veh/h)		271	685	1160			1205	-		263	649	
HCM Lane V/C Ratio		0.024		0.01			0.002	-		0.271	0.056	
HCM Control Delay (s)		18.6	10.4	8.1	1	A 15 -	8		0.	23.7	10.9	
HCM Lane LOS HCM 95th %tile Q(veh)	CHICAGO III	C 0.1	0.1	Α 0	-		Α 0	-	-	C	В	
										1.1	0.2	

Pembroke Industrial Park Passero Associates

1: NY-77 (Alleghany Road) & NYS Thruway (Exit 48A)

2032 Phase 3 AM 10/27/2022

	1	1	1	1	1	1	
Lane Group	EBL	EBR	NBL	NBT	SBT	SBR	158
Lane Configurations	*	7	7	<b></b>	17	- Color	- 245
Traffic Volume (vph)	106	319	404	113	203	227	1200
Future Volume (vph)	106	319	404	113	203	227	-
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	et and all
Storage Length (ft)	0	0	250	1000	1300	0	
Storage Lanes	1	1	250	SHEW.	CHURTON.	0	Superior .
Taper Length (ft)	25		150		4.00	U	
Lane Util, Factor	1.00	1.00	1.00	1.00	0.95	0.95	ATTION 1
Frt	1.00	0.850	1.00	1.00	0.921	0.90	
Flt Protected	0.950	0.000	0.950	BG 24 /201	0.921		TOTAL
Satd. Flow (prot)	1480	1242	1421	1743	2961	0	200
Fit Permitted	0.950	1242	0.461	1743	2901	U	CHURCH
Satd. Flow (perm)	1480	1242	690	1743	2004	0	100
	1400		090	1/43	2961		Description of the last
Right Turn on Red		Yes		-	247	Yes	130
Satd. Flow (RTOR)	- 00	347			247		
Link Speed (mph)	30			45	45	Section 1	110
Link Distance (ft)	854			973	786	-	
Travel Time (s)	19.4			14.7	11.9		150
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	
Heavy Vehicles (%)	22%	30%	27%	9%	7%	17%	
Adj. Flow (vph)	115	347	439	123	221	247	
Shared Lane Traffic (%)		Table 5					
Lane Group Flow (vph)	115	347	439	123	468	0	
Enter Blocked Intersection	No	No	No	No	No	No	
Lane Alignment	Left	Right	Left	Left	Left	Right	
Median Width(ft)	12			12	12		
Link Offset(ft)	0			0	0		
Crosswalk Width(ft)	16			16	16		Contract of
Two way Left Turn Lane							
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	September 1
Turning Speed (mph)	15	9	15			9	
Turn Type	Prot	pm+ov	pm+pt	NA	NA	N. State	HE 20
Protected Phases	4	5	5	2	6	THE REAL PROPERTY.	
Permitted Phases	1 Ph 20	4	2		AR VENH	DE GIVE	1000
Detector Phase	4	5	5	2	6		
Switch Phase	100	EWER	ALCOHOL: N	A-9-14	SACAL	THE STATE OF	9
Minimum Initial (s)	6.0	6.0	6.0	6.0	6.0	and the second second second	account.
Minimum Split (s)	22.5	12.0	12.0	22.5	22.5	Street,	The same
Total Split (s)	30.0	25.0	25.0	55.0	30.0		
Total Split (%)	35.3%	29.4%	29.4%	64.7%	35.3%	Barbara Commercial	
Maximum Green (s)	24.0	19.0	19.0	49.0	24.0		
Yellow Time (s)	4.0	4.0	4.0	4.0	4.0	contrat-	
All-Red Time (s)	2.0	2.0	2.0	2.0	2.0		
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	The last last	ACM STATE
Total Lost Time (s)	6.0	6.0	6.0	6.0	6.0		Maria S
Lead/Lag	0.0	Lag	Lag	0.0	Lead	and the same of	lage for a second
Lead-Lag Optimize?	W (0)	Yes	Yes	L. STEINER	Yes		
Vehicle Extension (s)	2.0	1.0	1.0	10	2.0	and the second	-
Recall Mode	None		State of the last	1.0	The Park Street, Square, or other parks.		
Recall Wode	None	None	None	None	None		

Pembroke Industrial Park Passero Associates Synchro 11 Report Page 1 Lanes, Volumes, Timings

1: NY-77 (Alleghany Road) & NYS Thruway (Exit 48A)

2032 Phase 3 AM 10/27/2022

	1	*	1	Ť	+	4	
Lane Group	EBL	EBR	NBL	NBT	SBT	SBR	HSPE
Act Effct Green (s)	9.1	28.2	32.9	35.1	9.4		Total Control
Actuated g/C Ratio	0.18	0.56	0.65	0.69	0.19		District Co.
v/c Ratio	0.43	0.41	0.63	0.10	0.63		THE ST
Control Delay	27.2	2.4	15.2	5.1	14.4		- Contract
Queue Delay	0.0	0.0	0.0	0.0	0.0	MODELLA CONTRACTOR SERVICE AND ACTION OF THE PROPERTY OF THE P	
Total Delay	27.2	2.4	15.2	5.1	14.4		aniologica.
LOS	C	A	В	A	В		100
Approach Delay	8.6			13.0	14.4		
Approach LOS	A	1000	100	В	В		Mars -
Queue Length 50th (ft)	34	0	64	13	34		100000
Queue Length 95th (ft)	81	28	151	36	79	the state of the s	
nternal Link Dist (ft)	774			893	706		-
Turn Bay Length (ft)		100	250	100	1		
Base Capacity (vph)	765	890	781	1567	1650		Name of the least
Starvation Cap Reductn	0	0	0	0	0		APRIL D
Spillback Cap Reductn	0	0	0	0	0		Name and Address of the Owner, where the Owner, which is the Owner
Storage Cap Reductn	0	0	0	0	0	The state of the s	10000
Reduced v/c Ratio	0.15	0.39	0.56	0.08	0.28		Care A
Intersection Summary							
Area Type:	Other						
A THE RESIDENCE OF THE PARTY OF	Name and Address of the Owner, where the Owner, which is the Own	NAME OF TAXABLE PARTY.	Comment of the language		_		

Area Type: Other
Cycle Length: 55
Actuated Cycle Length: 50.7
Natural Cycle: 60
Control Type: Actuated-Uncoordinated
Maximum v/c Ratio: 0.63
Intersection Signal Delay: 12.0
Intersection Capacity Utilization 56.2%
ICU Level of Service B

Splits and Phases: 1: NY-77 (Alleghany Road) & NYS Thruway (Exit 48A)



Pembroke Industrial Park Passero Associates

Analysis Period (min) 15

Page 3

	-	1	1	1	+	4		
Lane Group	EBL	EBR	NBL	NBT	SBT	SBR		
Lane Configurations	7	7	*	<b></b>	41			
Traffic Volume (vph)	59	4	2	434	440	46	The State of the S	
Future Volume (vph)	59	4	2	434	440	46		
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900		DOM:
Storage Length (ft)	0	0	175			0	A CONTRACTOR OF STREET	
Storage Lanes	35251	1	1	STEVENS		0	Section 200	Section 1
Taper Length (ft)	25		25					Marin Andrews Company Comp
Lane Util. Factor	1.00	1.00	1.00	1.00	0.95	0.95	1.110.717.709	
Frt		0.850			0.986			
Flt Protected	0.950		0.950	5	STEELS	Service Control	TANK SERVICE SERVICE	
Satd. Flow (prot)	912	808	902	1696	2904	0		
Flt Permitted	0.950	100	0.950	A STATE OF	-		STATE OF THE PARTY OF	CONTRACTOR OF
Satd. Flow (perm)	912	808	902	1696	2904	0		
Link Speed (mph)	10	CHAIN THE	177138	45	45	Allert American	MATERIAL STREET	
Link Distance (ft)	888			295	973	and the base of the same of the same		
Travel Time (s)	60.5			4.5	14.7	CONTRACTOR OF THE PARTY.	District Control	er en
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96		and the last of th
Heavy Vehicles (%)	98%	100%	100%	12%	15%	95%	TO THE REAL PROPERTY.	Market Street
Adj. Flow (vph)	61	4	2	452	458	48		The second second
Shared Lane Traffic (%)	STATE OF THE	E STATE	NO SER	No. of Lot	(Size Li	THE CHARLES		Contract of
Lane Group Flow (vph)	61	4	2	452	506	0		
Enter Blocked Intersection	No	No	No	No	No	No	CELEBORY OF LESS	
Lane Alignment	Left	Right	Left	Left	Left	Right		
Median Width(ft)	12		CHARLES	12	12		THE RESERVE TO SERVE THE PARTY OF THE PARTY	WELL STATE
Link Offset(ft)	0		-	0	0			
Crosswalk Width(ft)	16		-	16	16	And the Control of the Control	THE REAL PROPERTY AND	CATALOG AND
Two way Left Turn Lane					th and the second distriction			
Headway Factor	1,00	1.00	1.00	1.00	1.00	1.00	and the second	
Turning Speed (mph)	15	9	15			9		to the state of
Sign Control	Stop	THE REAL PROPERTY.	deline si	Free	Free	AND DESCRIPTIONS		St. St. St.
Intersection Summary		Super in	NAME OF TAXABLE PARTY.	-		NAMES OF TAXABLE	NAME OF TAXABLE PARTY.	
The second secon	Other		The state of the	and a second				
Control Type: Unsignalized	Juici	all all and		The Carlot		m February 1		

Pembroke Industrial Park Synchro 11 Report Passero Associates

HCM 6th TWSC 2: NY-77 (Alleghany Road) & Flying J Truck Access 2032 Phase 3 AM 10/27/2022

ntersection	3443		-	and the			
nt Delay, s/veh	2.4						
Movement	EBL	EBR	NBL	NBT	SBT	SBR	
ane Configurations	7	7	7	4	41	OUIT	
Traffic Vol. veh/h	59	4	2	434	440	46	ESPIREM
Future Vol. veh/h	59	4	2	434	440	46	No. No.
Conflicting Peds. #/hr	0	0	0	0	0	0	CONTRACTOR IN
Sign Control	Stop	Stop	Free	Free		Free	
RT Channelized	Otop		1100		1166	None	The same of
Storage Length	0	0	175	- INONE		None	40,000
Veh in Median Storage.		PROP	113	0	0		
Grade, %	0			0	0		No.
Peak Hour Factor	96	96	96	96	96	96	SHIPPE STATE
Heavy Vehicles, %	98	100	100	12	15	95	SAUC!
Mymt Flow	61	4	2	452	458	48	N. Wallet
nemerical low	VI	No. of Street, or other Persons and the Person	4	402	400	40	14. E. S.
	linor2		Major1		Major2		20210
Conflicting Flow All	938	253	506	0		0	
Stage 1	482	1		Ja -	125	70.34	The Party
Stage 2	456	-			-		
Critical Hdwy	8.07	8.4	5.6		-		
Critical Hdwy Stg 1	7.27	-	-			-	
Critical Hdwy Stg 2	6.87	10 B		THE REAL PROPERTY.	1	MS-A	and the
Follow-up Hdwy	4.431	4.25	3.15				
Pot Cap-1 Maneuver	167	543	644		100		Win of
Stage 1	407						
Stage 2	445	100	TOP!		STOR		
Platoon blocked, %							-
Mov Cap-1 Maneuver	166	543	644	15			
Mov Cap-2 Maneuver	166			-			NAME OF TAXABLE PARTY.
Stage 1	406		100	-	38.83	-	
Stage 2	445		-		-	ET AL	-
Control of the second	Eight)	Market Street	un total		0.35	E 1-05	digital of
	and the last	and a second	-			and the same	Part Street Part
Approach	EB	7,500	NB		SB		1000
HCM Control Delay, s	37.2	135	0	1990	0	1	- Children
HCM LOS	E		who become				
	582				600		100
Minor Lane/Major Mvmt		NBL	NBT	EBLn1	EBLn2	SBT	SBR
Capacity (veh/h)	10000	644		166	543	United St	
HCM Lane V/C Ratio	THE REAL PROPERTY.	0.003			0.008		SUT SI
HCM Control Delay (s)	2019	10.6			11.7	100000	
HCM Lane LOS		В	-	E	В		State of

Pembroke Industrial Park Passero Associates

Lanes, Volumes, Timings 3: NY-77 (Alleghany Road) & Proposed Northerly Access

2032 Phase 3 AM 10/27/2022

	1	1	1	1	1	1		
Lane Group	EBL	EBR	NBL	NBT	SBT	SBR		2000
Lane Configurations	7	7	*	4	<b>†</b> ‡			
Traffic Volume (vph)	5	2	6	435	423	20	CHARLES AND ALL	
Future Volume (vph)	5	2	6	435	423	20		
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	The second second	-
Storage Length (ft)	0	0	210			0		
Storage Lanes	1	1		-	10000	0	A STATE OF THE PARTY OF THE PAR	A STATE OF
Taper Length (ft)	25		125					
Lane Util. Factor	1.00	1.00	1.00	1.00	0.95	0.95	CONTRACTOR OF THE PARTY	Maria Jan
Frt		0.850		Carl Supplement	0.993			
Flt Protected	0.950	15 17 17 1	0.950	STATE OF	SHIKE!	CONTRACTOR OF	PRODUCTION OF STREET	
Satd. Flow (prot)	1504	1615	1805	1696	3117	0		
Flt Permitted	0.950	HIE HIE	0.950	SALAR SA	SANTA	The second		THE PARTY OF
Satd. Flow (perm)	1504	1615	1805	1696	3117	0		
Link Speed (mph)	30	and the	Deliveral and	45	45	AND PARTY OF THE PARTY OF	STATE OF THE PARTY OF THE	A STATE OF THE PARTY OF THE PAR
Link Distance (ft)	710		and the same	369	295			
Travel Time (s)	16.1	15.534	EN 1919	5.6	4.5	A CONTRACTOR OF THE	Andrew State of the State of th	PERMIT
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96		
Heavy Vehicles (%)	20%	0%	0%	12%	15%	15%	He was to be delicated	MERCON NO.
Adj. Flow (vph)	5	2	6	453	441	21		
Shared Lane Traffic (%)	-	No. of London	5011	W. Trible	STATE OF	THE SHAPE OF THE S	A THE REAL PROPERTY.	THE REAL PROPERTY.
Lane Group Flow (vph)	5	2	6	453	462	0		
Enter Blocked Intersection	No	No	No	No	No	No	PART WEST	AND DESCRIPTION
Lane Alignment	Left	Right	Left	Left	Left	Right		
Median Width(ft)	12	MARKE .	SAL-395	12	12	WEST WATER		Contract of the last of the la
Link Offset(ft)	0	-	-	0	0	A STATE OF THE PARTY OF THE PAR		
Crosswalk Width(ft)	16			16	16	A STATE OF THE PARTY OF THE PAR	CHARLEST STATE	
Two way Left Turn Lane	The state of the s		-					
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	are Manager and an	CONTRACTOR OF
Turning Speed (mph)	15	9	15			9		and the second second
Sign Control	Stop			Free	Free			
Intersection Summary				DE LA COMP			Z PARTY KAND	
Area Type:	Other	150		TO SERVICE STATE OF THE SERVIC	www.mes			
Control Type: Unsignalized								
Intersection Capacity Utilizal	tion 32.9%			10	U Level	of Service A	THE PERSON NAMED IN	-

Pembroke Industrial Park Passero Associates

Synchro 11 Report Page 5

HCM 6th TWSC 3: NY-77 (Alleghany Road) & Proposed Northerly Access

2032 Phase 3 AM 10/27/2022

Intersection		S. Ukasian	1000	70000	SECTION 1	A CONTRACTOR	District to
Int Delay, s/veh	0.2	The same of the sa					1
Movement	EBL	EDD	ND	NOT	007	one	
ACCUSED TO THE PARTY OF THE PAR		EBR	NBL	NBT	SBT	SBR	
Lane Configurations Traffic Vol., veh/h	7	7	7	120	41	- 00	-
Future Vol. veh/h	5		6	435	423	20	
Conflicting Peds, #/hr	5	2	6	435	423	20	
THE RESIDENCE OF THE PARTY OF T		The second second		and the same of th	THE RESERVE	0	
RT Channelized	Stop	Stop	Free	Free	Free	Free	No. of Lot
Storage Length	0	None 0	210	None		None	
Veh in Median Storage,			210		0	-	THE RESERVE
Grade, %	0	-		0	0		A - (5-1)
Peak Hour Factor	96	96	96	96	96	96	1000000
Heavy Vehicles, %	20	96	96	12	15	15	
Mvmt Flow	5		6	453	441	15	FILE STATE OF
WINITE TOW	9		0	433	441	21	
	inor2	Sale of	Major1	0.00	Major2	1	A CONTRACT
Conflicting Flow All	917	231	462	0		0	
Stage 1	452		2	-			-
Stage 2	465	-		-	-	-	
Critical Hdwy	6.9	6.9	4.1		BAR.	1	E THE
Critical Hdwy Stg 1	6.1	-		-	-	-	
Critical Hdwy Stg 2	5.7	-	-	4		SE	
Follow-up Hdwy	3.69	3.3	2.2	-	-	-	
Pot Cap-1 Maneuver	260	777	1110	-	STATE OF	Carlo and	
Stage 1	567	-		-	-	-	
Stage 2	587		303	900	100	CI DE	127
Platoon blocked, %				-			
Mov Cap-1 Maneuver	259	777	1110			MANUAL PROPERTY.	77 1 10
Mov Cap-2 Maneuver	259	-					
Stage 1	564	10.70	1352		1313	100	-
Stage 2	587	-					
		TASE:	1000	123			ALC: N
Approach	EB	-	NB	-	SB	Section 1	
HCM Control Delay, s	16.5	The same of	0.1		0	Marie Comp	al Cartina
HCM Control Delay, S	10.5 C	-	0.1		U		
HOM LUS	C	STATE OF	ERASEI		and a little		Service Co.
		Physics Co.	100		11500		
Minor Lane/Major Mvmt	J. 1995	NBL	NBT	EBLn1	EBLn2	SBT	SBR
Capacity (veh/h)		1110		259	777		
HCM Lane V/C Ratio		0.006		0.02	0.003		
HCM Control Delay (s)		8.3		19.2	9.6		
HCM Lane LOS		A		C	Α		-
HCM 95th %tile Q(veh)		0		0.1	0		

Pembroke Industrial Park Passero Associates

2032 Phase 3 AM

4: NY-77 (Alleghany Road) & Proposed Southerly Access/Vision Parkway

10/27/2022

	1	$\rightarrow$	1	1	-	-	1	1	-	1	+	1
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBF
Lane Configurations	Y	4			4			4			414	
Traffic Volume (vph)	26	0	6	1	0	8	28	410	9	9	312	108
Future Volume (vph)	26	0	6	1	0	8	28	410	9	9	312	108
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.95	0.95	0.95
Frt	1	0.850	THE REAL PROPERTY.	-	0.878			0.997	The Contract of	E PIE	0.962	
Flt Protected	0.950	-			0.995		-	0.997		Manager Co.	0.999	
Satd. Flow (prot)	1805	1615	0	0	1660	0	0	1660	0	0	2954	(
Flt Permitted	0.950				0.995		AND DESCRIPTIONS	0.997			0.999	
Satd. Flow (perm)	1805	1615	0	0	1660	0	0	1660	0	0	2954	1
Link Speed (mph)		30			30			45			45	ALCOHOLD S
Link Distance (ft)		883	100		873	10-17-14	E TOTAL	403	III - MARIN	ALC: NO	478	
Travel Time (s)		20.1			19.8			6.1	-		7.2	
Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
Heavy Vehicles (%)	0%	0%	0%	0%	0%	0%	0%	15%	0%	0%	24%	0%
Adj. Flow (vph)	28	0	6	1	0	9	30	436	10	10	332	115
Shared Lane Traffic (%)					DATE OF THE PARTY		-					Colon Property
Lane Group Flow (vph)	28	6	0	0	10	0	0	476	0	0	457	(
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Righ
Median Width(ft)		12			12			0			0	
Link Offset(ft)	PHILIP TO SERVICE STATE OF THE PARTY OF THE	0		234	0	ar de	BEATIS	0			0	NAME OF
Crosswalk Width(ft)		16			16			16			16	CONTRACTOR OF THE PARTY OF THE
Two way Left Turn Lane	THE ST	100	- Committee	-	and a	WALE R	N. Carlo		15-06-5	TALE IN	V-1515	
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	15	the state of	9	15	T-804	9	15	C1 25 5	9	15	APPENDE	9
Sign Control		Stop			Stop			Free			Free	A COLUMN TO A COLU
Market and the second s	_	-										

Intersection Summi	ary		
Area Type:	Other		
Control Type: Unsig	gnalized		
Intersection Capaci	ty Utilization 54.1%	ICU Level of Service A	
Analysis Period (mi	in) 15	CONTRACTOR OF THE PROPERTY OF THE PARTY OF T	Marie Walter Street

HCM 6th TWSC 4: NY-77 (Alleghany Road) & Proposed Southerly Access/Vision Parkway

2032 Phase 3 AM 10/27/2022

Intersection	75	4000	100	1 2	0.	100	1	13.5		Name of	200		
Int Delay, s/veh	1.2												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	٦	1,			4			4			474		
Traffic Vol, veh/h	26	0	6	1	0	8	28	410	9	9	312	108	
Future Vol, veh/h	26	0	6	1	0	8	28	410	9	9	312	108	
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0	
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free	
RT Channelized		STATE OF THE PARTY.	None		N. S.	None	1000		None	Shekal		None	Contract Contract
Storage Length	0		-			-	-		-	-		-	
Veh in Median Storage,	# -	0	THE REAL PROPERTY.	SER OUT	0	STORY OF		0		-	0	Carlo Land	A CHARLES SHOW
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-	
Peak Hour Factor	94	94	94	94	94	94	94	94	94	94	94	94	
Heavy Vehicles, %	0	0	0	0	0	0	0	15	0	0	24	0	

9 30 436 10 10 332 115

Major/Minor	Minor2		1	finor1			Major1			Najor2			1984	
Conflicting Flow All	916	916	224	687	968	441	447	0	0	446	0	0		
Stage 1	410	410	ALL THE	501	501	1		1		-	100-00		1000	1
Stage 2	506	506	-	186	467		-	-			-	-	SERVICE SERVIC	
Critical Hdwy	7.3	6.5	6.9	7.3	6.5	6.2	4.1	No.	52	4.1	No.	TOWN THE	PHO I	W. Carlot
Critical Hdwy Stg 1	6.5	5.5	-	6.1	5.5		-	-	-		-	-		
Critical Hdwy Stg 2	6.1	5.5	-	6.5	5.5	-	Sell-	PF-10	-	ALC: U	W-28	THE REAL PROPERTY.	100	10.13
Follow-up Hdwy	3.5	4	3.3	3.5	4	3.3	2.2	-	-	2.2	-	-	-	CWINE C
Pot Cap-1 Maneuver	242	274	786	350	256	621	1124	State of the last	100	1125		TO STORY	8 8	CO. P.
Stage 1	595	599	-	556	546		-	-	-		-			
Stage 2	552	543		804	565		5.00	975	1000	5/45	STANSACTION OF THE PARTY OF THE	THE STATE OF	-	EXECUTE:
Platoon blocked, %					-		MANUFACTURES.	-	-			-		No. of Concession,
Mov Cap-1 Maneuver	230	261	786	335	244	621	1124	-	-	1125	STORY OF THE		-	4115.V44
Mov Cap-2 Maneuver	230	261	-	335	244			-	-		-	-		a property and
Stage 1	574	592	HE CAN	536	526		1	- T	CE -		-	MAN STATE	-	
Stage 2	525	523		788	558	-	-	-	-	-	-			land the con-
BARCH SELECT				24		1	87-W		113					
With the Park of t	and the Co	-	_	-	_		_	_	_	_				

HCM LOS	С		В						
						al alas	448		
Minor Lane/Major Mvmt	NBL	NBT	NBR EBLn	EBLn2	WBLn1	SBL	SBT	SBR	
Capacity (veh/h)	1124		- 230	786	567	1125	2012	1000	
HCM Lane V/C Ratio	0.027	-	- 0.12	0.008	0.017	0.009			
HCM Control Delay (s)	8.3	0	- 22.8	9.6	11.5	8.2	0	BET-DI	
HCM Lane LOS	A	A	- (	; A	В	A	A	-	

HCM 95th %tile Q(veh)

2032 Phase 3 AM 10/27/2022

5: NY-77 (Alleghany Road) & NY-5 (Main Street)

	1	-	*	1	-	*	1	1	-	1	1	1
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	*	1+		7	1.		ሻ	1		7	1	
Traffic Volume (vph)	101	162	96	109	170	83	139	251	64	28	212	77
Future Volume (vph)	101	162	96	109	170	83	139	251	64	28	212	77
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (ft)	100		0	300		0	260		0	325		0
Storage Lanes	1	Visit H	0	1	THE THE	0	1	TO BE	0		Lanes-	0
Taper Length (ft)	100			115		-	100			100	and the same of th	
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Frt		0.944			0.951			0.970	- 1100		0.960	1.00
Flt Protected	0.950	T 60/45	1-15 EX	0.950	THE REAL PROPERTY.	SHALL SHALL	0.950			0.950	Record	The state of
Satd. Flow (prot)	1530	1700	0	1612	1628	0	1770	1799	0	1492	1495	0
Flt Permitted	0.511	THE PERSON	PORTS IS	0.502	SWEET LAND	THE PARTY	0.495	SALES OF THE PARTY	NAME OF TAXABLE PARTY.	0.458	ALC: NO.	State of the last
Satd, Flow (perm)	823	1700	0	852	1628	0	922	1799	0	719	1495	0
Right Turn on Red	Service Co.	APPENDIC	Yes	ESSENSIVE STREET	Name and Address of the Owner, where	Yes	WALLS S.		Yes	100000000	2500	Yes
Satd. Flow (RTOR)		41			34	100		22	100	A. L. STATE	31	100
Link Speed (mph)		45		170.70	45	in the same		45	F157051		45	155775
Link Distance (ft)	- County -	776			1602			801	- Contract	-	698	
Travel Time (s)	FAIR OF	11.8	A STATE OF	AND DESCRIPTION OF THE PERSON NAMED IN	24.3	WEST STATE	STORY COM	12.1	A Species	200.00	10.6	TO SHOW
Peak Hour Factor	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76
Heavy Vehicles (%)	18%	7%	3%	12%	11%	11%	2%	0%	12%	21%	13%	47%
Adj. Flow (vph)	133	213	126	143	224	109	183	330	84	37	279	101
Shared Lane Traffic (%)	NEWS SALES	OLE CAME	E ALERS		Contraction of	103	100	330	04	31	213	101
Lane Group Flow (vph)	133	339	0	143	333	0	183	414	0	37	380	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)	Len	12	ragin	Len	12	ragne	Leit	12	right	Leit	12	Right
Link Offset(ft)		0	and the same		0			0			0	
Crosswalk Width(ft)	The same of	16	-	SWEWS	16	000000		16	-	original and	16	MATERIAL PROPERTY.
Two way Left Turn Lane	and a selection of	Yes			10			10	1000	Sales St. S	10	
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	15	1.00	9	15	1.00	9	15	1.00	9	1.00	1.00	9
Turn Type	Perm	NA	STATE OF STREET	Perm	NA	9	Perm	NA	9	Perm	NA	9
Protected Phases	reim	1		remi	NA 1		Perm	3	Am.	Perm		Contraction of the last
Permitted Phases	ON TO A SECURITY OF		CANADA PARTIES	Birms at	San Andread Street	THE PERSON	2	3	CONTRACTOR OF THE PARTY OF THE	-	3	NACOSION D
Detector Phase	1	1		1	1		3	3		3	3	
Switch Phase	Service States	The State of		DESCRIPTION D	MARCO CANA		NAME OF TAXABLE PARTY.	3	Ser. Ches. C	3	NAME OF TAXABLE PARTY.	RODINE NE
Minimum Initial (s)	10.0	10.0	1000	10.0	10.0		10.0	10.0		10.0	10.0	
Minimum Solit (s)	24.5	24.5	BASHASINI	24.5	24.5		24.5	24.5	Sales Sales Sales	24.5	24.5	MANAGE DATE
Total Split (s)	35.0	35.0	-	35.0	35.0		45.0	45.0	1000	45.0	45.0	
Total Split (%)	43.8%	43.8%		43.8%	43.8%	EDICE OF THE	56.3%	56.3%	SUPERIOR SUCH	56.3%	56.3%	BER STATE OF
Maximum Green (s)	28.5	28.5		28.5	28.5		38.5	38.5		38.5	38.5	
Yellow Time (s)	5.0	5.0	April Control	5.0	5.0		5.0	5.0	0000000	5.0	5.0	university of
All-Red Time (s)	1.5	1.5		1.5	1.5	14 18	1.5	1.5	1000	1.5	1.5	
Lost Time Adjust (s)	0.0	0.0	alle di voca	0.0	0.0	-	0.0	0.0	CHARLES CO.	0.0	0.0	NAME OF TAXABLE PARTY.
Total Lost Time (s)	6.5	6.5	100	6.5	6.5	Calle Till	6.5	6.5	25	6.5	6.5	
Lead/Lag	0.5	0.0	A STREET	0.5	0.5	No. of the last	0.5	0.5	Valencia de	0.5	0.5	THE REAL PROPERTY.
Lead-Lag Optimize?		A STATE OF THE PARTY OF THE PAR	and the same	Mary Mary			Sel Section		1		24-2	
Vehicle Extension (s)	3.0	3.0	THE PERSON NAMED IN	3.0	3.0	nandett.	4.0	40	and the	4.0	4.0	NISV-
Recall Mode	None	None		None	None			4.0 None				
Recall Mode	None	None		None	None		None	None		None	None	

Pembroke Industrial Park Passero Associates

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Lanes, Volumes, Timings 5: NY-77 (Alleghany Road) & NY-5 (Main Street)

2032 Phase 3 AM 10/27/2022

	-	-	*	1	-	-	1	1	-	1	+	4
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Act Effct Green (s)	17.7	17.7	DA DE	17.7	17.7		22.5	22.5	Supplement	22.5	22.5	E SOUTH
Actuated g/C Ratio	0.32	0.32		0.32	0.32		0.41	0.41		0.41	0.41	
v/c Ratio	0.50	0.58	1	0.52	0.60	EMARKE.	0.48	0.55		0.12	0.60	PROUS .
Control Delay	24.5	19.3		24.8	20.4		17.3	14.8		11.9	16.2	THE OWNER OF THE OWNER OWNER OF THE OWNER OWNE
Queue Delay	0.0	0.0	BARRET	0.0	0.0	11 Table 11	0.0	0.0	10 F1 F1 F1	0.0	0.0	REFER
Total Delay	24.5	19.3		24.8	20.4		17.3	14.8		11.9	16.2	- Contract
LOS	C	В	300	C	C		В	В	Server	В	В	750
Approach Delay	The same of the sa	20.7			21.7			15.6			15.8	No.
Approach LOS		C	N. Carlot	THE PERSON	C	THE REAL PROPERTY.	- Interest	В		USUS B	В	Name of
Queue Length 50th (ft)	32	72		34	73	NAME OF TAXABLE PARTY.	38	83		6	75	- In-
Queue Length 95th (ft)	82	153		88	155	AFERS S	86	155	of the later	22	147	Taxas .
Internal Link Dist (ft)		696			1522	A DOWNSON	and the last of	721	the designation of the		618	No.
Turn Bay Length (ft)	100	-		300	Carried No.		260	CONTRACTOR OF THE PARTY OF THE		325	ADD TO SEE	18 ST
Base Capacity (vph)	471	991		488	947	Name and Address of the Owner, where	691	1354	THE RES	539	1128	ALC: NO.
Starvation Cap Reductn	0	0	2.290	0	0	4	0	0		0	0	100
Spillback Cap Reductn	0	0		0	0	Name and Address of the Owner, where the Owner, which the	0	0		0	0	Design of the last
Storage Cap Reductn	0	0	THE STATE OF	0	0	-	0	0	I Deller L	0	0	SALE.
Reduced v/c Ratio	0.28	0.34		0.29	0.35		0.26	0.31		0.07	0.34	Manager 1

Area Type: Cycle Length: 80 Actuated Cycle Length: 54.5

Natural Cycle: 50
Control Type: Actuated-Uncoordinated
Maximum v/c Ratio: 0.60

Intersection Signal Delay: 18.3 Intersection LOS: B Intersection Capacity Utilization 69.8% ICU Level of Service C

Analysis Period (min) 15

Splits and Phases: 5: NY-77 (Alleghany Road) & NY-5 (Main Street)

\$ p1

Pembroke Industrial Park Passero Associates

2032 Phase 3 AM

6: Brickhouse Road/Proposed Access & NY-5 (Main Street)

10/27/2022

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	1	-	1	1	-	4	1	1	-	1	+	1
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	7	1.		*	1.		7	f»		7	1+	
Traffic Volume (vph)	64	310	9	16	267	129	1000	0	1	31	0	13
Future Volume (vph)	64	310	9	16	267	129	1	0	1	31	0	13
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (ft)	300		0	120		0	150		0	200		0
Storage Lanes	1		0	1	Mr. Lake	0	1	OF LEVEL	0	5511		0
Taper Length (ft)	125			75			100			25		
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Frt		0.996			0.951			0.850			0.850	
Flt Protected	0.950			0.950		-	0.950	- 40	THE R	0.950	DAY OF	F170.4
Satd. Flow (prot)	1736	1772	0	1597	1573	0	902	808	0	1433	1615	0
Flt Permitted	0.950		THE	0.950			0.950		Chieston	0.950	RE-ONLY	Acres 6
Satd. Flow (perm)	1736	1772	0	1597	1573	0	902	808	0	1433	1615	0
Link Speed (mph)	Part Service	45	CHESTS.	CHAINS	45			30	TO STATE		30	
Link Distance (ft)		831			776			817			652	
Travel Time (s)		12.6	21.79	ST. DOTATE	11.8	THE SA	No.	18.6	N. W.	A PLANT	14.8	1375
Peak Hour Factor	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87
Heavy Vehicles (%)	4%	7%	0%	13%	9%	27%	100%	0%	100%	26%	0%	0%
Adj. Flow (vph)	74	356	10	18	307	148	1	0	1	36	0	15
Shared Lane Traffic (%)		4045			126	ATT STATE			- 1 To	THE REAL PROPERTY.	TO VOTE	
Lane Group Flow (vph)	74	366	0	18	455	0	1	1	0	36	15	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)	2127 S.	12	APPENS.		12	THE REAL PROPERTY.	15 kg	12	BATTER.		12	SELECTION OF THE PERSON OF THE
Link Offset(ft)		0		-	0			0			0	
Crosswalk Width(ft)		16	No.	The said	16	STATE OF	TEN ST	16		1	16	and the same
Two way Left Turn Lane					Yes							
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	15		9	15		9	15		9	15		9
Sign Control		Free		y and in	Free	2000	HOUSE.	Stop			Stop	
Intersection Summary	R (2)	5,985	Marie .	8 10 10		1					NAME OF	

Area Type: Other
Control Type: Unsignalized
Intersection Capacity Utilization 43.8%
Analysis Period (min) 15

HCM 6th TWSC

2032 Phase 3 AM 10/27/2022

6: Brickhouse Road/Proposed Access & NY-5 (Main Street)

itersection												NOT THE OWNER OF THE OWNER O	AND DESCRIPTION OF THE PARTY OF
nt Delay, s/veh	1.9	45	in Chillie	200	10.00		alesti .						
lovement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	ACT HIS TOP
ane Configurations	*	1.		7	1		7	1.		٦	1		
raffic Vol. veh/h	64	310	9	16	267	129	10000	0	1	31	0	13	
uture Vol. veh/h	64	310	9	16	267	129	1	0	1	31	0	13	the sales are
onflicting Peds, #/hr	0	0	0	0	D	0	0	0	0	0	0	0	S. C. Park
ign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop	
T Channelized		100	None		1100	None	Silop	Otop	None	Otop	Otop	None	
torage Length	300	-		120		-	150		-	200	PER PROPERTY	-	
eh in Median Storage		0	Service &	diament.	0	-	Series .	0		200	0	PICKS!	SATISFIES TO SE
Grade. %		0			0			0	-	Den's	0		
eak Hour Factor	87	87	87	87	87	87	87	87	87	87	87	87	CHARLES THE REAL PROPERTY.
leavy Vehicles, %	4	7	0	13	9	27	100	0	100	26	0	0	40.000
1vmt Flow	74	356	10	18	307	148	100	0	1	36	0	15	
· · · · · · · · · · · · · · · · · · ·	Control Street	000	10	10	001	140				00		15	BOS CAROLINA D
fajor/Minor	Major1			Major2	51/54		Minor1			Minor2	5701	9.55.00	500000
onflicting Flow All	455	0	0	366	0	0	934	1000	361	927	931	381	
Stage 1		1000	A SHOW		PILE		509	509	20000	417	417	001	
Stage 2	-	-	-		-		425	491	-	510	514	-	NAME OF TAXABLE PARTY.
Critical Hdwy	4.14	THE STATE		4.23	ST.	the state	8.1	6.5	7.2	7.36	6.5	6.2	A STATE OF THE STATE OF
critical Hdwy Stg 1	-	-	-	-		-	7.1	5.5	-	6.36	5.5		
critical Hdwy Stg 2	SELL S	-		1000		A TOTAL	7.1	5.5	SHOW	6.36	5.5		and the same
ollow-up Hdwy	2.236		-	2.317		-	4.4	4	4.2	3.734	4	3.3	
ot Cap-1 Maneuver	1095	1000		1134	1079.5		168	245	510	226	269	671	
Stage 1	-	-	-	-		-	403	541	-	568	595		No. of Concession, Name of Street, or other Designation, Name of Street, or other Designation, Name of Street,
Stage 2			SE END		Syl.	1500	454	552		504	539	-	ACTION AND A
latoon blocked, %		-	-			-		The state of the s	ndi ta man				
Nov Cap-1 Maneuver	1095	THE STATE OF	-	1134	507.5	A BOOK	154	225	510	211	247	671	THE REAL PROPERTY.
Nov Cap-2 Maneuver							154	225	-	211	247	-	
Stage 1		1000		Nauk P	777	AND THE	376	504	ESTATE OF	529	585		Selver (SA)
Stage 2		-					437	543	-	469	502	-	
	Total !		MEET!	S-P/S			JUNE 1			READ	1000		MATERIAL TO
pproach	EB		80.00	WB	19.38	3340	NB			SB			
ICM Control Delay, s	1.4			0.3		15-5	20.4	WE 18	No. of London	21.1	Sale a		ALIEN S
ICM LOS				-			С			С			
		3.64								2			West States
Minor Lane/Major Myn	H.	NBLn1	NBLn2	1095	EBT	EBR	WBL 1134	WBT	WBR	SBLn1	SBLn2	SHERVI	
Capacity (veh/h) HCM Lane V/C Ratio	9000	0.007	0.002	0.067	-	No.			V 10-2				
					-	-	0.016	-	-	0.169	0.022	Will have	
ICM Control Delay (s)	1	28.6	12.1	8.5	200		8.2			25.5	10.5	Service Service	
ICM Lane LOS ICM 95th %tile Q(veh	vista in contract	D 0	B 0	0.2	-		A 0	-		D	В		
					THE RESERVE OF THE PARTY OF THE	The second second			STATE OF THE PARTY NAMED IN	0.6	0.1		

1: NY-77 (Alleghany Road) & NYS Thruway (Exit 48A)

2032 Phase 3 PM 10/27/2022

	1	1	1	†	+	1	
Lane Group	EBL	EBR	NBL	NBT	SBT	SBR	ST CHAPTER S
Lane Configurations	ሻ	7	*	<b>†</b>	41		
Traffic Volume (vph)	222	393	390	217	199	191	ACTURE DE LA COMPANION DE LA C
Future Volume (vph)	222	393	390	217	199	191	
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	THE PERSON NAMED IN
Storage Length (ft)	0	0	250	1300	1300	0	
Storage Lanes	1	THE PARTY OF	1		NAME OF TAXABLE PARTY.	0	APPRICATE MALE
Taper Length (ft)	25	-10-530	150			V	THE RESERVE
Lane Util, Factor	1.00	1.00	1.00	1.00	0.95	0.95	Series Series
Frt	1.00	0.850	1.00	1.00	0.927	0.30	
FIt Protected	0.950	S.000	0.950	interest of	0.021	Carlo de	1,34,111,111,12
Satd. Flow (prot)	1570	1282	1410	1810	2990	0	
Flt Permitted	0.950	THE REAL PROPERTY.	0.519	1010	2330		e de la companya de l
Satd. Flow (perm)	1570	1282	770	1810	2990	0	
Right Turn on Red	1010	Yes	110	1010	2000	Yes	encloses.
Satd. Flow (RTOR)		397	MAN AND AND ADDRESS OF THE PARTY OF THE PART		193	165	
Link Speed (mph)	30	331	THE RESERVE	45	45	Bred Links	
Link Distance (ft)	854			973	786		
Travel Time (s)	19.4		State and	14.7	11.9	N/Herosenson	Security Sec
Peak Hour Factor	0.99	0.99	0.99	0.99	0.99	0.99	ERS. ME
Heavy Vehicles (%)	15%	26%	28%	5%	8%	16%	-
Adj. Flow (vph)	224	397	394	219	201	193	
Shared Lane Traffic (%)	224	351	354	219	201	193	Herbara and
Lane Group Flow (vph)	224	397	394	219	394	0	
Enter Blocked Intersection	No.	No	No No	No	No No	No	
Lane Alignment	Left	Right	Left	Left	Left		
Median Width(ft)	12	rigill	Leit	12	12	Right	
Link Offset(ft)	0	4.1		0	0		Change Se
Crosswalk Width(ft)	16		The same of the sa	16	16		OCE PROPERTY.
PRODUCE OF THE PROPERTY OF THE	10			10	10	The state of the s	
Two way Left Turn Lane Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	Harris and the
	1.00	1.00		1.00	1.00		
Turning Speed (mph)	Prot.		15	NIA	NI	9	
Turn Type	ACT TO SECURE	pm+ov	pm+pt	NA	NA		
Protected Phases	4	5	5	2	6	Cor Iva - La	
Permitted Phases Detector Phase	4	5	2	STATE OF	6		
	4	5	5	2	b	Water Service	TO SAND STATE OF
Switch Phase	6.0	6.0	6.0		0.0		
Minimum Initial (s)	6.0	6.0	6.0	6.0	6.0	THE REAL PROPERTY.	
Minimum Split (s)	22.5	12.0	12.0	22.5	22.5		SACTOR OF
Total Split (s)	30.0	25.0	25.0	55.0	30.0	-	No. of the last of
Total Split (%)	35.3%	29.4%	29.4%	64.7%	35.3%	Control of	7. T. C. C. C.
Maximum Green (s)	24.0	19.0	19.0	49.0	24.0		
Yellow Time (s)	4.0	4.0	4.0	4.0	4.0	17-12	
All-Red Time (s)	2.0	2.0	2.0	2.0	2.0	THE PARTY NAMED IN	
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	100	
Total Lost Time (s)	6.0	6.0	6.0	6.0	6.0		
Lead/Lag		Lag	Lag		Lead		
Lead-Lag Optimize?		Yes	Yes		Yes		
Vehicle Extension (s)	2.0	1.0	1.0	1.0	2.0		
Recall Mode	None	None	None	None	None		

Pembroke Industrial Park
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Lanes, Volumes, Timings

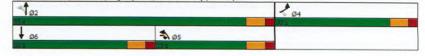
2032 Phase 3 PM 10/27/2022

1: NY-77 (Alleghany Road) & NYS Thruway (Exit 48A)

	1	1	1	1	Ţ	4
Lane Group	EBL	EBR	NBL	NBT	SBT	SBR
Act Effct Green (s)	11.9	33.0	30.0	30.0	8.9	
Actuated g/C Ratio	0.22	0.61	0.55	0.55	0.16	
v/c Ratio	0.65	0.43	0.66	0.22	0.61	
Control Delay	30.1	2.2	18.0	7.5	16.2	
Queue Delay	0.0	0.0	0.0	0.0	0.0	
Total Delay	30.1	2.2	18.0	7.5	16.2	
LOS	C	A	В	A	В	
Approach Delay	12.2			14.3	16.2	
Approach LOS	В		A STATE OF	В	В	a find production of the particle of the
Queue Length 50th (ft)	65	0	67	30	30	
Queue Length 95th (ft)	146	27	169	79	79	
Internal Link Dist (ft)	774		-	893	706	
Turn Bay Length (ft)		147519	250		SUSPECTORS.	
Base Capacity (vph)	720	926	726	1593	1477	
Starvation Cap Reductn	0	0	0	0	0	PARTY CONTRACTOR OF THE PARTY O
Spillback Cap Reductn	0	0	0	0	0	
Storage Cap Reductn	0	0	0	0	0	STATE OF THE STATE
Reduced v/c Ratio	0.31	0.43	0.54	0.14	0.27	
Intersection Summany	-	*				

Area Type: Other
Cycle Length: 85
Actuated Cycle Length: 54.4
Natural Cycle: 60
Control Type: Actuated-Uncoordinated
Maximum vic Ratio: 0.66
Intersection Signal Delay: 14.0
Intersection Capacity Utilization 60.5%
ICU Level of Service B

Splits and Phases: 1: NY-77 (Alleghany Road) & NYS Thruway (Exit 48A)



Pembroke Industrial Park Passero Associates

Analysis Period (min) 15

2032 Phase 3 PM 10/27/2022

Lanes, Volumes, Timings 2: NY-77 (Alleghany Road) & Flying J Truck Access

	1	*	1	1	+	1	
Lane Group	EBL	EBR	NBL	NBT	SBT	SBR	
Lane Configurations	7	7	*	<b></b>	<b>†</b> ‡		
Traffic Volume (vph)	45	9	6	501	529	46	
Future Volume (vph)	45	9	6	501	529	46	
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	THE RESERVE OF THE PARTY OF THE
Storage Length (ft)	0	0	175			0	
Storage Lanes	15	1		ATTEN S	HA CH	0	
Taper Length (ft)	25		25				
Lane Util. Factor	1.00	1.00	1.00	1.00	0.95	0.95	
Ped Bike Factor							
Frt	1553	0.850		CESTS.	0.988	W. C. L.	
Flt Protected	0.950		0.950				
Satd. Flow (prot)	926	808	1081	1712	3084	0	
Flt Permitted	0.950		0.950				
Satd. Flow (perm)	926	808	1081	1712	3084	0	The second secon
Link Speed (mph)	10			45	45		
Link Distance (ft)	888	10000	THE THE	295	973	17.18933	English the state of the state of the state of
Travel Time (s)	60.5			4.5	14.7		
Confl. Peds. (#/hr)	3	Electric S	10 10 10			B - 1 - 1 - 1 - 1	
Peak Hour Factor	0.93	0.93	0.93	0.93	0.93	0.93	
Heavy Vehicles (%)	95%	100%	67%	11%	9%	93%	
Adj. Flow (vph)	48	10	6	539	569	49	
Shared Lane Traffic (%)		ALC: U	CAPACITY OF		V Table		A PROPERTY OF THE PARTY OF THE
Lane Group Flow (vph)	48	10	6	539	618	0	
Enter Blocked Intersection	No	No	No	No	No	No	
Lane Alignment	Left	Right	Left	Left	Left	Right	
Median Width(ft)	12			12	12		
Link Offset(ft)	0			0	0		
Crosswalk Width(ft)	16	-	THE REAL PROPERTY.	16	16	A. T. M.	
Two way Left Turn Lane							
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	
Turning Speed (mph)	15	9	15			9	
Sign Control	Stop			Free	Free	1577	
Intersection Summary			Distance.	Die 1	e-mark		

Area Type: Other
Control Type: Unsignalized
Intersection Capacity Utilization 36.4%
Analysis Period (min) 15

ICU Level of Service A

Pembroke Industrial Park Passero Associates

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HCM 6th TWSC 2: NY-77 (Alleghany Road) & Flying J Truck Access 2032 Phase 3 PM 10/27/2022

nt Delay, s/veh	2.4									
Novement	EBL	EBR	NBL	NBT	SBT	SBR	501.00		District to	
Special Section 100	. CACHESINA					SDR			Sec. 3	ALCOHOL: NA
ane Configurations	7	1	7	1	41	-				
Fraffic Vol, veh/h	45	9	6	501	529	46			9	LE LANGE
Future Vol, veh/h	45	9	6	501	529	46				
Conflicting Peds, #/hr		0	0	0	0	0	-			
Sign Control	Stop	Stop	Free	Free	Free	Free				
RT Channelized	IV-SI'-	None		None		None				
Storage Length	0	0	175	-	-	-				
Veh in Median Storage	,# 0		-	0	0			-		
Grade, %	0	-	-	0	0	-				
Peak Hour Factor	93	93	93	93	93	93	The Late	100		
Heavy Vehicles, %	95	100	67	11	9	93	-	-		
Mvmt Flow	48	10	6	539	569	49	not and			
			-	ALTER STATE				Name and Address of the Owner, where the Owner, which is the Ow		
	Minor2	1	Wajor1	- 1	Major2					
Conflicting Flow All	1148	309	618	0		0				
Stage 1	594									
Stage 2	554			-	-					
Critical Hdwy	8.025	8.4	5.105	200	-		-	THE STREET	THE PARTY NAMED IN	
Critical Hdwy Stg 1	7.225	-	-	-	-			ALC: NO.		
Critical Hdwy Stg 2	6.825	SERVE	in the	4		Service of the last		-	PER STATE	8
	4.4025	4,252	2.8365	-		-		of the same	and the later live	4
Pot Cap-1 Maneuver	118	492	667	-	100	AND THE	S COLUMN	-	The Parket	
Stage 1	349			-		-	-	m-little (	-	
Stage 2	394		- TAIPE		201-12		12.40	100	S. Warniel	B
Platoon blocked, %	1	ALCOHOLD STREET	CHEST ST	-	-				ATTO DESCRIPTION OF THE PARTY O	-
Mov Cap-1 Maneuver	117	492	667	******	1000	MERCHANICAL PROPERTY.	STATE OF THE PARTY	ed-North-Co	Constitution	
Mov Cap-1 Maneuver	117	452	001	W. Carella		-	2700			
Stage 1	346	NEW D	staves.	WERE AN	SUSSESSES.	Marine.	STATE OF THE PARTY.	No.	Shipper.	9
Stage 2	394	SECTION	Series.				L TEL			6
Stage 2	394		NAME OF TAXABLE PARTY.	ALL PARTY		-		-	-	w c
		to in it								e i
Approach	EB	- 65.45	NB	18 12	SB	Section 1	-	200		
HCM Control Delay, s	48.7	7	0.1	AL THE	0	y 13,35	September 1	-	NAME OF TAXABLE	
HCM LOS	E	William Pales	and the Real Property lies		-		Section Section		-	8
Marine Services	NAME OF	N. Washing	TENES!	429163		SECTION AND ADDRESS OF THE PERSON NAMED IN COLUMN ASSESSMENT OF THE PERSON NAM	10000	NIST I	DE SE	
	and other lands	ates and	No. of Lot,			NAME OF STREET		NAME OF TAXABLE PARTY.	and a state of	
Minor Lane/Major Mvn	nt	NBL	_	EBLn1		SBT	SBR			
Capacity (veh/h)		667			492					
HCM Lane V/C Ratio		0.01	-	0.414	0.02	-	-			
HCM Control Delay (s		10.4	1	55.9	12.5		9 Ft 1-19		SHOP	
HCM Lane LOS		В	-	F	В	-	-			
HCM 95th %tile Q(veh	)	0	20-52	1.8	0.1	Service	CHIEF THE		7734	ţ

Pembroke Industrial Park Passero Associates

2032 Phase 3 PM 10/27/2022

3: NY-77 (Alleghany Road) & Proposed Northerly Access

	1	1	1	1	1	4	
Lane Group	EBL	EBR	NBL	NBT	SBT	SBR	
Lane Configurations	*	7	*	4	41		
Traffic Volume (vph)	16	4	3	490	529	10	THE RESERVE OF THE PARTY OF THE
Future Volume (vph)	16	4	3	490	529	10	
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	
Storage Length (ft)	0	0	210			0	
Storage Lanes	353	1	20 at 1	THE P		0	
Taper Length (ft)	25		125				
Lane Util. Factor	1.00	1.00	1.00	1.00	0.95	0.95	
Frt		0.850			0.997		Sand Color Sales Color
Flt Protected	0.950	The same	0.950	W/50	STATE OF THE	Section Section	Charles and the second
Satd. Flow (prot)	1597	1615	1805	1712	3296	0	
Flt Permitted	0.950	1	0.950	TO CHES	The Real	THE REAL PROPERTY.	
Satd. Flow (perm)	1597	1615	1805	1712	3296	0	
Link Speed (mph)	30	n The street	2.482	30	30	and the second	
Link Distance (ft)	710			369	295		
Travel Time (s)	16.1	NO 11 11	PER NE	8.4	6.7	S. 100 S. 10	STREET STREET,
Peak Hour Factor	0.93	0.93	0.93	0.93	0.93	0.93	
Heavy Vehicles (%)	13%	0%	0%	11%	9%	20%	
Adj. Flow (vph)	17	4	3	527	569	11	
Shared Lane Traffic (%)	255		NE P	-	. Present		ALC: ALC: ALC: ALC: ALC: ALC: ALC: ALC:
Lane Group Flow (vph)	17	4	3	527	580	0	
Enter Blocked Intersection	No	No	No	No	No	No	
Lane Alignment	Left	Right	Left	Left	Left	Right	
Median Width(ft)	12			12	12	TANK TANK	
Link Offset(ft)	0			0	0		
Crosswalk Width(ft)	16	1000		16	16	15 or side is	
Two way Left Turn Lane							
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	
Turning Speed (mph)	60	60	60			60	
Sign Control	Stop			Free	Free		
Intersection Summary		300		2080	100		
	Other						
Control Type: Unsignalized							
Intersection Capacity Utilizat	tion 35.8%			10	U Level	of Service A	NEW YORK STREET, STREE

Pembroke Industrial Park Passero Associates

HCM 6th TWSC 3: NY-77 (Alleghany Road) & Proposed Northerly Access

2032 Phase 3 PM 10/27/2022

Intersection			102	16.00			200		
nt Delay, s/veh	0.5								
Movement	EBL	EBR	NBL	NBT	SBT	SBR	AND ALL		195921
ane Configurations	٦	7	ሻ	<b></b>	47				
Traffic Vol, veh/h	16	4	3	490	529	10	ales se	Service .	
Future Vol, veh/h	16	4	3	490	529	10		and the second	
Conflicting Peds, #/hr	0	0	0	0	0	0	E. 151 515	S DELL'A	90
Sign Control	Stop	Stop	Free	Free	Free	Free			330
RT Channelized		None	4	None	700	None	10 Lane		TEX.
Storage Length	0	0	210		-	-		Tolking China	
Veh in Median Storage	,# 0		SA SA	0	0	\$50 W	Sale	THE REAL PROPERTY.	
Grade, %	0	-	-	0	0				NO COLUMN TO A STATE OF THE PARTY OF THE PAR
Peak Hour Factor	93	93	93	93	93	93	40000	Section 2	STEELS IN
Heavy Vehicles, %	13	0	0	11	9	20		THE REAL PROPERTY.	
Mvmt Flow	17	4	3	527	569	11		HELE	
Major/Minor N	Minor2		Wajor1	25725	Major2	10000	100 market		-
Conflicting Flow All	1108	290	580	0	Hajuiz	0			100
Stage 1	575	230	300	Market Market	100 E-100 E		SHU SHIP	No. of Contract of	NAME OF TAXABLE PARTY.
Stage 2	533		-			-	No. of the		
Critical Hdwy	6.795	6.9	4.1	No.	MACONE I		The World House	STATE OF THE PARTY OF	District of
	5.995	0.0	-						
	5.595	EN NA	Kroner	TOTAL ST			and the London	PARTIES NAME	LOOK PRODU
	3.6235	3.3	2.2				100000		
Pot Cap-1 Maneuver	204	713			Sichu.	BELLEVI		GAD MARKET IN	ALCOHOL: NAME OF THE PARTY OF
Stage 1	502	713	1004		THE PARTY			100	
Stage 2	561	esune.	MINERAL PROPERTY.	-	-	BECKE !	-Name and	and the same	and the same
Platoon blocked, %	301								
Mov Cap-1 Maneuver	203	713	1004			BANKS.	unchal about	The state of the s	Adding the No.
Mov Cap-1 Maneuver	203	113	1004						THE STATE
Stage 1	500	-	-	ni.	-				
Stage 2	561							200	
Staye 2	301	Older In		NO.	-	-		-	ar endurable and
		100	10000	200		1,753		and a	
Approach	EB		NB		SB	1000	42.00	100	
HCM Control Delay, s	21.5		0.1		0				
HCM LOS	C								
	100		55	1233	No.	1350	The same	190	
Minor Lane/Major Mvm		NBL	NBT	EBLn1	EBLn2	SBT	SBR		
Capacity (veh/h)	6633	1004	161	203	713			400	
HCM Lane V/C Ratio		0.003		0.085	0.006		-		
HCM Control Delay (s)		8.6	-	24.4	10.1		-	MINISH	PARTY IN
HCM Lane LOS		A		C	В	-	-		
HCM 95th %tile Q(veh)	WEST AND	0	1	0.3	0	TO THE		NAME OF TAXABLE PARTY.	A POINT

Pembroke Industrial Park Passero Associates

2032 Phase 3 PM 10/27/2022

Lanes, Volumes, Timings 4: NY-77 (Alleghany Road) & Proposed Southerly Access/Vision Parkway

	1	-	*	1	-	1	1	1	-	-	+	1
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	7	1			4			4			414	
Traffic Volume (vph)	104	0	26	2	0	9	8	373	1	3	497	28
Future Volume (vph)	104	0	26	2	0	9	8	373	1	3	497	28
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.95	0.95	0.98
Frt		0.850			0.887		No. of the	E STATE	Talk of		0.992	1
Flt Protected	0.950				0.992			0.999				
Satd. Flow (prot)	1805	1615	0	0	1672	0	0	1656	0	0	3273	(
Flt Permitted	0.950				0.992			0.999				NAME OF TAXABLE PARTY.
Satd. Flow (perm)	1805	1615	0	0	1672	0	0	1656	0	0	3273	(
Link Speed (mph)		30			30			45			45	THE REAL PROPERTY.
Link Distance (ft)	The second	883	Fig. 1		873	1005	Harry Me	403	N. 51 %		478	
Travel Time (s)		20.1		DAMES OF STREET	19.8			6.1			7.2	POD SAN OF SAN O
Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
Heavy Vehicles (%)	0%	0%	0%	0%	0%	0%	0%	15%	0%	0%	10%	0%
Adj. Flow (vph)	111	0	28	2	0	10	9	397	1	3	529	30
Shared Lane Traffic (%)												
Lane Group Flow (vph)	111	28	0	0	12	0	0	407	0	0	562	1
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Righ
Median Width(ft)		12			12			0			0	
Link Offset(ft)		0			0	-	THE REAL PROPERTY.	0	Name (No	Thursday.	0	STORY OF
Crosswalk Width(ft)		16			16			16			16	
Two way Left Turn Lane		WHAT I		12.5	The same	-	in the	21436	THE PARTY	7	17.	-
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	60		60	15	100	9	60		9	15		60
Sign Control		Stop			Stop			Free			Free	

Area Type:	Other	
Control Type: Unsig	gnalized	
Intersection Capaci	ity Utilization 45.2%	ICU L
Analysis Period (mi	in) 15	STATE OF THE STATE OF

ICU Level of Service A

Pembroke Industrial Park Passero Associates

Synchro 11 Report Page 7 HCM 6th TWSC

4: NY-77 (Alleghany Road) & Proposed Southerly Access/Vision Parkway

2032 Phase 3 PM 10/27/2022

Int Delay, s/veh	4.2													
Mounment	EBL	EBT	EDD	MDI	MOT	MIDD	KIDI	MOT	NIDD	CDI	COT	000		-
Movement	APPROXIMATION AND ADDRESS.	A STREET, STRE	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR		
Lane Configurations	ሻ	1			4			4			47			
Traffic Vol, veh/h	104	0	26	2	0	9	8	373	1	3	497	28		
Future Vol, veh/h	104	0	26	2	0	9	8	373	1	3	497	28		
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0		
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free		
RT Channelized	-	-	None			None	450		None	To the	1300	None		
Storage Length	0	-	-	-	-	-	-	-	-			-		
Veh in Median Storage,	# -	0	200		0			0		THE S	0	The sales	THE PERSON NAMED IN	
Grade, %	-	0	-	-	0		-	0	-		0			hyddo
Peak Hour Factor	94	94	94	94	94	94	94	94	94	94	94	94	A STATE OF THE PARTY OF THE PAR	183
Heavy Vehicles, %	0	0	0	0	0	0	0	15	0	0	10	0	The second secon	-
Mvmt Flow	111	0	28	2	0	10	9	397	-	3	529	30	TOWN THE PARTY OF	500
				The same of the sa										1000
Major/Minor M	inor2		-	Minor1			Major1			Najor2	SALES OF	-		500
Conflicting Flow All	971	966	280	687	981	398		0		No. of Concession,	0	0		
Stage 1	550	550	280	416	416	398	559	0	0	398	0	0		
			1500000	Name and Address of the Owner, where	A STATE OF THE PARTY.			SHI-						est <sup>©</sup>
Stage 2	421	416	-	271	565		-	-	-	-				_
Critical Hdwy	7.3	6.5	6.9	7.3	6.5	6.2	4.1		-	4.1		100		
Critical Hdwy Stg 1	6.5	5.5		6.1	5.5		-	-	-	-	-			
Critical Hdwy Stg 2	6.1	5.5		6.5	5.5						P. Carlo			
Follow-up Hdwy	3.5	4	3.3	3.5	4	3.3	2.2	-	-	2.2	-			
Pot Cap-1 Maneuver	222	257	723	350	251	656	1022			1172	All Park			
Stage 1	492	519	-	618	595		-	-	-	-	-	-		
Stage 2	614	595		717	511									
Platoon blocked, %								-	-		-	-		
Mov Cap-1 Maneuver	216	253	723	333	247	656	1022		-	1172	-		MARKET WATER	50
Mov Cap-2 Maneuver	216	253		333	247			-	-	-	-		The second of the second	
Stage 1	487	517	A TOTAL	611	588		100		100	Res .		A PAREN	Bullion Street, Street, St.	Ris
Stage 2	598	588		687	509	-	-		-			-		Total S
The state of the s	William Co.		Maria Dia			1		THE REAL PROPERTY.	SEC. S			1	CHARLES TOWN	152
Approach	EB		-100	WB	Total Control		NB	E CONTRACTOR OF THE PERSON NAMED IN	100000	SB				
HCM Control Delay, s	32.4		- 500	11.6		THE R	0.2		10000	0	12.55		CARL STATE OF SHIPLE	FIX
HCM LOS	D		THE R. P. LEWIS CO., LANSING	В		of an early	-	-	Service Service		and the later of			1000
			-		TV-ST	9			lest.	1	NO ALE		PARTY DESCRIPTION	
Minor Lane/Major Mymt	939	NBL	NBT	NBR	EBLn1	EBLn2\	WBLn1	SBL	SBT	SBR	-	5000		
Capacity (veh/h)		1022	10.50		216	723	558	1172			SIST	The same		188
HCM Lane V/C Ratio		0.008			0.512	0.038	0.021	0.003	-					Table 1
HCM Control Delay (s)		8.6	0		38	10.2	11.6	8.1	0		den en	280.03H2	SERVICE SERVICE	
HCM Lane LOS		A	A		E	В	В	A	A	-				
HCM 95th %tile Q(veh)	NAME OF TAXABLE PARTY.	0		SHIELDS IN	2.6	0.1	0.1	0	NAME OF TAXABLE PARTY.	DANIE DO	<b>SAIDER</b>	PI DI ON COLO	ALCO SERVICE CONTRACTOR	Na US

Pembroke Industrial Park Passero Associates

Lanes, Volumes, Timings 5: NY-77 (Alleghany Road) & NY-5 (Main Street)

2032 Phase 3 PM 10/27/2022

	*	-	*	1	-	1	1	1	-	1	ţ	1
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	7	1+		*	1		*	1.		7	1	
Traffic Volume (vph)	111	233	161	60	167	51	92	224	55	87	303	131
Future Volume (vph)	111	233	161	60	167	51	92	224	55	87	303	131
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (ft)	100	- I I I I I I I I I I I I I I I I I I I	0	300	DULLE TO STATE	0	260		0	325		0
Storage Lanes	1		0	Ebitable	VI TO THE REAL PROPERTY.	0	1	State of the last	0	1	Service,	0
Taper Length (ft)	100	ALC: NO PERSONS NAMED IN		115	Total Carlotte		100			100	CONTRACTOR OF THE PARTY OF	
Lane Util, Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Frt		0.939			0.965	1100	1100	0.970	1.00	1.00	0.955	1.00
Flt Protected	0.950	The Original	NEW TEN	0.950	ENSIES SERVICES	- TAX	0.950		18,117,11	0.950	0.000	Bill on
Satd. Flow (prot)	1347	1693	0	1805	1771	0	1752	1725	0	1687	1646	0
Flt Permitted	0.615	Taxable Park	STATE OF THE PARTY.	0.398	N. Salakar	ESSE	0.409	No. of Lot	PERSONAL PROPERTY.	0.580	1040	A SHEET MAN
Satd. Flow (perm)	872	1693	0	756	1771	0	754	1725	0	1030	1646	0
Right Turn on Red	NOT SHOW IN	THE STATE OF	Yes	REPORTED IN		Yes	STATE OF THE PARTY	1125	Yes	1000	PO-TO	Yes
Satd. Flow (RTOR)	Separate Sep	48	100	-	21	100		21	103		38	100
Link Speed (mph)	THE DESIGNATION	45	SHEETEN	-1 N 5-11	45	and the same	CONTRACT OF	45	- AUTO-12	Maria San	45	NOT THE
Link Distance (ft)		776	OU TO		1602			801			698	
Travel Time (s)	S S S S S S	11.8		SELECTION OF THE PERSON OF THE	24.3	I STATE OF THE PARTY OF THE PAR	Section.	12.1	SEA 17 (54)	SCHOOL ST	10.6	Sales of the
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Heavy Vehicles (%)	34%	7%	3%	0.95	4%	2%	3%	8%	2%	7%	9%	13%
Adj. Flow (vph)	117	245	169	63	176	54	97	236	58	92	319	138
Shared Lane Traffic (%)	NAME OF THE OWNER, OWNER, OWNER, OWNER, OWNER, OWNER,	240	103	03	170	34	31	230	30	92	319	130
Lane Group Flow (vph)	117	414	0	63	230	0	97	294	0	92	457	0
Enter Blocked Intersection	No	No.	No	No	No No	No	No	No No	No	No No	No No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)	Leit	12	right	Leit	12	Rigit	Leit	12	Right	Leit	12	Right
Link Offset(ft)		0			0			0		and the same	0	(O)
Crosswalk Width(ft)	and the same	16	CONTRACT FOR	Steel years	16	Application	Service Land	16	DEN GAR		16	NO CONTRACTOR OF THE PARTY OF T
Two way Left Turn Lane		Yes	AL AL		10			10	THE PARTY		10	Marin
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	4.00	4.00
Turning Speed (mph)	15	1.00	9	15	1.00	9	1.00	1.00	1.00		1.00	1.00
	-	NA	9		***	9		***	9	15		9
Turn Type	Perm	AND DESCRIPTION OF THE PERSON.		Perm	NA	1000	Perm	NA		Perm	NA	
Protected Phases Permitted Phases	1	1	AT CONTRACTOR		1	ALAN STORY	•	3	Section 1		3	TO COMPANY
Detector Phase	1	1		1	1		3	3		3	3	1
Switch Phase	Manager Co.	STREET	SIDELLIN	-	The state of the s		3	3	language and	3	3	
	10.0	10.0		10.0	10.0	diam'r	10.0	10.0		10.0	10.0	
Minimum Initial (s)	24.5	24.5	EN SERVICE	0.00		S. Harrison	10.0	10.0		10.0	10.0	
Minimum Split (s)	35.0	35.0		24.5 35.0	24.5 35.0		24.5	24.5		24.5	24.5	
Total Split (s)	43.8%	43.8%	SOME PROPERTY.		43.8%		45.0	45.0		45.0	45.0	and the same of
Total Split (%)				43.8%			56.3%	56.3%		56.3%	56.3%	Part !
Maximum Green (s)	28.5	28.5	and the same of th	28.5	28.5	CONTRACTOR OF THE PARTY OF THE	38.5	38.5	AND REAL PROPERTY.	38.5	38.5	-
Yellow Time (s)	5.0	5.0		5.0	5.0	No.	5.0	5.0		5.0	5.0	55000
All-Red Time (s)	1.5	1.5		1.5	1.5		1.5	1.5		1.5	1.5	TENESCO CONTRA
Lost Time Adjust (s)	0.0 6.5	0.0 6.5	ALC: NO.	0.0	0.0	200	0.0	0.0		0.0	0.0	CALL SE
Total Lost Time (s)	0.5	0.5		6.5	6.5	W. Charles	6.5	6.5	-	6.5	6.5	-
Lead/Lag		8.500		75,500								
Lead-Lag Optimize?	20	20		2.0	0.0		4.0		-			
Vehicle Extension (s) Recall Mode	3.0	3.0		3.0	3.0		4.0	4.0		4.0	4.0	
Recall Mode	None	None		None	None		None	None		None	None	

Pembroke Industrial Park Synchro 11 Report Passero Associates Page 9 Lanes, Volumes, Timings 5: NY-77 (Alleghany Road) & NY-5 (Main Street)

2032 Phase 3 PM 10/27/2022

	1	-	-	1	-	1	1	1	-	1	1	1
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Act Effct Green (s)	18.5	18.5		18.5	18.5		23.3	23.3		23.3	23.3	001
Actuated g/C Ratio	0.33	0.33		0.33	0.33		0.42	0.42	STATE OF THE PARTY OF	0.42	0.42	
v/c Ratio	0.41	0.70		0.25	0.38		0.31	0.40	1	0.21	0.65	Horain
Control Delay	21.7	22.9		19.0	16.6	State of the other lands	14.9	12.8	Design of the last	12.6	17.1	
Queue Delay	0.0	0.0	SPINS I	0.0	0.0	The state of	0.0	0.0	SELENCE:	0.0	0.0	CARTON
Total Delay	21.7	22.9		19.0	16.6	AND DESCRIPTION OF THE PARTY OF	14.9	12.8	AND VENEZUE	12.6	17.1	MALIANT
LOS	C	C	4	В	В	ALCOHOL:	В	В	Sales and	В	В	SHIELD !
Approach Delay		22.6			17.1			13.3	ACCOUNT OF THE PARTY OF		16.3	
Approach LOS	1	C	Service of the last of the las	SHE SHE	В	DOM:	STEEL STEEL	В		E THE SECTION	В	NG STATE
Queue Length 50th (ft)	28	98	THE REAL PROPERTY.	14	49	Contract Con	20	57	-	18	99	No.
Queue Length 95th (ft)	89	249	A THE RES	52	132	TOTAL STREET	60	136	S. A. Store	53	230	
Internal Link Dist (ft)		696			1522			721		-	618	
Turn Bay Length (ft)	100		Service.	300	THE SE	C DOM	260	PERSONAL PROPERTY.		325	THE REAL PROPERTY.	1
Base Capacity (vph)	485	963		420	994		548	1261	NESTANDA DE	749	1208	estado.
Starvation Cap Reductn	0	0		0	0		0	0	Berger Miles	0	0	4894
Spillback Cap Reductn	0	0	-	0	0		0	0		0	0	ELONGE I
Storage Cap Reductn	0	0		0	0	e distrib	0	0	25/20	0	0	No. Ho
Reduced v/c Ratio	0.24	0.43		0.15	0.23		0.18	0.23		0.12	0.38	THORN

Area Type: Other
Cycle Length: 80
Actuated Cycle Length: 56
Natural Cycle: 50
Control Type: Actuated-Uncoordinated
Maximum vio Ratio: 0.70
Leterostics Street Daley 17.7

Intersection Signal Delay: 17.7 Intersection Capacity Utilization 84.3% Intersection LOS: B ICU Level of Service E

Analysis Period (min) 15

Splits and Phases: 5: NY-77 (Alleghany Road) & NY-5 (Main Street)





Pembroke Industrial Park Passero Associates

2032 Phase 3 PM

6: Brickhouse Road/Proposed Access & NY-5 (Main Street)

10/27/2022

Synchro 11 Report

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	1	-	1	1	-	1	1	1	-	1	+	1
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	7	1.		7	1.		7	1		7	1	
Traffic Volume (vph)	18	350	3	2	375	38	6	0	18	124	0	61
Future Volume (vph)	18	350	3	2	375	38	6	0	18	124	0	61
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (ft)	300		0	120		0	150		0	200		0
Storage Lanes	1		0	1		0	1	Add - B	0	1	SEE CO.	0
Taper Length (ft)	125			75			100			25		
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Frt		0.999			0.986			0.850		The second secon	0.850	
Flt Protected	0.950	No. of the last	N. B. W.	0.950	S 35-1-1	THE REAL PROPERTY.	0.950	19:55		0.950		No.
Satd. Flow (prot)	1805	1754	0	1805	1767	0	1626	1615	0	1388	1568	0
Flt Permitted	0.950		With the Party	0.950	SECTION .		0.950			0.950	Tiems	
Satd. Flow (perm)	1805	1754	0	1805	1767	0	1626	1615	0	1388	1568	0
Link Speed (mph)	and to be seen	45		THE REAL PROPERTY.	45	A SUBSE		30	HARRY P	Charles and	30	No. of Lot
Link Distance (ft)		831		-	776			817	and the same of th	-	652	
Travel Time (s)	-	12.6	A TENEDO	500	11.8	1 THE R. P. LEWIS CO.	THE PARTY OF	18.6		PENANT.	14.8	0652
Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
Heavy Vehicles (%)	0%	8%	33%	0%	4%	26%	11%	0%	0%	30%	0%	3%
Adj. Flow (vph)	19	372	3	2	399	40	6	0	19	132	0	65
Shared Lane Traffic (%)		W. 18	STATE OF STREET	Water.	AND SERVICES	Service .	-	and the same	NAME OF	RIVER IN	P. House	SAMPLE .
Lane Group Flow (vph)	19	375	0	2	439	0	6	19	0	132	65	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)	The State of the	12	Name of Street	8.7.40	12	1750 d 23	CENTER OF STREET	12	Sec. Maria	THE REAL PROPERTY.	12	Ser. Ser.
Link Offset(ft)	And the last of the last of	0			0			0			0	
Crosswalk Width(ft)	ALIVE SE	16	STORES OF		16	SHOW	THE SE	16	10.00	PERSONAL PROPERTY.	16	CONTRACTOR .
Two way Left Turn Lane	and the same of th	COLUMN TO SERVICE SERV			Yes	-			THE REAL PROPERTY.			
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	60		9	15		60	15		9	60		60
Sign Control		Free			Free			Stop		2	Stop	Time
Intersection Summary	STATE OF					F-18						
THE RESERVE OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUMN TW	Other	The same										
Control Type: Unsignalized Intersection Capacity Utilizat	tion 42 29/	STREET	(Medien)	V	CU Level	of Consider	. ^		-		UM CHANG	NECOSIO I
Analysis Period (min) 15	1011 42.2/			T.	oo reven	or Service	A					-

Pembroke Industrial Park Passero Associates

HCM 6th TWSC

6: Brickhouse Road/Proposed Access & NY-5 (Main Street)

2032 Phase 3 PM 10/27/2022

Int Delay, s/veh	5.7												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
ane Configurations	7	1.		7	1		7	1+		7	7		
Traffic Vol, veh/h	18	350	3	2	375	38	6	0	18	124	0	61	
Future Vol, veh/h	18	350	3	2	375	38	6	0	18	124	0	61	
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0	
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop	
RT Channelized			None	200	1	None	ESCHOOL SERVICE					None	
Storage Length	300	-	-	120			150		-	200		-	
/eh in Median Storage,	mark on truth	0			0	-11-12		0			0		
Grade, %		0		-	0			0	-	-	0	-	
Peak Hour Factor	94	94	94	94	94	94	94	94	94	94	94	94	
Heavy Vehicles, %	0	8	33	0	4	26	11	0	0	30	0	3	
Mvmt Flow	19	372	3	2	399	40	6	0	19	132	0	65	
Major/Minor N	tajor1	-		(Anior)			Minort			dinara			
Conflicting Flow All	439	0	0	Major2	0	_	Minor1	000	_	Minor2	000	440	
Stage 1	439	U	0	375	U	0	868	855	374	844	836	419	
		100	100			Sec. 1	412	412		423	423		
Stage 2 Critical Hdwy	4.1				-	-	456	443	-	421	413		
	STREET, SQUARE			4.1			7.21	6.5	6.2	7.4	6.5	6.23	
Critical Hdwy Stg 1	-				-		6.21	5.5	-	6.4	5.5	-	
Critical Hdwy Stg 2	-		APIN P	-			6.21	5.5		6.4	5.5	BEET!	
Follow-up Hdwy	2.2		-	2.2		-	3.599	4	3.3	3.77		3.327	
Pot Cap-1 Maneuver	1132			1195	52155	-	263	298	677	254	305	632	
Stage 1	-			-	-		600	598	-	557	591	-	
Stage 2		Carlo Carlo					567	579	Tree.	559	597		
Platoon blocked, %													
Mov Cap-1 Maneuver	1132	200		1195	1	11/25	233	292	677	243	299	632	A TANK
Mov Cap-2 Maneuver	-	-					233	292		243	299		
Stage 1	9 -	1100			15 4	100	590	588		548	590		
Stage 2			-	-		-	508	578	-	534	587	-	CONTRACTOR CONTRACTOR
Approach	EB			WB	-		NB	distribution of the last of th		SB	NO.		
HCM Control Delay, s	0.4	200	1	0	ed a s	- Company	13.1	- Contract		27.9	THE WAY	No. of Lot	- Contractor
HCM LOS	0.4			U	e firm is		B			21.9 D			
	11/2			No. of the						3424	475		SAME OF STREET
Minor Lane/Major Mvml		NBLn1		EBL	EBT	EBR	WBL	WBT	WBR:	SBLn1	-	2000	
Capacity (veh/h)		The second second	677	1132			1195		200	243	632	No.	
HCM Lane V/C Ratio	NATURE OF THE PARTY OF THE PART	0.027					0.002			0.0.0	0.103	-	
HCM Control Delay (s)	1	20.9	10.5	8.2	- 1		. 8	Sec. 4		36.1	11.3		
HCM Lane LOS		C	В	A			A			E	В		
HCM 95th %tile Q(veh)		0.1	0.1	0.1	1013	N. 172 =	0	-	127.0	2.9	0.3		

Pembroke Industrial Park

# **A7**

# Level of Service Calculations: Full Development Conditions with Mitigation

4: NY-77 (Alleghany Road) & Proposed Southerly Access/Vision Parkway

01/04/2023

	1	-	-	1	-	1	1	1	-	1	1	1
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	7	1			4			4			44	7
Traffic Volume (vph)	26	0	6	201	0	8	28	410	9	9	312	108
Future Volume (vph)	26	0	6	1	0	8	28	410	9	9	312	108
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (ft)	0		0	0		0	0		0	0	-	350
Storage Lanes	1		0	0		0	0		0	0	STEEL ST	2 1
Taper Length (ft)	25			25			25			25		
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.95	0.95	1.00
Frt		0.850			0.878			0.997		-		0.850
Flt Protected	0.950	SALES FOR	-	A TOP OF	0.995	T 453	A THE	0.997	A STATE OF	miles and	0.999	Sel- es
Satd. Flow (prot)	1805	1615	0	0	1660	0	0	1660	0	0	2925	1615
FIt Permitted	0.950				0.995	150		0.997	Section 1		0.999	PARTY.
Satd. Flow (perm)	1805	1615	0	0	1660	0	0	1660	0	0	2925	1615
Link Speed (mph)		30		M 25	30	PER ST	NAME OF STREET	45		16.35	45	1
Link Distance (ft)	-	883			873			403			478	
Travel Time (s)		20.1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	TO THE PARTY	19.8	200	To be a	6.1	No.		7.2	AL DES
Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
Heavy Vehicles (%)	0%	0%	0%	0%	0%	0%	0%	15%	0%	0%	24%	0%
Adj. Flow (vph)	28	0	6	1	0	9	30	436	10	10	332	115
Shared Lane Traffic (%)				Marie M.				No. of	A PARTY	-	STATE OF	1
Lane Group Flow (vph)	28	6	0	0	10	0	0	476	0	0	342	115
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		12	E LANGE	1	12		to all the	0	The last	STATE OF THE PARTY OF	0	SERVI
Link Offset(ft)		0			0			0			0	
Crosswalk Width(ft)		16		5% A 500	16		14	16	The said	THE REAL PROPERTY.	16	- Land
Two way Left Turn Lane												
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	15		9	15		9	15		9	15	-	9
Sign Control		Stop		Marie II	Stop			Free			Free	
Intersection Summary		TO THE		19 19 19						NAME OF		
Ason Tunes	Other	No. Venture	Marin Indoor	ALC: N	Control of the last	THE REAL PROPERTY.	A STATE OF THE PARTY OF	No. of Lot	NAME OF TAXABLE PARTY.	and the same of		No.

acity Utilization 50.7% ICU Level of Service

Area Type: Other
Control Type: Unsignalized
Intersection Capacity Utilization 50.7%
Analysis Period (min) 15

HCM 6th TWSC 4: NY-77 (Allegha

4: NY-77 (Alleghany Road) & Proposed Southerly Access/Vision Parkway

01/04/2023

Int Delay, s/veh	1.1											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	CD
Lane Configurations	T		CDIN	WOL	1000	YVOR	NDL	The State of the Land	NBR	ODL	-	SBF
Traffic Vol. veh/h	26	10	6	1	4	8	28	410	0	9	44	7
Future Vol. veh/h	26	0	6	1	0	8	28	410	9	9	312 312	108
Conflicting Peds. #/hr	0	0	0	0	0	0	-0	410	0	0	312	108
The second secon	Stop	Street, Square,	Stop			STATE OF THE PARTY.	The second second			DATE OF THE PARTY	Marie Co.	1000
Sign Control RT Channelized	Stob	Stop	_	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
Storage Length	0	and the second	and the same	7		None	100	100	None			None
		0	-			-	-	-	-			350
Veh in Median Storage, Grade. %		0			0	1 45		0	100		0	
Peak Hour Factor	94	94	-	-	0		-	0	-	-	0	
	Charles Street	300 July 19	94	94	94	94	94	94	94	94	94	94
Heavy Vehicles, %	0	0	0	0	0	0	0	15	0	0	24	0
Mvmt Flow	28	0	6	1	0	9	30	436	10	10	332	115
Malantinas	line O			#12 U.S.			Water State		SCHOOL SO	EL A		-
Committee of the Commit	Minor2	050		Ainor1	-		Major1			Major2		
Conflicting Flow All	858	858	166	687	968	441	447	0	0	446	0	0
Stage 1	352	352	35.3	501	501					19 C.		
Stage 2	506	506		186	467							-
Critical Hdwy	7.3	6.5	6.9	7.3	6.5	6.2	4.1	TELEVISION		4.1	100	
Critical Hdwy Stg 1	6.5	5.5		6.1	5.5			-	-	-		-
Critical Hdwy Stg 2	6.1	5.5		6.5	5.5						- 5	
Follow-up Hdwy	3.5	4	3.3	3.5	4	3.3	2.2		-	2.2		
Pot Cap-1 Maneuver	266	297	856	350	256	621	1124		4	1125	-05	
Stage 1	643	635		556	546	-	-	-				
Stage 2	552	543		804	565				-			-
Platoon blocked, %								-	-			
Mov Cap-1 Maneuver	253	283	856	335	244	621	1124			1125	100	
Mov Cap-2 Maneuver	253	283	-	335	244		-					
Stage 1	620	627	5 to 1	536	526		The same	VS.	1	THE REAL PROPERTY.		THE THE
Stage 2	525	523		788	558	-	-	-	-		-	
	CHICAGO.										That is	1
Approach	EB			WB	New All		NB	11/20/1		SB		155
HCM Control Delay, s	18.8			11.5			0.5	TITLE		0.2		
HCM LOS	C	DE LOS	Dayles	В			BEN S	STEEL S		No.		
Minor Lane/Major Mvm		NBL	NBT	NRP	ERI na	EBLn2	NRI nd	SBL	SBT	SBR		
Capacity (veh/h)		1124	NO	NON	253	856	567	1125	301	Mac	Total Control	
HCM Lane V/C Ratio	To the last	0.027			0.109		0.017	0.009	A PAGE		100	Special Section
HCM Control Delay (s)	distant.	8.3	0	-	21	9.2	11.5	8.2	0	SUPERIOR .		BEEN
HCM Lane LOS	-	0.5 A	A	The Park of	C	9.2 A	В	0.2 A	A	-		
HCM 95th %tile Q(veh)		0.1			0.4	0	0.1	0	A			

5: NY-77 (Alleghany Road) & NY-5 (Main Street)

01/04/2023

	1	-	*	1	-	1	4	†	-	1	1	1
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	7	1		*	4		7	1		*	1	-
Traffic Volume (vph)	101	162	96	109	170	83	139	251	64	28	212	77
Future Volume (vph)	101	162	96	109	170	83	139	251	64	28	212	77
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (ft)	100		0	300		0	260		0	325		0
Storage Lanes	1		0	1	1535	0	1	-	0	1	THE WAY	0
Taper Length (ft)	100			115			100	and a contract of the contract		100		-
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Frt		0.944			0.951		A CONTRACTOR OF THE PARTY OF TH	0.970			0.960	
Flt Protected	0.950	200		0.950			0.950	SOUTH A	1	0.950		SELEC
Satd. Flow (prot)	1530	1700	0	1612	1628	0	1770	1799	0	1492	1495	0
Flt Permitted	0.513		Elenes	0.505	The second	and the same	0.494	NAME OF TAXABLE PARTY.	Total Control	0.456	AND LOUIS	AMERICAN .
Satd. Flow (perm)	826	1700	0	857	1628	0	920	1799	0	716	1495	0
Right Turn on Red	175.00	BANGE OF STREET	Yes	THE PARTY		Yes	Seattle .	A STATE OF	Yes	STATE OF THE PARTY.	1400	Yes
Satd. Flow (RTOR)		42			35			22	100		31	100
Link Speed (mph)	A CHARLES	45	Nº3	24.6	45		400000	45	CARREST SHE	STANDARD TO	45	The state of
Link Distance (ft)		776			1602	Contract Contract	and the same	801	All said		698	
Travel Time (s)		11.8			24.3	N. A.S. Co.	No.	12.1	(STATE OF A	INC. TUNK	10.6	NEW PARK
Peak Hour Factor	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76
Heavy Vehicles (%)	18%	7%	3%	12%	11%	11%	2%	0%	12%	21%	13%	47%
Adj. Flow (vph)	133	213	126	143	224	109	183	330	84	37	279	101
Shared Lane Traffic (%)	ESSENTED!	SAN CALLED	PERMIT	DESIGN P	ELT.	TO S	100	300	04	31	213	101
Lane Group Flow (vph)	133	339	0	143	333	0	183	414	0	37	380	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)	the labeled	12	Trigin	Leit	12	right	Leit	12	Right	Leit	12	Right
Link Offset(ft)	and the same of the same	0			0	30000	41.	0			0	
Crosswalk Width(ft)	Gradient Ave	16	Ser.	CHALLES AND	16	ol in the fi	SHE WAS	16	SEC.	-	16	OT ALL PARTY
Two way Left Turn Lane	A PARTY OF THE PAR	Yes	NA PAGE	SOURCE	10		The Park of the Pa	10		and the same	10	1
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	15	1.00	9	15	1.00	9	15	1.00	9	15	1.00	9
Turn Type	Perm	NA	3	Perm	NA	9	Perm	NA	9	Perm	NA	9
Protected Phases	t Gilli	1	SE14-SE	T CITIL	1		L CHILL	3		reini	3	100
Permitted Phases	1	CONTRACTOR OF THE PARTY OF THE	Service Marie	4	ALEXANDER OF THE PARTY OF THE P		3	3	Daniel Co.	3	3	Name and Address of the Owner, where
Detector Phase	1	1		1	1	F 100 m 10	3	3		3	3	Adding
Switch Phase	Service Service	-	Name and Address of the Owner, where the Owner, which is the	and the same	SECTION .	151515		NAME OF TAXABLE PARTY.	SECTION AND ADDRESS.	SHARONES WAS	3	
Minimum Initial (s)	10.0	10.0		10.0	10.0		10.0	10.0	2012	10.0	10.0	
Minimum Solit (s)	24.5	24.5	NAME OF TAXABLE	24.5	24.5	and the same of	24.5	24.5	esta de la companya della companya della companya de la companya della companya d	24.5	24.5	MEDING!
Total Split (s)	36.0	36.0		36.0	36.0		44.0	44.0		44.0	44.0	327931
Total Split (%)	45.0%	45.0%		45.0%	45.0%		55.0%	55.0%	math with the	55.0%	55.0%	
Maximum Green (s)	29.5	29.5		29.5	29.5		37.5	37.5		37.5	37.5	0.00
Yellow Time (s)	5.0	5.0	BASCARS	5.0	5.0	SATING.	5.0	5.0	In Colonia	5.0	5.0	(DENOC
All-Red Time (s)	1.5	1.5	-	1.5	1.5	- A	1.5	1.5		1.5	1.5	district of
Lost Time Adjust (s)	0.0	0.0		0.0	0.0	-	0.0	0.0	CENTROLS.	0.0	0.0	1000000
Total Lost Time (s)	6.5	6.5	and the same	6.5	6.5		6.5	6.5		6.5	6.5	2
Lead/Lag	0.0	0.0	September 1	0.0	0.5	NAME OF STREET	0.0	0.0	No. of Contract of	0.0	0.5	THE REAL PROPERTY.
Lead-Lag Optimize?	100	SCEPIL:		W. Jayes							A STATE OF	Classical C
Vehicle Extension (s)	3.0	3.0		3.0	3.0		4.0	40		4.0	- 10	
Recall Mode	None	None		None	None	10000		4.0	Market Bar	The second second	4.0	SHALL
Recall Mode	Noue	None		None	None		None	None		None	None	

2032 Phase 3 AM Pembroke Industrial Park 1:01 pm 10/27/2022 2032 Phase 3 AM Passero Associates

Synchro 11 Report Page 3

Lanes, Volumes, Timings 5: NY-77 (Alleghany Road) & NY-5 (Main Street)

01/04/2023

	1	-	1	1	-	*	1	1	-	1	1	1
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Act Effct Green (s)	17.9	17.9	The state of the s	17.9	17.9		22.2	22.2		22.2	22.2	
Actuated g/C Ratio	0.33	0.33		0.33	0.33		0.41	0.41		0.41	0.41	
v/c Ratio	0.49	0.58		0.51	0.60	120	0.49	0.55	AL HOUSE	0.13	0.60	TRANS-
Control Delay	23.8	18.8		24.1	19.8	and the same of th	17.7	15.1	THE REAL PROPERTY.	12.2	16.5	N. A. S.
Queue Delay	0.0	0.0	Sections	0.0	0.0	STATE OF	0.0	0.0	San Landing	0.0	0.0	NEWS
Total Delay	23.8	18.8		24.1	19.8		17.7	15.1	Name of Street, or other Persons	12.2	16.5	-
LOS	C	В	Access 100	C	В	The same of the sa	В	В	STORES.	В	В.	Marie Land
Approach Delay		20.2	and the same of		21.1			15.9	instruction of		16.2	120000
Approach LOS		C	TO PETER	-	C	Total Section	- Committee	В	make you	N 207 CO	B	STATE OF THE PARTY.
Queue Length 50th (ft)	32	72	THE REAL PROPERTY.	34	73	Mark Street Street	38	83		6	76	
Queue Length 95th (ft)	81	149		85	151	NAME OF BRIDE	88	160	Carried St.	23	151	i de golenome.
Internal Link Dist (ft)		696	NAME OF THE OWNER, OF THE OWNER, OF THE OWNER, OF THE OWNER, OWNER, OWNER, OWNER, OWNER, OWNER, OWNER, OWNER,		1522			721		20	618	
Turn Bay Length (ft)	100		OF PERSON	300	ST-100		260	ENGINEER STREET	101	325	STATE OF THE PARTY	ACMISS.
Base Capacity (vph)	491	1028		509	982		678	1331	NA COLUMN	527	1109	
Starvation Cap Reductn	0	0		0	0	the second	0	0	VENEZA CO	0	0	DOM:
Spillback Cap Reductn	0	0	and the second	0	0		0	0		0	0	
Storage Cap Reductn	0	0	TENESS.	0	0	C2966	0	0		0	0	SHOULK.
Reduced v/c Ratio	0.27	0.33		0.28	0.34		0.27	0.31		0.07	0.34	10000000

Area Type: Cycle Length: 80 Actuated Cycle Length: 54.3

Actualed Cycle: 50
Control Type: Actualed-Uncoordinated
Maximum v/c Ratio: 0.60
Intersection Signal Delay: 18.3 Intersection LOS: B
ICU Level of Service C Intersection Capacity Utilization 69.8%

Analysis Period (min) 15

Splits and Phases: 5: NY-77 (Alleghany Road) & NY-5 (Main Street)

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2032 Phase 3 AM Pembroke Industrial Park 1:01 pm 10/27/2022 2032 Phase 3 AM Passero Associates

6: Brickhouse Road/Proposed Access & NY-5 (Main Street)

04	10.4	100	200
UT	104	120	Z.

	1	$\rightarrow$	*	1	-	*	1	1	-	1	+	1
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	*	1.		7	<b>†</b>	7	7	1		ሻ	1	
Traffic Volume (vph)	64	310	9	16	267	129	1	0	100	31	0	13
Future Volume (vph)	64	310	9	16	267	129	1	0	1	31	0	13
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (ft)	300		0	120		350	150		0	200		0
Storage Lanes	1		0	100	100	1	1	Plant III	0	1	-	0
Taper Length (ft)	125			75			100			25		
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Frt		0.996				0.850		0.850			0.850	
Flt Protected	0.950			0.950		March 1	0.950			0.950		Total Control
Satd. Flow (prot)	1736	1772	0	1597	1743	1272	902	808	0	1433	1615	0
Flt Permitted	0.950		10.00	0.950		A-F-172715	0.950		SEC.	0.950	47.00	10.00
Satd. Flow (perm)	1736	1772	0	1597	1743	1272	902	808	0	1433	1615	0
Link Speed (mph)	-	45			45			30		SELECTION OF THE PERSON OF THE	30	
Link Distance (ft)		831			776			817			652	
Travel Time (s)		12.6		- 1	11.8	Turing the	1513	18.6	THE PARTY	ST-PRICE.	14.8	1000
Peak Hour Factor	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87
Heavy Vehicles (%)	4%	7%	0%	13%	9%	27%	100%	0%	100%	26%	0%	0%
Adj. Flow (vph)	74	356	10	18	307	148	1	0	1	36	0	15
Shared Lane Traffic (%)	V. 105 BH	-		CIBER			V	TOYEN	The state of the s	A CONTRACTOR OF THE PARTY OF TH		
Lane Group Flow (vph)	74	366	0	18	307	148	1	1	0	36	15	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		12		20-16-12-2	12	THE PARTY	Internal	12	-	21712	12	-KILDEN
Link Offset(ft)		0			0			0			0	
Crosswalk Width(ft)	SERVE TO	16	STATE OF		16	100		16	STATE OF	A least	16	2
Two way Left Turn Lane					Yes							
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	15		9	15	-	9	15		9	15		9
Sign Control	RH HE	Free	217		Free	Market.		Stop			Stop	250
Interportion Summany	CONTRACTOR OF THE PARTY OF THE	THE RESIDENCE OF THE PERSON NAMED IN	NAME OF TAXABLE PARTY.	ALC: UNKNOWN		HIELENSON.	STREET, STREET		DIM NOT	and the same	COMMENTS	-

Area Type:

Control Type: Unsignalized Intersection Capacity Utilization 38.6% Analysis Period (min) 15

ICU Level of Service A

Passero Associates

HCM 6th TWSC

6: Brickhouse Road/Proposed Access & NY-5 (Main Street)

01/04/2023

nt Delay, s/veh	1.8				_								
nt Delay, siven													
Novement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
ane Configurations	٦	1		٦	1	7	7	7+		7	1		
Fraffic Vol, veh/h	64	310	9	16	267	129	- 1	0	1	31	0	13	
uture Vol, veh/h	64	310	9	16	267	129	1	0	1	31	0	13	
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0	
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop	
RT Channelized			None			None			None			None	
Storage Length	300	-	-	120		350	150	-	-	200		-	
Veh in Median Storage,	# -	0			- 0	15 3-1		0		100	0		
Grade, %	-	0			0			0	-	-	0	-	
Peak Hour Factor	87	87	87	87	87	87	87	87	87	87	87	87	
Heavy Vehicles, %	4	7	0	13	9	27	100	0	100	26	0	0	
Mvmt Flow	74	356	10	18	307	148	1	- 0	1	36	0	15	
Major/Minor N	fajor1	200	100	Major2	M. N.	1	Minor1	100		Minor2			ASSESSMENT OF THE PARTY OF THE
Conflicting Flow All	455	0	0	366	0	0	934	1000	361	853	857	307	The second second
Stage 1	400			300		-	509	509	301	343	343	301	THE REAL PROPERTY.
Stage 2		Maria .	· ·			men.	425	491		510	514	1250	
Critical Hdwy	4.14	C090U	Section 1923	4.23	STATE OF	2000	8.1	6.5	7.2	7.36	6.5	6.2	E-WITT-RE-CE-
Critical Hdwy Stg 1	7.17		25.00	4.20			7.1	5.5	1.2	6.36	5.5	0.2	
Critical Howy Stg 2		PS SE	NAME OF TAXABLE	CHEST.			7.1	5.5	ADDRESS OF THE PARTY OF	6.36	5.5	42140 42410	APPROXIMATE OF THE PARTY OF THE
Follow-up Hdwy	2.236		-	2.317			4.4	4		3.734	4	3.3	
Pot Cap-1 Maneuver	1095		Siens	1134	PERSONAL PROPERTY.	William .	168	245	510	254	297	738	
Stage 1	1095	trong and		1104			403	541	510	625	641	130	
Stage 2	to the same	-	all the later of	NIGHT TO	encourse.	SHIP OF	454	552	SANCHES MA	504	539	NAME OF TAXABLE PARTY.	CONTRACTOR OF THE PARTY OF THE
Platoon blocked, %					-	140	404	227		504	239		
	1095	-	-	1134		-	454	225	510	227	070	738	
Mov Cap-1 Maneuver		3 1 2		the same	1000		154	-		237	272		Marie Control
Mov Cap-2 Maneuver						-	154	225	-	237	272		Charles of the Landson
Stage 1		7	40.00	Wagner of the last		1500	376	504		583	631	1000	
Stage 2		-	-	Samuel .	-	-	438	543		469	502	- Lacorate	
		W-195					Mark B		Y. Marie				
Approach	EB		BELLEY	WB		200	NB			SB		HET HE	
HCM Control Delay, s	1.4	1000	No.	0.3		1	20.4	12120	335	19.1	State.		
HCM LOS					nie in the		С	STATE OF THE PARTY OF		С	- Contract	all and the same of	
				per se	10						The Sale	THE REAL PROPERTY.	
Minor Lane/Major Mvm		NBLn1	NBLn2	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1	SBLn2		
Capacity (veh/h)	1	154	510	1095		5130	1134	TO PER		237	738		
HCM Lane V/C Ratio		0.007	0.002	0.067	-		0.016	-		0.15	0.02		
HCM Control Delay (s)	1	28.6	12.1	8.5	-	-	8.2			22.9	10	No. of Lot	
HCM Lane LOS		D	В	Α	-		A			C	В		
HCM 95th %tile Q(veh)	No.	0	0	0.2	STATE OF THE PARTY	-	0	Alesta		0.5	0.1	PHI STA	CONTRACTOR VALUE

Lanes, Volumes, Timings 4: NY-77 (Alleghany Road) & Proposed Southerly Access/Vision Parkway

01/04/2023

	1	-	1	1	-	1	4	1	-	1	1	1
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBF
Lane Configurations	7	1.			4			4			44	7
Traffic Volume (vph)	104	0	26	2	0	9	8	373	Several S	3	497	28
Future Volume (vph)	104	0	26	2	0	9	8	373	1	3	497	28
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (ft)	0		0	0		0	0		0	0		350
Storage Lanes	1		0	0		0	0	-0-5-740	0	0	TANK IN	THE RES
Taper Length (ft)	25			25			25			25	The second second	
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.95	0.95	1.00
Frt		0.850			0.887							0.850
Flt Protected	0.950	STATE OF			0.992	1	100000	0.999	BALLER	20175	2000	STATE OF THE PARTY.
Satd. Flow (prot)	1805	1615	0	0	1672	0	0	1656	0	0	3284	1615
FIt Permitted	0.950	Sec. 50	V125-11-	PARTIE	0.992	Marie Co.	2500	0.999	Designation of	THE REAL PROPERTY.	200	1010
Satd. Flow (perm)	1805	1615	0	0	1672	0	0	1656	0	0	3284	1615
Link Speed (mph)	the state of	30	Water !		30	- Contract		45	1015100	NAME OF TAXABLE PARTY.	45	SERVICE STATE
Link Distance (ft)	-	883			873	Name of Street		403	A. S. Channelli		478	
Travel Time (s)	e Santa	20.1	1398	1.15	19.8		HOW ALC	6.1	47-20-0	The same	7.2	35.177
Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
Heavy Vehicles (%)	0%	0%	0%	0%	0%	0%	0%	15%	0%	0%	10%	0%
Adj. Flow (vph)	111	0	28	2	0	10	9	397	1	3	529	30
Shared Lane Traffic (%)	142-741	1 Sec. 1	PART	STATE OF THE PARTY		THE REAL PROPERTY.	North and	SHIELD IN	10-5-14	SERVICE OF THE PARTY OF THE PAR	<b>SECRET</b>	2560
Lane Group Flow (vph)	111	28	0	0	12	0	0	407	0	0	532	30
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)	and the same	12	ALL PARKS	No.	12		HE LINE	0	STATE OF THE PARTY.	Service Control	0	
Link Offset(ft)		0			0			0	ACCOUNT OF THE		0	
Crosswalk Width(ft)	No.	16	TO DE	S-1005-5	16	-	Sec. of	16	2000	NAME OF TAXABLE PARTY.	16	1
Two way Left Turn Lane		The same of the sa	-		ALCOHOLD COM	Marine State Control	-	Marie Control of the				
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	60	- Annual Control	60	15	Million State of the	9	60		9	15		60
Sign Control		Stop	ALC: N		Stop			Free	Market 1		Free	
Intersection Summary				Sec. 1	9000							THE REAL PROPERTY.
Area Type:	Other			Mark the			Antonio					
Control Type: Unsignalized					With the same of t		1000		-	-		
Intersection Capacity Utilizal	tion 45.2%		100	10	U Level	of Service	A	THE PERSON NAMED IN	ATTENDED TO		W 200 5 5	

Passero Associates

2032 Phase 3 PM Pembroke Industrial Park 12:40 pm 10/27/2022 2032 Phase 3 PM

Synchro 11 Report Page 1

#### HCM 6th TWSC

4: NY-77 (Alleghany Road) & Proposed Southerly Access/Vision Parkway

01/04/2023

Int Delay, s/veh	4.1											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	٦	1+			4			4			41	7
Traffic Vol, veh/h	104	0	26	2	0	9	8	373	1	3	497	28
Future Vol, veh/h	104	0	26	2	0	9	8	373	1	3	497	28
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized			None		-	None	-		None	-	ACT IN	None
Storage Length	0	-	-		-		-	-	-	-		350
Veh in Median Storage,	# -	0			0	186	400	0	-	-	0	366
Grade, %	-	0	-	-	0		-	0	-	-	0	
Peak Hour Factor	94	94	94	94	94	94	94	94	94	94	94	94
Heavy Vehicles, %	0	0	0	0	0	0	0	15	0	0	10	0
Mvmt Flow	111	0	28	2	0	10	9	397	1	3	529	30
Major/Minor N	finor2	12.30	1000	Minor1	195y pt	559	Major1		,	Major2	-	
Conflicting Flow All	956	951	265	687	981	398	559	0	0	398	0	0
Stage 1	535	535	200	416	416	000	303	STATE OF STA	FEMALES	000		U CONTRACTOR
Stage 2	421	416		271	565		oregina)	See CO.				
Critical Hdwy	7.3	6.5	6.9	7.3	6.5	6.2	4.1	SHOPE	NICE OF	4.1		andere
Critical Hdwy Stg 1	6.5	5.5	-	6.1	5.5	0.2				-	-	-
Critical Hdwy Stg 2	6.1	5.5		6.5	5.5	and the same	STATE OF THE PARTY.		MICHEL		Name of	NEW PARTY.
Follow-up Hdwy	3.5	4	3.3	3.5	4	3.3	2.2	Townson.		2.2	10 Miles	
Pot Cap-1 Maneuver	227	262	739	350	251	656	1022	Name of Street	MIN DOOR	1172	SERVICE S	Sheep to
Stage 1	502	527	100	618	595	000	1022	Charles of the last	10.5	1112		
Stage 2	614	595	9592	717	511	Althoris.	TO SHARE	NO MARKET	-	CONTRACT.	MATERIAL PROPERTY.	William .
Platoon blocked, %		000	White the same of		011	-				-5.	NAVS.	1
Mov Cap-1 Maneuver	221	258	739	333	247	656	1022	No.		1172	CONTRACT OF	-
Mov Cap-2 Maneuver	221	258	105	333	247	000	1022	-		1112		
Stage 1	496	525	175520	611	588	60000	Market L	- CON 45	SHORE	WIELE.	0.00000	FILTING C
Stage 2	598	588		687	509	200	2000	200	March 16		-	1
	Tiber 1	CHEST	-	E LEGIS	000	2010	-	200	-	SIGN G	CONTRACT OF STREET	NAME OF TAXABLE PARTY.
Angroach	ED	Name and Address of the Owner, where		VAIC	and the second		NIP	Santa de la constitución de la c	SALE OF SALE	DELL'AND D	atrical o	
Approach	24.2			WB			NB		No.	SB		200
HCM Control Delay, s HCM LOS	31.3		100	11.6	200		0.2	5,525	40	0	T ST	(3)
HOM LOS	D	1.00	NAME OF TAXABLE PARTY.	В	N PER C	No. of Concession, Name of Street, or other Designation, Name of Street, Name		meno				HOUSE
Mary I was the same of		ALC:	MOT	A COL				all property		5300	Maria Angel	
Minor Lane/Major Mvmt		NBL 1022	NBT	NBR	EBLn1	-		SBL	SBT	SBR		P. State
Capacity (veh/h) HCM Lane V/C Ratio		N. M. Marian	1000		221	739	558	1172		while.		
	militarium	0.008			0.501		0.021	0.003	-	-		
HCM Control Delay (s) HCM Lane LOS	No.	The Real Property lies	0	1.75	36.6	10.1	11.6	8.1	0		10.00	1
		A	Α		E	В	В	Α	A			
HCM 95th %tile Q(veh)		0			2.5	0.1	0.1	0	12 2 1 2 0	CHEN W		

2032 Phase 3 PM Pembroke Industrial Park 12:40 pm 10/27/2022 2032 Phase 3 PM Passero Associates

5: NY-77 (Alleghany Road) & NY-5 (Main Street)

0		10	4	2	^	-	,
0	П	W	41	Z	U	Z	ï

	1	<b>→</b>	>	1	-	1	4	1	-	-	+	1
ane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
ane Configurations	7	1.		7	1		7	1>		7	1	
Traffic Volume (vph)	111	233	161	60	167	51	92	224	55	87	303	131
Future Volume (vph)	111	233	161	60	167	51	92	224	55	87	303	131
deal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (ft)	100		0	300		0	260		0	325		0
Storage Lanes	1		0	1		0	10	35.75	0	1		0
Taper Length (ft)	100			115			100			100		
Lane Util, Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Frt		0.939	CONTRACTOR OF STREET		0.965			0.970			0.955	
Fit Protected	0.950	TS PARTY		0.950			0.950		ZWE'N	0.950	MAN THE	5
Satd. Flow (prot)	1347	1693	0	1805	1771	0	1752	1725	0	1687	1646	0
Flt Permitted	0.615	-	-100	0.409	-	A Comment	0.400	ALC: NO		0.580		S. A.
Satd. Flow (perm)	872	1693	0	777	1771	0	738	1725	0	1030	1646	0
Right Turn on Red	STANTE.	-	Yes		RE-	Yes	TO THE STATE OF	arrest and	Yes			Yes
Satd. Flow (RTOR)	-	52		Name of Street, or other Designation of the Street, or other Desig	23		-	19	-	The second second	34	
Link Speed (mph)	AND THE REAL PROPERTY.	45	125		45			45	100	STATE S	45	
Link Distance (ft)		776			1602	Special Street, Street		801			698	
Travel Time (s)	CONTRACTOR OF THE PARTY OF THE	11.8		CE SA	24.3		1405	12.1	1000	3 - 37	10.6	10.3
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Heavy Vehicles (%)	34%	7%	3%	0%	4%	2%	3%	8%	2%	7%	9%	13%
Adj. Flow (vph)	117	245	169	63	176	54	97	236	58	92	319	138
Shared Lane Traffic (%)	CONTR.	TALESCO AL	THE REAL PROPERTY.		-	MERKS		BARRET	1000	125.00	Mark Land	a man
Lane Group Flow (vph)	117	414	0	63	230	0	97	294	0	92	457	(
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Righ
Median Width(ft)	HEROOME.	12	- Harris		12	MATERIAL STATES		12	ALC: UNITED BY	The same of	12	1000
Link Offset(ft)		0	HEST STREET		0			0			0	
Crosswalk Width(ft)	S FALSE	16	S de la Fill	NAME OF TAXABLE PARTY.	16		3550 470	16	The only	MALE AND I	16	
Two way Left Turn Lane	Name of the local division in the local divi	Yes		all Park Total	10				A. Control of			The same of the sa
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	15	1.00	9	15	1.00	9	15	1100	9	15		(
Turn Type	Perm	NA		Perm	NA	THE REAL PROPERTY.	Perm	NA	1000000	Perm	NA	NO.
Protected Phases	Lenn	1	ZI CHONG	I CHIII	1		Lonn	3		1 other	3	
Permitted Phases	A	DISCOURSE		1		TO DUCK	3	ENGRADA	Tarana T	3	SHEEPER	Marie .
Detector Phase	1	1		1	1	1,540.00	3	3	and the same	3	3	
Switch Phase	Saletonia	SECTION AND ADDRESS.		DESCRIPTION OF THE PERSON OF T	AND DESCRIPTION	No.	antales:	SASTAL N	(Balgar)	ALC: NO.	STEEL STOR	
Minimum Initial (s)	10.0	10.0		10.0	10.0		10.0	10.0	A PART OF LAND	10.0	10.0	
Minimum Split (s)	24.5	24.5		24.5	24.5	4500	24.5	24.5	10000	24.5	24.5	
Total Split (s)	39.0	39.0	Sec. Sec. Sec.	39.0	39.0		41.0	41.0	and the same	41.0	41.0	and the Control
Total Split (%)	48.8%	48.8%	-	48.8%	48.8%	SUCCESSION OF	51.3%	51.3%	ACTION .	51.3%	51.3%	Marrie .
Maximum Green (s)	32.5	32.5		32.5	32.5	Contract Contract	34.5	34.5		34.5	34.5	-
Yellow Time (s)	5.0	5.0	NAME OF	5.0	5.0	(Salesia)	5.0	5.0	1.00	5.0	5.0	Name of
All-Red Time (s)	1.5	1.5		1.5	1.5		1.5	1.5		1.5	1.5	-
Lost Time Adjust (s)	0.0	0.0	100/87539	0.0	0.0		0.0	0.0	Side State	0.0	0.0	THE REAL PROPERTY.
Total Lost Time (s)	6.5	6.5		6.5	6.5		6.5	6.5		6.5	6.5	
Lead/Lag	RESIDENCE.	ALC: NO.	L-Calve			E-Common	SEE SEE		SE SE		SHEET STATES	6950
Lead-Lag Optimize?	and the same	Red Zery			omis dutres		-	To be			The second second	
Vehicle Extension (s)	3.0	3.0	belle in	3.0	3.0	e and the same	4.0	4.0		4.0	4.0	PER

2032 Phase 3 PM Pembroke Industrial Park 12:40 pm 10/27/2022 2032 Phase 3 PM Passero Associates

Synchro 11 Report Page 3 Lanes, Volumes, Timings 5: NY-77 (Alleghany Road) & NY-5 (Main Street)

01/04/2023

	1	$\rightarrow$	-	1	-	*	1	1	-	1	1	4
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Act Effct Green (s)	19.3	19.3		19.3	19.3		22.5	22.5	A CONTRACTOR	22.5	22.5	
Actuated g/C Ratio	0.34	0.34		0.34	0.34		0.40	0.40		0.40	0.40	
v/c Ratio	0.39	0.67	17.50	0.24	0.37	ALC: NO	0.33	0.42	-	0.22	0.67	
Control Delay	19.8	20.5		17.2	15.1		16.6	14.1		13.9	19.0	
Queue Delay	0.0	0.0	25-17	0.0	0.0		0.0	0.0		0.0	0.0	
Total Delay	19.8	20.5		17.2	15.1		16.6	14.1		13.9	19.0	
LOS	В	C	ATTA SE	В	8		В	В	Team of	В	В	T100
Approach Delay		20.4			15.6			14.7			18.2	
Approach LOS	CARDELLES.	C	dent Train		В			В	To de la	1986	В	Sec. 1
Queue Length 50th (ft)	28	95		14	48		20	58		18	102	
Queue Length 95th (ft)	81	225	PERM	48	120		68	152	Desired to	59	259	
Internal Link Dist (ft)		696			1522			721			618	
Turn Bay Length (ft)	100		STORES.	300	750 F	No. of the	260		RE WITT	325		
Base Capacity (vph)	553	1094		493	1133		496	1167		693	1119	
Starvation Cap Reductn	0	0	107.00	0	0		0	0		0	0	NAME OF
Spillback Cap Reductn	0	0		0	0		0	0		0	0	
Storage Cap Reductn	0	0		0	0		0	0	SHIP THE	0	0	
Reduced v/c Ratio	0.21	0.38		0.13	0.20		0.20	0.25		0.13	0.41	

Area Type: Cycle Length: 80 Actuated Cycle Length: 56 Other

Natural Cycle: 50
Control Type: Actuated-Uncoordinated
Maximum v/c Ratio: 0.67

Intersection LOS: B
ICU Level of Service E Intersection Signal Delay: 17.6

Analysis Period (min) 15

Splits and Phases: 5: NY-77 (Alleghany Road) & NY-5 (Main Street)

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2032 Phase 3 PM Pembroke Industrial Park 12:40 pm 10/27/2022 2032 Phase 3 PM Passero Associates

Lanes, Volumes, Timings 6: Brickhouse Road/Proposed Access & NY-5 (Main Street)

MA		

	1	-	-	1	-	*	1	1	-	1	1	1
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBF
Lane Configurations	7	14		7	<b>†</b>	7	7	1		*	1	
Traffic Volume (vph)	18	350	3	2	375	38	6	0	18	124	0	6
Future Volume (vph)	18	350	3	2	375	38	6	0	18	124	0	6
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	190
Storage Length (ft)	300		0	120		350	150		0	200		
Storage Lanes	1		0	1		1	1	1. 10.4	0			2000
Taper Length (ft)	125			75			100		-	25	- orin and the	and the same
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Frt		0.999				0.850		0.850			0.850	-
Flt Protected	0.950			0.950	NEW SE		0.950	a march		0.950	0.000	
Satd. Flow (prot)	1805	1754	0	1805	1827	1282	1626	1615	0	1388	1568	(
Flt Permitted	0.950	-	EN COM	0.950	No.	The Late	0.950	SMESSA	VIEW STATE	0.950	1000	ATT COLUMN
Satd. Flow (perm)	1805	1754	0	1805	1827	1282	1626	1615	0	1388	1568	(
Link Speed (mph)		45	1		45		O'S ASSESSED	30	The same	September 1	30	See 1
Link Distance (ft)		831			776	THE REAL PROPERTY.		817	The second second		652	
Travel Time (s)		12.6	300	None of	11.8	RECENT		18.6	Service of the	A PROPERTY.	14.8	E STATE OF
Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
Heavy Vehicles (%)	0%	8%	33%	0%	4%	26%	11%	0%	0%	30%	0%	3%
Adj. Flow (vph)	19	372	3	2	399	40	6	0	19	132	0	65
Shared Lane Traffic (%)				13.40 PM		THE REAL PROPERTY.	The same	The Park	SHEETS	SALES AND	NITE STATE	DIESTO.
Lane Group Flow (vph)	19	375	0	2	399	40	6	19	0	132	65	(
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Righ
Median Width(ft)		12		The state of	12	MATERIAL PROPERTY.	DISIN-DAY	12	DEPOSITE OF		12	NO HOLL
Link Offset(ft)	-	0	- Contraction		0			0			0	
Crosswalk Width(ft)	Salter:	16	RES	-	16	ALTON A	2003/194	16	1226	W. Sandala	16	V251.05
Two way Left Turn Lane					Yes						and the same of the same	
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	60		9	15		60	15		9	60	.100	60
Sign Control	H 12-10	Free	- Day		Free	1033		Stop			Stop	
Intersection Summary						STORY STORY		Mente			SEC.	
Area Type: (	Other	11				division.	1			1		
Control Type: Unsignalized										-	Transfer of	Contract of the
Intersection Capacity Utilizat	ion 39.9%	The same	Section 2013	IC	U Level	of Service	A		200		West and	STATE OF THE PARTY

2032 Phase 3 PM Pembroke Industrial Park 12:40 pm 10/27/2022 2032 Phase 3 PM Passero Associates

Synchro 11 Report Page 5 HCM 6th TWSC 6: Brickhouse Road/Proposed Access & NY-5 (Main Street)

01/04/2023

Intersection					200		Ture to			1	10	
Int Delay, s/veh	5.4											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	*	1.		*	4	7	*	1.	and the second	7	1	0011
Traffic Vol, veh/h	18	350	3	2	375	38	6	0	18	124	0	61
Future Vol, veh/h	18	350	3	2	375	38	6	0	18	124	0	61
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	SAN E			THE REAL	Britis Sta	None	SSA 2	Otop	None	Otop	Stop	None
Storage Length	300		-	120	-	350	150	-	-	200		HOME
Veh in Median Storage	# -	0		Service of	0	PER SECOND	NO BERNON	0	No.	200	0	SERVICE.
Grade, %		0			0	-	-	0			0	-
Peak Hour Factor	94	94	94	94	94	94	94	94	94	94	94	94
Heavy Vehicles, %	0	8	33	0	4	26	11	0	0	30	0	3
Mvmt Flow	19	372	3	2	399	40	6	0	19	132	0	65
							The state of the s	and the same of	0,000	102		00
Major/Minor N	Major1		15.50	Major2		1	Minor1	-		Minor2	No.	Same and
Conflicting Flow All	439	0	0	375	0	0	868	855	374	824	816	399
Stage 1	No.	_	118002	313			412	412	314	403	403	299
Stage 2	-	-	-	-	O'STORY.	STATE OF	456	443	See See	421	413	75
Critical Hdwv	4.1			4.1	HADE!	(Harrison	7.21	6.5	6.2	7.4	6.5	6.23
Critical Hdwy Stg 1				-	-		6.21	5.5	0.2	6.4	5.5	0.20
Critical Hdwy Stg 2	119112		PAR IN				6.21	5.5	een.	6.4	5.5	No.
Follow-up Hdwy	2.2	-	-	2.2	-		3.599	4	3.3	3.77	4	3.327
Pot Cap-1 Maneuver	1132	-	THUS.	1195	to February	PHARE .	263	298	677	262	314	649
Stage 1	-		-	-	-	-	600	598	011	572	603	043
Stage 2			thin!-	2500	18 has	BI BRE	567	579	Service of	559	597	The same
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Mov Cap-2 Maneuver	-	-				-	233	292	-	251	308	043
Stage 1		NE TH	1004		SIZE SIZE	Wilde	590	588	Nec 14	562	602	
Stage 2	-			-	-		509	578	THE REAL PROPERTY.	534	587	-
		-			N. A.	Tale of					100	recent
Approach	EB		New York	WB	80,00		NB	200		SB	100	1000
HCM Control Delay, s	0.4	10.3		0	TORK!	West -	13.1	30114		26.6		
HCM LOS							В	The latest and the la	DOMESTIC	D		argented grid
			T-BAY			Marian	9.5	4.50		1		
Minor Lane/Major Mvm	6	NBLn1	NBLn2	EBL	EBT	EBR	WBL	WBT	WBR S	SBLn1	SBLn2	7
Capacity (veh/h)	2017	233	677	1132	23		1195		KAN S	251	649	To the last
HCM Lane V/C Ratio		0.027	0.028	0.017	-		0.002		-	0.526	0.1	-
HCM Control Delay (s)		20.9	10.5	8.2		-	8		7	34.2	11.2	er auc
HCM Lane LOS		C	В	Α	-		A	-		D	В	
HCM 95th %tile Q(veh)		0.1	0.1	0.1	1		0	Sales I		2.8	0.3	Alexandra .

2032 Phase 3 PM Pembroke Industrial Park 12:40 pm 10/27/2022 2032 Phase 3 PM Passero Associates

## **Wetland and Waterbodies Delineation Report**

for

# **NWC RTE 5 & RTE 77**

Town of Pembroke Genesee County, New York

for

**Geis Construction** 



November 9, 2022 EDI Project Code: **W29108c** 

# REPORT SUMMARIZING THE RESULTS OF A WETLAND DELINEATION SURVEY OF

# **NWC RTE 5 & RTE 77**

#### Prepared for Submission to:

U.S. ARMY CORPS OF ENGINEERS 1776 NIAGARA STREET BUFFALO, NEW YORK 14207

AND

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION 6274 EAST AVON-LIMA ROAD AVON, NEW YORK 14414-9519

#### Prepared By:

EARTH DIMENSIONS, INC. 1091 JAMISON ROAD ELMA, NEW YORK 14059

#### **Prepared For:**

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REPORT DATE: November 9, 2022

EDI PROJECT CODE: W29I08c

## PROJECT INFORMATION

Project Name	
Street Address	Northwest Corner of Route 5 & Route 77
SBL Number	
Town	
	Genesee
	New York
	42.99759°N, -78.41208°W
	Corfu Quadrangle
	UNT to Murder Creek
Hydrologic Unit Code	04120104
Date of Delineation	August 19, 22 & 23, 2022
Consultant	Earth Dimensions, Inc.
	1091 Jamison Road
	Elma, New York 14059
Point of Contact	Scott Livingstone
	(716)655-1717
	slivingstone@earthdimensions.com
Engineer	Metzger Civil Engineering
Property Owner	Interchange Development LLC
Authority	Section 404, Article 24
Permit/Letter Being Requested	Jurisdictional Determination

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#### **EXECUTIVE SUMMARY**

Geis Construction has proposed the development of a 206.63± acre parcel located along the west side of NYS Route 77 and north side of NYS Route 5 in the Town of Pembroke, County of Genesee, and State of New York. Geis Construction has retained Earth Dimensions, Inc. (EDI) to complete a wetland delineation report that would allow the U.S. Army Corps of Engineers (USACE) and New York State Department of Environmental Conservation (NYSDEC) to determine their jurisdictional authority over the investigation area, pursuant to Section 404 of the Clean Water Act and Articles 15 (Protection of Waters) and 24 (Freshwater Wetlands) of the New York State Environmental Conservation Law.

A preliminary review of available information pertaining to vegetation, soils, and hydrology in the project area was implemented prior to conducting a field investigation at the site. Sources of information included the United States Geological Survey (USGS), Natural Resources Conservation Service (NRCS), National Wetland Inventory (NWI), and NYSDEC Freshwater Wetland maps. The NRCS and NWI maps indicate the potential for wetlands under federal jurisdiction. Although no wetlands are depicted on the NYSDEC Resource Mapper, previous communications with NYSDEC has confirmed the presence of unmapped state wetlands within the project area.

EDI applied methodology specified by the Corps of Engineers Wetlands Delineation Manual (January 1987) and Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northcentral and Northeast Region Version 2.0 (January 2012) to perform a delineation of Federal jurisdictional wetlands within the site. EDI identified eleven (11) wetland areas totaling 53.32± acres within the investigation area. A man-made excavated ditch was identified in the north-central portion of the site. No other drainageways or open water areas were identified. The identification number of the wetlands, their acreage and boundary flags are as follows:

TABLE 1: WETLAND SUMMARY

Wetland Identification #	Geographic Center (WGS84)		Boundary Flag #	Total Acreage	Wetland Type (Cowardin)	Wetland Type (Reschke)	Jurisdictional Determination
	Latitude	Longitude		On-site			
Wetland 1	43.00099	-78.41070	W1-1 through W1-30	1.82±	PSS1B	Scrub-shrub	Jurisdictional
Wetland 2/3 (PFO)	43.00274	-78.41050	W2-1 through W2-21	0.28±	PFO1B	Hardwood Swamp	Jurisdictional

Wetland 2/3 (PEM)	43.00237	-78.41184	W3-1 through W3-24	0.94±	PEM1B	Emergent Marsh	Jurisdictional
Wetland 4	43.00005	-78.41602	W4-1 through W4-56	14.11±	PFO1B	Hardwood Swamp	Jurisdictional
Wetland 5	42.99832	-78.41739	W5-1 through W5-10	0.22±	PSS1B	Scrub-shrub Swamp	Jurisdictional
Wetland 6	42.99614	-78.41645	W6-1 through W6-175	31.19±	PSS1B	Scrub-shrub Swamp	Jurisdictional
Wetland 7	42.99385	-78,41503	W7-1 through W7-30	2.94±	PFO1B	Hardwood Swamp	Jurisdictional
Wetland 8	42.99474	-78.41523	W8-1 through W8-32	0.95±	PFO1E	Hardwood Swamp	Jurisdictional
Wetland 9	42.99444	-78.40613	W9-1 through W9-11	0.28±	PEM1B	Invasive Species Marsh	Jurisdictional
Wetland 10	42.99535	-78,40613	W10-1 through W10-12	0.38±	PEMIB	Invasive Species Marsh	Jurisdictional
Wetland 11	42.99849	-78.41017	W11-1 through W11-11	0.21±	PSS1B	Scrub-shrub Swamp	Jurisdictional
	<b>Total Wetland</b>	Acreage:		53.32±			

## TABLE 2: STREAM & DRAINAGE SUMMARY

Stream Identification #		hic Center iS84)	Waterway	DEC Class	Linear Feet	Highwater Width (Ft)	Flow Regime	Substrate	Classification (Cowardin)	Jurisdictional Determination
	Latitude	Longitude			On-site					
Ditch 1	42.99906	-78.41030	N/A	N/A	684 feet	1 to 2 feet	Ephemeral	Silt	R6	Potentially Non- Jurisdictional

#### SECTION I: INTRODUCTION

Geis Construction has proposed the development of a 206.63± acre parcel located along the west side of NYS Route 77 and north side of NYS Route 5 in the Town of Pembroke, County of Genesee, and State of New York. The project has been given the name NWC Route 5 & Route 77 and is located on USGS 7.5 minute quadrangle map indexed as Corfu (Figure 1). The field work was completed on August 19, 22 & 23, 2022 using a Trimble Geo 7X GPS to locate wetland and drainage boundaries.

Geis Construction has retained Earth Dimensions, Inc. (EDI) to complete a wetland delineation study at this site. The investigation was designed to facilitate a determination of the extent of USACE and NYSDEC jurisdiction over the project area pursuant to Section 404 of the Clean Water Act and Articles 15 (Protection of Waters) and 24 (Freshwater Wetlands) of the New York State Environmental Conservation Law.

EDI has performed a wetland delineation study at the site under guidelines specified by the Corps of Engineers Wetlands Delineation Manual, dated January 1987 (referred to hereafter as the Corps Manual) and the Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northcentral and Northeast Region version 2.0 (January 2012) (referred to hereafter as the Northcentral and Northeast Regional Supplement). The purpose of this report is to present EDI's methods, results, conclusions and recommendations with respect to the NWC Route 5 & Route 77 project site.

#### SECTION II: SITE DESCRIPTION

The NWC Route 5 & Route 77 project area is comprised of a 206.63± acre investigation area on the west side of Route 77 and north side of Route 5. The northern edge of the site borders the NYS Thruway exit ramp to Route 77. A portion of the site was historically used as a borrow area for construction of the NYS Thruway. The site is outlined on Figure 1 and depicted on the Wetland Delineation Map included in Appendix A (Figure 6).

The natural topography of the NWC Route 5 & Route 77 site is flat to gently sloping. The upland within the investigation area consisted of successional old field, successional shrubland, successional northern hardwood and row crop communities. The wetland areas were found to consist of emergent marsh, scrub-shrub swamp, hardwood swamp and invasive species marsh communities. The vegetative communities of the investigation area are described according to *Ecological Communities of New York State* (Edinger et al. 2014).

### SECTION III: PRELIMINARY DATA REVIEW

#### A. SUMMARY OF FINDINGS

Several sources of information may be reviewed to facilitate the completion of a wetland delineation study. In some cases, it is even possible to make a preliminary office wetland determination based upon available vegetation, soils, and hydrologic information for a project area. EDI completed a preliminary review of several data sources at the onset of this study. The results of the review are summarized as follows:

#### 1. USGS 7.5 MINUTE TOPOGRAPHICAL MAP

Figure 1 depicts the NWC Route 5 & Route 77 project site on the Corfu quadrangle map. The figure depicts the flat to gently sloping topography of the site. No drainage features or wetland areas are depicted within the investigation area.

#### 2. USFWS NATIONAL WETLANDS INVENTORY MAP

The National Wetlands Inventory (NWI) map obtained from the USFWS Wetland Mapper http://www.fws.gov/wetlands/Data/Mapper.html displays four (4) wetland types, PEMIE,

PSS1/EM1E, PFO1/SS1E and PFO1E within the investigation area. The wetlands can be decoded as:

- [P] Palustrine, [EM] Emergent, [1] Persistent, [E] Seasonally Flooded/Saturated
- [P] Palustrine, [SS] Scrub-shrub, [1] Broad leaved-deciduous / [EM] Emergent, [1] Persistent,[E] Seasonally Flooded/Saturated
- [P] Palustrine, [FO] Forested, [1] Broad leaved-deciduous / [SS] Scrub-shrub, [1] Broad leaved-deciduous, [E] Seasonally flooded/saturated
- [P] Palustrine, [FO] Forested, [1] Broad leaved-deciduous, [E] Seasonally Flooded/Saturated

#### 3. NATURAL RESOURCES CONSERVATION SERVICE SOILS MAP

Figure 3 presents the project area outlined on a copy of the Genesee County Soil Survey map from the National Cooperative Soil Survey. As shown on that figure, the site has the following soil types:

### Soil Conservation Service Legend

Map Unit Symbol	Map Unit Name	Hydric Rating		
ApA	Appleton silt loam, 0 to 3% slopes	4		

CaA	Canandaigua silt loam, 0 to 2% slopes	95
CbA	Canandaigua mucky silt loam, 0 to 2% slopes	95
ClB	Collamer silt loam, 2 to 6% slopes	0
DuB	Dunkirk silt loam, 2 to 6% slopes	0
DuC	Dunkirk silt loam, 6 to 12% slopes	0
FpA	Fredon gravelly loam, 0 to 3% slopes	10
GP	Gravel Pits	5
Ld	Lamson very fine sandy loam	90
MnA	Minoa very fine sandy loam, 0 to 2% slopes	5
NgA	Niagara silt loam, 0 to 2% slopes	5
PhB	Palmyra gravelly loam, 3 to 8% slopes	0
PsB	Phelps gravelly loam, 3 to 8% slopes	0
Um	Udorthents, smoothed	0

Appleton Series: The Appleton series consists of very deep, somewhat poorly drained soils formed in calcareous loamy till. They are on low ground moraines and on foot slopes of glaciated hills, ridges, and drumlins. Saturated hydraulic conductivity is moderately high or high in the surface and subsoil, and moderately low or moderately high in the substratum. Slope ranges from 0 to 15 percent. Mean annual temperature is 8°C and mean annual precipitation is 995 mm.

<u>Canandaigua Series:</u> The Canandaigua series consists of very deep, poorly and very poorly drained soils formed in silty glacio-lacustrine sediments. These soils are on lowland lake plains and in depressional areas on glaciated uplands. Slope ranges from 0 to 3 percent. Mean annual temperature is 49°F and mean annual precipitation is 39 inches.

<u>Collamer Series:</u> The Collamer series consists of very deep, moderately well drained soils formed in silty glacio-lacustrine sediments. They are on lake plains and till plains that have a thick mantle of lake sediments. Slope ranges from 0 to 25 percent. Mean annual precipitation is about 94 cm, and mean annual air temperature is about 9°C.

<u>Dunkirk Series:</u> The Dunkirk series consists of very deep, well drained, silty soils on lake plains and along lower valley sides formed in glacio-lacustrine sediments. Saturated hydraulic conductivity is

moderately high or high in the mineral surface and sub-surface layers and moderately low to high in the subsoil and substratum. Slope ranges from 0 to 60 percent. Mean annual temperature is 49°F and mean annual precipitation is 38 inches.

<u>Fredon Series:</u> The Fredon series consists of very deep, poorly and somewhat poorly drained soils formed in glaciofluvial materials. Fredon soils are on outwash terraces and outwash plains. Saturated hydraulic conductivity is moderately high or high in the solum and high or very high in the substratum. Slope ranges from 0 to 8 percent. The mean annual temperature is about 48°F and the mean annual precipitation is 37 inches.

Lamson Series: The Lamson series consists of very deep, poorly drained and very poorly drained soils formed in glacio-fluvial, glacio-lacustrine and deltaic deposits. They are level and nearly level soils in low areas on glacial lake plains. Slope ranges from 0 to 3 percent but is mostly less than 2 percent. Saturated hydraulic conductivity is moderately high through high in the mineral soil. Mean annual air temperature is 49°F and mean annual precipitation is 37 inches.

<u>Niagara Series:</u> The Niagara series consists of very deep, somewhat poorly drained soils formed in silty glacio-lacustrine deposits. These soils are in level to slightly concave areas on lake plains and in valleys. Slope ranges from 0 to 15 percent. The mean annual air temperature is 48°F and mean annual precipitation is 37 inches.

<u>Palmyra Series:</u> The Palmyra series consists of very deep, well drained to somewhat excessively drained soils formed in glacial outwash. They are nearly level to very steep soils formed in loamy material overlying calcareous, stratified gravel and sand. Saturated hydraulic conductivity is moderately high or high in the solum and high or very high in the substratum. Slope ranges from 0 to 40 percent. Mean annual temperature is 48°F and mean annual precipitation is 37 inches.

**Phelps Series:** The Phelps series consists of very deep, moderately well drained soils formed in glacial outwash. They are nearly level and gently sloping soils formed in loamy material overlying calcareous, stratified gravel and sand. Saturated hydraulic conductivity is moderately high or high in the mineral solum and high or very high in the sand and gravel. Slope ranges from 0 to 8 percent. Mean annual temperature is about 48°F and mean annual precipitation is about 37 inches.

The U.S. Department of Agriculture's National Technical Committee for Hydric Soils Criteria has developed a list of soils that often display hydric soil characteristics. Hydric soil typically forms in places of the landscape where surface water periodically collects for some time and/or where groundwater discharges sufficient to create waterlogged or anaerobic soils. Such anaerobic soils can support the growth and survival of hydrophytic vegetation that is tolerant of such conditions. The Hydric Rating indicates the proportion of map units that meets the criteria for hydric soils. Soil units are designated as "hydric," "predominantly hydric," "predominantly nonhydric," or "nonhydric" depending on the hydric rating of its respective components. "Hydric" means that all components listed for a given map unit are rated as being hydric. "Predominantly hydric" means components that comprise 66 to 99 percent of the map unit are rated as hydric. "Predominantly nonhydric" means components that comprise 33 to 66 percent of the map unit are rated as hydric. "Predominantly nonhydric" means components that comprise up to 33 percent of the map unit are rated as hydric. "Predominantly nonhydric" means that none of the components are rated as hydric. Wetland hydrologic conditions, hydric soils, and hydrophytic vegetation are the three criteria of a wetland.

#### 4. NYSDEC FRESHWATER WETLANDS MAP

The NYSDEC Freshwater Wetlands map obtained from the online NYSDEC Environmental Resource Mapper displays no state jurisdictional Freshwater Wetlands within or adjacent to the investigation area. Previous correspondence with NYSDEC in 2009 has indicated that an unmapped Freshwater Wetland (FWW CR-31) is present along the western portion of the site.

#### **B. RESULTS OF AGENCY INFORMATION REVIEW**

The preliminary data review revealed that the Corps may have jurisdiction over wetlands at the project location. The evidence consisted of potential federally regulated wetlands on the NWI map (Figure 2) and hydric soils and soils with possible inclusions depicted on the NRCS map (Figure 3). Therefore, it was considered necessary to perform a field investigation at the site in order to determine the presence of federal and state protected wetlands. The methods specified in the Corps of Engineers Wetlands Delineation Manual (January 1987) and Northcentral and Northeast Regional Supplement Version 2.0 (January 2012) were employed during the field investigation. Procedures, results, and conclusions of the wetland delineation study are presented in the remainder of this report.

#### SECTION IV: FIELD INVESTIGATION PROCEDURES

#### WETLANDS:

#### Step 1

EDI applied methodology specified by the 1987 Corps of Engineers Wetlands Delineation Manual and Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northcentral and Northeast Region to perform a delineation of Federal jurisdictional wetlands within the site. EDI used the Level 2 Routine Determination method (on-site inspection necessary) since insufficient information was available for making a determination for the entire project area. This methodology is consistent with Part IV, Section D of the Corps Manual.

#### Step 2

EDI's initial evaluation of the project area revealed that no atypical situations existed. If an atypical situation had existed, EDI would have used methodology outlined in Part IV, Section F of the Corps manual and/or Section 5 of the Northcentral and Northeast Supplement.

#### Step 3

EDI made the determination that normal environmental conditions were present, as the area was not lacking hydrophytic vegetation or hydrologic indicators due to annual, seasonal or long-term fluctuations in precipitation, surface water, or groundwater levels. The Northcentral and Northeast Supplement defines the growing season as beginning when one of the following indicators of biological activity are evident in a given year: (1) above-ground growth and development of vascular plants and/or (2) soil temperature measured at 12" below ground surface reaches 41°F. The end of the growing season is defined as the point at which deciduous species lose their leaves or the last herbaceous plants cease flowering and their leaves become dry or brown, whichever comes latest.

#### Step 4

In order to accurately identify the limits of various vegetative communities and extent of wetlands on-site, a routine determination method was used. As depicted in Appendix A and included in Appendix B, forty-one (41) data points were used to characterize the site.

#### Step 5

The plant community inhabiting each observation point was characterized in accordance with methods specified in the Northcentral and Northeast Regional Supplement. Dominant plant species were identified within four vegetative strata (i.e. herb, sapling/shrub, tree and liana (woody vines) at each sampling point. The Northcentral and Northeast Regional Supplement defines the vegetative strata in the following manner:

Herb – A non-woody individual of a macrophytic species. Seedlings of woody plants (including vines) that are less than 3.28 feet in height are considered to be herbs.

Sapling/Shrub – A layer of vegetation composed of woody plants < 3.0 inches in diameter at breast height but greater than 3.28 feet in height, exclusive of woody vines.

Tree – A woody plant > 3.0 inches in diameter at breast height, regardless of height (exclusive of woody vines)

Liana – A layer of vegetation in forested plant communities that consist of woody vines greater than 3.28 feet in height.

As outlined in the manual, the quadrant sizes used for the vegetative strata were (i) a 3.28-foot radius for herbs; (ii) a ten-foot radius for saplings/shrubs and woody vines; and (iii) a 30-foot radius for trees. Dominant plant species were estimated using aerial coverage methods. Dominant species are defined in the Corps Manual as the most abundant plant species that when ranked in descending order of abundance and cumulatively totaled immediately exceed 50 percent of the total dominance measure for the stratum, plus any additional species comprising 20 percent or more of the total dominance measure.

The wetland indicator status (OBL, FACW, FAC, FACU, or UPL) listed for each identified species by the U.S. Fish and Wildlife Service in the National List of Plant Species that Occur in Wetlands: Northeast (Region 1) was recorded. The U.S. Fish and Wildlife wetland indicator status listings are defined as follows:

OBL – Plants that occur almost always (estimated probability >99 percent) in wetlands under natural conditions, but which may also occur rarely (estimated probability < 1 percent) in nonwetlands.

FACW – Plants that occur usually (estimated probability >67 percent to 99 percent) in wetlands, but also occur (estimated probability 1 percent to 33 percent) in nonwetlands.

FAC – Plants with a similar likelihood (estimated probability 33 percent to 67 percent) of occurring in both wetlands and nonwetlands.

FACU – Plants that occur sometimes (estimated probability 1 percent to <33 percent) in wetlands but occur more often (estimated probability >67 percent to 99 percent) in nonwetlands.

UPL – Plants that occur rarely (estimated probability < 1 percent) in wetlands but occur almost always (estimated probability >99 percent) in nonwetlands under natural conditions.

The plant community data was summarized on the data forms provided in the Northcentral and Northeast Regional Supplement included in this report as Appendix B.

#### Step 6

Plant data from each observation point were tested against the hydrophytic vegetation criterion specified in the Corps Manual and Northcentral and Northeast Regional Supplement. The Northcentral and Northeast Regional Supplement identifies a four-tiered approach for making a determination of whether or not the hydrophytic vegetation criteria is met for a sample plot. Indicator 1 (Rapid Test for Hydrophytic Vegetation) was first applied to determine if all dominant species across all strata are rated OBL and/or FACW. If Indicator 1 did not meet the hydrophytic vegetation criteria, Indicator 2 was then applied (dominance test); if greater than 50% of all plant species across all strata were rated OBL, FACW, or FAC, the hydrophytic vegetation criteria was considered met. In rare cases, when Indicators 1 and 2 did not meet the hydrophytic vegetation criteria but soils and hydrology criteria were met, Indicators 3 (Prevalence Index) and 4 (Morphological Adaptations) were used to make a final determination. All observation points that met the hydrophytic vegetation criterion were considered potential wetlands. Soils were then characterized.

#### Step 7

The Corps Manual specifies that soils need not be characterized (and are assumed hydric soils) at sampling points meeting the hydrophytic vegetation criterion if: (i) all dominant plant species have an indicator status of OBL, or (ii) all dominant species have an indicator status of OBL and/or FACW, and the wetland boundary is abrupt (at least one dominant OBL species must be present). All observation points sampled during this field investigation were examined directly for soil and hydrologic characteristics.

#### Step 8

At observation points requiring a soil evaluation, soil borings were performed by an EDI Soil Scientist using methods specified in the Northcentral and Northeast Regional Supplement. Soil pits were dug using a tile spade. Testpits were generally dug to a depth of 20 inches below ground surface. Soils were examined for any of the hydric soil indicators, as outlined in the Field Indicators of Hydric Soils in the United States. A determination was made as to whether or not the hydric soil criterion was met. Soils data was recorded on the data forms included in Appendix B of this report.

#### Step 9

EDI's Soil Scientist examined hydrologic indicators using methods specified by the Northcentral and Northeast Regional Supplement at each observation point. The wetland hydrology criterion was met if: (i) one or more primary field indicators was materially present, (ii) available hydrologic records provided necessary evidence, or (iii) two or more secondary indicators were present. Results were recorded on data forms taken from the Corps Manual and are included in this report as Appendix B.

#### Step 10

A wetland determination was made for every observation point. If a sample plot met the hydrophytic vegetation, hydric soil, and wetland hydrology criteria, the area was considered to be wetland.

#### Step 11

Based on the results of the transected data, wetland boundaries were established for each identified wetland using survey ribbon labeled "wetland delineation" and numbered consecutively along each wetland boundary. As outlined in the Corps Manual, the placement of flags was based on the limits of areas where all three parameters were met. Wetland flags were labeled W1-1 through W1-30, W2-1 through W2-21, W3-1 through W3-24, W4-1 through W4-56, W5-1 through W5-10, W6-1 through W6-175. W7-1 through W7-30, W8-1 through W8-32, W9-1 through W9-11, W10-1 through W10-12 and W11-1 through W11-11.

#### STREAMS & DRAINAGES:

The federally regulated Ordinary High Water (OHW) mark of streams within the Project area were delineated utilizing the definitional criteria as presented in Title 33, Code of Federal Regulations, Part 328, and the USACE Regulatory Guidance Letter 05-05 – Guidance on Ordinary High Water Mark Identification. Each stream is categorized in regard to its flow regime as perennial, intermittent, or ephemeral, as defined by the USACE. The Ordinary High Water (OHW) mark for each stream is surveyed using the Trimble Geo 7X GPS. Each stream is assigned a letter designation, and survey points are numbered consecutively. Substrate characteristics and water depth are noted. Streams classified as AA, A, B, C, C(t), C(ts) and D in the State of New York are regulated by NYSDEC under Article 15 Use and Protection of Waters. Streams are given classifications which designate the level of protection afforded to each waterbody. Class AA and A are assigned to sources of drinking water. Class B streams are best suited for swimming and other contact recreation, but not drinking water. Class C streams identify waters that support fishing and non-contact activities. A classification with (t) designated a stream with the potential to support trout populations. A classification of (ts) identifies waters that may support trout spawning. Class D waters are the lowest classification and are often highly imperiled.

#### SECTION V: RESULTS AND CONCLUSIONS

Earth Dimensions, Inc. (EDI) has completed a wetland delineation study at the NWC Route 5 & Route 77 site located in the Town of Pembroke, County of Genesee, and State of New York. A field investigation was conducted by a Soil Scientist and a Wetland Ecologist from EDI. The wetland delineation study identified eleven (11) wetlands totaling 53.32± acres present within the NWC Route 5 & Route 77 site. In addition, a 684-foot man made ditch was identified. No other drainage features of waterbodies were identified within the investigation area.

Figure 5 depicts the vegetative communities as they existed at the time of the investigation. The uplands within the investigation area were comprised of successional old field, successional shrubland, successional northern hardwood and row crop communities. The wetland areas were found to consist of emergent marsh, scrub-shrub swamp, hardwood swamp and invasive species marsh communities. The vegetative communities of the investigation area are described according to Ecological Communities of New York State (Edinger et al. 2014).

The successional old field community is present in the northern portion of the site and was historically used as a borrow area. The community is dominated by the following species: white ash (Fraxinus americana), Tatarian honeysuckle (Lonicera tatarica), Russian olive (Elaeagnus angustifolia), Canada goldenrod (Solidago canadensis), Timothy (Phleum pratense), gray goldenrod (Solidago nemoralis), Kentucky bluegrass (Poa pratensis), Queen Anne's lace (Daucus carota), orchardgrass (Dactylis glomerata) and sweet clover (Melilotus officinalis).

The successional shrubland community dominated the upland portions of the site outside of the active agricultural areas. The majority of this community is very dense. The community is dominated by the following species: black cherry (*Prunus serotina*), pin cherry (*Prunus pensylvanica*), black walnut (*Juglans nigra*), eastern cottonwood (*Populus deltoides*), Tatarian honeysuckle (*Lonicera tatarica*), staghorn sumac (*Rhus typhina*), gray dogwood (*Cornus racemosa*), multiflora rose (*Rosa multiflora*), common red raspberry (*Rubus idaeus*), garlic mustard (*Alliaria petiolata*), Canada goldenrod (*Solidago canadensis*), tall hairy agrimony (*Agrimonia gryposepala*) and summer grape (*Vitis aestivalis*).

The successional northern hardwood community is scattered throughout the site in small areas. The community is dominated by the following species: sugar maple (*Acer saccharum*), red maple (*Acer rubrum*), black cherry (*Prunus serotina*), pignut hickory (*Carya glabra*), eastern cottonwood (*Populus deltoides*), white ash (*Fraxinus americana*), black walnut (*Juglans nigra*), black locust (*Robinia pseudoacacia*), staghorn sumac (*Rhus typhina*), Tatarian honeysuckle (*Lonicera tatarica*), gray dogwood (*Cornus racemosa*), multiflora rose (*Rosa multiflora*), Canada goldenrod (*Solidago canadensis*), Alleghany blackberry (*Rubus alleghaniensis*), wild parsnip (*Pastinoca sativa*), garlic mustard (*Alliaria petiolata*), Virginia creeper (*Parthenocissus quinquefolia*), poison ivy (*Toxicodendron radicans*) and summer grape (*Vitis aestivalis*).

The row crop community dominated the eastern portion of the site and was planted with corn (*Zea sp.*) during the investigation.

Wetland W1 is a 1.93± acre scrub-shrub swamp dominated by red maple (*Acer rubrum*), gray dogwood (*Cormus racemosa*), glossy buckthorn (*Frangula alnus*), calico aster (*Symphyotrichum lateriflorum*) and summer grape (*Vitis aestivalis*). Soils within wetland W1 are mapped as Canandaigua silt loam and had a topsoil color of 10YR3/1 with 5% 10YR5/8 mottles and a subsoil color of 10YR5/1 with 15% 10YR5/8 mottles. The texture is loam and very stony loam. This soil fits the NRCS F3 indicator (Depleted Matrix). Hydrology indicators present in Wetland W1 included Water-Stained Leaves (B9). Wetland W1 continues off-site to the east. It is EDI's professional opinion that Wetland W1 is Federally jurisdictional under the currently applicable post-Rapanos Rule due to a significant nexus to a traditionally navigable water.

Wetland W2 is a 0.25± acre hardwood swamp dominated by eastern cottonwood (*Populus deltoides*), gray dogwood (*Cornus racemosa*), green ash (*Fraxinus pennsylvanica*), Tatarian honeysuckle (*Lonicera tatarica*) and summer grape (*Vitis aestivalis*). Soils within wetland W2 are mapped as Phelps gravelly loam and had a soil color of 10YR3/1. The texture is loam. Hydric soils were not present due to the wetlands being created by historic soil borrow activities, and rock is very shallow (1 inch). Hydrology indicators present in Wetland W2 included Water Marks (B1) and Water-Stained Leaves (B9). Wetland W2 is a closed depressional wetland pocket with no apparent outlet. It is EDI's professional opinion that Wetland W2 is not Federally jurisdictional under the currently applicable post-Rapanos Rule due to lack of a significant nexus to a traditionally navigable water.

Wetland W3 is a 0.94± acre emergent marsh dominated by green ash (*Fraxinus pennsylvanica*), silky dogwood (*Cornus amomum*), Canadian rush (*Juncus canadensis*) and flat-top goldenrod (*Euthamia graminifolia*). Soils within wetland W3 are mapped as Udorthents, smoothed and had a soil color of 10YR5/3 (subsoil). The texture is fine sandy loam. Hydric soils were not present due to the wetlands being created by historic soil borrow activities, and rock is very shallow (5 inches). Hydrology indicators present in Wetland W3 included Water-Stained Leaves (B9). Wetland W3 is a closed depressional wetland pocket with no apparent outlet. It is EDI's professional opinion that Wetland W3 is not Federally jurisdictional under the currently applicable post-Rapanos Rule due to lack of a significant nexus to a traditionally navigable water.

Wetland W4 is a 14.11± acre hardwood swamp dominated by eastern cottonwood (*Populus deltoides*), green ash (*Fraximus pennsylvanica*), European buckthorn (*Rhamnus cathartica*), multiflora rose (*Rosa multiflora*), wrinkleleaf goldenrod (*Solidago rugosa*), sensitive fern (*Onoclea sensibilis*), calico aster (*Symphyotrichum lateriflorum*), jumpseed (*Polygonum virginianum*) and summer grape (*Vitis aestivalis*). Soils within wetland W4 are mapped as Canandaigua silt loam and had a topsoil color of 10YR3/1 with 5% 10YR5/8 mottles and a subsoil color of 10YR4/3-5/4. The texture is loam. This soil fits the NRCS F6 indicator (Redox Dark Surface). Hydrology indicators present in Wetland W4 included Water-Stained Leaves (B9). Wetland W4 continues off-site to the west where it appears to connect with a USGS blueline drainageway off site. The drainageway is an unnamed tributary to Murder Creek, west of the site. It is EDI's professional opinion that Wetland W4 is Federally jurisdictional under the currently applicable post-Rapanos Rule due to a significant nexus to a traditionally navigable water. It is also EDI's professional opinion that wetland W4 is part of Freshwater Wetland CR-31 and is jurisdictional under Article 24 of New York State Conservation Law.

Wetland W5 is a 0.22± acre scrub-shrub swamp dominated by eastern cottonwood (*Populus deltoides*), gray dogwood (*Cornus racemosa*), green ash (*Fraxinus pennsylvanica*), sensitive fern (*Onoclea sensibilis*) and calico aster (*Symphyotrichum lateriflorum*). Soils within wetland W5 are mapped as Canandaigua silt loam and had a topsoil color of 10YR3/1 with 2% 10YR5/8 mottles and a subsoil color of 10YR5/2 with 15% 10YR5/6 mottles. The texture is fine sandy loam. This soil fits the NRCS S5 indicator (Sandy Redox). Hydrology indicators present in Wetland W5 included Water-Stained Leaves (B9). Wetland W5 continues off-site to the west where it appears to connect with a USGS blueline drainageway off site. The drainageway is an unnamed tributary to Murder Creek, west

of the site. It is EDI's professional opinion that Wetland W5 is Federally jurisdictional under the currently applicable post-Rapanos Rule due to a significant nexus to a traditionally navigable water. It is also EDI's professional opinion that wetland W5 is part of Freshwater Wetland CR-31 and is jurisdictional under Article 24 of New York State Conservation Law.

Wetland W6 is a 31.19± acre scrub-shrub swamp dominated by eastern cottonwood (*Populus deltoides*), green ash (*Fraxinus pennsylvanica*), gray dogwood (*Cornus racemosa*), European buckthorn (*Rhamnus cathartica*), fowl mannagrass (*Glyceria striata*), jumpseed (*Polygonum virginianum*), wrinkleleaf goldenrod (*Solidago rugosa*), calico aster (*Symphyotrichum lateriflorum*) and summer grape (*Vitis aestivalis*). Soils within wetland W6 are mapped as Lamson very fine sandy loam and had a topsoil color of 10YR3/1 with 3-7% 10YR5/8 mottles and a subsoil color of 10YR5/1-5/2 with 5-15% 10YR5/6-5/8 mottles. The texture is loam, silt loam and fine sandy loam. Soils within this wetland fit the NRCS S5 indicator (Sandy Redox) and F3 indicator (Depleted Matrix). Hydrology indicators present in Wetland W6 included Water-Stained Leaves (B9). Wetland W6 continues off-site to the west where it appears to connect with a USGS blueline drainageway off site. The drainageway is an unnamed tributary to Murder Creek, west of the site. It is EDI's professional opinion that Wetland W6 is Federally jurisdictional under the currently applicable post-Rapanos Rule due to a significant nexus to a traditionally navigable water. It is also EDI's professional opinion that wetland W6 is part of Freshwater Wetland CR-31 and is jurisdictional under Article 24 of New York State Conservation Law.

Wetland W7 is a 2.94 ± acre hardwood swamp dominated by eastern cottonwood (*Populus deltoides*), silver maple (*Acer saccharinum*), red maple (*Acer rubrum*), green ash (*Fraxinus pennsylvanica*), fowl mannagrass (*Glyceria striata*), shallow sedge (*Carex lurida*), creeping Jenny (*Lysimachia nummularia*) and summer grape (*Vitis aestivalis*). Soils within wetland W7 are mapped as Lamson very fine sandy loam and had a topsoil color of 10YR3/1 with 2% 10YR5/8 mottles and a subsoil color of 10YR5/1 with 7% 10YR5/8 mottles. The texture is loam. This soil fits the NRCS F3 indicator (Depleted matrix). Hydrology indicators present in Wetland W7 included Water Marks (B1) and Water-Stained Leaves (B9). Wetland W7 is a closed wetland pocket created by historic soil borrow activities. It is EDI's professional opinion that Wetland W7 is not Federally jurisdictional under the currently applicable post-Rapanos Rule due to lack of a significant nexus to a traditionally navigable water. It is also EDI's professional opinion that wetland W7 is within 50 meters of

NYSDEC Freshwater Wetland CR-31 and is jurisdictional under Article 24 of New York State Conservation Law.

Wetland W8 is a 0.95± acre hardwood swamp dominated by eastern cottonwood (*Populus deltoides*), green ash (*Fraximus pennsylvanica*), American elm (*Ulmus americana*), fowl mannagrass (*Glyceria striata*) and water plantain (*Alisma subcordatum*). Soils within wetland W8 are mapped as Gravel Pits and had a topsoil color of 10YR2/1 and a subsoil color of 10YR5/1 with 15% 10YR5/6 mottles. The texture is mucky loam and very gravelly loam. This soil fits the NRCS F3 indicator (Depleted matrix). Hydrology indicators present in Wetland W8 included Water Marks (B1) and Water-Stained Leaves (B9). Wetland W8 is a closed wetland pocket created by historic soil borrow activities. It is EDI's professional opinion that Wetland W8 is not Federally jurisdictional under the currently applicable post-Rapanos Rule due to lack of a significant nexus to a traditionally navigable water. It is also EDI's professional opinion that wetland W8 is within 50 meters of NYSDEC Freshwater Wetland CR-31 and is jurisdictional under Article 24 of New York State Conservation Law.

Wetland W9 is a 0.28± acre invasive species marsh dominated by common reed (*Phragmites australis*). Soils within wetland W9 are mapped as Dunkirk silt loam and had a topsoil color of 10YR3/1 with 2% 10YR5/8 mottles and a subsoil color of 10YR5/4. The texture is loam. This soil fits the NRCS F6 indicator (Redox Dark Surface). Hydrology indicators present in Wetland W9 included Water-Stained Leaves (B9). Wetland W9 is a vegetated portion of a roadside ditch. It is EDI's professional opinion that Wetland W9 is not Federally jurisdictional under the currently applicable post-Rapanos Rule due to lack of a significant nexus to a traditionally navigable water.

Wetland W10 is a 0.38± acre invasive species dominated by common reed (*Phragmites australis*). Soils within wetland W10 are mapped as Canandaigua silt loam and had a topsoil color of 10YR3/1 with 3% 10YR5/8 mottles and a subsoil color of 10YR5/1 with 5% 10YR5/8 mottles. The texture is loam. This soil fits the NRCS F3 indicator (Depleted matrix). Hydrology indicators present in Wetland W8 included Water-Stained Leaves (B9). Wetland W10 is a vegetated portion of a roadside ditch that has no apparent connection to a drainageway. It is EDI's professional opinion that Wetland W10 is not Federally jurisdictional under the currently applicable post-Rapanos Rule due to lack of a significant nexus to a traditionally navigable water.

Wetland W11 is a 0.21± acre scrub-shrub swamp dominated by pussy willow (*Salix discolor*), creeping bentgrass (*Agrostis stolonifera*), common boneset (*Eupatorium perfoliatum*) and purple loosestrife (*Lythrum salicaria*). Soils within wetland W11 are mapped as Collamer silt loam and had a topsoil color of 7.5YR3/1 with 5% 7.5YR5/8 mottles and a subsoil color of 7.5YR5/2 with 25% 7.5YR5/6 mottles. The texture is silt loam. This soil fits the NRCS F3 indicator (Depleted Matrix). Hydrology indicators present in Wetland W11 included Water-Stained Leaves (B9). Wetland W11 drains into a man-made excavated ditch which appears to enter wetland W1 in the northern portion of the site. It is EDI's professional opinion that Wetland W11 is Federally jurisdictional under the currently applicable post-Rapanos Rule due to a significant nexus to a traditionally navigable water.

Ditch 1 is a man-made ditch in the northern portion of the site that contained no ordinary high watermark or defined bed/banks. The ditch begins at the north edge of wetland W11 and flows northward into wetland W1. This ephemeral channel is not a stream by NYSDEC standards. The substrate consists of silt, with moderately dense woody vegetation along the edges. Within the project area, Ditch 1 is approximately 2 feet wide with no apparent water present. The ditch has been identified as ephemeral based on the lack of saturation, inundation, or actual flow noted during several field visits. Additionally, no scour marks were noted, a large cottonwood tree is present growing in the middle of the ditch that had no drift marks, and there is dense leaf litter that would have been moved if there was flow in the ditch.

A map which depicts the site boundaries and the location of all observation points established during the field survey is included as Figure 6 in Appendix A of this report. Data forms are included as Appendix B. Appendix C includes representative photographs of the project area. Appendix D notes the references used during the preparation of this report and during the field investigation. Appendix E provides the names, addresses and phone numbers of the survey personnel involved in the wetland delineation study.

#### SECTION VI: RECOMMENDATIONS

Eleven (11) wetland areas and one (1) ditch were identified during the course of a field investigation based upon the three parameter technique (vegetation, soils, and hydrology) outlined in the Corps Manual and Northcentral and Northeast Regional Supplement. It is EDI's professional opinion that all wetlands identified are regulated by the USACE under Section 404 of the Clean Water Act. It is also EDI's opinion that wetlands W4, W5, W6, W7 and W8 are part of Freshwater Wetland CR-31 and would be regulated by NYSDEC under Article 24 of the New York Conservation Law. USACE and NYSDEC approach their regulatory analyses by first considering avoidance of wetlands and minimization of wetland losses. EDI recommends the following:

- (1) Submit this report to USACE and NYSDEC with a request for a wetland boundary confirmation and jurisdictional determination.
- (2) If no impacts are proposed to federal or state regulated wetlands or state regulated 100-foot adjacent area based on the outcome of the jurisdictional determination, it is the professional opinion of EDI that the project may proceed without the need for Section 404 or Article 24 Permits.
- (3) If any NYSDEC regulated upland adjacent area or federal or state jurisdictional wetland impacts are proposed, it is EDI's recommendation that a Joint Application for Permit and supporting documentation be submitted to the USACE and NYSDEC with a request for a Section 404 Permit, Section 401 Water Quality Certification and/or an Article 24 Permit.

## **NWC RTE 5 & RTE 77**

APPENDIX A - FIGURES

NWC Rte 5 & Rte 77

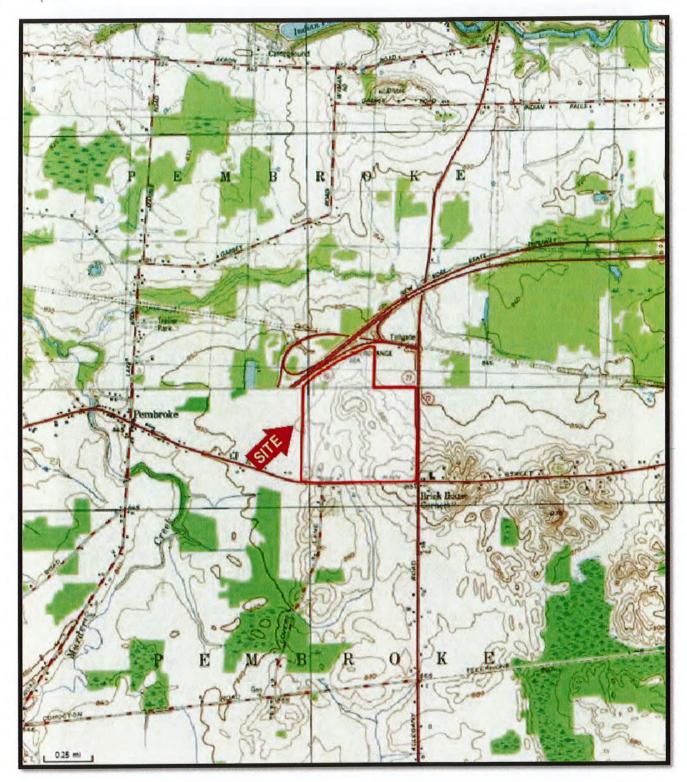


FIGURE 1: USGS 7.5 MINUTE TOPOGRAPHICAL MAP

Corfu Quadrangle / U.S. Geological Survey

NWC Route 5 & Route 77

Town of Pembroke, Genesee County, New York



W29108c



FIGURE 2: NATIONAL WETLANDS INVENTORY MAP

http://www.fws.gov/wetlands/data/mapper.HTML (Visited 9-2-22)

NWC Route 5 & Route 77

Town of Pembroke, Genesee County, New York



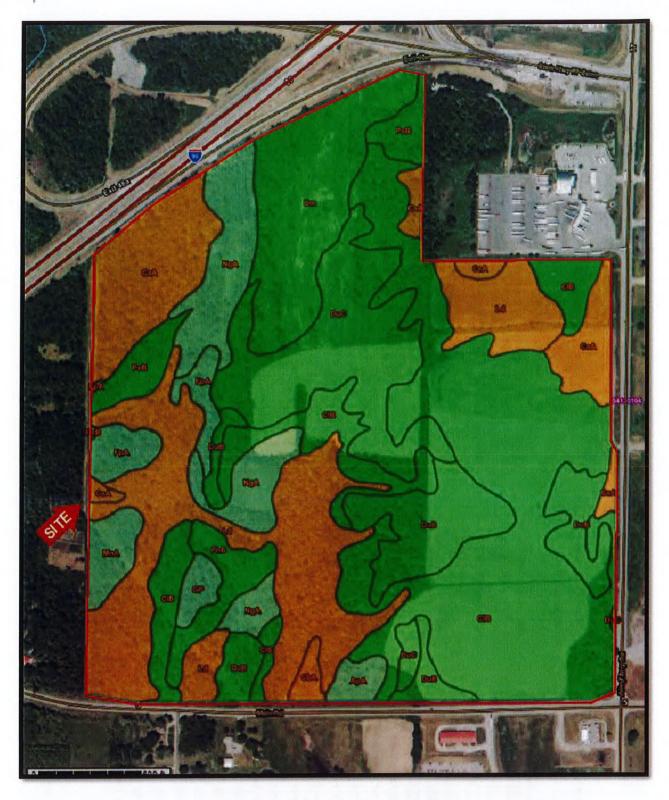


FIGURE 3: NRCS SOIL SURVEY MAP

http://websoilsurvey.sc.egov.usda.gov/App/WebSoilSurvey.aspx (Visited 9-2-22)

NWC Route 5 & Route 77

Town of Pembroke, Genesee County, New York



#### MAP LEGEND MAP INFORMATION Area of Interest (AOI) 8-Digit Hydrologic Units The soil surveys that comprise your AOI were mapped at Area of Interest (AOI) 1:24,000. Transportation Soils Rails Warning: Soil Map may not be valid at this scale. Soil Rating Polygons Interstate Highways Enlargement of maps beyond the scale of mapping can cause Hydric (100%) misunderstanding of the detail of mapping and accuracy of soil **US Routes** Hydric (66 to 99%) line placement. The maps do not show the small areas of Major Roads contrasting soils that could have been shown at a more detailed Hydric (33 to 65%) scale. Local Roads Hydric (1 to 32%) Please rely on the bar scale on each map sheet for map Background Not Hydric (0%) measurements. Aerial Photography Not rated or not available Source of Map: Natural Resources Conservation Service Web Soil Survey URL: Soil Rating Lines Coordinate System: Web Mercator (EPSG:3857) Hydric (100%) Maps from the Web Soil Survey are based on the Web Mercator Hydric (66 to 99%) projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Hydric (33 to 65%) Albers equal-area conic projection, should be used if more Hydric (1 to 32%) accurate calculations of distance or area are required. Not Hydric (0%) This product is generated from the USDA-NRCS certified data as of the version date(s) listed below. Not rated or not available Soil Survey Area: Genesee County, New York Soil Rating Points Survey Area Data: Version 22, Aug 29, 2021 Hydric (100%) Soil map units are labeled (as space allows) for map scales Hydric (66 to 99%) 1:50,000 or larger. Hydric (33 to 65%) Date(s) aerial images were photographed: Jun 15, 2020—Jun Hydric (1 to 32%) 17, 2020 Not Hydric (0%) The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background Not rated or not available 100 imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident. **Water Features** Streams and Canals

### **Hydric Rating by Map Unit**

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
ApA	Appleton silt loam, 0 to 3 percent slopes	4	1.6	0.8%
CaA	Canandaigua silt loam, 0 to 2 percent slopes	95	17.8	8.5%
CbA	Canandiagua mucky silt loam, 0 to 2 percent slopes	95	1.1	0.5%
CIB	Collamer silt loam, 2 to 6 percent slopes	0	64.7	30.8%
DuB	Dunkirk silt loam, 2 to 6 percent slopes	0	17.5	8.4%
DuC	Dunkirk silt loam, 6 to 12 percent slopes	0	21.3	10.1%
FpA	Fredon gravelly loam, 0 to 3 percent slopes	10	4.4	2.1%
GP	Gravel pits	5	1.6	0.8%
Ld	Lamson very fine sandy loam	90	36.8	17.5%
MnA	Minoa very fine sandy loam, 0 to 2 percent slopes	5	3.0	1.5%
NgA	Niagara silt loam, 0 to 2 percent slopes	5	13.8	6.6%
PhB	Palmyra gravelly loam, 3 to 8 percent slopes	0	4.2	2.0%
PsB	Phelps gravelly loam, 3 to 8 percent slopes	0	5.0	2.4%
Um	Udorthents, smoothed	0	17.1	8.1%
Totals for Area of Inter	rest	L	210.1	100.0%



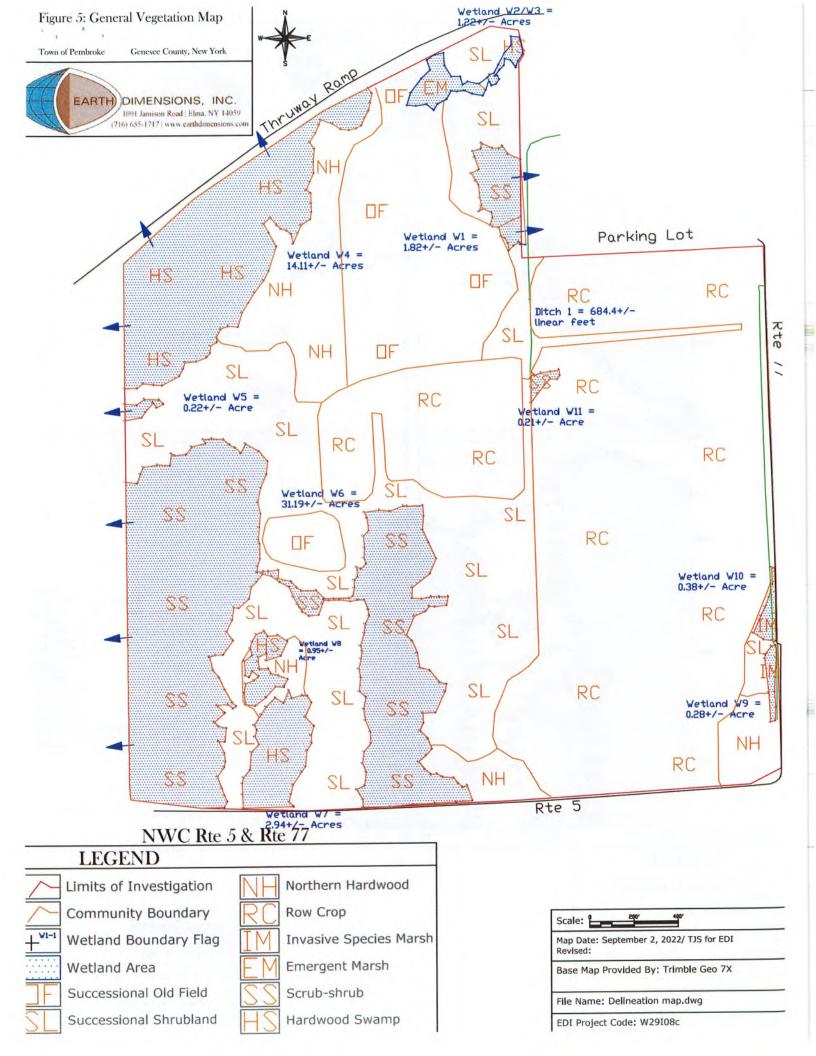
FIGURE 4: NYSDEC ENVIRONMENTAL RESOURCE MAPPER

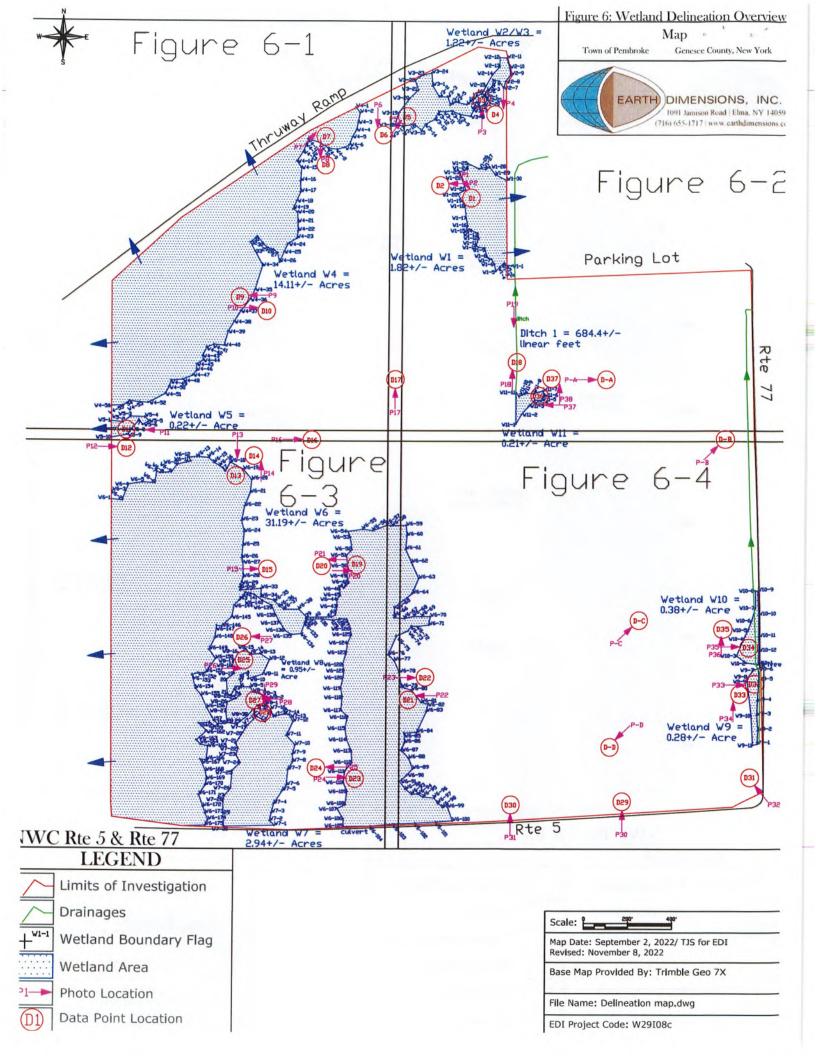
https://gisservices.dec.ny.gov/gis/erm/ (Visited 9-2-22)

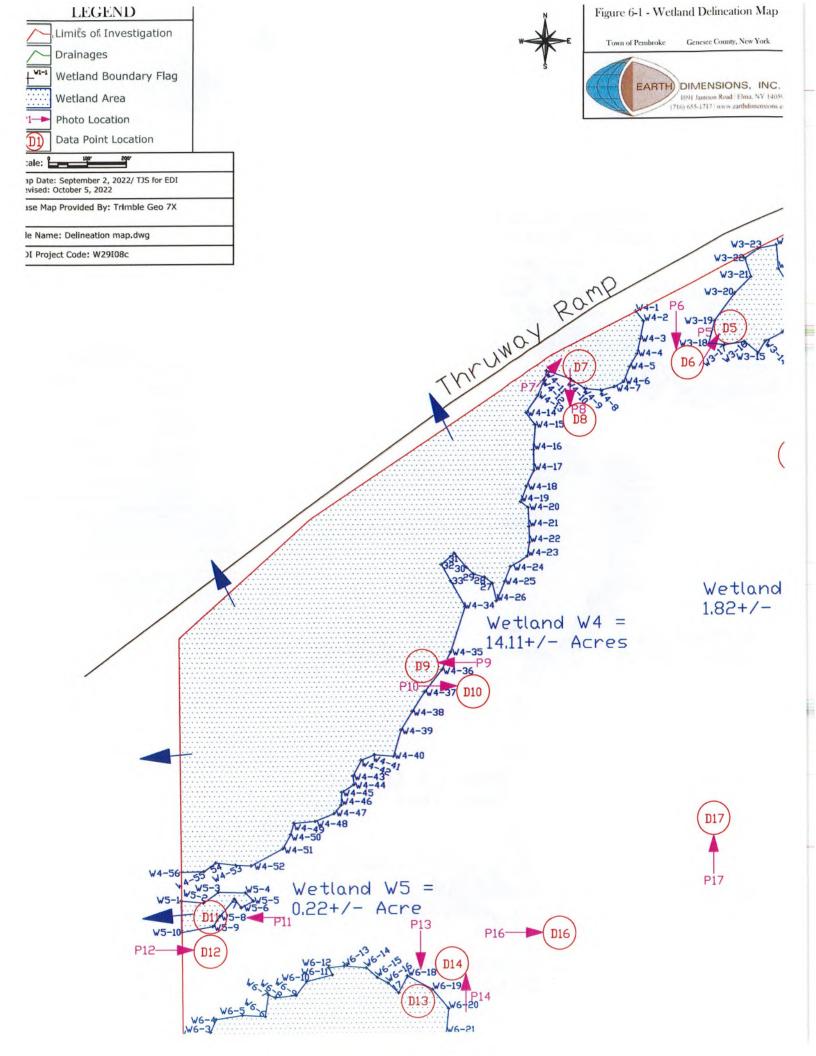
NWC Route 5 & Route 77

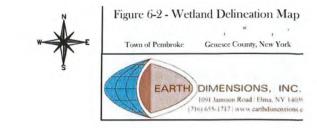
Town of Pembroke, Genesee County, New York

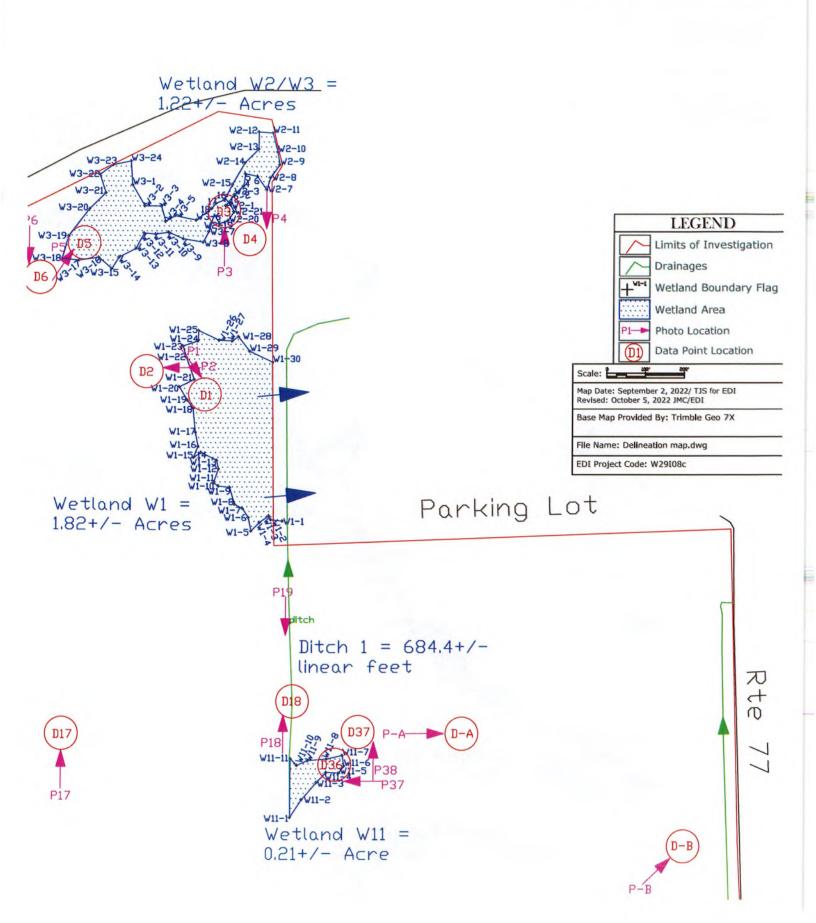














**LEGEND** 

Drainages

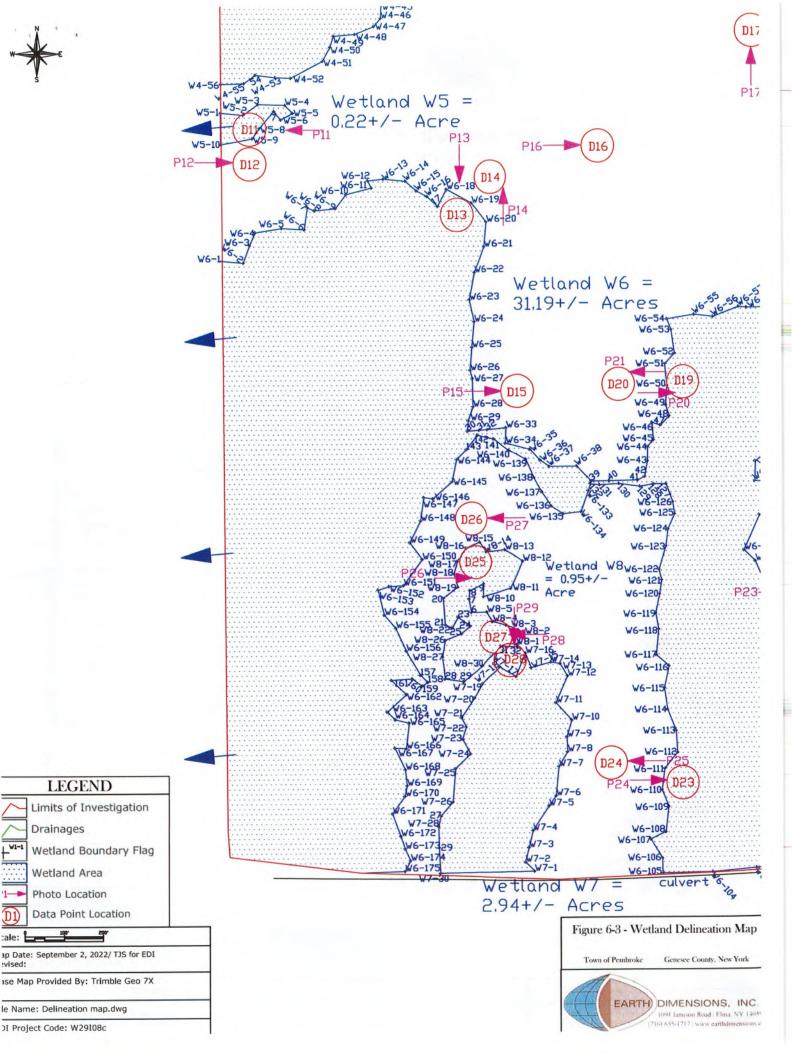
Wetland Area

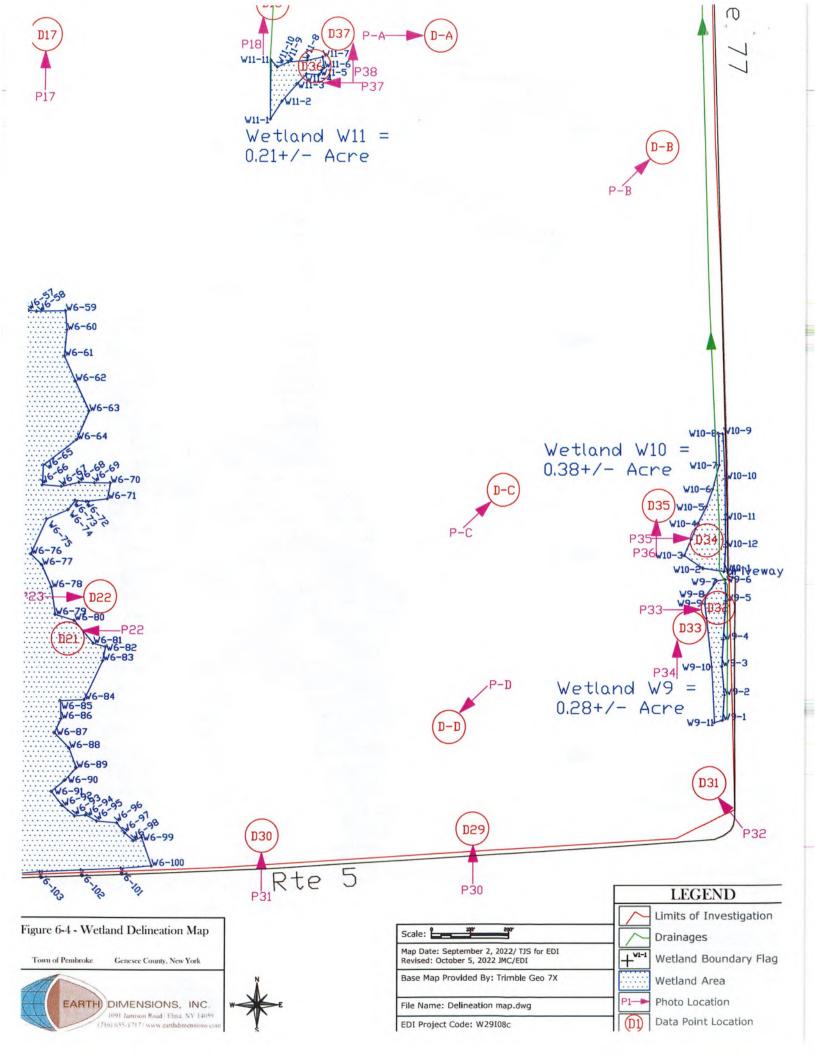
**Photo Location** 

le Name: Delineation map.dwg

OI Project Code: W29I08c

cale: E





NWC Rte 5 & Rte 77



FIGURE 7: DRAINAGE MAP

https://streamstats.usgs.gov/ss/ (Visited 9-2-22)

NWC Route 5 & Route 77

Town of Pembroke, Genesee County, New York





FIGURE 8: SITE AERIAL PHOTOGRAPH

https://www.arcgis.com/apps/webappviewer/index.html (Visited 9-2-22)

NWC Route 5 & Route 77

Town of Pembroke, Genesee County, New York



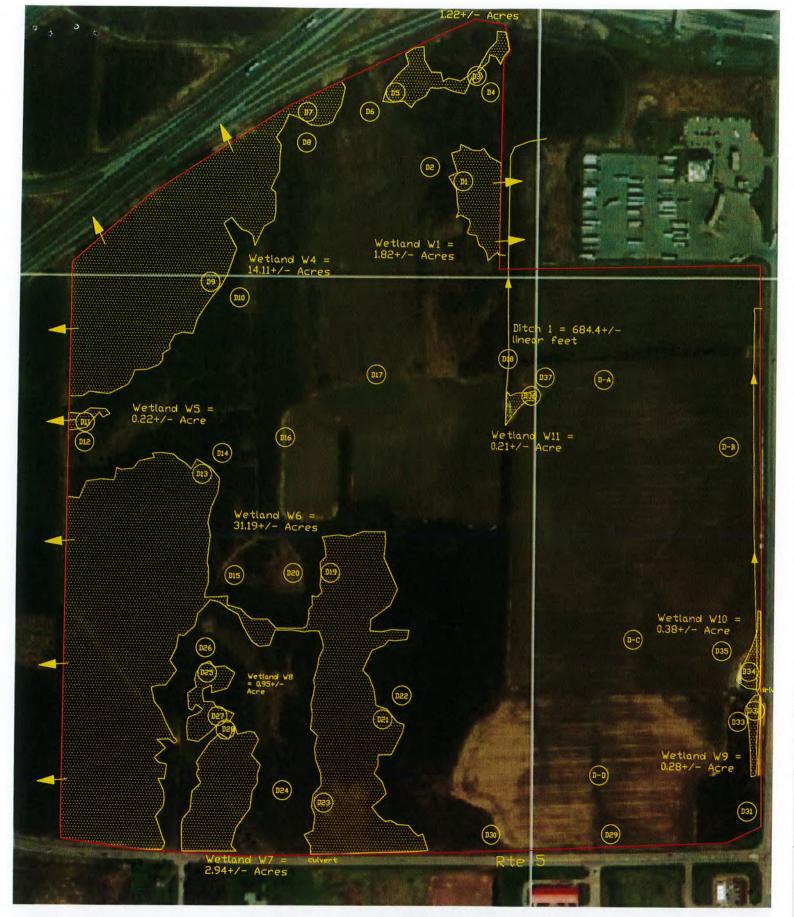


Figure 9: Aerial Photo With Wetlands

https://www.arcgis.com/apps/webappviewer/index.html (Visited 9/2/22)
NWC Route 5 and Route 77
Town of Pembroke, Genesee County, New York



http://websoilsurvey.sc.egov.usda.gov/App/WebSoilSurvey.aspx (Visited 9/2/22)

NWC Route 5 and Route 77

Town of Pembroke, Genesee County, New York

# **NWC RTE 5 & RTE 77**

APPENDIX B - DATA SHEETS

Project Code: W29108c

#### WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: NWC Route 5 & Route 77 Town/County: Pembroke/Genesee County Sampling Date: 0,19,2622
Applicant/Owner: Geis Construction State: New York Sampling Point:
Investigator(s): Scott Livingstone & Tom Somerville Section, Township, Range: 151-24.1
Landform (hillslope, terrace, etc.): <u>DEPCESSON</u> Local relief (concave, convex, none): <u>C6NCAVE</u> Slope (% ): <u>U</u>
Subregion (LRR or MLRA) LRRL Lat: Long: Datum: NAD83
Soil Map Unit Name: CANANDAIGUA SELT. LOAM, 0-21, STOPESNW I classification: PSS
Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly disturbed?
Are Vegetation, Soil, or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS: Attach site map showing sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No Is the Sampled Area
Hydric Soil Present? Yes X No within a Wetland? Yes No
Wetland Hydrology Present?  Yes X No If yes, optional Wetland Site ID:
Remarks: (Explain alternative procedures here or in a separate report.)
€ W1-1-3 W1-30 (OPEN)
N. J. C.
* DENZE
HYDROLOGY A CONTROL OF THE PROPERTY OF THE PRO
Wetland Hydrology Indicators: Secondary Indicators (minimum of two required
Primary Indicators (minimum of one is required; check all that apply)  Surface Soil Cracks (B6)
Surface Water (A1) Drainage Patterns (B10) Drainage Patterns (B10)
High Water Table (A2)
Saturation (A3) Marl Deposits (B15) Dry-Season W ater Table (C2)
Water Marks (B1)
Oxidized Rilizosphieres on Elving Roots (C3) Saturation Visible on Aerial Imagery (C3) Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Geomorphic Position (D2)
Iron Deposits (B5) Thin Muck Surface (C7) Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8) FAC-Neutral Test (D5)
Field Observations:
Surface Water Present? Yes No Depth (inches):
Water Table Present? Yes No Depth (inches):
Saturation Present? Yes No Depth (inches): Wetland Hydrology Present? YesX No
(includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
Describe Necolded Data (Stream gauge, monitoring work, acrial process, provides inspections), in available.
Remarks:

Sampling Point: D

= To	tal Co	ver FAC FAC FAC FAC FAC	FACU species  UPL species  Column Totals:  Prevalence Index =    Hydrophytic Vegetation I  1 - Rapid Test for Hyd  2 - Dominance Test is  3 - Prevalence Index  4 - Morphological Adal data in Remarks or  Problematic Hydrophy  Indicators of hydric soil ar be present, unless disturb	FAC:t  t  cles FAC: heet:  x1 = x2 = x3 = x4 = x5 = (A)  B/A = Indicator rophytic \ >50% is < 3.0¹ ptations¹ r on a sep tic Vegeta and wetlan ed or pro	rs: Vegetation (Provide superate sheetation (Explant)	(B)
_ = To	dial Co	Ver FAC FAC FAC FAC	Species Across All Strata:  Percent of Dominant Specification of Prevalence Index works!  Total % Cover of:  OBL species  FACW species  FACU species  UPL species  Column Totals:  Prevalence Index = 1  Hydrophytic Vegetation I  1 - Rapid Test for Hyd  2 - Dominance Test is  3 - Prevalence Index  4 - Morphological Adal data in Remarks of Problematic Hydrophy  Indicators of hydric soil ar be present, unless disturb	heet:	Multiply by:  Service of the service	(A/B)
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_ = To	tal Co	PAC FAC PAC PAC FAC FAC	That Are OBL, FACW, or  Prevalence Index works!	FAC:	Multiply by:  Second of the se	(B)
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= To		FAC FAC FAC FAC	FACW species FAC species FAC species FACU species UPL species Column Totals:  Prevalence Index = I  Hydrophytic Vegetation I  1 - Rapid Test for Hyd  2 - Dominance Test is  3 - Prevalence Index  4 - Morphological Adal data in Remarks of Problematic Hydrophy  Indicators of hydric soil ar be present, unless disturb	x 1 =     x 2 =     x 3 =     x 4 =     x 5 =     (A)  B/A = Indicator rophytic \ >50% is < 3.0¹ ptations¹ r on a sep tic Vegeta and wetlan ed or pro	rs: Vegetation (Provide superate sheetation (Explant)	(B)
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	ttal Cc	FAC FAC FAC FAC	FACU species UPL species Column Totals:  Prevalence Index = I  Hydrophytic Vegetation I  1 - Rapid Test for Hyd  2 - Dominance Test is  3 - Prevalence Index  4 - Morphological Adal data in Remarks of memory of the present, unless disturb	x 4 = x 5 = (A)  B/A = Indicator rophytic \ >50% is < 3.0¹ ptations¹ r on a sep tic Vegeta and wetlan ed or pro	Provide superate shee ation (Expl	(B)
	ttal Cc	FAC FAC FAC	UPL species	x 5 = (A)  B/A = Indicator rophytic \ >50% is < 3.0¹ ptations¹ r on a septic Vegetand wetlanded or pro	rs: Vegetation (Provide superate sheetation (Explant)	upporting
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	J 	Fre	1Indicators of hydric soil ar be present, unless disturb	nd wetlan ed or pro	nd hydrolog	
			be present, unless disturb	ed or pro		y must
					blematic.	
			The state of the s	C4		
			Definitions of Vegetation	Strata:		
			Tree - Woody plants 3 in. (			ameter
			at breast height (DBH), re	gardless	of height.	
					than 3 in. Di	ЗН
			and greater than 3.28 ft (1	m) tall.		
			Herb - All herbaceous (nor	n-woody)	plants, reg	ardless
				vines grea	ater than 3.	28 ft in
Total C	over		Troight.			
V	50					
		100	Community Type: Servi	by the	nb Sua	WO.
			Community Type: Con-	2 011.	DC( 70	2
			Hydrophytic		133 F	5
			Present? Yes_	Z N	No	
_ = To	al Co	ver				
_		maxa				
o Sout	h					
	Total C  Y  = Total	Total Cover  Y Fe  = Total Co	_ = Total Cover	and greater than 3.28 ft (1  Herb - All herbaceous (nor of size, and woody plants  Woody vines - All woody height.  Total Cover  Community Type: Scroll  Hydrophytic Vegetation Present? Yes	and greater than 3.28 ft (1 m) tall.  Herb - All herbaceous (non-woody) of size, and woody plants less than Woody vines - All woody vines gre height.  Total Cover  Community Type: Savb Shirt Vegetation Present? Yes K	and greater than 3.28 ft (1 m) tall.  Herb - All herbaceous (non-woody) plants, reg of size, and woody plants less than 3.28 ft tall  Woody vines - All woody vines greater than 3. height.  Total Cover  Community Type: Scrib Shab Swa Hydrophytic Vegetation Present? Yes No

Problem Control (National Control (National Control Control (National Control Control Control Control Control Control Control (National Control Contro	)IL								Sampling Point:
Color (moist)	rofile Desc	ription: (Describe t	o the depth	n needed to docume	nt the ind	licator or	confirm t	he absence of it	ndicators.)
Concentration   Concentratio			- 0/				1002	Toyture	Demarks
Solid   Day R 5   Solid   Da	inches)	Color (moist)		Coloi (moist)	70	Туре	LOC	Texture	Nemans
ype: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.  rdric Soil Indicators:    Histosol (A1)	0-5	104R3/1	95		5	C	M	l	o parazza de la companya de la comp
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dric Soil Indicators:    Histosol (A1)	to the second second	THE RESERVE THE PROPERTY OF TH	-	establishmente mente printer schedungen soort m	***************************************	***************************************	Paragraphic	***************************************	
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Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B)  dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  Strictive Layer (if observed): Type: Type: Hydric Soil Present? Yes X No	Histic E Black H Hydrog Stratifie Deplete Thick D	Epipedon (A2) Histic (A3) Jen Sulfide (A4) Jed Layers (A5) Jed Below Dark Surface Dark Surface (A12)	э (А11)	MLRA 149B Thin Dark Si Loamy Muck Loamy Gley Depleted Ma Redox Dark	B) urface (S9) ky Mineral ( red Matrix (I atrix (F3) Surface (F	(LRR R, (F1) (LRR F2)	MLRA 149	B) Coast I 5 cm M Dark S Polyva Thin Da Iron-Ma	Prairie Redox (A16) (LRR K, L, R)  **Mucky Peat or Peat (S3) (LRR K, L, R)  **urface (S7) (LRR K, L, M)  **lue Below Surface (S8) (LRR K, L)  **ark Surface (S9) (LRR K, L)  **anganese Masses (F12) (LRR K, L, R)
dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  Strictive Layer (if observed):  Type:	Histic E Black H Hydrog Stratifie Deplete Thick D Sandy Sandy	Epipedon (A2) Histic (A3) Hen Sulfide (A4) Hed Layers (A5) Hed Below Dark Surface Hed Surface (A12) Hucky Mineral (S1) Gleyed Matrix (S4)	э (А11)	MLRA 149B Thin Dark S Loamy Muck Loamy Gley Depleted Ma Redox Dark Depleted Da	B) urface (S9) ky Mineral ( ed Matrix (I atrix (F3) Surface (F ark Surface	(LRR R, 1 (F1) (LRR F2) (6) (F7)	MLRA 149	Coast I  S cm N  Dark S  Polyva  Thin Da  Iron-Ma  Piedma  Mesic S	Prairie Redox (A16) (LRR K, L, R)  Mucky Peat or Peat (S3) (LRR K, L, R)  Murface (S7) (LRR K, L, M)  Mue Below Surface (S8) (LRR K, L)  Mark Surface (S9) (MLRA 144A, 145, 149E
Strictive Layer (if observed):  Type:	Histic E Black F Hydrog Stratifie Deplete Thick D Sandy Sandy Sandy	Epipedon (A2) Histic (A3) Histic (A3) Histic (A4) Histic (A5) Histic (A5) Histic (A5) Histic (A5) Histic (A12) Histic (A12	e (A11)	MLRA 149B Thin Dark S Loamy Muck Loamy Gley Depleted Ma Redox Dark Depleted Da	B) urface (S9) ky Mineral ( ed Matrix (I atrix (F3) Surface (F ark Surface	(LRR R, 1 (F1) (LRR F2) (6) (F7)	MLRA 149	Coast I  5 cm N  Dark S  Polyva  Thin Dark  Iron-Ma  Piedma  Mesic S  Red Pa	Prairie Redox (A16) (LRR K, L, R)  Mucky Peat or Peat (S3) (LRR K, L, R)  Jurface (S7) (LRR K, L, M)  Jurface (S8) (LRR K, L)  Jurface (S9) (MLRA 144A, 145, 149E  Jurface (TA6) (MLRA 144A, 145, 149E  Jurface (LTA6) (MLRA 144A, 145)
Strictive Layer (if observed):  Type:	Histic E Black H Hydrog Stratifie Deplete Thick D Sandy Sandy Sandy Strippe	Epipedon (A2) Histic (A3) Histic (A3) Hen Sulfide (A4) Hed Layers (A5) Hed Below Dark Surface History Hucky Mineral (S1) History Histo		MLRA 149B Thin Dark Si Loamy Muck Loamy Gley Depleted Ma Redox Dark Depleted Da Redox Depr	B) urface (S9) ky Mineral ( ed Matrix (I atrix (F3) Surface (F ark Surface	(LRR R, 1 (F1) (LRR F2) (6) (F7)	MLRA 149	Coast I  5 cm N  Dark S  Polyva  Thin Di  Iron-Ma  Piedma  Mesic S  Red Pa  Very S	Prairie Redox (A16) (LRR K, L, R) Mucky Peat or Peat (S3) (LRR K, L, R) Murface (S7) (LRR K, L, M) Mue Below Surface (S8) (LRR K, L) Ark Surface (S9) (LRR K, L) Anganese Masses (F12) (LRR K, L, R) Ont Floodplain Soils (F19) (MLRA 149 Spodic (TA6) (MLRA 144A, 145, 149 Brarent Material (TF2) hallow Dark Surface (TF12)
Strictive Layer (if observed):  Type:	Histic E Black H Hydrog Stratifie Deplete Thick D Sandy Sandy Sandy Strippe	Epipedon (A2) Histic (A3) Histic (A3) Hen Sulfide (A4) Hed Layers (A5) Hed Below Dark Surface History Hucky Mineral (S1) History Histo		MLRA 149B Thin Dark Si Loamy Muck Loamy Gley Depleted Ma Redox Dark Depleted Da Redox Depr	B) urface (S9) ky Mineral ( ed Matrix (I atrix (F3) Surface (F ark Surface	(LRR R, 1 (F1) (LRR F2) (6) (F7)	MLRA 149	Coast I  5 cm N  Dark S  Polyva  Thin Di  Iron-Ma  Piedma  Mesic S  Red Pa  Very S	Prairie Redox (A16) (LRR K, L, R) Mucky Peat or Peat (S3) (LRR K, L, R) Murface (S7) (LRR K, L, M) Mue Below Surface (S8) (LRR K, L) Ark Surface (S9) (LRR K, L) Anganese Masses (F12) (LRR K, L, R) Ont Floodplain Soils (F19) (MLRA 149 Spodic (TA6) (MLRA 144A, 145, 149 Brarent Material (TF2) hallow Dark Surface (TF12)
Depth (inches):	Histic E Black H Hydrog Stratifie Deplete Thick Sandy Sandy Sandy Strippe Dark Si	Epipedon (A2) Histic (A3) Histic (A3) Histic (A4) Histic (A5) Histic (A5) Histic (A5) Histic (A5) Histic (A5) Histic (A6) Hist	/ILRA 149B)	MLRA 149B Thin Dark Si Loamy Muck Loamy Gley Depleted Ma Redox Dark Depleted Da Redox Depr	3) urface (S9) ky Mineral ( ed Matrix (I atrix (F3) Surface (F ark Surface essions (F8)	(LRR R, (F1) (LRR F2) (6) (F7) 8)	MLRA 149 K, L)	Coast I  5 cm N  Dark S  Polyva  Thin Da  Iron-Ma  Piedma  Mesic S  Red Pa  Very S  Other (	Prairie Redox (A16) (LRR K, L, R) Mucky Peat or Peat (S3) (LRR K, L, R) Murface (S7) (LRR K, L, M) Mue Below Surface (S8) (LRR K, L) Ark Surface (S9) (LRR K, L) Anganese Masses (F12) (LRR K, L, R) Ont Floodplain Soils (F19) (MLRA 149 Spodic (TA6) (MLRA 144A, 145, 149 Brarent Material (TF2) hallow Dark Surface (TF12)
	Histic E Black H Hydrog Stratifie Deplete Thick E Sandy Sandy Strippe Dark So	Epipedon (A2) Histic (A3) Histic (A3) Hen Sulfide (A4) Hed Layers (A5) Hed Layers (A5) Hed Layers (A5) Hed Layers (A12) Hucky Mineral (S1) Hucky Mineral (S1) Hedox (S5) Hedox (S5) Hedox (S6) Hedox (S7) (LRR R, N) Hydrophytic vegetation Hydrophytic vegetation Hydrophytic vegetation Hydrophytic vegetation Hydrophytic vegetation	ILRA 149B)	MLRA 149B Thin Dark Si Loamy Muck Loamy Gley Depleted Ma Redox Dark Depleted Da Redox Depr	3) urface (S9) ky Mineral ( ed Matrix (I atrix (F3) Surface (F ark Surface essions (F8)	(LRR R, (F1) (LRR F2) (6) (F7) 8)	MLRA 149 K, L)	Coast I  5 cm N  Dark S  Polyva  Thin Da  Iron-Ma  Piedma  Mesic S  Red Pa  Very S  Other (	Prairie Redox (A16) (LRR K, L, R) Mucky Peat or Peat (S3) (LRR K, L, R) Murface (S7) (LRR K, L, M) Mue Below Surface (S8) (LRR K, L) Ark Surface (S9) (LRR K, L) Anganese Masses (F12) (LRR K, L, R) Ont Floodplain Soils (F19) (MLRA 149 Spodic (TA6) (MLRA 144A, 145, 149 Brarent Material (TF2) hallow Dark Surface (TF12)
marks:	Histic E Black H Hydrog Stratific Deplete Thick D Sandy Sandy Sandy Strippe Dark So	Epipedon (A2) Histic (A3) Histic (A3) Hen Sulfide (A4) Hed Layers (A5) Hed Layers (A5) Hed Layers (A5) Hed Layers (A12) Hucky Mineral (S1) Hucky Mineral (S1) Hedox (S5) Hedox (S5) Hedox (S6) Hedox (S7) (LRR R, N) Hydrophytic vegetation Hydrophytic vegetation Hydrophytic vegetation Hydrophytic vegetation Hydrophytic vegetation	ILRA 149B)	MLRA 149B Thin Dark Si Loamy Muck Loamy Gley Depleted Ma Redox Dark Depleted Da Redox Depr	3) urface (S9) ky Mineral ( ed Matrix (I atrix (F3) Surface (F ark Surface essions (F8)	(LRR R, (F1) (LRR F2) (6) (F7) 8)	MLRA 149 K, L)	Coast I 5 cm M Dark S Polyvai Thin D Iron-Ma Piedmo Mesic S Red Pa Very S Other (	Prairie Redox (A16) (LRR K, L, R)  Mucky Peat or Peat (S3) (LRR K, L, R)  Murface (S7) (LRR K, L, M)  Iue Below Surface (S8) (LRR K, L)  ark Surface (S9) (LRR K, L)  anganese Masses (F12) (LRR K, L, R)  ont Floodplain Soils (F19) (MLRA 149  Spodic (TA6) (MLRA 144A, 145, 149  arent Material (TF2)  hallow Dark Surface (TF12)  [Explain in Remarks)
	Histic E Black H Hydrog Stratific Deplete Thick D Sandy Sandy Strippe Dark So  dicators of  strictive La Type: Depth (incl	Epipedon (A2) Histic (A3) Histic (A3) Hen Sulfide (A4) Hed Layers (A5) Hed Layers (A5) Hed Layers (A5) Hed Layers (A5) Hed Layers (A12) Hucky Mineral (S1) Hedox (S5) Hedox (S5) Hedox (S6) Hurface (S7) (LRR R, N) Hydrophytic vegetation Hydrophytic vegetation Hydrophytic vegetation	ILRA 149B)	MLRA 149B Thin Dark Si Loamy Muck Loamy Gley Depleted Ma Redox Dark Depleted Da Redox Depr	3) urface (S9) ky Mineral ( ed Matrix (I atrix (F3) Surface (F ark Surface essions (F8)	(LRR R, (F1) (LRR F2) (6) (F7) 8)	MLRA 149 K, L)	Coast I 5 cm M Dark S Polyvai Thin D Iron-Ma Piedmo Mesic S Red Pa Very S Other (	Prairie Redox (A16) (LRR K, L, R)  Mucky Peat or Peat (S3) (LRR K, L, R)  Murface (S7) (LRR K, L, M)  Iue Below Surface (S8) (LRR K, L)  ark Surface (S9) (LRR K, L)  anganese Masses (F12) (LRR K, L, R)  ont Floodplain Soils (F19) (MLRA 149  Spodic (TA6) (MLRA 144A, 145, 149  arent Material (TF2)  hallow Dark Surface (TF12)  [Explain in Remarks)
	Histic E Black H Hydrog Stratific Deplete Thick D Sandy Sandy Strippe Dark So  dicators of  strictive La Type: Depth (incl	Epipedon (A2) Histic (A3) Histic (A3) Hen Sulfide (A4) Hed Layers (A5) Hed Layers (A5) Hed Layers (A5) Hed Layers (A5) Hed Layers (A12) Hucky Mineral (S1) Hedox (S5) Hedox (S5) Hedox (S6) Hurface (S7) (LRR R, N) Hydrophytic vegetation Hydrophytic vegetation Hydrophytic vegetation	ILRA 149B)	MLRA 149B Thin Dark Si Loamy Muck Loamy Gley Depleted Ma Redox Dark Depleted Da Redox Depr	3) urface (S9) ky Mineral ( ed Matrix (I atrix (F3) Surface (F ark Surface essions (F8)	(LRR R, (F1) (LRR F2) (6) (F7) 8)	MLRA 149 K, L)	Coast I 5 cm M Dark S Polyvai Thin D Iron-Ma Piedmo Mesic S Red Pa Very S Other (	Prairie Redox (A16) (LRR K, L, R)  Mucky Peat or Peat (S3) (LRR K, L, R)  Murface (S7) (LRR K, L, M)  Iue Below Surface (S8) (LRR K, L)  ark Surface (S9) (LRR K, L)  anganese Masses (F12) (LRR K, L, R)  ont Floodplain Soils (F19) (MLRA 149  Spodic (TA6) (MLRA 144A, 145, 149  arent Material (TF2)  hallow Dark Surface (TF12)  [Explain in Remarks)
	Histic E Black H Hydrog Stratific Deplete Thick D Sandy Sandy Strippe Dark So  dicators of  strictive La Type: Depth (incl	Epipedon (A2) Histic (A3) Histic (A3) Hen Sulfide (A4) Hed Layers (A5) Hed Layers (A5) Hed Layers (A5) Hed Layers (A5) Hed Layers (A12) Hucky Mineral (S1) Hedox (S5) Hedox (S5) Hedox (S6) Hurface (S7) (LRR R, N) Hydrophytic vegetation Hydrophytic vegetation Hydrophytic vegetation	ILRA 149B)	MLRA 149B Thin Dark Si Loamy Muck Loamy Gley Depleted Ma Redox Dark Depleted Da Redox Depr	3) urface (S9) ky Mineral ( ed Matrix (I atrix (F3) Surface (F ark Surface essions (F8)	(LRR R, (F1) (LRR F2) (6) (F7) 8)	MLRA 149 K, L)	Coast I 5 cm M Dark S Polyvai Thin D Iron-Ma Piedmo Mesic S Red Pa Very S Other (	Prairie Redox (A16) (LRR K, L, R)  Mucky Peat or Peat (S3) (LRR K, L, R)  Murface (S7) (LRR K, L, M)  Iue Below Surface (S8) (LRR K, L)  Iark Surface (S9) (LRR K, L)  Iarganese Masses (F12) (LRR K, L, R)  Iarganese Masses (F12) (MLRA 149)  Spodic (TA6) (MLRA 144A, 145, 149)  Iarent Material (TF2)  hallow Dark Surface (TF12)  [Explain in Remarks)
	Histic E Black H Hydrog Stratific Deplete Thick D Sandy Sandy Sandy Strippe Dark So  dicators of  strictive La Type: Depth (incl	Epipedon (A2) Histic (A3) Histic (A3) Hen Sulfide (A4) Hed Layers (A5) Hed Layers (A5) Hed Layers (A5) Hed Layers (A5) Hed Layers (A12) Hucky Mineral (S1) Hedox (S5) Hedox (S5) Hedox (S6) Hurface (S7) (LRR R, N) Hydrophytic vegetation Hydrophytic vegetation Hydrophytic vegetation	ILRA 149B)	MLRA 149B Thin Dark Si Loamy Muck Loamy Gley Depleted Ma Redox Dark Depleted Da Redox Depr	3) urface (S9) ky Mineral ( ed Matrix (I atrix (F3) Surface (F ark Surface essions (F8)	(LRR R, (F1) (LRR F2) (6) (F7) 8)	MLRA 149 K, L)	Coast I 5 cm M Dark S Polyvai Thin D Iron-Ma Piedmo Mesic S Red Pa Very S Other (	Prairie Redox (A16) (LRR K, L, R)  Mucky Peat or Peat (S3) (LRR K, L, R)  Murface (S7) (LRR K, L, M)  Iue Below Surface (S8) (LRR K, L)  anganese Masses (F12) (LRR K, L, E)  anganese Masses (F12) (LRR K, L, F)  ont Floodplain Soils (F19) (MLRA 148  Spodic (TA6) (MLRA 144A, 145, 149  arent Material (TF2)  hallow Dark Surface (TF12)  [Explain in Remarks)
	Histic E Black H Hydrog Stratific Deplete Thick D Sandy Sandy Sandy Strippe Dark So  dicators of  strictive La Type: Depth (incl	Epipedon (A2) Histic (A3) Histic (A3) Hen Sulfide (A4) Hed Layers (A5) Hed Layers (A5) Hed Layers (A5) Hed Layers (A5) Hed Layers (A12) Hucky Mineral (S1) Hedox (S5) Hedox (S5) Hedox (S6) Hurface (S7) (LRR R, N) Hydrophytic vegetation Hydrophytic vegetation Hydrophytic vegetation	ILRA 149B)	MLRA 149B Thin Dark Si Loamy Muck Loamy Gley Depleted Ma Redox Dark Depleted Da Redox Depr	3) urface (S9) ky Mineral ( ed Matrix (I atrix (F3) Surface (F ark Surface essions (F8)	(LRR R, (F1) (LRR F2) (6) (F7) 8)	MLRA 149 K, L)	Coast I 5 cm M Dark S Polyvai Thin D Iron-Ma Piedmo Mesic S Red Pa Very S Other (	Prairie Redox (A16) (LRR K, L, R)  Mucky Peat or Peat (S3) (LRR K, L, R)  Murface (S7) (LRR K, L, M)  Iue Below Surface (S8) (LRR K, L)  anganese Masses (F12) (LRR K, L, E)  anganese Masses (F12) (LRR K, L, F)  ont Floodplain Soils (F19) (MLRA 149)  Spodic (TA6) (MLRA 144A, 145, 149)  arent Material (TF2)  hallow Dark Surface (TF12)  [Explain in Remarks)
	Histic E Black H Hydrog Stratific Deplete Thick D Sandy Sandy Sandy Strippe Dark So  dicators of  strictive La Type: Depth (incl	Epipedon (A2) Histic (A3) Histic (A3) Hen Sulfide (A4) Hed Layers (A5) Hed Layers (A5) Hed Layers (A5) Hed Layers (A5) Hed Layers (A12) Hucky Mineral (S1) Hedox (S5) Hedox (S5) Hedox (S6) Hurface (S7) (LRR R, N) Hydrophytic vegetation Hydrophytic vegetation Hydrophytic vegetation	ILRA 149B)	MLRA 149B Thin Dark Si Loamy Muck Loamy Gley Depleted Ma Redox Dark Depleted Da Redox Depr	3) urface (S9) ky Mineral ( ed Matrix (I atrix (F3) Surface (F ark Surface essions (F8)	(LRR R, (F1) (LRR F2) (6) (F7) 8)	MLRA 149 K, L)	Coast I 5 cm M Dark S Polyvai Thin D Iron-Ma Piedmo Mesic S Red Pa Very S Other (	Prairie Redox (A16) (LRR K, L, R)  Mucky Peat or Peat (S3) (LRR K, L, R)  Murface (S7) (LRR K, L, M)  Iue Below Surface (S8) (LRR K, L)  Iark Surface (S9) (LRR K, L)  Iarganese Masses (F12) (LRR K, L, R)  Iarganese Masses (F12) (MLRA 149)  Spodic (TA6) (MLRA 144A, 145, 149)  Iarent Material (TF2)  hallow Dark Surface (TF12)  [Explain in Remarks)
	Histic E Black H Hydrog Stratific Deplete Thick D Sandy Sandy Strippe Dark So  dicators of  strictive La Type: Depth (incl	Epipedon (A2) Histic (A3) Histic (A3) Hen Sulfide (A4) Hed Layers (A5) Hed Layers (A5) Hed Layers (A5) Hed Layers (A5) Hed Layers (A12) Hucky Mineral (S1) Hedox (S5) Hedox (S5) Hedox (S6) Hurface (S7) (LRR R, N) Hydrophytic vegetation Hydrophytic vegetation Hydrophytic vegetation	ILRA 149B)	MLRA 149B Thin Dark Si Loamy Muck Loamy Gley Depleted Ma Redox Dark Depleted Da Redox Depr	3) urface (S9) ky Mineral ( ed Matrix (I atrix (F3) Surface (F ark Surface essions (F8)	(LRR R, (F1) (LRR F2) (6) (F7) 8)	MLRA 149 K, L)	Coast I 5 cm M Dark S Polyvai Thin D Iron-Ma Piedmo Mesic S Red Pa Very S Other (	Prairie Redox (A16) (LRR K, L, R)  Mucky Peat or Peat (S3) (LRR K, L, R)  Murface (S7) (LRR K, L, M)  Iue Below Surface (S8) (LRR K, L)  ark Surface (S9) (LRR K, L)  anganese Masses (F12) (LRR K, L, R)  ont Floodplain Soils (F19) (MLRA 149  Spodic (TA6) (MLRA 144A, 145, 149  arent Material (TF2)  hallow Dark Surface (TF12)  [Explain in Remarks)
	Histic E Black H Hydrog Stratific Deplete Thick D Sandy Sandy Sandy Strippe Dark So  dicators of  strictive La Type: Depth (incl	Epipedon (A2) Histic (A3) Histic (A3) Hen Sulfide (A4) Hed Layers (A5) Hed Layers (A5) Hed Layers (A5) Hed Layers (A5) Hed Layers (A12) Hucky Mineral (S1) Hedox (S5) Hedox (S5) Hedox (S6) Hurface (S7) (LRR R, N) Hydrophytic vegetation Hydrophytic vegetation Hydrophytic vegetation	ILRA 149B)	MLRA 149B Thin Dark Si Loamy Muck Loamy Gley Depleted Ma Redox Dark Depleted Da Redox Depr	3) urface (S9) ky Mineral ( ed Matrix (I atrix (F3) Surface (F ark Surface essions (F8)	(LRR R, (F1) (LRR F2) (6) (F7) 8)	MLRA 149 K, L)	Coast I 5 cm M Dark S Polyvai Thin D Iron-Ma Piedmo Mesic S Red Pa Very S Other (	Prairie Redox (A16) (LRR K, L, R)  Mucky Peat or Peat (S3) (LRR K, L, R)  Murface (S7) (LRR K, L, M)  Iue Below Surface (S8) (LRR K, L)  ark Surface (S9) (LRR K, L)  anganese Masses (F12) (LRR K, L, R)  ont Floodplain Soils (F19) (MLRA 149  Spodic (TA6) (MLRA 144A, 145, 149  arent Material (TF2)  hallow Dark Surface (TF12)  [Explain in Remarks)
	Histic E Black H Hydrog Stratific Deplete Thick D Sandy Sandy Strippe Dark So  dicators of  strictive La Type: Depth (incl	Epipedon (A2) Histic (A3) Histic (A3) Hen Sulfide (A4) Hed Layers (A5) Hed Layers (A5) Hed Layers (A5) Hed Layers (A5) Hed Layers (A12) Hucky Mineral (S1) Hedox (S5) Hedox (S5) Hedox (S6) Hurface (S7) (LRR R, N) Hydrophytic vegetation Hydrophytic vegetation Hydrophytic vegetation	ILRA 149B)	MLRA 149B Thin Dark Si Loamy Muck Loamy Gley Depleted Ma Redox Dark Depleted Da Redox Depr	3) urface (S9) ky Mineral ( ed Matrix (I atrix (F3) Surface (F ark Surface essions (F8)	(LRR R, (F1) (LRR F2) (6) (F7) 8)	MLRA 149 K, L)	Coast I 5 cm M Dark S Polyvai Thin D Iron-Ma Piedmo Mesic S Red Pa Very S Other (	Prairie Redox (A16) (LRR K, L, R)  Mucky Peat or Peat (S3) (LRR K, L, R)  Murface (S7) (LRR K, L, M)  Iue Below Surface (S8) (LRR K, L)  ark Surface (S9) (LRR K, L)  anganese Masses (F12) (LRR K, L, R)  ont Floodplain Soils (F19) (MLRA 149  Spodic (TA6) (MLRA 144A, 145, 149  arent Material (TF2)  hallow Dark Surface (TF12)  [Explain in Remarks)
·	Histic E Black H Hydrog Stratific Deplete Thick D Sandy Sandy Strippe Dark So  dicators of  strictive La Type: Depth (incl	Epipedon (A2) Histic (A3) Histic (A3) Hen Sulfide (A4) Hed Layers (A5) Hed Layers (A5) Hed Layers (A5) Hed Layers (A5) Hed Layers (A12) Hucky Mineral (S1) Hedox (S5) Hedox (S5) Hedox (S6) Hurface (S7) (LRR R, N) Hydrophytic vegetation Hydrophytic vegetation Hydrophytic vegetation	ILRA 149B)	MLRA 149B Thin Dark Si Loamy Muck Loamy Gley Depleted Ma Redox Dark Depleted Da Redox Depr	3) urface (S9) ky Mineral ( ed Matrix (I atrix (F3) Surface (F ark Surface essions (F8)	(LRR R, (F1) (LRR F2) (6) (F7) 8)	MLRA 149 K, L)	Coast I 5 cm M Dark S Polyvai Thin D Iron-Ma Piedmo Mesic S Red Pa Very S Other (	Prairie Redox (A16) (LRR K, L, R)  Mucky Peat or Peat (S3) (LRR K, L, R)  Murface (S7) (LRR K, L, M)  Iue Below Surface (S8) (LRR K, L)  ark Surface (S9) (LRR K, L)  anganese Masses (F12) (LRR K, L, R)  ont Floodplain Soils (F19) (MLRA 149  Spodic (TA6) (MLRA 144A, 145, 149  arent Material (TF2)  hallow Dark Surface (TF12)  [Explain in Remarks)
	Histic E Black H Hydrog Stratific Deplete Thick D Sandy Sandy Sandy Strippe Dark So  dicators of  strictive La Type: Depth (incl	Epipedon (A2) Histic (A3) Histic (A3) Hen Sulfide (A4) Hed Layers (A5) Hed Layers (A5) Hed Layers (A5) Hed Layers (A5) Hed Layers (A12) Hucky Mineral (S1) Hedox (S5) Hedox (S5) Hedox (S6) Hurface (S7) (LRR R, N) Hydrophytic vegetation Hydrophytic vegetation Hydrophytic vegetation	ILRA 149B)	MLRA 149B Thin Dark Si Loamy Muck Loamy Gley Depleted Ma Redox Dark Depleted Da Redox Depr	3) urface (S9) ky Mineral ( ed Matrix (I atrix (F3) Surface (F ark Surface essions (F8)	(LRR R, (F1) (LRR F2) (6) (F7) 8)	MLRA 149 K, L)	Coast I 5 cm M Dark S Polyvai Thin D Iron-Ma Piedmo Mesic S Red Pa Very S Other (	Prairie Redox (A16) (LRR K, L, R)  Mucky Peat or Peat (S3) (LRR K, L, R)  Murface (S7) (LRR K, L, M)  Iue Below Surface (S8) (LRR K, L)  ark Surface (S9) (LRR K, L)  anganese Masses (F12) (LRR K, L, R)  ont Floodplain Soils (F19) (MLRA 149  Spodic (TA6) (MLRA 144A, 145, 149  arent Material (TF2)  hallow Dark Surface (TF12)  [Explain in Remarks)

Project Code: W29108c

### WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Analisant/O	S COULD // IUWII/	County Pembroke/Genesee C	County Comming Date	0.19.1011	
Applicant/Owner: Geis Co	onstruction	County: Pembroke/Genesee C		20	
		State. New 10	<u>JIK</u>	Sampling Point: <u>DZ</u>	
Landform (hillslope, terrace	ato VI AVI DI	rville Sect	ion, Township, Range:1	51-24.1	
Subragion (I DD 14 DA)	s, etc.): LM LC FI	Local relief (concave, co	onvex, none): LON V	5.1-24.1 EX Slope (%): 5	
Subregion (LRR or MLRA) Soil Map Unit Name:	LRRL Lat:	STIT LOAM ?	Long:	Datum: NAD83	
Are climatic / hydrologic cor	nditions on the site to	minutes the state of the	NW NW	1 classification:	
Are Vegetation, Soil	or Hydrology	pical for this time of year? Yes	No (If no,	explain in Remarks.) al Circumstances" present? Yes	
Are Vegetation, Soil	, or Hydrolog	y naturally problematic	? (If needed, explain any	answers in Remarks.)	No
		howing sampling point locat			
Hydrophytic Vegetation Pr	and the same	No_X	Is the Sampled Area		
Hydric Soil Present?	Yes	No X	within a Wetland?	Yes No X	
Wetland Hydrology Present		No		. 1 1 -	
Remarks: (Explain alterna		or in a separate report	If yes, optional Wetland Si	te ID:	
HYDROLOGY  Wetland Hydrology Indications  Primary Indicators (minimumature)  Surface Water (A1)  High Water Table (A2)		Water-Stained Leaves (		Secondary Indicators (minimum of two re Surface Soil Cracks (B6) Drainage Pattems (B10)	quired)
Saturation (A3)		Aquatic Fauna (B13)	_	_ Moss Trim Lines (B16)	
Water Marks (B1)		Marl Deposits (B15)	-	Dry-Season W ater Table (C2)	
Sediment Deposits (B2)	)	Hydrogen Sulfide Odor		_ Crayfish Burrows (C8)	
Drift Deposits (B3)		<ul> <li>Oxidized Rhizospheres</li> <li>Presence of Reduced Ir</li> </ul>		Saturation Visible on Aerial Imagery (C	9)
Alas Mater Court (D4)		Recent Iron Reduction i		Stunted or Stressed Plants (D1)	
Algai Wat or Crust (B4)		Thin Muck Surface (C7)		Geomorphic Position (D2)	
Algal Mat or Crust (B4) Iron Deposits (B5)			-	_ Shallow Aquitard (D3)	
Iron Deposits (B5)	erial Imagery (B7)	Other (Exhlain in Rem:			
Iron Deposits (B5) Inundation Visible on A	Aerial Imagery (B7)	Other (Explain in Rema	arks)	Microtopographic Relief (D4)	9
Iron Deposits (B5) Inundation Visible on A Sparsely Vegetated Co	Aerial Imagery (B7) oncave Surface (B8)	Other (Explain in Rema	arks)	_ Microtopographic Relief (D4) _ FAC-Neutral Test (D5)	
Iron Deposits (B5) Inundation Visible on A Sparsely Vegetated Co Field Observations:	oncave Surface (B8)	V	//A		
Iron Deposits (B5) Inundation Visible on A Sparsely Vegetated Co Field Observations: Surface Water Present?	Yes No _	Depth (inches):	//A /A		Ten-tona vining
Iron Deposits (B5) Inundation Visible on A Sparsely Vegetated Co Field Observations: Surface Water Present? Water Table Present? Saturation Present?	Yes No _	Depth (inches):  Depth (inches):	// <sub>A</sub> /A	FAC-Neutral Test (D5)	
Iron Deposits (B5) Inundation Visible on A Sparsely Vegetated Co Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe)	Yes No _ Yes No _ Yes No _	Depth (inches):  Depth (inches):  Depth (inches):	//A /A /A Wetland Hydi	rology Present? Yes No	
Iron Deposits (B5) Inundation Visible on A Sparsely Vegetated Co Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe)	Yes No _ Yes No _ Yes No _	Depth (inches):  Depth (inches):	//A /A /A Wetland Hydi	rology Present? Yes No	
Iron Deposits (B5) Inundation Visible on A Sparsely Vegetated Co Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe)	Yes No _ Yes No _ Yes No _	Depth (inches):  Depth (inches):  Depth (inches):	//A /A /A Wetland Hydi	rology Present? Yes No	
Iron Deposits (B5) Inundation Visible on A Sparsely Vegetated Co Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (str	Yes No _ Yes No _ Yes No _	Depth (inches):  Depth (inches):  Depth (inches):	//A /A /A Wetland Hydi	rology Present? Yes No	
Iron Deposits (B5) Inundation Visible on A Sparsely Vegetated Co Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (str	Yes No _ Yes No _ Yes No _	Depth (inches):  Depth (inches):  Depth (inches):	//A /A /A Wetland Hydi	rology Present? Yes No	
Iron Deposits (B5) Inundation Visible on A Sparsely Vegetated Co Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (str	Yes No _ Yes No _ Yes No _	Depth (inches):  Depth (inches):  Depth (inches):	//A /A /A Wetland Hydi	rology Present? Yes No	
Iron Deposits (B5) Inundation Visible on A Sparsely Vegetated Co Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (str	Yes No _ Yes No _ Yes No _	Depth (inches):  Depth (inches):  Depth (inches):	//A /A /A Wetland Hydi	rology Present? Yes No	
Iron Deposits (B5) Inundation Visible on A Sparsely Vegetated Co Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (str	Yes No _ Yes No _ Yes No _	Depth (inches):  Depth (inches):  Depth (inches):	//A /A /A Wetland Hydi	rology Present? Yes No	
Iron Deposits (B5) Inundation Visible on A Sparsely Vegetated Co Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (str	Yes No _ Yes No _ Yes No _	Depth (inches):  Depth (inches):  Depth (inches):	//A /A /A Wetland Hydi	rology Present? Yes No	
Iron Deposits (B5) Inundation Visible on A Sparsely Vegetated Co Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (str	Yes No _ Yes No _ Yes No _	Depth (inches):  Depth (inches):  Depth (inches):	//A /A /A Wetland Hydi	rology Present? Yes No	
Iron Deposits (B5) Inundation Visible on A Sparsely Vegetated Co Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (str	Yes No _ Yes No _ Yes No _	Depth (inches):  Depth (inches):  Depth (inches):	//A /A /A Wetland Hydi	rology Present? Yes No	
Iron Deposits (B5) Inundation Visible on A Sparsely Vegetated Co Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (str	Yes No _ Yes No _ Yes No _	Depth (inches):  Depth (inches):  Depth (inches):	//A /A /A Wetland Hydi	rology Present? Yes No	
Iron Deposits (B5) Inundation Visible on A Sparsely Vegetated Co Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (str	Yes No _ Yes No _ Yes No _	Depth (inches):  Depth (inches):  Depth (inches):	//A /A /A Wetland Hydi	rology Present? Yes No	
Iron Deposits (B5) Inundation Visible on A Sparsely Vegetated Co Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe)	Yes No _ Yes No _ Yes No _	Depth (inches):  Depth (inches):  Depth (inches):	//A /A /A Wetland Hydi	rology Present? Yes No	

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epth Matrix	r to the depti		ox Features	r confirm to	ie absence of indicato	ors.)
nches) Color (moist)	%	Color (moist)	% Type <sup>1</sup>	Loc²	Texture	Remarks
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be: C=Concentration, D=Dep	eletion, RM=R	educed Matrix, CS=0	Covered or Coated	Sand Grain	s. <sup>2</sup> Location: PL=	Pore Lining, M=Matrix.
Iric Soil Indicators:					Indicators for Pr	oblematic Hydric Soils <sup>3</sup>
_ Histosol (A1)		Polyvalue Be	low Surface (S8) (L	RR R.	2 cm Muck (A1	0) (LRR K, L, MLRA 149E
_ Histic Epipedon (A2) _ Black Histic (A3)		MLRA 149B)			Coast Prairie F	Redox (A16) (LRR K. L. R)
Hydrogen Sulfide (A4)		Loamy Mucky	rface (S9) (LRR R, I Mineral (F1) (LRR	MLRA 149B)	Dark Surface (	eat or Peat (S3) (LRR K, L, S7) (LRR K, L, M)
Stratified Layers (A5)  Depleted Below Dark Surface	ce (A11)	Loamy Gleye _ Depleted Mat	d Matrix (F2)		Polyvalue Belo	w Surface (S8) (LRR K, L)
Thick Dark Surface (A12)	~ (////)	Redox Dark S	Surface (F6)		Iron-Manganes	ace (S9) (LRR K, L) se Masses (F12) (LRR K, L
Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4)		Depleted Dark Redox Depres	k Surface (F7) ssions (F8)		Piedmont Floor	dplain Soils (F19) (MLRA 1 TA6) (MLRA 144A, 145, 1
Sandy Redox (S5) Stripped Matrix (S6)					Red Parent Ma	iterial (TF2)
Dark Surface (S7) (LRR R, M	WLRA 149B)				Other (Explain	Park Surface (TF12) in Remarks)
						W- 1023-21*
cators of hydrophytic vegetation	n and wetland	hydrology must be pre	esent, unless disturt	ed or proble	matic.	
rictive Layer (if observed):	A STATE OF THE PARTY OF THE PAR		MOSA MILLAND HER SHARE HE SHAR			
ype: None						
epth (inches):	A			-	Hydric Soil Present?	Yes No _X
arks:	-					7

Project/Site: NWC Route 5 & Route 77 Town/County: Pembroke/Genesee County Sa	ampling Date: 8.14.2022
Applicant/Owner: Geis Construction State: New York	Sampling Point: D3
	p, Range:151-24.1
Landform (hillslope, terrace, etc.): DEPRESSIGN Local relief (concave, convex, none)	CONICA JE Stone (%): 0
Soil Map Unit Name: PHELPS GRAVELLY LOAM, 3-8/65	LOPESNW I classification: PFO
Are climatic / hydrologic conditions on the site typical for this time of year? Yes No	
Are Vegetation, Soil, or Hydrology significantly disturbed?	Are "Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology naturally problematic? (If needed	d, explain any answers in Remarks.)
SUMMARY OF FINDINGS: Attach site map showing sampling point locations, transc	ects, important features, etc.
Hydrophytic Vegetation Present? Yes No Is the Sam	pled Area
Hydric Soil Present? Yes No 🗶 within a W	
Hydric Soil Present?  Yes No within a W Wetland Hydrology Present?  Yes No lifves optic	onal Wetland Site ID: WZ
Remarks: (Explain alternative procedures here or in a separate report.)	viai vectarid Site ID. 100 72
1.1117 1 - 117 21 10/16/10 / TEAL ATI	~N
·WZ-1-> WZ-21 (CLOSED/ISOL ATE	-0)
CONSTRUCTION OF MYS THRUMAY	7550CIATEN WITH
OUT BORROW FIT TREJUNION	77 0 27 7 0 9
CONSTRUCTION OF NYS THRUWAY	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) Water-Stained Leaves (B9)	Drainage Patterns (B10)
High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)
Saturation (A3) Marl Deposits (B15)	Dry-Season W ater Table (C2)
Water Marks (B1) — 14" — Hydrogen Sulfide Odor (C1)	Crayfish Burrows (C8)
Sediment Deposits (B2)  Oxidized Rhizospheres on Living I	마이트 마이트 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1
Drift Deposits (B3) Presence of Reduced Iron (C4) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soi	Stunted or Stressed Plants (D1)
Iron Deposits (B5) Thin Muck Surface (C7) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks)	Shallow Aquitard (D3)
Sparsely Vegetated Concave Surface (B8)	Microtopographic Relief (D4) FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No _X Depth (inches):	
Water Table Present? Yes No Depth (inches): N/A	
Saturation Present? Yes No _X Depth (inches):	Wetland Hydrology Present? Yes No
Saturation Present? Yes No Depth (inches):/A	
Saturation Present? Yes No _X Depth (inches):	
Saturation Present? Yes No Depth (inches):A (includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspection	
Saturation Present? Yes No Depth (inches):/A	
Saturation Present? Yes No Depth (inches):A	
Saturation Present? Yes No Depth (inches):A	
Saturation Present? Yes No Depth (inches):A	
Saturation Present? Yes No Depth (inches):A (includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspection	
Saturation Present? Yes No Depth (inches):A (includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspection	
Saturation Present? Yes No Depth (inches):A (includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspection	
Saturation Present? Yes No Depth (inches):A (includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspection	
Saturation Present? Yes No Depth (inches):A	

VEGETATION: Use scientific names of plants.		Sampling Point: D3
Tree Stratum (Plot size: 30')  1. Reput & del toides	Absolute Dominant Indicator <u>% Cover Species? Status</u> 70 Y FAC	Dominance Test worksheet:  Number of Dominant Species That Are OBL, FACW, or FAC:
2	,	That Are OBL, FACW, or FAC:  Total Number of Dominant Species Across All Strata:  (A)  (B)
<b>4 5</b>		Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
6 7		Prevalence Index worksheet:
Sapling/Shrub Stratum (Plot size: 15'	_)	OBL species x 1 = FACW species x 2 = FAC species x 3 =
2. Frais pernsylvanica 3. Loni cere tetarica	12 Y FACW	FACU species x 4 = UPL species x 5 =
4. CXNS amonum	5 N FACW	Column Totals: (A) (B)  Prevalence Index = B/A =
5 3		Hydrophytic Vegetation Indicators:  1 - Rapid Test for Hydrophytic Vegetation
7	<u> 42</u> = Total Cover	2 - Dominance Test is >50%  3 - Prevalence Index is < 3.01
Herb Stratum (Plot size: 5')  Frachus pennsylvanica	6 Y Frew	4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
Apocynum Cannabinum		Problematic Hydrophytic Vegetation¹ (Explain)  Indicators of hydric soil and wetland hydrology must
		be present, unless disturbed or problematic.  Definitions of Vegetation Strata:
		Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
		Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
0		Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
2	= Total Cover	Woody vines - All woody vines greater than 3.28 ft in height.
Vitis arstivatis	15 Y FACU	No. 1 . 1 . C
		Community Type: Hard wood Swamp  Hydrophytic PF02B
	5 = Total Cover	Vegetation Present? Yes No
emarks: (Include photo numbers here or on a separa Photo # Dire	te sheet.)	
	Wolfand WZ	

Project Code: W29108c Sampling Point: SOIL Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Matrix Redox Features (inches) Color (moist) Remarks Color (moist) Type Loc Texture 0-1" JOYR 3/1 100 <sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup>Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: Indicators for Problematic Hydric Soils3: Histosol (A1) Histic Epipedon (A2) 2 cm Muck (A10) (LRR K, L, MLRA 149B) Polyvalue Below Surface (S8) (LRR R, Coast Prairie Redox (A16) (LRR K, L, R) MLRA 149B) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (LRR K, L) Dark Surface (S7) (LRR K, L, M) Loamy Gleyed Matrix (F2) Depleted Matrix (F3) Stratified Layers (A5) Polyvalue Below Surface (S8) (LRR K, L) Depleted Below Dark Surface (A11) Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, R)
Piedmont Floodplain Soils (F19) (MLRA 149B) Thick Dark Surface (A12) Redox Dark Surface (F6) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (TF2) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) Dark Surface (S7) (LRR R, MLRA 149B) <sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): BEDROC Type: Hydric Soil Present? Yes Depth (inches): Remarks:

Project/Site: NWC Route 5	5 & Route 77 Town/County:	Pembroke/Genesee (	County Compline Date:	2019.7	227
Applicant/Owner: Geis Co	nstruction	State: New Y			NU
Investigator(s): Scott Living				Sampling Point:	07
Landform (hillslone, terrace	, etc.): OUTWASH Plai	Sec	tion, Township, Range:1		- cong
Subragion (I DD as MI DA)	, etc.). (10/00/1/1/11/11/11/11/11/11/11/11/11/11/	ocal relief (concave, c	onvex, none):	Slope (%	): <u></u> _
Sublegion (LRR of MLRA)	LRRL Lat:		_ Long:	Dat	um: NAD83
Soil Map Unit Name:	elps Gravelly	y LOAM, 3	-8% SLOPESNW	I classification:	NA
Are climatic / hydrologic con	nditions on the site typical for	this time of year? Yes	No (If no.	explain in Remarks )	
Are Vegetation, Soil	, or Hydrology s	significantly disturbed?		al Circumstances" prese	
Are Vegetation, Soil	, or Hydrology	naturally problematic	? (If needed explain any	ancivors in Remarks	ent? Yes No
	: Attach site map showing				
Hydrophytic Vegetation Pre					
Hydric Soil Present?			Is the Sampled Area within a Wetland?	Vac Na	~
Wetland Hydrology Present	Yes			Yes No	<del>\( \)</del>
	Yes tive procedures here or in a s	NO 7	If yes, optional Wetland Si	te ID:	/A
HYDROLOGY  Wetland Hydrology Indica  Primary Indicators (minimun	ators: m of one is required; check all	I that apply)			minimum of two required)
Surface Water (A1)				_ Surface Soil Cracks (	B6)
High Water Table (A2)		Vater-Stained Leaves (	(B9)	_ Drainage Patterns (B	10)
Saturation (A3)		quatic Fauna (B13)	-	_ Moss Trim Lines (B16	
Water Marks (B1)		larl Deposits (B15) ydrogen Sulfide Odor	(C1)	_ Dry-Season W ater Ta	
Sediment Deposits (B2)			on Living Roots (C3)	_ Crayfish Burrows (C8	A
Drift Deposits (B3)	Pi	resence of Reduced I	ron (C4)	Saturation Visible on Stunted or Stressed F	
Algal Mat or Crust (B4)		ecent Iron Reduction		Geomorphic Position	
Iron Deposits (B5)	Th	nin Muck Surface (C7)		Shallow Aquitard (D3	
Inundation Visible on A	erial Imagery (B7) Of	ther (Explain in Rema	arks)	Microtopographic Reli	
Sparsely Vegetated Co	ncave Surface (B8)		_	FAC-Neutral Test (D5	
Surface Water Present?	X	•	10		
Water Table Present?	Yes No De		1/4		
Saturation Present?	Yes No De		1/4		
includes capillary fringe)	Yes No De			rology Present? Yes	NoX
Describe Recorded Data (stre	eam gauge, monitoring well,	aerial photos, previou	is inspections), if available:		
Remarks:					
					1

Remarks: (Include photo numbers here or on a separate sheet.)

Photo # P4

Direction of Photo Sath

- very dense shows

Profile Description	(Docoribe t	a 4b - 1	- 1.1/					Point: DY
Depth M	(Describe t latrix	the depth			r confirm t	he absence of indicato	ors.)	
	or (moist)	%	Color (moist)	dox Features % Type <sup>1</sup>	Loc²	Texture	Rema	irks
0-5 101	184/3	100				VSTI		
5-11 10>	125/4	100			-	VSTX	THE PARTY OF THE P	
	1			-		V// A		***************************************
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AND STATE OF THE S	-	**************	To The Proposition of the Party	Proposition and the second				
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The second second	A CONTRACTOR OF THE PARTY OF TH	TOTAL STREET, ST		THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER.	-	THE STATE OF THE S		
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The state of the s		-			-	The second control of the second of the seco	71-11-11-17-1	
				***	-			
/pe: C=Concentration	n, D=Deple	tion, RM=R	educed Matrix, CS=	Covered or Coated	Sand Grain			
	•					Indicators for Pro	oblematic H	ydric Soils <sup>3</sup> :
Histosol (A1) Histic Epipedon (/	A2)		— Polyvalue Be MLRA 149B	elow Surface (S8) (L	RR R,	2 cm Muck (A1 Coast Prairie R	0) (LRR K, L,	MLRA 149B)
<ul><li>Black Histic (A3)</li><li>Hydrogen Sulfide</li></ul>			Thin Dark St	irface (S9) (LRR R.	MLRA 149B	) 5 cm Mucky Pe	at or Peat (S:	3) (LRR K. L. R)
Stratified Layers ( Depleted Below D	A5)		Loamy Gleye	y Mineral (F1) (LRR ed Matrix (F2)	( K, L)	Dark Surface (S Polyvalue Belov	w Surface (S8	3) (LRR K, L)
Thick Dark Surfac	e (A12)	(A11)	Depleted Ma Redox Dark	Surface (F6)		Thin Dark Surfa	ice (S9) (LRF	2 K, L) 2) (LRR K, L, R
Sandy Mucky Min Sandy Gleyed Ma	trix (S4)		Depleted Da Redox Depre	rk Surface (F7)		Piedmont Flood Mesic Spodic (	Iplain Soils (F	19) (MLRA 149)
Sandy Redox (S5) Stripped Matrix (S	6)		_	( -/		Red Parent Mai	terial (TF2)	
Dark Surface (S7)	(LRR R, ML	RA 149B)				Other (Explain i	n Remarks)	11-12)
dicators of hydrophytic	venetation	and wetland	hydrology must be ar	moont violens district	h = d == bt =			-
trictive Layer (if ob	served):	and wettand	nydrology must be pi	esent, unless distun	bed or proble	matic.	Introduced to the second	
Гуре:	DRO	ck.			-			
Depth (inches):	11"				and the same of th	Hydric Soil Present?	Yes	No X
narks:								
	9:							
	9							

Project/Site: NWC Route 5 & F	Route 77_Town/County: Pembroke/Genesee C	countySampling Date: _	8.19.2022
Applicant/Owner: Geis Constru			Sampling Point: 05
Investigator(s): Scott Livingstor	ne & Tom Somerville Secti	ion, Township, Range:15	51-24,1
Landform (hillslope, terrace, etc.	c.): BORROW PitLocal relief (concave, co	onvex, none): NONE	Slope (%):
Subregion (LRR or MLRA) _LR			Datum: NAD83
Soil Man Unit Name: 1/DO	RTHENTS, SMOOTHES	Ana/	I classification: PEM
Ara alimatia / hudralagia anaditi	F-11-1017, 7: 0017	NVV	
	ons on the site typical for this time of year? Yes		
,			Il Circumstances" present? Yes No
Are Vegetation, Soil	, or Hydrology naturally problematic	c? (If needed, explain any a	inswers in Remarks.)
SUMMARY OF FINDINGS : At	ttach site map showing sampling point locat	tions, transects, importan	t features, etc.
Hydrophytic Vegetation Prese	ent? Yes X No	Is the Sampled Area	
Hydric Soil Present?	Yes No _X	within a Wetland?	Yes No
Wetland Hydrology Present?	Yes X No	If yes, optional Wetland Si	te ID: W3
Remarks: (Explain alternative	procedures here or in a separate report.)	i i you, opiional rrotaina o	
1.12 1	21	a-ri-a	
8N3-1-7 W3	-4 (CLOSED/ISOLA	4160)	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1
OBORROW D	TH PRESUMABLY A	450CIATED	WITH CONSTRUCTION
OF NYS THI	KU WHY		
HYDROLOGY			
Wetland Hydrology Indicato			Secondary Indicators (minimum of two required)
	of one is required; check all that apply)		_ Surface Soil Cracks (B6)
Surface Water (A1)	Water-Stained Leaves	(B9)	_ Drainage Patterns (B10)
High Water Table (A2)	Aquatic Fauna (B13)	-	Moss Trim Lines (B16)
Saturation (A3) Water Marks (B1)	Marl Deposits (B15)		_ Dry-Season W ater Table (C2)
Sediment Deposits (B2)	Hydrogen Sulfide Odor	es on Living Roots (C3)	Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3)	Oxidized Rhizosphere		_ Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4)	Recent Iron Reduction		Geomorphic Position (D2)
Iron Deposits (B5)	Thin Muck Surface (C		Shallow Aquitard (D3)
Inundation Visible on Aeri		No. of Contract of	Microtopographic Relief (D4)
Sparsely Vegetated Conc	ave Surface (B8)		_ FAC-Neutral Test (D5)
Field Observations:		1.	
Surface Water Present?	Yes No _X Depth (inches):/	/A	
Water Table Present?	Yes No X Depth (inches):	10	
Saturation Present?	Yes No Z Depth (inches):^	Wetland Hyd	drology Present? Yes X No No
(includes capillary fringe) Describe Recorded Data (strea	am gauge, monitoring well, aerial photos, previo	ous inspections), if available	):
Remarks:			
	-4.7		

Number of Dominant Species That Are OBL, FACW, or FAC:  Total Number of Dominant Species Across All Strata:  Percent of Dominant Species That Are OBL, FACW, or FAC:  Prevalence Index worksheet:  Total % Cover of:  Multiply by:  OBL species	Number of Dominant Species That Are OBL, FACW, or FAC:    Column Total Number of Dominant Species That Are OBL, FACW, or FAC:   Column Total Number of Dominant Species That Are OBL, FACW, or FAC:   Column Total Number of Dominant Species That Are OBL, FACW, or FAC:   Column Total Number of Dominant Species That Are OBL, FACW, or FAC:   Column Total Number of Dominant Species That Are OBL, FACW, or FAC:   Column Total Number of Dominant Species That Are OBL, FACW, or FAC:   Column Total Number of Dominant Species That Are OBL, FACW, or FAC:   Column Total Number of Dominant Species That Are OBL, FACW, or FAC:   Column Total Number of Dominant Species That Are OBL, FACW, or FAC:   Column Total Number of Dominant Species That Are OBL, FACW, or FAC:   Column Total Number of Dominant Species That Are OBL, FACW, or FAC:   Column Total Number of Dominant Species That Are OBL, FACW, or FAC:   Column Total Number of Dominant Species That Are OBL, FACW, or FAC:   Column Total Number of Dominant Species That Are OBL, FACW, or FAC:   Column Total Number of Dominant Species That Are OBL, FACW, or FAC:   Column Total Number of Dominant Species That Are OBL, FACW, or FAC:   Column Total Number of Dominant Species That Are OBL, FACW, or FAC:   Column Total Number of Dominant Species   Column Total Number of Dominant Species	Time Stratum (Plot size: 30' )
That Are OBL, FACW, or FAC:  Total Number of Dominant Species Across All Strata:  Percent of Dominant Species That Are OBL, FACW, or FAC:  Prevalence Index worksheet:  Total % Cover of:  Multiply by:  OBL species	That Are OBL, FACW, or FAC:	That Are OBL, FACW, or FAC: Y or Total Number of Dominant Species Across All Strata: Y species Across Across All Strata: Y species Across Across Across All Strata: Y species Across
Species Across All Strata:  Percent of Dominant Species That Are OBL, FACW, or FAC:  Prevalence Index worksheet:  Total % Cover of: Multiply by:  OBL species	Species Across All Strata:    Percent of Dominant Species That Are OBL, FACW, or FAC:	Species Across All Strata:  Percent of Dominant Species That Are OBL, FACW, or FAC:    Prevalence Index worksheet:   Total % Cover of   Multiply by.
That Are OBL, FACW, or FAC:    Prevalence Index worksheet:   Total % Cover of:	Percent of Dominant Species That Are OBL, FACW, or FAC:    Prevalence Index worksheet:   Total % Cover of:	Percent of Dominant Species That Are OBL, FACW, or FAC:  Prevalence Index worksheet:  Total & Cover of:  Multiply by:  OBL species
That Are OBL, FACW, or FAC:	That Are OBL, FACW, or FAC: LOVIC. (A/B  Prevalence Index worksheet:  Total % Cover of: Multiply by:  OBL species x1 = FACW species x2 = FAC species x3 = FAC species x3 = FAC species x4 = UPL species x4 = UPL species x5 = Column Totals: (A) (B)  Prevalence Index = B/A = Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation X2 - Dominance Test is >50%  3 - Prevalence Index is < 3.0¹  4 - Morphytic Vegetation indicators: 1 - Rapid Test for Hydrophytic Vegetation X2 - Dominance Test is >50%  3 - Prevalence Index is < 3.0¹  4 - Morphytic Vegetation indicators: 1 - Rapid Test for Hydrophytic Vegetation X2 - Dominance Test is >50%  3 - Prevalence Index is < 3.0¹  4 - Morphytic Vegetation indicators: 1 - Rapid Test for Hydrophytic Vegetation X2 - Dominance Test is >50%  3 - Prevalence Index is < 3.0¹  4 - Morphytic Vegetation indicators: 1 - Rapid Test for Hydrophytic Vegetation X2 - Dominance Test is >50%  3 - Prevalence Index is < 3.0¹  4 - Morphytic Vegetation indicators: 1 - Rapid Test for Hydrophytic Vegetation X2 - Dominance Test is >50%  3 - Prevalence Index is < 3.0¹  4 - Morphytic Vegetation indicators: 1 - Rapid Test for Hydrophytic Vegetation X2 - Dominance Test is >50%  3 - Prevalence Index is < 3.0¹  4 - Morphytic Vegetation indicators: 1 - Rapid Test for Hydrophytic Vegetation X2 - Dominance Test is >50%  3 - Prevalence Index is < 3.0¹  4 - Morphytic Vegetation indicators: 1 - Rapid Test for Hydrophytic Vegetation X2 - Dominance Test is >50%  3 - Prevalence Index is < 3.0¹  4 - Morphytic Vegetation indicators: 1 - Rapid Test for Hydrophytic Vegetation X2 - Problematic Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Vegetation Strata: Tree - Woody plants is sis than 3 in DBH and greater than 3.28 ft (if m) tall.  Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants is sis than 3.28 ft in height.  Moody vines - All woody vines greater than 3.28 ft in height.	That Are OBL, FACW, or FAC: Worksheet: Total % Cover of. Multiply by. OBL species x 1 = FACW species x 2 = FACW species x 2 = FACW species x 2 = FACW species x 3 = FACU species x 4 = UPL species x 4 = UPL species x 5 = Column Totals: (A) Prevalence Index = B/A = Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation  2 - Dominance Test is >60% 3 - Prevalence Index is < 3.0¹ 4 - Morphological Adaptations¹ (Provide suppor data in Remarks or on a separate sheet)  Nimplis* ring ens 10 N OBL Surpes a troubres 9 N FACW Surpes a troubres 9 N FACW Supposition Provide support data in Remarks or on a separate sheet) Indicators of Hydro soil and wetland hydrology must be present, unless disturbed or problematic.  Definitions of Vegetation Strata: Tree - Woody plants 2 in (7.6 cm) or more in diamet at breast height (DBH), regardless of height.  Sapling/shrub - Woody plants less than 3 in DBH and greater than 3.28 ft (1 m) tall.  Herb - All herbaceous (non-woody) plants, regardles of size, and woody plants less than 3 and DBH and greater than 3.28 ft (1 m) tall.  Woody vines - All woody vines greater than 3.28 ft height.  Community Type: Errægent Planck
Total % Cover of: Multiply by:  OBL species	Total % Cover of: Multiply by:    Total % Cover of: Multiply by:   OBL species	Total % Cover of: Multiply by:    Stratum (Plot size: 15'   )
OBL species x 1 =	Sels species   X 1 =   FACW species   X 2 =   FACW species   X 3 =   FACW species   X 3 =   FACW species   X 4 =   UPL species   X 5 =   Column Totals:   (A)   (B)	Stratum (Plot size: 15   )
FACW species	FACW species	Stratum (Plot size: 15'   )
FAC species x 3 =	FAC species   x 3 =	FAC species X3 = FACU species X4 = UPL species X4 = UPL species X5 = Column Totals: (A) (Prevalence Index = B/A = Hydrophytic Vegetation Indicators:  16 = Total Cover Hydrophytic Vegetation Indicators:  18 Y FAC
FACU species	FACU species	FACU species
FACU species	FACU species	Community Type: Emergent Marsh
UPL species x 5 =	UPL species x 5 = Column Totals: (A) (B)  Prevalence Index = B/A = Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is < 3.0¹ 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain)  Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  Definitions of Vegetation Strata:  Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1m) tall.  Woody vines - All woody vines greater than 3.28 ft in height.	UPL species x5 = Column Totals: (A) (Prevalence Index = BIA = Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation
Hydrophytic Vegetation Indicators:  1 - Rapid Test for Hydrophytic Vegetation  2 - Dominance Test is >50%  3 - Prevalence Index is < 3.0¹  4 - Morphological Adaptations¹ (Provide suppodata in Remarks or on a separate sheet)  Problematic Hydrophytic Vegetation¹ (Explain)  ¹Indicators of hydric soil and wetland hydrology mube present, unless disturbed or problematic.  Definitions of Vegetation Strata:  Tree - Woody plants 3 in. (7.6 cm) or more in diame at breast height (DBH), regardless of height.  Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.  Herb - All herbaceous (non-woody) plants, regardle of size, and woody plants less than 3.28 ft tall.	Prevalence Index = B/A =  Hydrophytic Vegetation Indicators:  1 - Rapid Test for Hydrophytic Vegetation  2 - Dominance Test is >50%  3 - Prevalence Index is < 3.0¹  4 - Morphological Adaptations¹ (Provide supportin data in Remarks or on a separate sheet)  Problematic Hydrophytic Vegetation¹ (Explain)  Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  Perintitions of Vegetation Strata:  Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.  Herb - All herbaceous (non-woody) plants, regardless of size, and woody vines greater than 3.28 ft in height.	Prevalence Index = B/A =  Hydrophytic Vegetation Indicators:  1 - Rapid Test for Hydrophytic Vegetation  2 - Dominance Test is >50%  3 - Prevalence Index is < 3.0¹  4 - Morphological Adaptations¹ (Provide suppor data in Remarks or on a separate sheet)  Problematic Hydrophytic Vegetation  18 Y FAC  12 N MCU  Minufu's ringens  10 N D&L  Scrous Atroutions  9 N D&L  ACK Scuparia  9 N BAC  Phlem gyralanse  10 N FACU  Phlem gyralanse  11 FACU  Phlem gyralanse  12 N FACU  Phlem gyralanse  13 N FACU  Hydrophytic Vegetation (Provide suppor data in Remarks or on a separate sheet)  Problematic Hydrophytic Vegetation¹ (Explain)  Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  Definitions of Vegetation Strata:  Tree - Woody plants 3 in. (7.6 cm) or more in diamete at breast height (DBH), regardless of height.  Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.  Herb - All herbaceous (non-woody) plants, regardles of size, and woody vines greater than 3.28 ft height.  113 = Total Cover  Community Type: Emergent Mack
Hydrophytic Vegetation Indicators:  1 - Rapid Test for Hydrophytic Vegetation  2 - Dominance Test is >50%  3 - Prevalence Index is < 3.0¹  4 - Morphological Adaptations¹ (Provide suppodata in Remarks or on a separate sheet)  Problematic Hydrophytic Vegetation¹ (Explain)  ¹Indicators of hydric soil and wetland hydrology mube present, unless disturbed or problematic.  Definitions of Vegetation Strata:  Tree - Woody plants 3 in. (7.6 cm) or more in diame at breast height (DBH), regardless of height.  Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.  Herb - All herbaceous (non-woody) plants, regardle of size, and woody plants less than 3.28 ft tall.	Prevalence Index = B/A = Hydrophytic Vegetation Indicators:  1 - Rapid Test for Hydrophytic Vegetation  2 - Dominance Test is >50%  3 - Prevalence Index is < 3.0¹  4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)  Problematic Hydrophytic Vegetation¹ (Explain)  Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  Definitions of Vegetation Strata:  Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft tall.  Woody vines - All woody vines greater than 3.28 ft in height.	Prevalence Index = B/A =  Hydrophytic Vegetation Indicators:  1 - Rapid Test for Hydrophytic Vegetation  2 - Dominance Test is >50%  3 - Prevalence Index is < 3.0¹  4 - Morphological Adaptations¹ (Provide suppor data in Remarks or on a separate sheet)  Problematic Hydrophytic Vegetation 1 (Explain)  Minufuls ringens  10 N DBL  Scrous at routions  9 N BBL  ACK Supparia  9 N BBL  Definitions of Vegetation Strata:  Tree - Woody plants 3 in. (7.6 cm) or more in diamet at breast height (DBH), regardless of height.  Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.  Woody vines - All woody vines greater than 3.28 ft height.  Community Type: Emergent Plant
1 - Rapid Test for Hydrophytic Vegetation  2 - Dominance Test is >50%  3 - Prevalence Index is < 3.0¹  4 - Morphological Adaptations¹ (Provide suppodata in Remarks or on a separate sheet)  Problematic Hydrophytic Vegetation¹ (Explain)  Indicators of hydric soil and wetland hydrology mube present, unless disturbed or problematic.  Definitions of Vegetation Strata:  Tree - Woody plants 3 in. (7.6 cm) or more in diame at breast height (DBH), regardless of height.  Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.  Herb - All herbaceous (non-woody) plants, regardle of size, and woody plants less than 3.28 ft tall.	Hydrophytic Vegetation Indicators:  1 - Rapid Test for Hydrophytic Vegetation  2 - Dominance Test is >50%  3 - Prevalence Index is < 3.0¹  4 - Morphological Adaptations¹ (Provide supportin data in Remarks or on a separate sheet)  Problematic Hydrophytic Vegetation¹ (Explain)  12 J FACU  13 FACU  14 - Morphological Adaptations¹ (Provide supportin data in Remarks or on a separate sheet)  Problematic Hydrophytic Vegetation¹ (Explain)  1 - Rapid Test for Hydrophytic Vegetation  2 - Dominance Test is >50%  3 - Prevalence Index is < 3.0¹  4 - Morphological Adaptations¹ (Provide supportin data in Remarks or on a separate sheet)  Problematic Hydrophytic Vegetation¹ (Explain)  1 - Rapid Test for Hydrophytic Vegetation  2 - Dominance Test is >50%  3 - Prevalence Index is < 3.0¹  4 - Morphological Adaptations¹ (Provide supportin data in Remarks or on a separate sheet)  Problematic Hydrophytic Vegetation  1 - Rapid Test for Hydrophytic Vegetation  2 - Dominance Test is >50%  3 - Prevalence Index is < 3.0¹  Problematic Hydrophytic Vegetation  1 - Rapid Test for Hydrophytic Vegetation  2 - Dominance Test is >50%  3 - Prevalence Index is < 3.0¹  Problematic Hydrophytic Vegetation¹ (Explain)  Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  Definitions of Vegetation Strata:  Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.  Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  Woody vines - All woody vines greater than 3.28 ft in height.	Hydrophytic Vegetation Indicators:  1 - Rapid Test for Hydrophytic Vegetation  2 - Dominance Test is >50%  3 - Prevalence Index is < 3.0¹  4 - Morphological Adaptations¹ (Provide suppor data in Remarks or on a separate sheet)  18
1 - Rapid Test for Hydrophytic Vegetation  2 - Dominance Test is >50%  3 - Prevalence Index is < 3.0¹  4 - Morphological Adaptations¹ (Provide suppodata in Remarks or on a separate sheet)  Problematic Hydrophytic Vegetation¹ (Explain)  Indicators of hydric soil and wetland hydrology mube present, unless disturbed or problematic.  Definitions of Vegetation Strata:  Tree - Woody plants 3 in. (7.6 cm) or more in diame at breast height (DBH), regardless of height.  Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.  Herb - All herbaceous (non-woody) plants, regardle of size, and woody plants less than 3.28 ft tall.	1 - Rapid Test for Hydrophytic Vegetation  2 - Dominance Test is >50%  3 - Prevalence Index is < 3.0¹  4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)  Problematic Hydrophytic Vegetation¹ (Explain)  12	16 = Total Cover  16 Stratum (Plot size: 5')  The stratum (Plot size: 30')  The stratum (Plot size: 5')  The stratum (Provide support data in Remarks or on a separate sheet)  Problematic Hydrophytic Vegetation (Explain)  Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  Definitions of Vegetation Strata:  Tree - Woody plants Is in. (7.6 cm) or more in diamete at breast height (DBH), regardless of height.  Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1m) tall.  Herb - All herbaceous (non-woody) plants, regardles of size, and woody vines greater than 3.28 ft height.  The stratum (Plot size: 30')  The stratum (Plot size: 5')  The stratum (Plot size: 5')  The stratum (Provide support data in Remarks or on a separate sheet)  The stratum (Provide support data in Remarks or on a separate sheet)  The stratum (Provide support data in Remarks or on a separate sheet)  The stratum (Provide support data in Remarks or on a separate sheet)  The stratum (Provide support sheet)  The str
2 - Dominance Test is >50%  3 - Prevalence Index is < 3.0¹  4 - Morphological Adaptations¹ (Provide suppodata in Remarks or on a separate sheet)  Problematic Hydrophytic Vegetation¹ (Explain)  Indicators of hydric soil and wetland hydrology mube present, unless disturbed or problematic.  Definitions of Vegetation Strata:  Tree - Woody plants 3 in. (7.6 cm) or more in diame at breast height (DBH), regardless of height.  Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.  Herb - All herbaceous (non-woody) plants, regardle of size, and woody plants less than 3.28 ft tall.	16	16 = Total Cover   2 - Dominance Test is >50%   3 - Prevalence Index is < 3.0¹   4 - Morphological Adaptations¹ (Provide suppor data in Remarks or on a separate sheet)   40
4 - Morphological Adaptations (Provide suppodata in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation (Explain) Indicators of hydric soil and wetland hydrology mube present, unless disturbed or problematic.  Definitions of Vegetation Strata:  Tree - Woody plants 3 in. (7.6 cm) or more in diame at breast height (DBH), regardless of height.  Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.  Herb - All herbaceous (non-woody) plants, regardle of size, and woody plants less than 3.28 ft tall.	3 - Prevalence Index is < 3.01	Stratum (Plot size: 5' )   3 - Prevalence Index is < 3.0'   4 - Morphological Adaptations' (Provide supported at in Remarks or on a separate sheet)   40
4 - Morphological Adaptations (Provide suppodata in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation (Explain) Indicators of hydric soil and wetland hydrology mube present, unless disturbed or problematic.  Definitions of Vegetation Strata:  Tree - Woody plants 3 in. (7.6 cm) or more in diame at breast height (DBH), regardless of height.  Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.  Herb - All herbaceous (non-woody) plants, regardle of size, and woody plants less than 3.28 ft tall.	40 Y G3 L  Graminitor 18 Y FAC  Graminitor 18 Y FAC  INGENS 10 N OBL  Problematic Hydrophytic Vegetation (Explain)  Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  Definitions of Vegetation Strata:  Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  Salicator 3 N FACU  Salicator 3 N FACU  Salicator 3 N FACU  Myssa 3 N FACU  Salicator 4 - Morphological Adaptations (Provide supportind data in Remarks or on a separate sheet)  Problematic Hydrophytic Vegetation (Explain)  Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  Definitions of Vegetation Strata:  Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.  Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  Woody vines - All woody vines greater than 3.28 ft in height.	4 - Morphological Adaptations (Provide support data in Remarks or on a separate sheet)   - Problematic Hydrophytic Vegetation (Explain)
data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain)  Indicators of hydric soil and wetland hydrology mube present, unless disturbed or problematic.  Definitions of Vegetation Strata:  Tree - Woody plants 3 in. (7.6 cm) or more in diame at breast height (DBH), regardless of height.  Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.  Herb - All herbaceous (non-woody) plants, regardle of size, and woody plants less than 3.28 ft tall.	data in Remarks or on a separate sheet)  Problematic Hydrophytic Vegetation (Explain)  Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  Perintions of Vegetation Strata:  Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.  Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  Woody vines - All woody vines greater than 3.28 ft in height.	data in Remarks or on a separate sheet)  Euthania graminitatia  Davus Carda  12 N FAC  Minylus ringens  10 N OBL  Scripus atroviruns  Phlem graduse  Lytham Saticatia  The Woody plants as in. (7.6 cm) or more in diamete at breast height (DBH), regardless of height.  Soli dego russa  3 N FAC  Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.  Herb - All herbaceous (non-woody) plants, regardles of size, and woody vines greater than 3.28 ft height.  113 = Total Cover  Community Type: Emergent Marsh  Community Type: Emergent Marsh  Community Type: Emergent Marsh
Indicators of hydric soil and wetland hydrology mube present, unless disturbed or problematic.  Definitions of Vegetation Strata:  Tree - Woody plants 3 in. (7.6 cm) or more in diame at breast height (DBH), regardless of height.  Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.  Herb - All herbaceous (non-woody) plants, regardle of size, and woody plants less than 3.28 ft tall.	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  Definitions of Vegetation Strata:  Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  Salicana  Tysa  N FACU  Salicana  N FACU  Salicana  N FACU  Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  Woody vines - All woody vines greater than 3.28 ft in height.	Davy Carta    12 N ffcu
be present, unless disturbed or problematic.  Definitions of Vegetation Strata:  Tree - Woody plants 3 in. (7.6 cm) or more in diame at breast height (DBH), regardless of height.  Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.  Herb - All herbaceous (non-woody) plants, regardle of size, and woody plants less than 3.28 ft tall.	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  Definitions of Vegetation Strata:  Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  Salicana  Tysea  Salicana  The - Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.  Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  Woody vines - All woody vines greater than 3.28 ft in height.	Minylus ringens    O N OBL
be present, unless disturbed or problematic.  Definitions of Vegetation Strata:  Tree - Woody plants 3 in. (7.6 cm) or more in diame at breast height (DBH), regardless of height.  Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.  Herb - All herbaceous (non-woody) plants, regardle of size, and woody plants less than 3.28 ft tall.	be present, unless disturbed or problematic.  Definitions of Vegetation Strata:  Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  Salicara  Salicara  Salicara  Salicara  Salicara  Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.  Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft in height.  Woody vines - All woody vines greater than 3.28 ft in height.	be present, unless disturbed or problematic.  Definitions of Vegetation Strata:  Tree - Woody plants 3 in. (7.6 cm) or more in diamete at breast height (DBH), regardless of height.  Soli deg D (V) Sa 3 N FAC Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.  Herb - All herbaceous (non-woody) plants, regardles of size, and woody plants less than 3.28 ft tall.  Woody vines - All woody vines greater than 3.28 ft height.  113 = Total Cover  Community Type: Emergent (Marg L)
Definitions of Vegetation Strata:  Tree - Woody plants 3 in. (7.6 cm) or more in diame at breast height (DBH), regardless of height.  Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.  Herb - All herbaceous (non-woody) plants, regardle of size, and woody plants less than 3.28 ft tall.	Definitions of Vegetation Strata:  Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  Salicatia  S N FACU  Salicatia  S N FACU  Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.  Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  Woody vines - All woody vines greater than 3.28 ft in height.	Schrous at rovinans  (Arch Suparia  Phiem produce  By N FACU  Lytham Salicara  Solidago rysa  Solidago rysa  Solidago rysa  Tree - Woody plants 3 in. (7.6 cm) or more in diamete at breast height (DBH), regardless of height.  Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.  Herb - All herbaceous (non-woody) plants, regardles of size, and woody plants less than 3.28 ft tall.  Woody vines - All woody vines greater than 3.28 ft height.  Community Type: Emergent March
Tree - Woody plants 3 in. (7.6 cm) or more in diame at breast height (DBH), regardless of height.  Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.  Herb - All herbaceous (non-woody) plants, regardle of size, and woody plants less than 3.28 ft tall.	Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  Salicana  S N FACU  Salicana  S N FACU  Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.  Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  Woody vines - All woody vines greater than 3.28 ft in height.	Carch Suparia  Phlem product  Ly thom Salicaria  Solidad rysa  Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.  Herb - All herbaceous (non-woody) plants, regardles of size, and woody plants less than 3.28 ft tall.  Woody vines - All woody vines greater than 3.28 ft height.  Community Type: Emergent Marsh  Community Type: Emergent Marsh
at breast height (DBH), regardless of height.  Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.  Herb - All herbaceous (non-woody) plants, regardle of size, and woody plants less than 3.28 ft tall.	Tree - woody plants 3 in. (7.5 cm) or more in diameter at breast height (DBH), regardless of height.  Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.  Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  Woody vines - All woody vines greater than 3.28 ft in height.	Phlem product 8 N FACU  Ly Yhrum Salicana 5 N FACU  Soli dago rysa 3 N FACU  Saling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.  Herb - All herbaceous (non-woody) plants, regardles of size, and woody plants less than 3.28 ft tall.  Woody vines - All woody vines greater than 3.28 ft height.  Community Type: Emergent Marg L
Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.  Herb - All herbaceous (non-woody) plants, regardle of size, and woody plants less than 3.28 ft tall.	Sapling/shrub - Woody plants less than 3 in, DBH and greater than 3.28 ft (1 m) tall.  Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  Woody vines - All woody vines greater than 3.28 ft in height.	Solidago russa 3 N FAC Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.  Herb - All herbaceous (non-woody) plants, regardles of size, and woody plants less than 3.28 ft tall.  Woody vines - All woody vines greater than 3.28 ft height.  Community Type: Emergent Marsh.
and greater than 3.28 ft (1 m) tall.  Herb - All herbaceous (non-woody) plants, regardle of size, and woody plants less than 3.28 ft tall.	and greater than 3.28 ft (1 m) tall.  Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  Woody vines - All woody vines greater than 3.28 ft in height.	and greater than 3.28 ft (1 m) tall.  Herb - All herbaceous (non-woody) plants, regardles of size, and woody plants less than 3.28 ft tall.  Woody vines - All woody vines greater than 3.28 ft height.    113 = Total Cover   Community Type: Emergent Marsh
of size, and woody plants less than 3.28 ft tall.	Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  Woody vines - All woody vines greater than 3.28 ft in height.	Herb - All herbaceous (non-woody) plants, regardles of size, and woody plants less than 3.28 ft tall.  Woody vines - All woody vines greater than 3.28 ft height.  Dody Vine Stratum (Plot size:30')  Community Type: Emergent Mars L
	Woody vines - All woody vines greater than 3.28 ft in height.	Woody vines - All woody vines greater than 3.28 ft height.    113
Woody vines - All woody vines greater than 3 28 f	(Plot size:30')	ody Vine Stratum (Plot size: 30' )  Community Type: Emergent Mars L
	(Plot size:30')	Community Type: Emergent Mars L
The second secon		Community Type: Emergent Marsh
6 , 0 ,		Community Type: Emergent Parsh
Community Transfer Land	Community Type: Emergent Marsh	0E -12 E
Community Type: Unwig our Trains		Hydrophytic YE 74 5
Hydrophytic PEM2	Hydrophytic PE M2 B	Vegetation
Venetation	Venetation	= Total Cover
height.	Commun	4 Vegetation
Community Type: Driving out Trans	00 0	
Hydrophytic PEM2	Hydrophytic PEM28	Vegetation
Venetation	Vegetation	Present? Yes No

	ription: (Describe to	the depth	needed to docum	ent the indicator or	r confirm t	he absence of	indicators.)
Depth(inches)	Matrix Color (moist)	%	Color (moist)	dox Features % Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
(IIIOIICS)	Color (moist)	76	Color (moist)	70 Type	LUC	Texture	Nomano
0-5	10425/3	106				£51	50B50IL
					**************************************		
			Andreas acceptant to accept the second				
-		-	telegraphic and the second second		***************************************	Management world in the second	
Histosol Histosol Histic Ep Black Hi Hydroge Stratiflec Depletec Thick Da Sandy G Sandy R Stripped		e (A11)	Polyvalue E MLRA 149I Thin Dark S Loamy Muc Loamy Gley Depleted M Redox Dark Depleted D	Below Surface (S8) (I B) Surface (S9) (LRR R, cky Mineral (F1) (LRI yed Matrix (F2)	LRR R, MLRA 149	Indicator  2 cm Coast B) 5 cm Dark Polyvi Thin I Iron-N Piedr Mesic Redf Very	on: PL=Pore Lining, M=Matrix.  Is for Problematic Hydric Soils <sup>3</sup> :  Muck (A10) (LRR K, L, MLRA 149B)  Prairie Redox (A16) (LRR K, L, R)  Mucky Peat or Peat (S3) (LRR K, L, R)  Mucky Peat or Peat (S3) (LRR K, L, R)  Burface (S7) (LRR K, L, M)  alue Below Surface (S8) (LRR K, L)  Dark Surface (S9) (LRR K, L)  Ianganese Masses (F12) (LRR K, L, L)  Iont Floodplain Soils (F19) (MLRA 14  Spodic (TA6) (MLRA 144A, 145, 149  'arent Material (TF2)  Shallow Dark Surface (TF12)  (Explain in Remarks)
	ydrophytic vegetation yer (if observed): BEDA	and wetland	-	present, unless distu	rbed or prob		<u> </u>
Depth (inche	es):	) "				Hydric Soil F	resent? Yes No

Project/Site: NWC Route 5	& Route 77 Town/Cour	ntv: Pembroke/Genesee	County Sa	ampling Date:	8.1	9.7077
Applicant/Owner: Geis Cor	nstruction	State: New \		ampling bate		Point: D6
Investigator(s): Scott Living				- 0	Sampling	Point: DR
Landform (hillslope, terrace,	etc) Bollow P.	Floral solid (	ction, Townshi	ip, Range: 15	51-24.1	1 12
Subregion (LRR or MLRA)	I PPI	Local relief (concave,	convex, none)	1001	06	Slope (%):
Subregion (LRR or MLRA) _ Soil Map Unit Name:	dar Hon Le	6m H	Long:			Datum: <u>NAD83</u>
An all and that the	Durthenty	, moothe	3	NW	I classificatio	n:N/P
Are climatic / hydrologic con-	ditions on the site typica	for this time of year? Ye	e X No	/If no	ovoloje je De	manda V
Are vegetation, Soil	, or Hydrology	significantly disturbed	?	Are "Norma	I Circumstan	ces" present? Yes X No
Are Vegetation, Soil _	, or Hydrology _	naturally problemat	ic? (If needed	d, explain any a	nswers in Re	emarks.)
SUMMARY OF FINDINGS :						
Hydrophytic Vegetation Pre	A STATE OF THE STA		Is the Samp			
Hydric Soil Present?	.00	NoX	within a W	etland?	Vos	No X
Wetland Hydrology Present		No X		cualiu i	165	- NO /C
Remarks: (Explain alternat		n a separate report )	If yes, option	nal Wetland Site	e ID:	No X W/A
UPLAND FILL CONSTRUCTS						
CONSTRUCTS	LON OF	IVS TUR	YOUN			
	-0,-0,	UID INFO	10-1-11			
1						
HYDROLOGY						
Wetland Hydrology Indica	tore:				-	
Primary Indicators (minimum		ok all that apply)				dicators (minimum of two required)
Surface Water (A1)	Torone is required, che				Surface Soi	il Cracks (B6)
High Water Table (A2)	-	_ Water-Stained Leaves	(B9)	-		attems (B10)
Saturation (A3)	_	_ Aquatic Fauna (B13)		_	Moss Trim	
Water Marks (B1)	-	<ul><li>Marl Deposits (B15)</li><li>Hydrogen Sulfide Odo</li></ul>	- (C1)	_		W ater Table (C2)
Sediment Deposits (B2)	_	_ Oxidized Rhizosphere			Crayfish Bu	
Drift Deposits (B3)		_ Presence of Reduced		00ts (C3)		Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)		_ Recent Iron Reduction		- (C6)		Stressed Plants (D1) c Position (D2)
Iron Deposits (B5)		_ Thin Muck Surface (C7			Shallow Aqu	
Inundation Visible on A	erial Imagery (B7)	Other (Explain in Ren				raphic Relief (D4)
Sparsely Vegetated Cor	ncave Surface (B8)				FAC-Neutra	
Field Observations:	The same of the same problems of the same				- Troud	
Surface Water Present?	Yes No _X	Depth (inches): N	/A	*		
Water Table Present?	Yes No _X	Depth (inches):	IA			
Saturation Present? (includes capillary fringe)	Yes No	Depth (inches):	1/A	Wetland Hydro	ology Preser	nt? Yes No
Describe Recorded Data (stre	eam gauge, monitoring v	vell aerial photos previo				
	J	ren, derial priotoe, provio	do mopeodonis	s), ii avallable.		
Remarks:						

Remarks: (Include photo numbers here or on a separate sheet.) Photo # P6 Direction of Photo South

-Burrow Area

= Total Cover

Yes No X

Present?

// In the contraction of the contract of the c							Sampling	Point: DO
Inches   Color (moist)		e to the depti			confirm the	absence of i	ndicators.)	
// JOYR 5/4 / Oo FAL SUBSO TO SUBSO		%			Loc2	Texture	Rema	arks
//De: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.				70 1750	LOO	TOALUIC	Neme	ins
//De: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.	0-4 INVR5	10 100					6.0	acouse 9
Indicators:  Indicators for Problematic Hydric Soils:  Indicators for Problematic Hydric Soils Falow  Indicators for Problematic Hydric Soil Present; Pyes	0 1 1011-1	700				1-5L	70350	46
Indicators:  Indicators for Problematic Hydric Soils:  Indicators for Problematic Hydric Soils Falow  Indicators for Problematic Hydric Soil Present; Pyes			THE RESERVE THE PROPERTY OF THE PARTY OF THE					
Indicators:  Indicators for Problematic Hydric Soils:  Indicators for Problematic Hydric Soils Falow  Indicators for Problematic Hydric Soil Present; Pyes								
Indicators:  Indicators for Problematic Hydric Soils:  Indicators for Problematic Hydric Soils Falow  Indicators for Problematic Hydric Soil Present; Pyes		Townsender	The state of the s	With the second second	West December 1	ANNALIS CONTRACTOR OF THE PARTY	WARREST TO THE WARREST TO THE PARTY OF THE P	INDUSTRIAL PROPERTY OF THE OWNER, WHEN
Indicators:  Indicators for Problematic Hydric Soils:  Indicators for Problematic Hydric Soils Falow  Indicators for Problematic Hydric Soil Present; Pyes	STATE OF THE PARTY	STATEMENT OF THE PERSON NAMED IN COLUMN 1	OBSTRUCT AND	CONCORDIFICATION DESCRIPTION	stream spectation of the	PACESTRA SERVICE STATE OF	COMMON ACTION CONTRACTOR OF THE PARTY OF THE	liteds earled State as coupled
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Indicators:  Indicators for Problematic Hydric Soils:  Indicators for Problematic Hydric Soils Falow  Indicators for Problematic Hydric Soil Present; Pyes		News Statement		THE PERSON NAMED IN COLUMN	Annaber of the second		No. 18 and a second related States and the second	THE PERSON NAMED IN COLUMN
Indicators:  Indicators for Problematic Hydric Soils:  Indicators for Problematic Hydric Soils Falow  Indicators for Problematic Hydric Soil Present; Pyes		-	The standard contract of		-	-	A CONTRACTOR OF THE STATE OF	
Indicators:  Indicators for Problematic Hydric Soils:  Indicators for Problematic Hydric Soils Falow  Indicators for Problematic Hydric Soil Present; Pyes	The second second second second	-			-	-		***************************************
Indicators:  Indicators for Problematic Hydric Soils:  Indicators for Problematic Hydric Soils Falow  Indicators for Problematic Hydric Soil Present; Pyes								
Indicators:  Indicators for Problematic Hydric Soils:  Indicators for Problematic Hydric Soils Falow  Indicators for Problematic Hydric Soil Present; Pyes		-						
Histosol (A1) Histosol (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Redox (S5) Sandy Redox (S5) Stripped Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B)  Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B)  MLRA 149B)  Thin Dark Surface (S9) (LRR R, MLRA 149B) S of m Mucky Peat or Peat (S3) (LRR K, L, F) Dark Surface (S7) (LRR K, L, M) Polyvalue Below Surface (S8) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, L) Iron-Manganese Masses (F12) (LRR K, L, L) Sendy Redox (S5) Stripped Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B)  dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  strictive Layer (if observed): Type:  Depth (inches):  Hydric Soil Present? Yes No	ype: C=Concentration, D=De	pletion, RM=F	Reduced Matrix, CS=0	Covered or Coated	Sand Grains.	<sup>2</sup> Locatio	n: PL=Pore Lining,	M=Matrix.
Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR K, L) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S9) (LRR K, L) Redox Depressions (F8) Stripped Matrix (S6) Dark Surface (S7) (LRR K, L) Redox Depressions (F8) Stripped Matrix (S6) Dark Surface (S7) (LRR K, L) Hydric Soil Present? Yes No	ydric Soil Indicators:					Indicators	for Problematic H	ydric Soils <sup>3</sup> :
Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thin Dark Surface (A12) Thin Dark Surface (A12) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR K, L, M) Stripped Matrix (S6) Dark Surface (S7) (LRR K, L) Thin Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 144A, 145, 145, 145) Redox Depressions (F8)  Mesic Spodic (TA6) (MLRA 144A, 145, 145, 145) Redox Depressions (F8)  Other (Explain in Remarks)  Depth (inches):  Type:  Hydric Soil Present? Yes No	Histosol (A1)		Polyvalue Be	low Surface (S8) (LF	RR R.	2 cm M	luck (A10) (LRR K. L.	MI RA 149R)
Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR K, L) Thin Dark Surface (S8) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, K) Mesic Spodic (TA6) (MLRA 144A, 145, 149 Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR K, L)  Fiedmont Floodplain Soils (F19) (MLRA 14 Mesic Spodic (TA6) (MLRA 144A, 145, 149 Redox Depressions (F8)  Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B)  dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  Strictive Layer (if observed): Type:  Depth (inches):  Hydric Soil Present? Yes No			MLRA 149B)			Coast F	Prairie Redox (A16) (I	LRR K, L, R)
Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Gleyed Matrix (S4) Sandy Redox Dark Surface (F6) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B)  dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  Strictive Layer (if observed): Type:  Depth (inches):  Loamy Gleyed Matrix (F2) Depleted Matrix (F2) Depleted Matrix (F3) Serface (F6) Depleted Dark Surface (F6) Depleted Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 144 145, 148 1495) Mesic Spodic (TA6) (MLRA 144A, 145, 149 1495)  Redox Depressions (F8) Red Parent Material (TF2) Very Shallow Dark Surface (TF12) Other (Explain in Remarks)  dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  Strictive Layer (if observed): Type:  Depth (inches):  Hydric Soil Present? Yes No	Hydrogen Sulfide (A4)		Loamy Mucky	y Mineral (F1) (LRR	K, L)	Dark Si	urface (S7) (LRR K, L	., M)
Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox Depressions (F8) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B)  dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  Strictive Layer (if observed):  Type:  Depth (inches):  Hydric Soil Present? Yes No	Depleted Below Dark Surf	ace (A11)	Loamy Gleye	d Matrix (F2)		Polyval	ue Below Surface (St	3) (LRR K, L)
Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B)  dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  Strictive Layer (if observed): Type:  Depth (inches):  Hydric Soil Present? Yes No	Thick Dark Surface (A12)	Constant Constant	Redox Dark S	Surface (F6)		Iron-Ma	inganese Masses (F1	2) (LRR K, L, R
Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B)  dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  strictive Layer (if observed): Type:	Sandy Gleyed Matrix (S4)		Depleted Dan	ssions (F8)		Mesic S	Spodic (TA6) (MLRA	19) (MLRA 149 144A. 145. 149
Dark Surface (S7) (LRR R, MLRA 149B)  dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  Strictive Layer (if observed):  Type:	Stripped Matrix (S6)					Red Pa	rent Material (TF2)	
Strictive Layer (if observed):	Dark Surface (S7) (LRR R	, MLRA 149B)				Other (I	Explain in Remarks)	11-12)
Strictive Layer (if observed):								
Strictive Layer (if observed):								
Type:		ion and wetland	hydrology must be pre	esent, unless disturb	ed or problem	atic.		
Depth (inches): N/A Hydric Soil Present? Yes No X	ndicators of hydrophytic vegetat	•	and on the second visitors between the statement of the control					STATE OF THE PARTY
	estrictive Layer (if observed)	11						
narks:	Type:	VE	-				nanto V	No X
	estrictive Layer (if observed): Type: Depth (inches):	U/A	-		H	ydric Soil Pre	esent? Yes	
	strictive Layer (if observed): Type: Depth (inches):	UE U/A		and the second second second second	į H	ydric Soil Pre	esent? Yes	
	strictive Layer (if observed): Type: Depth (inches):	UE U/A			J H	ydric Soil Pre	esent? Yes	
	Type:	UE U/A		oo	Н	ydric Soil Pre	esent? Yes	
	estrictive Layer (if observed): Type: Depth (inches):	UE U/A	hanna mara umuq dada dikumun ayin daqoon		Н	ydric Soil Pre	esent? Yes	
	estrictive Layer (if observed): Type: Depth (inches):	UE U/A			Н	ydric Soil Pre	esent? Yes	
	estrictive Layer (if observed): Type: Depth (inches):	UE U/A			Н	ydric Soil Pre	esent? Yes	
	estrictive Layer (if observed): Type: Depth (inches):	UE V/A			Н	ydric Soil Pre	esent? Yes	
	estrictive Layer (if observed): Type: Depth (inches):	UE U/A			Н	ydric Soil Pre	esent? Yes	
	estrictive Layer (if observed): Type: Depth (inches):	UE V/A			Н	ydric Soil Pre	esent? Yes	
	estrictive Layer (if observed): Type: Depth (inches):	UE U/A			Н	ydric Soil Pre	esent? Yes	
	estrictive Layer (if observed): Type: Depth (inches):	UE U/A			Н	ydric Soil Pre	esent? Yes	
	estrictive Layer (if observed): Type: Depth (inches):	UE V/A			Н	ydric Soil Pre	esent? Yes	
	estrictive Layer (if observed): Type: Depth (inches):	UE U/A			Н	ydric Soil Pre	esent? Yes	

Investigator(s): Scott Livingstone & Tom Somerville  Landform (hillslope, terrace, etc.): Devession Local re  Subregion (LRR or MLRA) LRRL Lat:  Soil Map Unit Name: CANANDATGUA STLT  Are climatic / hydrologic conditions on the site typical for this time	State: New York  Section, Townsh lief (concave, convex, none  Long:  LOAM, O-Z-  me of year? Yes X No	Sampling Point:
Are Vegetation, Soil, or Hydrology signification, Soil, or Hydrology natur		Are "Normal Circumstances" present? Yes No
SUMMARY OF FINDINGS : Attach site map showing samp		
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?  Remarks: (Explain alternative procedures here or in a separal W4-1-)  W4-56 (6PEN)	Is the San within a V	npled Area
HYDROLOGY		
Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that		Surface Soil Cracks (B6)
1 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Stained Leaves (B9)	Drainage Patterns (B10)
	Fauna (B13)	Moss Trim Lines (B16)
	eposits (B15)	Dry-Season W ater Table (C2)
NO. 10. 12. 1 12. 10. 12. 10. 10. 10. 10. 10. 10. 10. 10. 10. 10	en Sulfide Odor (C1)	Crayfish Burrows (C8)
	ed Rhizospheres on Living	Roots (C3) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1)
	nce of Reduced Iron (C4) It Iron Reduction in Tilled So	
	uck Surface (C7)	Shallow Aquitard (D3)
	(Explain in Remarks)	Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)	(Explain in riolinance)	FAC-Neutral Test (D5)
Field Observations:		
Surface Water Present? Yes No _K Depth	(inches): N/A	
Water Table Present? Yes No _X Depth (	. /-	
Saturation Present? Yes No Depth (includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aeria	(inches):	Wetland Hydrology Present? Yes No
Describe Necorded Data (Stream gauge, monitoring well, aeric	ii priotos, previous irispecti	oris), ii avaliable.
Remarks:		

VEGETATION: Use scientific names of plants.				Sampling Point: D7
Tree Stratum (Plot size: 30' )			nant Indicator es? Status	
1. Populus del toiles	75	Y	FAC	Number of Dominant Species That Are OBL, FACW, or FAC: (A)
2				Total Number of Dominant Species Across All Strata: (B)
4 5				Percent of Dominant Species That Are OBL, FACW, or FAC:
7.				Prevalence Index worksheet:
Sapling/Shrub Stratum (Plot size:15'	75	_= Total	Cover	OBL species x 1 = FACW species x 2 =
Frakinus pennsylumnica		4	FACW	FAC species x 3 =
Chamnus Cothartiza	10	_N	FAC	FACU species x 4 =
			<del>To to to to</del>	UPL species x 5 = Column Totals: (A) (B)
				Prevalence Index = B/A =
				Hydrophytic Vegetation Indicators:
				1 - Rapid Test for Hydrophytic Vegetation
	60	_= Total	Cover	2 - Dominance Test is >50% 3 - Prevalence Index is < 3.01
Symphystrichm lateriflorm	35	Y	FAC	4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
Polygonum virginianum		Y	FAC	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
Pag palistris	10	N	FACW	
Apocynum Cannabinum	6	N	FAC	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
Genn alegizum		4	FAC	Definitions of Vegetation Strata:
Solidago ngosa	3	4	FAC	Tree - Woody plants 3 in. (7.6 cm) or more in diameter
				at breast height (DBH), regardless of height.
				Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
				Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
				Woody vines - All woody vines greater than 3.28 ft in
	= To	otal Cov	er	height.
vody Vine Stratum (Plot size: 30' )  Vrtis alstivalis		У	FACU	THE CONTRACTOR OF THE STATE OF
VIII) VIII (III)				Community Type: Kardus & Swang
				Hydrophytic PFo 28
				Vegetation
	15			Present? Yes No
marks: (Include photo numbers here or on a separate			_	
hoto# Direc	ction of Photo_	Not	theast	
		ì	1	
- numero	ns clean a	14	tree5	
	,	Coll	nd WY	
	,	166-146-1	ALL WA	

Project Code: W29108c Sampling Point: SOIL Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Matrix Redox Features (inches) Remarks Color (moist) Color (moist) Loc2 Texture 104R4/3 100 <sup>2</sup>Location: PL=Pore Lining, M=Matrix. <sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Hydric Soil Indicators: Indicators for Problematic Hydric Soils3: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) 2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Polyvalue Below Surface (S8) (LRR R, MLRA 149B) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Thin Dark Surface (S9) (LRR R, MLRA 149B) Dark Surface (S7) (LRR K, L, M)
Polyvalue Below Surface (S8) (LRR K, L) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (LRR K, L) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Iron-Manganese Masses (F12) (LRR K, L, R)
Piedmont Floodplain Soils (F19) (MLRA 149B)
Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Redox Dark Surface (F6) Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Sandy Redox (S5) Red Parent Material (TF2) Very Shallow Dark Surface (TF12) Stripped Matrix (S6) Other (Explain in Remarks) Dark Surface (S7) (LRR R, MLRA 149B) 3 Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): BOULDER Type: Hydric Soil Present? Yes Depth (inches): Remarks:

Project/Site: NWC Route 5	& Route 77 Town/Cou	untv: Pembroke/Genesee	County Sampling Date	8.19.70	1 7.7
Applicant/Owner: Geis Cor	nstruction	State: New Y		Sampling Point:	450
Investigator(s): Scott Living				Sampling Point: 1	30
Landform (hillslope terrace	etc): I AV F Pla	Sec	ction, Township, Range: _	151-24.1	
Landform (hillslope, terrace,	LDD1	Local relief (concave, o	convex, none):	Slope (%)	:
Subregion (LRR or MLRA) _ Soil Map Unit Name:	TO LOOP		Long:	Datu	ım: NAD83
Soil Map Unit Name: 113	MOMKA SIL	-T LOAM, 0-2	1. 510pes N	NW I classification:/	mq-
Are climatic / hydrologic con-	ditions on the site typic	al for this time of year? Ye	es No (If i	no, explain in Remarks.)	
Are Vegetation, Soil	, or Hydrology	significantly disturbed	? Are "Nor	rmal Circumstances" prese	ent? Yes X No
Are Vegetation, Soil	, or Hydrology _	naturally problemati	ic? (If needed, explain an	ov answers in Remarks )	103 110
SUMMARY OF FINDINGS :					
Hydrophytic Vegetation Pre	and the second	No_X	Is the Sampled Area		
Hydric Soil Present?		No X	within a Wetland?	YesNo	X
Wetland Hydrology Present	? Yes_			,	In
Remarks: (Explain alternat		in a senarate report \	If yes, optional Wetland	Site ID:	/+
HYDROLOGY  Wetland Hydrology Indical Primary Indicators (minimun Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5)	n of one is required; che	Water-Stained Leaves Aquatic Fauna (B13) Marl Deposits (B15) Hydrogen Sulfide Odor	r (C1) s on Living Roots (C3) Iron (C4) in Tilled Soils (C6)	<ul> <li>Surface Soil Cracks (I</li> <li>Drainage Patterns (B16</li> <li>Moss Trim Lines (B16</li> <li>Dry-Season W ater Ta</li> <li>Crayfish Burrows (C8)</li> <li>Saturation Visible on Stunted or Stressed P</li> <li>Geomorphic Position (I</li> </ul>	(0) bble (C2) ) Aerial Imagery (C9) lants (D1) (D2)
Inundation Visible on A	erial Imagery (B7)	_ Other (Explain in Rem		<ul><li>Shallow Aquitard (D3)</li><li>Microtopographic Relie</li></ul>	
Sparsely Vegetated Co	ncave Surface (B8)			FAC-Neutral Test (D5)	
Field Observations:	The state of the s		1.	CONTRACTOR OF THE PROPERTY OF	
Surface Water Present?		Depth (inches):	A		
Water Table Present?	Yes No	Depth (inches):	17		
Saturation Present? (includes capillary fringe)	Yes No	Depth (inches):	//A Wetland Hy	ydrology Present? Yes	No_*
Describe Recorded Data (stre	eam gauge, monitoring	well, aerial photos, previo	us inspections) if availab	6.	
	or and a second second		ar meperationey, il availab	io.	
Remarks:					
Remarks.				The second secon	
					AFFACEE
The state of the s					1

VEGETATION . OSE SCIENTIFIC HATTIES OF DIAM	TATION: Use scientific names of pla	of	патев	scientific	Use	:	ATION	VEGET.
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Tree Stratum (Plot size: 30' )			nant Indicator	Dominance Test worksheet:  Number of Dominant Species
1. Populus del toides	35	4	FAC	That Are OBL, FACW, or FAC: (A)
2. Forkins americana			FACU	Total Number of Dominant Species Across All Strata: (B)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 23% (A/B)
6				Prevalence Index worksheet:
7	F1)			Total % Cover of: Multiply by:
	55	_ = Total	Cover	OBL species x 1 =
Sapling/Shrub Stratum (Plot size: 15')			1,1	FACW species x2=
1. Conicera tatarica	40	Y	FACU	FAC species $84 \times 3 = 252$
2. Cornis racemisa		4	FAC	FACU species x 4 = 608
3. Faxhus americana			FACU	UPL species x 5 =
				Column Totals: 236 (A) 360 (B)
4		_		Prevalence Index = B/A = 3,64
5				
6				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
		_ = Tota		2 - Dominance Test is >50%
Hart Charters (Distains)			0010.	3 - Prevalence Index is < 3.01
Herb Stratum (Plot size: 5' )	-		Con	4 - Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)
1. Solidayo Canadensis			1 FACU	
2. Polygonum virginianum				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
3. Lonicera tatarica	9	لم	FACU	Indicators of hydric soil and wetland hydrology must
4. Corex blanda	6_	N	FAC	be present, unless disturbed or problematic.
5. Gen aloppium	3	N	FAC	Definitions of Vegetation Strata:
				Delinitions of Vegetation Strata.
7				Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
8 9				Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
				Herb - All herbaceous (non-woody) plants, regardless
10				of size, and woody plants less than 3.28 ft tall.
11.			-	Woody vines - All woody vines greater than 3.28 ft in
12	-20		-	height.
	78 =	Total Co	over	
Woody Vine Stratum (Plot size: 30' )				Particular recognition of the control of the contro
1. Vitis aestimalis	25	Y	FACU	
2		-		Community Type: S. Northarn Hardwoods
3				Hydrophytic Vegetation
4				Present? Yes No X
		= Tota	al Cover	
Remarks: (Include photo numbers here or on a separate Photo #	sheet.) ion of Phot	toSout	h	

rofile Description: (Describe to the Depth Matrix Color (moist)  S-5 / 04R4/3 / 5-12 / 04R-5/3	Redox Fea % Color (moist) %	itures	ture Remarks
- 101146	% Color (moist) %		ture Remarks
5-12 104P-5/3			
5-12 104R-5/3			
5-12 104R-5/3			
		THE RESERVED THE PROPERTY OF T	NOMERONICO DE PROPRIO DE LA CONTRACTOR D
		and another statement printers and appropriate	
	The state of the s	the second of th	
	The second secon	THE COMMENSOR STATESTICS STREET, STREE	
	proposate annual estado de marginal de annual de a		
The second secon	The same of the sa	The second second second second	The state of the s
	Water and the same of the same		
pe: C=Concentration, D=Depletion dric Soil Indicators:	n, RM=Reduced Matrix, CS=Covere		<sup>2</sup> Location: PL=Pore Lining, M=Matrix.
		ın	ndicators for Problematic Hydric Soils <sup>3</sup> :
Histosol (A1) Histic Epipedon (A2)	Polyvalue Below Su MLRA 149B)	rface (S8) (LRR R,	2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R)
Black Histic (A3) Hydrogen Sulfide (A4)	Thin Dark Surface (	S9) (LRR R, MLRA 149B)	5 cm Mucky Peat or Peat (S3) (LRR K, L, R
Stratified Layers (A5)	Loamy Mucky Miner Loamy Gleyed Matri	ix (F2)	Dark Surface (S7) (LRR K, L, M) Polyvalue Below Surface (S8) (LRR K, L)
Depleted Below Dark Surface (Af Thick Dark Surface (A12)	11) Depleted Matrix (F3 Redox Dark Surface	) (F6)	Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, F
Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4)	Depleted Dark Surfa Redox Depressions	ace (F7)	Piedmont Floodplain Soils (F19) (MLRA 149
Sandy Redox (S5)	Redux Depressions	(F6)	<ul><li>Mesic Spodic (TA6) (MLRA 144A, 145, 149</li><li>Red Parent Material (TF2)</li></ul>
<ul><li>Stripped Matrix (S6)</li><li>Dark Surface (S7) (LRR R, MLRA</li></ul>	A 149B)	_	Very Shallow Dark Surface (TF12) Other (Explain in Remarks)
	1000		
dicators of hydrophytic vegetation and trictive Layer (if observed):	wetland hydrology must be present,	unless disturbed or problematic.	
Type: BEDROCK	-7		
Depth (inches): 12"		Hydric	c Soil Present? Yes NoX
narks:			

Project/Site: NWC Route 5 & Ro	ute 77 Town/County: Pembroke/Genesee Cou	inty Sampling Date: 8-19-2022
Applicant/Owner: Geis Construc		A C
Investigator(s): Scott Livingstone		
		n, Township, Range: 151-24.1
		vex, none): CONCAVE Slope (%): 4
Subregion (LRR or MLRA) LRRI	L_ Lat:	Long: Datum: NAD83
Soil Map Unit Name: <u>CHNA</u>	NDAIGUA SILT LOAM,	0-2% Slope NWI classification: P35
Are climatic / hydrologic condition	s on the site typical for this time of year? Yes _	No (If no, explain in Remarks.)
Are Vegetation, Soil	, or Hydrology significantly disturbed?	Are "Normal Circumstances" present? Yes No No
	, or Hydrology naturally problematic?	
SUMMARY OF FINDINGS : Atta	ach site map showing sampling point locatio	ns, transects, important features, etc.
Hydrophytic Vegetation Present	2 4 4 1	s the Sampled Area
Hydric Soil Present?		vithin a Wetland? Yes _ X No
Wetland Hydrology Present?	100	11611
	Yes No In rocedures here or in a separate report.)	f yes, optional Wetland Site ID:
· W4-1-> W4	-56 (OPEN)	
HYDROLOGY		
Wetland Hydrology Indicators		Secondary Indicators (minimum of two required)
Primary Indicators (minimum of o	one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1)	★ Water-Stained Leaves (B)	
High Water Table (A2)	Aquatic Fauna (B13)	Moss Trim Lines (B16)
Saturation (A3)	Marl Deposits (B15)	Dry-Season W ater Table (C2)
Water Marks (B1)	Hydrogen Sulfide Odor (C	C1) Crayfish Burrows (C8)
Sediment Deposits (B2)	Oxidized Rhizospheres	4 TO 11 TO THE CONTROL OF THE TOTAL STATE OF THE STATE OF
Drift Deposits (B3)	Presence of Reduced Iro	
Algal Mat or Crust (B4) Iron Deposits (B5)	Recent Iron Reduction in	
Inundation Visible on Aerial	Thin Muck Surface (C7)	Shallow Aquitard (D3)
Sparsely Vegetated Concav		rks) Microtopographic Relief (D4) FAC-Neutral Test (D5)
Field Observations:	e dunace (bb)	FAC-Neuliai Test (D3)
	Yes No X Depth (inches):	A .
	Yes NoX Depth (inches):X	7A
C-4	Yes No Depth (inches):	Wetland Hydrology Present? Yes X No
(includes capillary fringe)	,	
Describe Recorded Data (stream	gauge, monitoring well, aerial photos, previous	s inspections), if available:
Remarks:		
		V.

VEGETATION: Use scientific names of plants.		Sampling Point: D9
Tree Stratum (Plot size:)	Absolute Dominant Indicator % Cover Species? Status	Dominance Test worksheet:
1. Populus del tordes	40 Y FAC	Number of Dominant Species That Are OBL, FACW, or FAC:  (A)
2. Fraxious pennsylvanica	15 Y FACW	Total Number of Dominant Species Across All Strata:  (B)
4 5		Percent of Dominant Species That Are OBL, FACW, or FAC: 7/% (A/B)
7.		Prevalence Index worksheet:
1	= Total Cover	Total % Cover of: Multiply by:
Sanling/Shruh Stratum / Plot size		OBL species x 1 =
Sapling/Shrub Stratum (Plot size: 15'		FACW species x 2 =
Champis cutharties	_ SD Y FAC	FACIliancia
Cosa multiflora	20 Y FACU	FACU species x 4 =
Fracinis pennsylvaniza	10 N FACW	UPL species x 5 = Column Totals: (A) (B)
·		Prevalence Index = B/A =
		Hydrophytic Vegetation Indicators:
		1 - Rapid Test for Hydrophytic Vegetation
	= Total Cover	∠ 2 - Dominance Test is >50%
lerb Stratum (Plot size:5')		3 - Prevalence Index is < 3.01
Soliday o rugosa	35 Y FAC.	4 - Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)
Drodeg Sensibilis	15 Y FACW	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
Symphystrichum laterifforum		
Agrimania gry posepala		Indicators of hydric soil and wetland hydrology must
Euthania graminifolica	10 N FAC	be present, unless disturbed or problematic.
Robert Grade Land	8 N FAC	Definitions of Vegetation Strata:
Roygonn vergenianum		Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
		Sapling/shrub - Woody plants less than 3 in. DBH
		and greater than 3.28 ft (1 m) tall.
)		Herb - All herbaceous (non-woody) plants, regardless
		of size, and woody plants less than 3.28 ft tall.
		Woody vines - All woody vines greater than 3.28 ft in
	92 = Total Cover	height.
oody Vine Stratum (Plot size: 30'		
Vitis aestivalis	15 Y FACU	
		Community Type: Hardwood Swamp
		06,00
		Hydrophytic PTO 213
		Vegetation Present?  Yes No
	= Total Cover	
emarks: (Include photo numbers here or on a separate		
hoto # P9 Direct	ion of Photo West	
		- 4
	My book and	

	ption: (Describe to	the depth	needed to docume	nt the inc	licator or	confirm th	e absence of indic	cators.)	
Depth	Matrix			ox Featur		. ,		Demodes	
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc²	Texture	Remarks	
0-8	104231,	95	104R5/8	5	C	M			
8-16	104 K3/4	100	MUZANI MAGUNA NEWA ORA ORA ORA ORA ORA ORA ORA ORA ORA OR	atotiyyayayayazaan	woodenance	STATE OF THE PARTY	<u> </u>		
DESCRIPTION OF COMPANY AND ADDRESS OF THE PROPERTY OF THE PROP		TORCE OF THE PARTY		CONTRACTOR PROPERTY.		I https://www.	September of the septem		
		THE PERSON NAMED IN				Territorial appears			ALON OF THE MINISTER OF
THE PERSON NAMED IN THE PE		************	HERMANIA STATEMENT	<del></del>	and Colonial Street, St	* Management of the second			
Type: C=Cond lydric Soil Ind		tion, RM=	Reduced Matrix, CS=				Indicators fo	PL=Pore Lining, M=Ma r Problematic Hydric	Soils <sup>3</sup> :
Black Hist Hydrogen Stratified Depleted Thick Dar Sandy Mu Sandy Gle Sandy Re Stripped M	pedon (A2) tic (A3) 1 Sulfide (A4) Layers (A5) Below Dark Surface k Surface (A12) ucky Mineral (S1) eyed Matrix (S4)		Polyvalue Br MLRA 149E Thin Dark St Loamy Muck Loamy Gley Depleted Ma Redox Dark Depleted Da Redox Depr	urface (S9 cy Mineral ed Matrix ( atrix (F3) Surface (F ark Surface	(F1) (LRR R, (F1) (LRR (F2) (F6) (F7)	MLRA 149E	Coast Prai 5 cm Muck Dark Surfa Polyvalue Thin Dark Iron-Mang Piedmont Mesic Spo Red Parer Very Shall	c (A10) (LRR K, L, MLR. irie Redox (A16) (LRR K ky Peat or Peat (S3) (LR cce (S7) (LRR K, L, M) Below Surface (S8) (LR Surface (S9) (LRR K, L, anese Masses (F12) (Li Floodplain Soils (F19) (I dic (TA6) (MLRA 144A, nt Material (TF2) ow Dark Surface (TF12) blain in Remarks)	, L, R) R K, L, R) R K, L) RR K, L, R) MLRA 1498 145, 1498
		and wetlan	d hydrology must be p	resent, un	less distu	rbed or probl	ematic.		
The state of the s	er (if observed):	**************************************		***************************************	Car and the Long sound			a transcence and foliable transcence and transcence may are made at the d	
Towns		n	-				Hydric Soil Prese	ent? Yes X	lo
Type: Depth (inches	-\.						Try unto oon those	100	

Project/Site: NWC Route	5 & Route 77	Town/Count	v: Pembroke/Ge	enesee County	Sampling Date	8.	19.707	7
Applicant/Owner: Geis C	onstruction			New York	Sampling Date		Α	July control
		o Comontille	Otate.	New YOR		Sampling	Point: A10	
Investigator(s): Scott Livin	o ota v. / Al	I Somerville		Section, Tov	vnship, Range: _	151-24.1		Name of the last o
Landform (hillslope, terrace	s, etc.):	-e fiain	Local relief (co	ncave, convex, r	none):	UVEX	Slope (% ):	5
Subregion (LRR or MLRA) Soil Map Unit Name:	LRRL La	ti SILT L	SAM O	-2 % SL	OPE .		Datum:	NAD83
Are climatic / hydrologic co	nditions on the	site hunical f	ion this time of	V	N	IVV I classification	on:/	<u>A</u>
Are Vegetation, Soi	1, or Hy	drology	significantly dis	sturbed?	Are "Nor	mal Circumstar	ces" present?	Vac V No
Are Vegetation, Soi	I, or H	ydrology	naturally pro	blematic? (If ne	eded, explain an	y answers in R	emarks.)	165,110
SUMMARY OF FINDINGS	: Attach site	map showing	ng sampling po	int locations, tr	ansects, import	ant features, e	tc.	
Hydrophytic Vegetation P Hydric Soil Present? Wetland Hydrology Presen		Yes	_ No_X		Sampled Area a Wetland?	Yes	NoX	_
Remarks: (Explain alterna		Yes	_ No _~	If yes,	optional Wetland	Site ID:	NIF	<del>)</del>
HYDROLOGY								
Wetland Hydrology Indic	atom							
						Secondary Ir	dicators (minimu	um of two required)
Primary Indicators (minimu	m of one is re	quired; check				_ Surface So		
Surface Water (A1) High Water Table (A2)		_	Water-Stained I				atterns (B10)	
Saturation (A3)			Aquatic Fauna				Lines (B16)	
Vater Marks (B1)		_	Marl Deposits (	B15)			W ater Table (C	(2)
Sediment Deposits (B2)			Hydrogen Sulfic				urrows (C8)	-7.
Drift Deposits (B3)	k .			spheres on Livir			Visible on Aerial	Imagery (C9)
Algal Mat or Crust (B4)				educed Iron (C4)			Stressed Plants (	
Iron Deposits (B5)				duction in Tilled	Soils (C6)		c Position (D2)	
Inundation Visible on A	orial Images		Thin Muck Surfa			Shallow Aq	uitard (D3)	
Sparsely Vegetated Co	nerial imagery	(B7)	Other (Explain	in Remarks)	_		raphic Relief (D4)	)
Field Observations:	meave Surrac	e (B8)				FAC-Neutra	al Test (D5)	
Surface Water Present?	V	🗸		11/0			The second secon	The state of the s
Water Table Present?			Depth (inches):	10/14				
Saturation Present?			Depth (inches):	NIA				
(includes capillary fringe)	Yes		Depth (inches):	NA	Wetland Hy	drology Prese	nt? Yes	No X
Describe Recorded Data (str	eam gauge, r	nonitoring we	II, aerial photos,	previous inspec	tions) if available	θ.		7
					morroy, ii ayanabi	<b>o</b> .		
Remarks:								
Cernains.					-			
								1.4

	ription: (Describe	to the depth	needed to document	the indicator or	confirm the	absence of indicat	ore \
Depth	Matrix			Features	commin the	absence of malcat	013./
inches)	Color (moist)	%	Color (moist)	% Type <sup>1</sup>	Loc²	Texture	Remarks
,							
0-6	104R4/2 104R5/4	100				g.	
6-16	10425/4	100				451	
		-	The state of the s				y deposition of the state and the forces of the deposition of the deposition of the deposition of the state o
- Annual Control		* STRANGERSON *	to an annual service of the service	CONTRACTOR DESCRIPTION	THE WORKSHIP STATE OF	Manager and Manage	
THE STORY OF STREET	Management of the state of the	a marchanoman t	CONTRACTOR SERVICES CONTRACTOR CO	MICHAEL STREET, STREET, MICHAEL STREET, STREET	Ministración Maria	ements and emission country and	
-	4	-		Control of the same of the sam		Control to the Section of the Control of the Contro	
	the three or the state of the first transfer of the same of the sa		maria sempa a separativo de da separativo de la persona de	reconstruction contratation within			
<del></del>	The second secon	-		THE PERSON NAMED IN COLUMN 1	paramonentalismos mas	Contraction of the Contraction o	
		-	The second secon			and the second second second second	
The state of the s	The state of the s		All the second of the second districts of the second of th	THE PERSON NAMED IN COLUMN 1	TO COMPANY TO STATE OF THE STAT	The second second	
/pe: C=Co	ncentration D=Denk	etion PM=P	educed Matrix, CS=Co	wared or Contod	Sand Crains	2) postion: DI	-Dara Lining M-Matrix
dric Soil Ir	ndicators:	Stion, Itivi–It	educed Matrix, CS-CC	vereu or Coaleu	Sand Grains.		=Pore Lining, M=Matrix. roblematic Hydric Soils <sup>3</sup> :
Histoso	(A1)		Pohyoluo Polo	w Surface (S8) (LI	DD D	0 am 14	10) (I DD K I BUDA (10D)
Histic E	pipedon (A2) istic (A3)		MLRA 149B)			Coast Prairie	10) (LRR K, L, MLRA 149B) Redox (A16) (LRR K, L, R)
Hydroge	en Sulfide (A4)		Loamy Mucky I	ace (S9) (LRR R, I Mineral (F1) (LRR	VILRA 149B) K, L)	5 cm Mucky F Dark Surface	eat or Peat (\$3) (LRR K, L, R (\$7) (LRR K, L, M)
Stratified Deplete	d Layers (A5) d Below Dark Surface	(A11)	Loamy Gleyed Depleted Matrix	Matrix (F2)		Polyvalue Bel	ow Surface (S8) (LRR K, L) face (S9) (LRR K, L)
Thick Da	ark Surface (A12) Mucky Mineral (S1)		Redox Dark Su Depleted Dark	rface (F6)		Iron-Mangane	se Masses (F12) (LRR K. L. F
Sandy C	Bleyed Matrix (S4) Redox (S5)		Redox Depress	ions (F8)		Mesic Spodic	odplain Soils (F19) (MLRA 145 (TA6) (MLRA 144A, 145, 149
Stripped	Matrix (S6)					Red Parent M Very Shallow	aterial (TF2) Dark Surface (TF12)
Dark Su	rface (S7) (LRR R, M	LRA 149B)				Other (Explain	in Remarks)
dicators of h	vdronhytic vegetation	and watland	hydrology must be pres	ant unland disturb	ad as amblams	-41-	
strictive La	yer (if observed):	and welland	nydrology must be pres	ent, unless disturb	ed or problema	auc.	THE WAR WAS ARREST TO SECOND STREET, WHICH SHARE
Туре:	NONE	0					
Depth (inch	es):	A			н	ydric Soil Present?	Yes No_X

Are climatic / hydrologic conditate  Are Vegetation, Soil  Are Vegetation, Soil		(If no, explain in Remarks.)  Are "Normal Circumstances" present? Yes No d, explain any answers in Remarks.)  ects, important features, etc.  pled Area
Hydric Soil Present? Wetland Hydrology Present?	Yes No within a W	vetland? Yes No
	e procedures here or in a separate report.) 5-10 (OPEN)	
YDROLOGY		
Wetland Hydrology Indicat		Secondary Indicators (minimum of two require
	of one is required; check all that apply)	Surface Soil Cracks (B6)
_ Surface Water (A1)	✓ Water-Stained Leaves (B9)	Drainage Patterns (B10)
High Water Table (A2)	Aquatic Fauna (B13)	Moss Trim Lines (B16)
Saturation (A3)	Marl Deposits (B15)	Dry-Season W ater Table (C2)
Water Marks (B1)	Hydrogen Sulfide Odor (C1)	Crayfish Burrows (C8)
Sediment Deposits (B2) Drift Deposits (B3)	Oxidized Rhizospheres on Living I	
Algal Mat or Crust (B4)	Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soil	Stunted or Stressed Plants (D1) ils (C6) Geomorphic Position (D2)
Iron Deposits (B5)	Recent from Reduction in Filled Sol	Shallow Aguitard (D3)
Inundation Visible on Ae		Shallow Adultard (D3) Microtopographic Relief (D4)
Sparsely Vegetated Cor		FAC-Neutral Test (D5)
ield Observations:	The second secon	
Surface Water Present?	Yes No X Depth (inches):	
	Yes No _X Depth (inches):	
Water Table Present?	Yes No X Depth (inches):	Wetland Hydrology Present? Yes No
Nater Table Present? Saturation Present? (includes capillary fringe)		
Saturation Present? includes capillary fringe)	am gauge, monitoring well, aerial photos, previous inspection	ons), if available:
Saturation Present? includes capillary fringe)		ons), if available:

VEGETATION: Use scientific names of plants.				Sampling Point: Dll
Tree Stratum (Plot size:30')  1. Populus delfaides	% Cover		Status	Dominance Test worksheet:  Number of Dominant Species That Are OBL, FACW, or FAC:  (A)
3.				Total Number of Dominant Species Across All Strata:
4.       5.				Percent of Dominant Species That Are OBL, FACW, or FAC: // (A/B)
5	25 60 28	= Total Co	FAC FACW FACW	Prevalence Index worksheet:
5				Prevalence Index = B/A =
6				Hydrophytic Vegetation Indicators:  1 - Rapid Test for Hydrophytic Vegetation  2 - Dominance Test is >50%
Herh Stratum (Plot size: 5'	100	= Total Co	ver	3 - Prevalence Index is < 3.01
Herb Stratum (Plot size:	18 10 6 5 3	N F	acu acu ac	4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain)  ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  Definitions of Vegetation Strata:  Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.  Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  Woody vines - All woody vines greater than 3.28 ft in height.
1				Community Type: Scwb Shub Swarp  Hydrophytic Vegetation
1		= Total Cov	or l	Present? Yes X No
Remarks: (Include photo numbers here or on a separate s		- 10tal Cot	ei -	
	on of Photo_			\$
		and s		

Project Code: W29l08c Sampling Point: Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Redox Features Matrix (inches) Color (moist) Color (moist) <sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup>Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils3: Hydric Soil Indicators: 2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Polyvalue Below Surface (S8) (LRR R, Histosol (A1) Histic Epipedon (A2) MLRA 149B) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) Dark Surface (S7) (LRR K, L, M) Hydrogen Sulfide (A4)
Stratified Layers (A5)
Depleted Below Dark Surface (A11) Loamy Mucky Mineral (F1) (LRR K, L) Loamy Gleyed Matrix (F2)
Depleted Matrix (F3) Polyvalue Below Surface (S8) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, R)
Piedmont Floodplain Soils (F19) (MLRA 149B)
Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Redox Dark Surface (F6) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Depleted Dark Surface (F7) Redox Depressions (F8) Red Parent Material (TF2) Very Shallow Dark Surface (TF12) Stripped Matrix (S6) Other (Explain in Remarks) Dark Surface (S7) (LRR R, MLRA 149B) 3 Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): NONE Type: Hydric Soil Present? Depth (inches): Remarks:

Applicant/Owner: Geis Constru Investigator(s): Scott Livingstor Landform (hillslope, terrace, etc. Subregion (LRR or MLRA) LRI Soil Map Unit Name: FREDO Are climatic / hydrologic condition	ne & Tom Somerville  .): TIII Plan Local relief ( RL Lat:  TA GRAVELLY LOA  ons on the site typical for this time o	te: New York  Section, Township,  (concave, convex, none):  Long:  Fyear? Yes No	Sampling P Range:	Slope (% ):
Are Vegetation, Soil	, or Hydrology naturally  tach site map showing sampling  nt? Yes No  Yes No	problematic? (If needed,  point locations, transec  Is the Sample within a Wet	explain any answers in Rer ts, important features, etc ed Area dand? Yes	
Remarks: (Explain alternative	procedures here or in a separate re	eport.)	al Wetland Site ID:	
HYDROLOGY  Wetland Hydrology Indicator Primary Indicators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aeria Sparsely Vegetated Conca	fone is required; check all that app  Water-Stain Aquatic Fan Marl Depos Hydrogen S Oxidized R Presence of Recent Iron Thin Muck al Imagery (B7)  Water-Stain Aquatic Fan Aqua	ned Leaves (B9) una (B13)	Surface Soi  Drainage Po  Moss Trim I  Dry-Season  Crayfish Bu  ots (C3)  Saturation V  Stunted or S  (C6)  Geomorphic  Shallow Aq	W ater Table (C2) urrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) c Position (D2) uitard (D3) raphic Relief (D4)
Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe)	Yes No _X Depth (inch Yes No _X Depth (inch Yes No _X Depth (inch m gauge, monitoring well, aerial ph	es): N/A	Wetland Hydrology Prese	
Remarks:				

-very dense

Direction of Photo East

Photo # P12

Project Code: W29108c SOIL Sampling Point: Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Matrix Redox Features (inches) Color (moist) Color (moist) Remarks <sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup>Location: PL=Pore Lining, M=Matrix. **Hydric Soil Indicators:** Indicators for Problematic Hydric Soils3: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) 2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Polyvalue Below Surface (S8) (LRR R, MLRA 149B) Thin Dark Surface (S9) (LRR R, MLRA 149B) Loamy Mucky Mineral (F1) (LRR K, L) Loamy Gleyed Matrix (F2) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) Dark Surface (S7) (LRR K, L, M)
Polyvalue Below Surface (S8) (LRR K, L) Stratified Layers (A5)
Depleted Below Dark Surface (A11)
Thick Dark Surface (A12) Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, R) Depleted Matrix (F3) Redox Dark Surface (F6) Depleted Dark Surface (F7) Sandy Mucky Mineral (S1) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Gleyed Matrix (S4) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Red Parent Material (TF2) Redox Depressions (F8) Sandy Redox (S5) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) <sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): DONE Type: Depth (inches): Hydric Soil Present? Yes Remarks:

INMINADO DE EINIDINICS : A+	tach cito man chou		tic? (If needed, explain any ations, transects, importa	answers in Remarks.)
Hydrophytic Vegetation Present Hydric Soil Present?  Wetland Hydrology Present?  Remarks: (Explain alternative	nt? Yes Yes Yes	No No	Is the Sampled Area within a Wetland? If yes, optional Wetland	Yes No
· W 6				
/DROLOGY				
Vetland Hydrology Indicato	rs:		was a second	Secondary Indicators (minimum of two requi
rimary Indicators (minimum o	f one is required; ch	eck all that apply)		Surface Soil Cracks (B6)
_ Surface Water (A1)		Drainage Patterns (B10)		
High Water Table (A2)		Aquatic Fauna (B13)	Moss Trim Lines (B16)	
_ Saturation (A3)	Marl Deposits (B15)			Dry-Season W ater Table (C2)
_ Water Marks (B1)		Hydrogen Sulfide Oc	Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9)	
_ Sediment Deposits (B2)		Oxidized Rhizosphe	Saturation visible on Aerial imagery (05) Stunted or Stressed Plants (D1)	
Drift Deposits (B3) Algal Mat or Crust (B4)	Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6)			Geomorphic Position (D2)
Algal Mat of Crust (B4) Recent from Reduction in Tilled Solis (C6) Iron Deposits (B5) Thin Muck Surface (C7)			Shallow Aquitard (D3)	
Inundation Visible on Aer	ial Imagen/ (B7)	Other (Explain in R		Microtopographic Relief (D4)
Sparsely Vegetated Cond		_ 041101 (2.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4	,	FAC-Neutral Test (D5)
ield Observations:	-	A CONTRACTOR OF THE PROPERTY O	A STATE OF THE STA	Monte of the second
Surface Water Present?	Yes No 2	Depth (inches):	NIA	4
Vater Table Present?		C Depth (inches):	NIA	
aturation Present?		Depth (inches):	Wetland H	lydrology Present? Yes NoX
ncludes capillary fringe)			view inspections) it avails	plo:
Describe Recorded Data (stream	am gauge, monitorin	ig well, aeriai priotos, pre	svious inspections), il availa	DIG.
Remarks:				
Remarks:				

Wetland w6

Depth	Matrix	the depu	needed to docume	ox Feature		commin trie	absence of mic	ilicators.
inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc2	Texture	Remarks
3-11	104R3/1	93	10YR5/8	7	<u>C</u>	M	<u>l</u> _	
1-16	104R5/2	85	104R516	15		<u>M</u> -	151_	
	SECTION OF THE SECTION OF T	SHARING SHOREON				SECTION OF SECTION SEC	THE PARTY OF THE P	
				***************************************		NATIONAL DESCRIPTION OF THE PROPERTY OF THE PR		
		***********			***************************************	***************	***************************************	
	oncentration, D≃Deple	etion RM=	Reduced Matrix CS=			Sand Grains	s. <sup>2</sup> Location	: PL=Pore Lining, M=Matrix.
	ndicators:	COTI, TAVI	Treduced Wattix, OC	OOVERED	o o o o o o o o o o o o o o o o o o o	Cana Cram		for Problematic Hydric Soils <sup>3</sup> :
Black Hydrog Stratific Deplet Sandy Sandy Sandy Strippe Dark S	Epipedon (A2) Histic (A3) Histic (A3) Histic (A4) Histic (A5) Histic (A5) Histic (A5) Histic (A12) Histic (A1	ILRA 1498	Loamy Muc Loamy Gley Depleted M Redox Dark Depleted Da Redox Depi	3) urface (S9) ky Mineral ed Matrix ( atrix (F3) Surface (F ark Surface essions (F	(LRR R, (F1) (LRR F2) (6) (F7) 8)	MLRA 149B)	Coast Programmer Strain Front Programmer Strain Front Programmer Strain Front Programmer Strain Front	ick (A10) (LRR K, L, MLRA 149B) rairie Redox (A16) (LRR K, L, R) ricky Peat or Peat (S3) (LRR K, L, R) riace (S7) (LRR K, L, M) e Below Surface (S8) (LRR K, L) rik Surface (S9) (LRR K, L) riganese Masses (F12) (LRR K, L, R) nt Floodplain Soils (F19) (MLRA 149B) podic (TA6) (MLRA 144A, 145, 149B) ent Material (TF2) allow Dark Surface (TF12) xplain in Remarks)
	ayer (if observed):		Section in the state of the section in the section					
Type: Depth (inc	hes): NO NE	April -	_				Hydric Soil Pre	sent? Yes No
emarks:				-		1		

Project/Site: NWC Route 5 & Route 77	own/County: Pembroke/Genesee	County Sampling Date:	8.19.2022		
pplicant/Owner: Geis Construction	State: New \		Sampling Point: D14		
nvestigator(s): Scott Livingstone & Tom	Somerville Ser	ction. Township. Range:	• /		
andform (hillslope, terrace, etc.):					
ubregion (LRR or MLRA) <u>LRRL</u> Lat oil Map Unit Name: <u>DUN L</u> SEL	Ly 1 m 1 mars 1 1	Long:	Datum: NAD83		
	,				
re climatic / hydrologic conditions on the	site typical for this time of year? Ye				
re Vegetation, Soil, or Hyd	rology significantly disturbed	? Are "Norm	nal Circumstances" present? Yes No _		
re Vegetation, Soil, or Hy	drology naturally problemate	tic? (If needed, explain any	answers in Remarks.)		
UMMARY OF FINDINGS: Attach site	map showing sampling point loc	ations, transects, importa	int features, etc.		
Hydrophytic Vegetation Present?	Yes No_X_	Is the Sampled Area			
Hydric Soil Present?	Yes No X	within a Wetland?	Yes No		
Wetland Hydrology Present?	Yes No Yes No Yes	If yes, optional Wetland	Site ID: N/A		
Remarks: (Explain alternative procedure  V P LAND SCRUB	A CONTRACTOR OF THE PROPERTY O	MUNTTY			
VP4ANS SCRUD	174RUS COM	1019 7-11			
DROLOGY					
Vetland Hydrology Indicators:	And the second s		Secondary Indicators (minimum of two require		
	mary Indicators (minimum of one is required; check all that apply)				
_ Surface Water (A1)	Water-Stained Leave		Drainage Patterns (B10)		
High Water Table (A2)	Aquatic Fauna (B13)		Moss Trim Lines (B16)		
Saturation (A3)	Marl Deposits (B15)		Dry-Season W ater Table (C2)		
Water Marks (B1) Sediment Deposits (B2)	Hydrogen Sulfide Od		Crayfish Burrows (C8)		
Drift Deposits (B3)	Oxidized Rhizosphe	res on Living Roots (C3)	Saturation Visible on Aerial Imagery (C9)		
Algal Mat or Crust (B4)		on in Tilled Soils (C6)	Stunted or Stressed Plants (D1) Geomorphic Position (D2)		
Iron Deposits (B5)	Thin Muck Surface (0		Shallow Aquitard (D3)		
Inundation Visible on Aerial Imager			Microtopographic Relief (D4)		
Sparsely Vegetated Concave Surfa		,	FAC-Neutral Test (D5)		
ield Observations:	~	110			
Surface Water Present? Yes	No Depth (inches):	0//-			
Vater Table Present? Yes	No Depth (inches):	VIA			
Saturation Present? Yes	No X Depth (inches):	Wetland H	ydrology Present? Yes No		
includes capillary fringe) Describe Recorded Data (stream gauge,	monitoring well, aerial photos, prev	vious inspections), if availab	Je:		
, , , , , , , , , , , , , , , , , , , ,		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
Remarks:					
vertians.					

- very dense

Project Code: W29108c SOIL Sampling Point: Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Matrix Redox Features (inches) Color (moist) Color (moist) Remarks -9 104R411 <sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup>Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: Indicators for Problematic Hydric Soils3: Histosol (A1) Histic Epipedon (A2) Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (LRR K, L) Dark Surface (S7) (LRR K, L, M) Stratified Layers (A5)
Depleted Below Dark Surface (A11) Loamy Gleyed Matrix (F2) Polyvalue Below Surface (S8) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Depleted Matrix (F3) Redox Dark Surface (F6) Thick Dark Surface (A12) Iron-Manganese Masses (F12) (LRR K, L, R) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 149B) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Redox Depressions (F8) Red Parent Material (TF2) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) <sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed) NONE Type: Depth (inches): Hydric Soil Present? Yes No Remarks:

Are Vegetation, Soil, or Hydrologynaturally problematic? (If needed, explain any answers in Remarks.)  SUMMARY OF FINDINGS: Attach site map showing sampling point locations, transects, important features, etc.  Hydrophytic Vegetation Present?	Applicant/Owner: <u>Geis Constr</u> Investigator(s): <u>Scott Livingsto</u> Landform (hillslope, terrace, etc Subregion (LRR or MLRA) <u>LR</u> Soil Map Unit Name: NTA condition	Route 77 Town/County: Pembroke/Genesee ruction State: New Young & Tom Somerville Sec.): LAKE Pla, \(\circ\) Local relief (concave, or RRL Lat: \(\circ\) LOLAM SILT LOLAM, O - Zecons on the site typical for this time of year? Year, or Hydrology significantly disturbed	Cork_ Ction, Township, Range:15 Convex, none):ConvexLong: Z/L GLa PESNW es_X_No(If no,	Sampling Point:	
Hydric Soil Present? Wetland Hydrology Present? Wetland Hydrology Present?  Wetland Hydrology Present?  Wetland Hydrology Indicators:  Secondary Indicators (minimum of two re Surface Soil Cracks (B6)  Surface Water (A1)  High Water Table (A2)  Aquatic Fauna (B13)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Presence of Reduced Iron (C4)  Indicators (Wetland Hydrology Indicators (Minimum of two re Surface Soil Cracks (B6))  Drainage Patterns (B10)  Moss Trim Lines (B16)  Dry-Season W ater Table (C2)  Craffish Burrows (C8)  Sediment Deposits (B2)  Drift Deposits (B3)  Presence of Reduced Iron (C4)  Recent Iron Reduction in Tilled Soils (C6)  Geomorphic Position (D2)  Induction Visible on Aerial Imagery (B7)  Under Crust (B4)  Recent Iron Remarks)  Microtopographic Relief (D4)  Sparsely Vegetated Concave Surface (B8)  Field Observations:  Surface Water Present?  Yes No Depth (inches):  Wetland Hydrology Present? Yes No Depth (inches):  Wetland Hydrology Present? Yes No Depth (inches):  Wetland Hydrology Present? Yes No Depth (inches):  Wetland Hydrology Present? Yes No Depth (inches):  Wetland Hydrology Present? Yes No Depth (inches):  Wetland Hydrology Present? Yes No Depth (inches):  Wetland Hydrology Present? Yes No Depth (inches):  Wetland Hydrology Present? Yes No Depth (inches):  Wetland Hydrology Present? Yes No Depth (inches):  Wetland Hydrology Present? Yes No Depth (inches):  Wetland Hydrology Present? Yes No Depth (inches):  Wetland Hydrology Present? Yes No Depth (inches):  Wetland Hydrology Present? Yes No Depth (inches):  Wetland Hydrology Present? Yes No Depth (inches):  Wetland Hydrology Present? Yes No Depth (inches):  Wetland Hydrology Present? Yes No Depth (inches):  Wetland Hydrology Present? Yes No Depth (inches):  Wetland Hydrology Present? Yes No Depth (inches	Are Vegetation, Soil	, or Hydrology naturally probleman	tic? (If needed, explain any a ations, transects, importan	nswers in Remarks.) t features, etc.	
HYDROLOGY  Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) Surface Water (A1) High Water Table (A2) Saturation (A3) Mart Deposits (B15) Sediment Deposits (B2) Drit Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8)  Field Observations: Surface Water Present? Water Table (R2) Depth (inches): Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C7) Shallow Aquitard (D3) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8)  Field Observations: Surface Water Present? Water Table (Present? Yes No Depth (inches): Uran Vettand Hydrology Present? Yes No Depth (inches): Uran Vettand Present? Water Table (R2) Wetland Hydrology Present? Yes No Depth (inches): Uran Vettand Hydrology		Yes No X	within a Wetland?	Yes No	
Wetland Hydrology Indicators:       Secondary Indicators (minimum of two research primary Indicators (minimum of one is required; check all that apply)       Secondary Indicators (minimum of two research primary Indicators (minimum of one is required; check all that apply)       Surface Soil Cracks (B6)         Surface Water (A1)       Water-Stained Leaves (B9)       Drainage Patterns (B10)         High Water Table (A2)       Aquatic Fauna (B13)	UP CHND 90	-KUS/7/4KUD COM	1010		
Primary Indicators (minimum of one is required; check all that apply)  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Drainage Patterns (B10)  Moss Trim Lines (B16)  Dry-Season W ater Table (C2)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Presence of Reduced Iron (C4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B7)  Sparsely Vegetated Concave Surface (B8)  Field Observations:  Surface Soil Cracks (B6)  Drainage Patterns (B10)  Moss Trim Lines (B16)  Dry-Season W ater Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C2)  Stunted or Stressed Plants (D1)  Recent Iron Reduction in Tilled Soils (C6)  Geomorphic Position (D2)  Shallow Aquitard (D3)  Microtopographic Relief (D4)  FAC-Neutral Test (D5)  Field Observations:  Surface Water Present?  Yes  No  Depth (inches):  Wetland Hydrology Present? Yes  No  Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	HYDROLOGY				
Surface Water (A1)	Wetland Hydrology Indicat	ors:		Secondary Indicators (minimum of	two required
High Water Table (A2) Saturation (A3) Marl Deposits (B15) Dry-Season W ater Table (C2) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Water Table (P2) No Depth (inches): Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:  Marl Deposits (B13) Dry-Season W ater Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C3) Saturation Visible on Aerial Imagery (C4) Stunted or Stressed Plants (D1) Search Iron Reduction in Tilled Soils (C6) Geomorphic Position (D2) Thin Muck Surface (C7) Shallow Aquitard (D3) Microtopographic Relief (D4) FAC-Neutral Test (D5)  Field Observations: Surface Water Present? Yes No Depth (inches):  Wetland Hydrology Present? Yes No Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Primary Indicators (minimum	of one is required; check all that apply)		_ Surface Soil Cracks (B6)	
	Surface Water (A1)	Water-Stained Leave	es (B9)		
Water Marks (B1)	High Water Table (A2)	Aquatic Fauna (B13)	_		
Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B7)  Sparsely Vegetated Concave Surface (B8)  Field Observations:  Surface Water Present?  Yes No Depth (inches):  Saturation Present?  Yes No Depth (inches):  Sediment Deposits (C3)  Saturation Visible on Aerial Imagery (C4)  Stunted or Stressed Plants (D1)  Geomorphic Position (D2)  Shallow Aquitard (D3)  Microtopographic Relief (D4)  FAC-Neutral Test (D5)  Field Observations:  Surface Water Present?  Yes No Depth (inches):  Wetland Hydrology Present? Yes No  Cincludes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:					
Drift Deposits (B3)					(00)
Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B7)  Sparsely Vegetated Concave Surface (B8)  Field Observations:  Surface Water Present?  Water Table Present?  Yes No Depth (inches):  Saturation Present?  Yes No Depth (inches):  Septimal Depth (inches):  Saturation Present?  Yes No Depth (inches):  Septimal Depth (inches):  Wetland Hydrology Present? Yes No Concludes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:					ery (C9)
Iron Deposits (B5) Thin Muck Surface (C7) Shallow Aquitard (D3) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Microtopographic Relief (D4) Sparsely Vegetated Concave Surface (B8) FAC-Neutral Test (D5) Surface Water Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		The state of the s			
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Microtopographic Relief (D4) Sparsely Vegetated Concave Surface (B8) FAC-Neutral Test (D5) Surface Water Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Concludes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:					
Sparsely Vegetated Concave Surface (B8)  FAC-Neutral Test (D5)  Field Observations:  Surface Water Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Westard Hydrology Present? Yes No Depth (inches): Westard Hydrology Present? Yes No Depth (inches): Westard Hydrology Present? Yes No Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:					
Field Observations:  Surface Water Present? Yes No _X Depth (inches):	A STATE OF THE PROPERTY OF THE		emans)		
Surface Water Present? Yes No Depth (inches):		Cave Guilage (D0)			THE STREET OF THE STREET, STRE
Water Table Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No (includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		Vos No X Donth (inches):	UA		
Saturation Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No (includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:			JIA		
(includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Training Committee of the Committee of t		Wetland Hv	drology Present? Yes	10 <u>X</u>
	(includes capillary fringe)				Carlo Ac Apparatus Commission
Remarks:	The state of the s				
Nemars.	Pomorke:				
	Remarks.				

Tree Stratum (Plot 6176) 30'	Of Course Consises Chalus	Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size:30')  1	% Cover Species? Status	Number of Dominant Species That Are OBL, FACW, or FAC: (A)
2		Total Number of Dominant Species Across All Strata:  (B)
		(-)
5		Percent of Dominant Species That Are OBL, FACW, or FAC:  (A/B)
6		Prevalence Index worksheet:
7		Total % Cover of: Multiply by:
	= Total Cover	OBL species x 1 =
Sapling/Shrub Stratum (Plot size: 15')		FACW species x 2 =
1. Lonivera tatarica	18 Y FACU	FAC species 8 x 3 = 24
Elacagnus angustifolia		FACU species 125 x4 = 500
3		UPL species x 5 = Column Totals: 133 (A) 524 (B)
		Prevalence Index = B/A = 3.93
		Hydrophytic Vegetation Indicators:
		1 - Rapid Test for Hydrophytic Vegetation
	33 = Total Cover	2 - Dominance Test is >50%
lerb Stratum (Plot size:5')		3 - Prevalence Index is < 3.01
. Soliday o Canadensis	35 Y FACU	4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
Phlem pratonse	20 Y FACU	Problematic Hydrophytic Vegetation¹ (Explain)
. Poa pratons s	12 N FAW	
Solidago juncea	10 N FACU	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
Euthamia grammifolia		
Daveus carota	8 N FACU	Definitions of Vegetation Strata:
		Tree - Woody plants 3 in. (7.6 cm) or more in diameter
Ribus idneus		at breast height (DBH), regardless of height.
Cirsium arvense		Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
0		Herb - All herbaceous (non-woody) plants, regardless
1		of size, and woody plants less than 3.28 ft tall.
2		Woody vines - All woody vines greater than 3.28 ft in
	(00 = Total Cover	height.
/oody Vine Stratum (Plot size: 30' )		
		Community Type: Successional old Field
		Hydrophytic
		Vegetation Present? Yes No X
	= Total Cover	Present: 165NO_X_
	and the same of th	
Photo # 15 Direction	on of Photo <u>Cast</u>	
Remarks: (Include photo numbers here or on a separate s	neet.) on of Photo <u>Ea</u> S+	

Applicant/Owner: Geis Construction  Investigator(s): Scott Livingstone & Tom Sor Landform (hillslope, terrace, etc.): III P  Subregion (LRR or MLRA) LRRL Lat: Soil Map Unit Name: DUN KIRK 52  Are climatic / hydrologic conditions on the site	State: New York  merville Section, Towns  And Local relief (concave, convex, none  Long: L	Datum: NAD83  Datum: NAD84  Da
Hydrophytic Vegetation Present?	res No X Is the Sar	mpled Area
Hydric Soil Present?	Yes No _X Is the Sar Yes No _X within a N	Wetland? Yes No
	V 1	tional Wetland Site ID:
HYDROLOGY		
Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is requir		Surface Soil Cracks (B6)
Surface Water (A1) High Water Table (A2)	Water-Stained Leaves (B9)	Drainage Patterns (B10)
Saturation (A3)	Aquatic Fauna (B13)	Moss Trim Lines (B16)
Water Marks (B1)	<pre> Marl Deposits (B15) Hydrogen Sulfide Odor (C1)</pre>	Dry-Season W ater Table (C2) Crayfish Burrows (C8)
Sediment Deposits (B2)	Oxidized Rhizospheres on Living	
Drift Deposits (B3)	Presence of Reduced Iron (C4)	Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4)	Recent Iron Reduction in Tilled So	1
Iron Deposits (B5)	Thin Muck Surface (C7)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B		Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (	(B8)	FAC-Neutral Test (D5)
Field Observations:	× m/n	
	No Depth (inches):	
.00	No X Depth (inches): N/A	W. W
Saturation Present? Yes (includes capillary fringe)	No X Depth (inches)://A	Wetland Hydrology Present? Yes No _X_
Describe Recorded Data (stream gauge, mo	nitoring well, aerial photos, previous inspect	ions), if available:
Remarks:		

Total Charters (Distriction 20)	Absolute Dominant Indicator	Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size:30')  1	% Cover Species? Status	Number of Dominant Species That Are OBL, FACW, or FAC:  (A)
2		Total Number of Dominant Species Across All Strata: (B)
1. 5.		Percent of Dominant Species That Are OBL, FACW, or FAC:
,		Prevalence Index worksheet:
·		Total % Cover of: Multiply by:
		OBL species x 1 =
	= Total Cover	FACW species x2 =
apling/Shrub Stratum (Plot size: 15')		FAC species x 3 =
		FACU species x4 =
		UPL species x 5 = (A) (B)
		Prevalence Index = B/A =/A
		Hydrophytic Vegetation Indicators:
		1 - Rapid Test for Hydrophytic Vegetation
		2 - Dominance Test is >50%
	= Total Cover	3 - Prevalence Index is < 3.01
Pla Sp.	9D Y NI	4 - Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)
The state of the s		Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
		Indicators of hydric soil and wetland hydrology must
		be present, unless disturbed or problematic.
		Definitions of Vegetation Strata:
		Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
		Sapling/shrub - Woody plants less than 3 in. DBH
		and greater than 3.28 ft (1 m) tall.
0		Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tail.
1		Woody vines - All woody vines greater than 3.28 ft in
2.		height.
	= Total Cover	noigh.
loody Vine Stratum (Plot size: 30')		Mark Committee Contract Contra
		Community Type: Ris Crip
		Hydrophytic Vegetation
		Present? Yes No
	= Total Cover	
emarks: (Include photo numbers here or on a separate		
Photo # PIG Direct	tion of Photo East	
	<b>~</b>	
	corn field	

		o the depth	needed to document the indica	tor or confirm th	e absence of ind	icators.)
Depth inches)	Matrix Color (moist)	%	Redox Features Color (moist) % T	vpe¹ Loc²	Texture	Remarks
			Soloi (molet) 70 1	YDC LOC	Texture	Kernarks
7-4	104R5/3	100			1	
1-16	104 2514	100			grl_	
					Hiponia	
					The second secon	
THE PARTY OF THE P		-	And the second s	eronen errennenseen h	TO CONTRACT OF THE PARTY OF THE	
ype: C=Cor	ncentration, D=Deple	etion, RM=Re	educed Matrix, CS=Covered or C	oated Sand Grain		PL=Pore Lining, M=Matrix. or Problematic Hydric Soils <sup>3</sup> :
Black H Hydroge Stratified Deplete Thick De Sandy M Sandy F Stripped	pipedon (A2) istic (A3) en Sulfide (A4) d Layers (A5) d Below Dark Surface ark Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) I Matrix (S6)		Polyvalue Below Surface (\$\fomal{MLRA 149B}\) Thin Dark Surface (\$9) (LF Loamy Mucky Mineral (F1) Loamy Gleyed Matrix (F2) Depleted Matrix (F3) Redox Dark Surface (F6) Depleted Dark Surface (F7 Redox Depressions (F8)	RR R, MLRA 149B (LRR K, L)	2 cm Muc Coast Pra 5 cm Muc Dark Surfa Polyvalue Thin Dark Iron-Mang Piedmont Mesic Spo Red Pare	k (A10) (LRR K, L, MLRA 149B) irie Redox (A16) (LRR K, L, R) ky Peat or Peat (S3) (LRR K, L, R) ace (S7) (LRR K, L, M) Below Surface (S8) (LRR K, L) sanese Masses (F12) (LRR K, L, R) Floodplain Soils (F19) (MLRA 149I odic (TA6) (MLRA 144A, 145, 149B oth Material (TF2) low Dark Surface (TF12)
	nface (S7) (LRR R, MI				Other (Ex	olain in Remarks)
	ydrophytic vegetation yer (if observed):	and wetland I	hydrology must be present, unless	disturbed or proble	matic.	and appropriate to the control of th
Туре:	NONE			- Control of the Cont		
Depth (inch marks:	es): N/A				Hydric Soil Prese	ent? Yes No_X
	ű.					

	mpling Date: 8 . 19 . 2022
Applicant/Owner: Geis Construction State: New York	Sampling Point:
Investigator(s): Scott Livingstone & Tom Somerville Section, Township	o, Range:151-24.1
Landform (hillslope, terrace, etc.): BORROW Y Local relief (concave, convex, none):	
Subregion (LRR or MLRA) <u>LRRL</u> Lat:Long:	Datum: NAD83
Subregion (LRR or MLRA) LRRL Lat: Long: Long: Long: Soil Map Unit Name: DINKIRK FILT LOAM, 6-12/6 940 F	
Are climatic / hydrologic conditions on the site typical for this time of year? Yes No	(If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly disturbed?	Are "Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology naturally problematic? (If needed	
SUMMARY OF FINDINGS: Attach site map showing sampling point locations, transe	ects, important features, etc.
Hydrophytic Vegetation Present? Voc. No. X Is the Sam	oled Area
Trydrophytic vegetation resent: Tes 140	
Trydic con resent:	NIA
Wetland Hydrology Present?  Yes No If yes, option  Remarks: (Explain alternative procedures here or in a separate report.)	nal Wetland Site ID:
UPLAND FIELD / BORROW AREA PA WITH CONSTRUCTION OF NYS TH	RUWPY
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) Water-Stained Leaves (B9)	Drainage Patterns (B10)
High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)
Saturation (A3) Marl Deposits (B15)	Dry-Season W ater Table (C2)
Water Marks (B1) Hydrogen Sulfide Odor (C1)	Crayfish Burrows (C8)
Sediment Deposits (B2) Oxidized Rhizospheres on Living	
	Stunted or Stressed Plants (D1)
Drift Deposits (B3) Presence of Reduced Iron (C4)	
Algal Mat or Crust (B4) Recent Iron Reduction in Tilled So	
Algal Mat or Crust (B4) Recent Iron Reduction in Tilled So Iron Deposits (B5) Thin Muck Surface (C7)	Shallow Aquitard (D3)
Algal Mat or Crust (B4) Recent Iron Reduction in Tilled So Iron Deposits (B5) Thin Muck Surface (C7) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks)	<ul><li>Shallow Aquitard (D3)</li><li>Microtopographic Relief (D4)</li></ul>
Algal Mat or Crust (B4) Recent Iron Reduction in Tilled So Iron Deposits (B5) Thin Muck Surface (C7) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Sparsely Vegetated Concave Surface (B8)	Shallow Aquitard (D3)
Algal Mat or Crust (B4) Recent Iron Reduction in Tilled So Iron Deposits (B5) Thin Muck Surface (C7) Other (Explain in Remarks) Sparsely Vegetated Concave Surface (B8) Field Observations:	<ul><li>Shallow Aquitard (D3)</li><li>Microtopographic Relief (D4)</li></ul>
Algal Mat or Crust (B4) Recent Iron Reduction in Tilled So Iron Deposits (B5) Thin Muck Surface (C7) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Sparsely Vegetated Concave Surface (B8)  Field Observations: Surface Water Present? Yes No Depth (inches):	<ul><li>Shallow Aquitard (D3)</li><li>Microtopographic Relief (D4)</li></ul>
Algal Mat or Crust (B4) Recent Iron Reduction in Tilled So Iron Deposits (B5) Thin Muck Surface (C7) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Sparsely Vegetated Concave Surface (B8)  Field Observations: Surface Water Present? Yes No Depth (inches):/A Water Table Present? Yes No Depth (inches):/A	Shallow Aquitard (D3) Microtopographic Relief (D4) FAC-Neutral Test (D5)
Algal Mat or Crust (B4) Recent Iron Reduction in Tilled So Iron Deposits (B5) Thin Muck Surface (C7) Other (Explain in Remarks) Sparsely Vegetated Concave Surface (B8)  Field Observations: Surface Water Present? Yes No Depth (inches): //A	Shallow Aquitard (D3) Microtopographic Relief (D4) FAC-Neutral Test (D5)  Wetland Hydrology Present? Yes No
Algal Mat or Crust (B4) Recent Iron Reduction in Tilled So Iron Deposits (B5) Thin Muck Surface (C7) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Sparsely Vegetated Concave Surface (B8)  Field Observations: Surface Water Present? Yes No Depth (inches):/A Water Table Present? Yes No Depth (inches):/A	Shallow Aquitard (D3) Microtopographic Relief (D4) FAC-Neutral Test (D5)  Wetland Hydrology Present? Yes No
Algal Mat or Crust (B4) Recent Iron Reduction in Tilled So Iron Deposits (B5) Thin Muck Surface (C7) Other (Explain in Remarks) Sparsely Vegetated Concave Surface (B8)  Field Observations:  Surface Water Present? Yes No Depth (inches): // A	Shallow Aquitard (D3) Microtopographic Relief (D4) FAC-Neutral Test (D5)  Wetland Hydrology Present? Yes No
Algal Mat or Crust (B4) Recent Iron Reduction in Tilled So Iron Deposits (B5) Thin Muck Surface (C7) Other (Explain in Remarks) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Surface Water Present? Yes No Depth (inches):	Shallow Aquitard (D3) Microtopographic Relief (D4) FAC-Neutral Test (D5)  Wetland Hydrology Present? Yes No
Algal Mat or Crust (B4) Recent Iron Reduction in Tilled So Iron Deposits (B5) Thin Muck Surface (C7) Other (Explain in Remarks) Sparsely Vegetated Concave Surface (B8)  Field Observations: Surface Water Present? Yes No Depth (inches): //A	Shallow Aquitard (D3) Microtopographic Relief (D4) FAC-Neutral Test (D5)  Wetland Hydrology Present? Yes No
Algal Mat or Crust (B4) Recent Iron Reduction in Tilled So Iron Deposits (B5) Thin Muck Surface (C7)  Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks)  Sparsely Vegetated Concave Surface (B8)  Field Observations:  Surface Water Present? Yes No Depth (inches): NA  Water Table Present? Yes No Depth (inches): NA  Saturation Present? Yes No Depth (inches): NA  (includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections)	Shallow Aquitard (D3) Microtopographic Relief (D4) FAC-Neutral Test (D5)  Wetland Hydrology Present? Yes No
Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B7)  Sparsely Vegetated Concave Surface (B8)  Field Observations:  Surface Water Present?  Water Table Present?  Yes  No  Depth (inches):  Surface Water Present?  Yes  No  Depth (inches):  No  Depth (inches):  No  Saturation Present?  Yes  No  Depth (inches):  No  Depth (inches):  No  Secure Vinches (includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections)	Shallow Aquitard (D3) Microtopographic Relief (D4) FAC-Neutral Test (D5)  Wetland Hydrology Present? Yes No
Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B7)  Sparsely Vegetated Concave Surface (B8)  Field Observations:  Surface Water Present?  Water Table Present?  Yes  No  Depth (inches):  Surface Water Present?  Yes  No  Depth (inches):  No  Depth (inches):  No  Saturation Present?  Yes  No  Depth (inches):  No  Depth (inches):  No  Secure Vinches (includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections)	Shallow Aquitard (D3) Microtopographic Relief (D4) FAC-Neutral Test (D5)  Wetland Hydrology Present? Yes No
Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B7)  Sparsely Vegetated Concave Surface (B8)  Field Observations:  Surface Water Present?  Water Table Present?  Yes  No  Depth (inches):  Surface Water Present?  Yes  No  Depth (inches):  No  Depth (inches):  No  Saturation Present?  Yes  No  Depth (inches):  No  Depth (inches):  No  Secure Vinches (includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections)	Shallow Aquitard (D3) Microtopographic Relief (D4) FAC-Neutral Test (D5)  Wetland Hydrology Present? Yes No
Algal Mat or Crust (B4) Recent Iron Reduction in Tilled So Iron Deposits (B5) Thin Muck Surface (C7) Other (Explain in Remarks) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Surface Water Present? Yes No Depth (inches):	Shallow Aquitard (D3) Microtopographic Relief (D4) FAC-Neutral Test (D5)  Wetland Hydrology Present? Yes No
Algal Mat or Crust (B4) Recent Iron Reduction in Tilled So Iron Deposits (B5) Thin Muck Surface (C7) Other (Explain in Remarks) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Surface Water Present? Yes No Depth (inches):	Shallow Aquitard (D3) Microtopographic Relief (D4) FAC-Neutral Test (D5)  Wetland Hydrology Present? Yes No
Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B7)  Sparsely Vegetated Concave Surface (B8)  Field Observations:  Surface Water Present?  Water Table Present?  Yes  No  Depth (inches):  Surface Water Present?  Yes  No  Depth (inches):  No  Depth (inches):  No  Saturation Present?  Yes  No  Depth (inches):  No  Depth (inches):  No  Secure Vinches (includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections)	Shallow Aquitard (D3) Microtopographic Relief (D4) FAC-Neutral Test (D5)  Wetland Hydrology Present? Yes No
Algal Mat or Crust (B4) Recent Iron Reduction in Tilled So Iron Deposits (B5) Thin Muck Surface (C7) Other (Explain in Remarks) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Surface Water Present? Yes No Depth (inches):	Shallow Aquitard (D3) Microtopographic Relief (D4) FAC-Neutral Test (D5)  Wetland Hydrology Present? Yes No

Free Strature (Districe)	Absolute Dominant Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30')		Number of Dominant Species That Are ORL FACW or FAC:  (A)
		That Are OBL, FACW, or FAC: (A)
		Total Number of Dominant
		Species Across All Strata: (B)
		Percent of Dominant Species
		That Are OBL, FACW, or FAC:(A/B)
		Prevalence Index worksheet:
		Total % Cover of: Multiply by:
	= Total Cover	OBL species x 1 =
apling/Shrub Stratum (Plot size: 15'	_)	FACW species x 2 = FAC species x 3 = 9
		FAC species 3 x3 = 7
		FACU species x 4 = x 4 = x 4 = x 4 = x 4 = x 4 = x 4 = x 4 = x 4 = x 4 = x 4 =
		UPL species x 5 =
		Column Totals: <u><b>88</b></u> (A) <u><b>353</b></u> (B)
		Prevalence Index = B/A = 4.0
		Hydrophytic Vegetation Indicators:
		1 - Rapid Test for Hydrophytic Vegetation
		2 - Dominance Test is >50%
t Court on Court on the	= Total Cover	3 - Prevalence Index is < 3.01
Pog Ordensis	20 Y Facu	4 - Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)
		Problematic Hydrophytic Vegetation¹ (Explain)
Davers canota		Problematic Hydrophytic Vegetation (Explain)
Solidano removatio		Indicators of hydric soil and wetland hydrology must
Melilotus officinalis		be present, unless disturbed or problematic.
Digitaria Sanguinalis	9 N FACU	Definitions of Vegetation Strata:
Poa annua	8 N FACU	
Solidigo juncea	6 N FACU	Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
Contained Stocke	Y N VPL	
		Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
Juneus tenuis		and greater than 5.25 ft (111) tall.
		Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
		Woody vines - All woody vines greater than 3.28 ft in
	88 = Total Cover	height.
oody Vine Stratum (Plot size: 30')		
		Community Type: Successional dat foeld
		Community Type. Stock 3 North Mar There
		Hydrophytic
		Vegetation Present? YesNo_
	= Total Cover	
emarks: (Include photo numbers here or on a separa	te sheet.)	
hoto # PI7 Dire	ection of Photo North	
Thoto # Dire	ection of Photo /~0(1)	
	-Borrow Area	

Project Code: W29108c Sampling Point: SOIL Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Matrix Redox Features Color (moist) Texture (inches) Color (moist) Loc2 SIR SUBSOIL 0-14 10426/1 100 <sup>2</sup>Location: PL=Pore Lining, M=Matrix. <sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Hydric Soil Indicators: Indicators for Problematic Hydric Soils3: 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histosol (A1) Polyvalue Below Surface (S8) (LRR R, Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Dark Surface (S7) (LRR K, L, M) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (LRR K, L) Stratified Layers (A5) Polyvalue Below Surface (S8) (LRR K, L) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Thin Dark Surface (S9) (LRR K, L) Depleted Matrix (F3) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Sandy Redox (S5) Stripped Matrix (S6) Red Parent Material (TF2) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) Dark Surface (S7) (LRR R, MLRA 149B) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Hydric Soil Present? Yes\_ Depth (inches): AREA PREVIOUSLY EXCAVATED; SOIL COLOR IS REPLECTIVE OF DEEP SUBSOIL REMAINING.

Project/Site: NWC Route 5 & Route 77 To	wn/County: Pembroke/Genesee Coun	ty_Sampling Date: 8 - 19 - 2022
Applicant/Owner: Geis Construction	State: New York	
Investigator(s): Scott Livingstone & Tom S		
		ex, none): CONVEX Slope (%): 3
Subregion (LRR or MLRA) LRRL Lat:	0 6 1 7 1 20 20 7	ong: Datum: NAD83
Are climatic / hydrologic conditions on the si	te typical for this time of year? Yes	No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydro	ology significantly disturbed?	Are "Normal Circumstances" present? Yes X No
Are Vegetation, Soil, or Hydr	rology naturally problematic? (i	f needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS: Attach site m	ap showing sampling point location	s, transects, important features, etc.
Hydrophytic Vegetation Present?	Yes No Is	the Sampled Area
1 - T C - T	,	thin a Wetland? Yes No
Wetland Hydrology Present?		the Sampled Area thin a Wetland? YesNo ves, optional Wetland Site ID:
Remarks: (Explain alternative procedures	here or in a separate report.)	es, optional wetland Site ID.
HYDROLOGY		
Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required
Primary Indicators (minimum of one is requ	ired; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1)	Water-Stained Leaves (B9)	
High Water Table (A2)	Aquatic Fauna (B13)	Moss Trim Lines (B16)
Saturation (A3) Water Marks (B1)	Marl Deposits (B15)	Dry-Season W ater Table (C2)
Sediment Deposits (B2)	<ul><li>Hydrogen Sulfide Odor (C1</li><li>Oxidized Rhizospheres on</li></ul>	
Drift Deposits (B3)	Presence of Reduced Iron	
Algal Mat or Crust (B4)	Recent Iron Reduction in T	
Iron Deposits (B5)	Thin Muck Surface (C7)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (		
Sparsely Vegetated Concave Surface	(B8)	FAC-Neutral Test (D5)
Field Observations: Surface Water Present?	× N/A	
Surface Water Present? Yes Water Table Present? Yes	No Depth (inches):	
	1	-   war war a same x
(includes capillary fringe)	No Depth (inches): No	Wetland Hydrology Present? Yes No
Describe Recorded Data (stream gauge, m	onitoring well, aerial photos, previous in	rspections), if available:
Remarks:		

Project Code: W29108c Sampling Point: Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Redox Features (inches) Color (moist) Color (moist) Remarks -3 104R4/3 <sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup>Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: Indicators for Problematic Hydric Soils3: Histosol (A1) Polyvalue Below Surface (S8) (LRR R. 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) 5 cm Mucky Peat or Peat (\$3) (LRR K, L, R) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (LRR K, L) Dark Surface (S7) (LRR K, L, M) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Polyvalue Below Surface (S8) (LRR K, L) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Redox Dark Surface (F6) Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (TF2) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) <sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): NONE Type: Depth (inches): Hydric Soil Present? Yes \_\_\_\_ \_ No\_X Remarks: \* DOES NOT MEET COLLAMER CLASSIFICATION
TILL, NOT LAKE SEDIMENTS

andform (hillslope, terrace, et	one & Tom Somerville  c.): DEPRES STON Local re	elief (concave, convex, none):	Sampling Point: <u>D19</u> p, Range: <u>151-24.1</u> p. CON CAVE Slope (% ): Datum: <u>NAD83</u> NW I classification: <u>P55</u>
re Vegetation, Soil re Vegetation, Soil	, or Hydrology signific , or Hydrology natu	cantly disturbed? urally problematic? (If needed	Are "Normal Circumstances" present? Yes No
Hydrophytic Vegetation Preson Hydric Soil Present? Wetland Hydrology Present?	Yes No	Is the Sam within a W	pled Area
0 W6-1→ W	6-175 lopen	))	
YDROLOGY			
Wetland Hydrology Indicat	ors:		Secondary Indicators (minimum of two require
	of one is required; check all that	at apply)	Surface Soil Cracks (B6)
Surface Water (A1)		r-Stained Leaves (B9)	Drainage Patterns (B10)
High Water Table (A2)	,	tic Fauna (B13)	Moss Trim Lines (B16)
Saturation (A3)		Deposits (B15)	Dry-Season W ater Table (C2)
Water Marks (B1)	Hydro	ogen Sulfide Odor (C1)	Crayfish Burrows (C8)
Sediment Deposits (B2)	Oxidi	ized Rhizospheres on Living	
Drift Deposits (B3)		ence of Reduced Iron (C4)	Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4)	-	nt Iron Reduction in Tilled So	
Iron Deposits (B5)	The state of the s	Muck Surface (C7)	Shallow Aquitard (D3)
Inundation Visible on As Sparsely Vegetated Cor		r (Explain in Remarks)	Microtopographic Relief (D4) FAC-Neutral Test (D5)
	cave Surface (Do)		The state of the s
Field Observations:	Ves No X Dent	h (inches): N/A	
Field Observations: Surface Water Present?	103	h (inches): N/A	
Surface Water Present?	Yes No X Dept		Wetland Hydrology Present? Yes No
Surface Water Present? Water Table Present?	Yes No Dept	h (inches): N/A	
Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe)	Yes No Dept Yes No Dept Yes No Dept		
Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe)	Yes No Dept Yes No Dept eam gauge, monitoring well, ae		
Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe)			
Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe)			
Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (str			
Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (str			
Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (str			
Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (str			
Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (str			
Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (str			
Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (str			

T Otation (Blatisian) 201	Absolute Dominant Indicator % Cover Species? Status	Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size:30')  1		Number of Dominant Species That Are OBL, FACW, or FAC:(A)
2		Total Number of Dominant Species Across All Strata:  5 (B)
3		openio / in state
4.       5.		Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
6		Prevalence Index worksheet:
7		Total % Cover of: Multiply by:
	= Total Cover	OBL species x 1 =
	= Total 55761	FACW species x 2 =
Sapling/Shrub Stratum (Plot size: 15' )	70 V 60	FAC species x 3 =
1. Cornis racemosa		FACU species x 4 =
2. Chamnes Cathartiza		UPL species x 5 =
3. Fraxinus pennsylvanica		Column Totals: (A) (B)
5.		Prevalence Index = B/A =
6		Hydrophytic Vegetation Indicators:
		1 - Rapid Test for Hydrophytic Vegetation
7	105 = Total Cover	2 - Dominance Test is >50%
	Total Cover	3 - Prevalence Index is < 3.01
1. Symphystrichem lateriform	18 Y FAC	<ul> <li>4 - Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)</li> </ul>
2. Glycaria Striata		Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
3. Poly gorum viginiarum		
Cold of priority		Indicators of hydric soil and wetland hydrology must
4. Gem alepium	8 N FAC	be present, unless disturbed or problematic.
5. Fraxmus pennsylvaniza		Definitions of Vegetation Strata:
7		Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
8 9.		Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
10		Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3,28 ft tall.
11		Woody vines - All woody vines greater than 3.28 ft in
12	53 = Total Cover	height.
		Mac Del reconstruire de la faire de la company de la compa
Woody Vine Stratum (Plot size: 30')  1. Vitis aestivalis	10 Y FACU	Samuelle Turns South Shab Swamp
2		Community Type: Sent Shab Swarp  Hydrophytic PS 2B
3		Tily di Optily do
4		Vegetation Present? Yes X No
	= Total Cover	
Remarks: (Include photo numbers here or on a separate s	sheet.)	and the second s
Photo # 920 Directi	on of Photo East	
100	y dense shabs	
- /61	7 agrise shirts	34
	intelled Wb	

epth	Matrix	dopt	h needed to docume	ox Featur				
nches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
1-5	104R3/1	95	104R5/8	The state of the s	C	M	511	
-16	10485/1	95	10V25/2	3	C	~	510	
10	701	- 15	10110 10					
AND THE PROPERTY OF STREET	technical comments and continue transport and	NONE MANAGEMENT NO.	similar transfer or the set of the second	TOTAL PROPERTY.	**************************************	and percentage of the		
PARTICIPATE OF THE PARTICIPATE O		o annumentation	THE PROPERTY OF THE PROPERTY O	MORPHOGRAPHICA	CONTRACTOR CONTRACTOR SERVICE	VIOLENCE STREET	minterescent and a state of the	
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Appearance and	THE PARTY SECRETARIZATION OF THE STATE OF THE STATE OF					*****************	***************************************	
		-	Member of Presential Inches	***************************************	***************************************	***************************************		
	***************************************	-	The state of the s					
-	17-211-12-12-12-12-12-12-12-12-12-12-12-12	-	TOTAL STREET	***************************************				
	And the second s							
	oncentration, D=Depl Indicators:	etion, RM=	Reduced Matrix, CS=	Covered	or Coated	Sand Grain		: PL=Pore Lining, M=Matrix. for Problematic Hydric Soils <sup>3</sup> :
								•
	Epipedon (A2)		Polyvalue Be MLRA 149B	)			Coast P	rairie Redox (A16) (LRR K, L, MLRA 149B)
	Histic (A3) gen Sulfide (A4)		Thin Dark St	urface (S9 ty Mineral	) (LRR R, (F1) (LRR	MLRA 149E K, L)	5 cm Mu Dark Su	icky Peat or Peat (\$3) (LRR K, L, R) rface (\$7) (LRR K, L, M)
Stratifie	ed Layers (A5) ed Below Dark Surfac	e (A11)	Loamy Gleye	ed Matrix			Polyvalu	e Below Surface (S8) (LRR K, L) rk Surface (S9) (LRR K, L)
Thick D	Dark Surface (A12) Mucky Mineral (S1)	(////	Redox Dark Depleted Da	Surface (I	F6)		Iron-Mai	nganese Masses (F12) (LRR K, L, R) nt Floodplain Soils (F19) (MLRA 1498
Sandy	Gleyed Matrix (S4) Redox (S5)		Redox Depre				Mesic S	podic (TA6) (MLRA 144A, 145, 149B ent Material (TF2)
Sariuy	ed Matrix (S6)						Very Sh	allow Dark Surface (TF12) explain in Remarks)
Strippe	Surface (S7) (LRR R, I	VILRA 149B	1)				Other (E	explain in Remarks)
Strippe								
Strippe					lass distric	had as proble	ematic.	
Strippe Dark S		n and wetla	nd hydrology must be p	resent, un	liess distur	bed of proble		
Strippe Dark S dicators of	hydrophytic vegetatio	DECEMBER OF THE OWNER OWNE	nd hydrology must be p	resent, un	iless distur	bed of ploble	and the post of the second sec	
Strippe Dark S  dicators of  strictive L  Type:	hydrophytic vegetatio	SE	nd hydrology must be p	resent, un	iless distur	bed of proble	antistration of the second	nont? Vos X No
Strippe Dark S dicators of strictive L Type: Depth (inc	hydrophytic vegetatio	SE	nd hydrology must be p	resent, un	ness distur	bed of proble	antistration of the second	sent? Yes X No
Strippe Dark S dicators of strictive L Type: Depth (inc	hydrophytic vegetatio	SE	nd hydrology must be p	resent, un	ness distur	bed of ploble	antistration of the second	sent? Yes X No
Strippe Dark S dicators of strictive L Type: Depth (inc	hydrophytic vegetatio	SE	nd hydrology must be p	resent, un	iless distur	bed of proble	antistration of the second	sent? Yes X No
Strippe Dark S dicators of strictive L Type: Depth (inc	hydrophytic vegetatio	SE	nd hydrology must be p	resent, un	iless distur	bed of proof	antistration of the second	sent? Yes X No
Strippe Dark S dicators of strictive L Type: Depth (inc	hydrophytic vegetatio	SE	nd hydrology must be p	resent, un	iless distur	bed of proof	antistration of the second	sent? Yes X No
Strippe Dark S dicators of strictive L Type: Depth (inc	hydrophytic vegetatio	SE	nd hydrology must be p	resent, un	iless distur	bed of proof	antistration of the second	sent? Yes X No
Strippe Dark S dicators of strictive L Type:	hydrophytic vegetatio	SE	nd hydrology must be p	resent, un	iless distur	bed of proof	antistration of the second	sent? Yes X No
Strippe Dark S  dicators of strictive L Type: Depth (inc	hydrophytic vegetatio	SE	nd hydrology must be p	resent, un	iless distur	bed of proof	antistration of the second	sent? Yes X No
Strippe Dark S dicators of	hydrophytic vegetatio	SE	nd hydrology must be p	resent, un	iless distur	bed of proof	antistration of the second	sent? Yes X No
Strippe Dark S  dicators of strictive L Type: Depth (inc	hydrophytic vegetatio	SE	nd hydrology must be p	resent, un	iless distur	bed of proof	antistration of the second	sent? Yes X No
Strippe Dark S  dicators of strictive L Type: Depth (inc	hydrophytic vegetatio	SE	nd hydrology must be p	resent, un	iless distur	bed of proof	antistration of the second	sent? Yes X No
Strippe Dark S  dicators of strictive L Type: Depth (inc	hydrophytic vegetatio	SE	nd hydrology must be p	resent, un	iless distur	bed of proof	antistration of the second	sent? Yes X No

roject/Site: NWC Route 5 & Route pplicant/Owner: Geis Construction policant/Owner: Geis Construction vestigator(s): Scott Livingstone & andform (hillslope, terrace, etc.): Lubregion (LRR or MLRA) LRRL oil Map Unit Name: MIRA LRRL oil Map Unit Name:	& Tom Somerville  LAKE Plain  Lat:  RA FILT  on the site typical  or Hydrology  or Hydrology  Yes  Yes  Yes  Toccedures here or in  UB/SHA	for this time of yea significantly dist naturally proteing sampling points No X No	Section, Townsicave, convex, none Long: 2 - Z / S / S ar? Yes X N turbed? blematic? (If need int locations, tran Is the Sa within a If yes, op it.)	hip, Range: 151 e): CONVE  OPCS NWICE  NWICE  OF STATE  NWICE  NWICE  OF STATE  NWICE  NWICE  NWICE  OF STATE  NWICE   Sampling Form:	NAD83 Yes No	
andform (hillslope, terrace, etc.): ubregion (LRR or MLRA) LRRL oil Map Unit Name: NTAGA) re climatic / hydrologic conditions re Vegetation, Soil, re Vegetation, Soil, re Vegetation, Soil, WMMARY OF FINDINGS: Attack Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Remarks: (Explain alternative processed of the present of the processed of the present of the	Lat:  RA SILT  on the site typical  or Hydrology  or Hydrology  Yes  Yes  Yes  Yes  Toccedures here or in  UB/BHA	for this time of year significantly districted in a separate report COB CCC	Long: D-Z// S/O ar? Yes X N turbed? Delematic? (If need int locations, tran Is the Sa within a lif yes, op tt.)	e): NWI colo (If no, ex Are "Normal Colod, explain any ans exects, important for the wetland?  Distributional Wetland Site	Slope (%):	Yes No
andform (hillslope, terrace, etc.): Abregion (LRR or MLRA) LRRL bil Map Unit Name: NTAGA re climatic / hydrologic conditions re Vegetation, Soil, re Vegetation, Soil, Soil, Whydrophytic Vegetation Present? Hydrophytic Vegetation Present? Wetland Hydrology Present? Remarks: (Explain alternative processes) SCR Wetland Hydrology Present? The Soil Present? Wetland Hydrology Present? Remarks: (Explain alternative processes) SCR Wetland Hydrology Indicators Primary Indicators (minimum of consumptions) Surface Water (A1)	Lat:  RA SILT  on the site typical  or Hydrology  or Hydrology  Yes  Yes  Yes  Yes  Toccedures here or in  UB/BHA	for this time of year significantly districted in a separate report COB CCC	Long: D-Z// S/O ar? Yes X N turbed? Delematic? (If need int locations, tran Is the Sa within a lif yes, op tt.)	e): NWI colo (If no, ex Are "Normal Colod, explain any ans exects, important for the wetland?  Distributional Wetland Site	Slope (%):	Yes No
ubregion (LRR or MLRA) LRRL pil Map Unit Name: NTAGA e climatic / hydrologic conditions e Vegetation, Soil, e Vegetation, Soil, guide Vegetation, Soil, e Vegetation, Soil, guide Vegetation Present? Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Remarks: (Explain alternative processes)  YDROLOGY Wetland Hydrology Indicators Primary Indicators (minimum of consumption) Surface Water (A1)	Lat:  RA FILT  s on the site typical of the site typical of the site typical of the site map show of the site sho	for this time of yea significantly dist naturally proteing sampling points No X No	Long:  D - Z/, S/O  ar? Yes X N  turbed?  blematic? (If need  int locations, tran  Is the Sa  within a  If yes, op  it.)	Are "Normal Colled, explain any ans assects, important for ampled Area Wetland?	Datum: classification:  xplain in Remarks.)  Circumstances" present?  swers in Remarks.)  features, etc.  YesNo  a ID:NA	Yes No
e climatic / hydrologic conditions e Vegetation, Soil, e Vegetation, Soil, e Vegetation, Soil, purpose of the condition of	on the site typical or Hydrology or Hydrology ch site map show Yes Yes Yes Toccedures here or in UB/BHA	for this time of yea significantly dist naturally probeing sampling points no x	ar? Yes X N turbed? blematic? (If need int locations, tran	Are "Normal Cled, explain any ans assects, important for impled Area Wetland?	cplain in Remarks.)  Circumstances" present?  swers in Remarks.)  features, etc.  YesNo>  a ID:N/A	Yes No
e climatic / hydrologic conditions e Vegetation, Soil, e Vegetation, Soil, e Vegetation, Soil, pummary OF FINDINGS : Attack Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Remarks: (Explain alternative property of the	on the site typical or Hydrology or Hydrology ch site map show Yes Yes Yes Toccedures here or in UB/BHA	for this time of yea significantly dist naturally probeing sampling points no x	ar? Yes X N turbed? blematic? (If need int locations, tran	Are "Normal Cled, explain any ans assects, important for impled Area Wetland?	cplain in Remarks.)  Circumstances" present?  swers in Remarks.)  features, etc.  YesNo>  a ID:N/A	Yes No
e Vegetation, Soil, e Vegetation, Soil, purpose vegetation, Soil, e Vegetation, Soil, e Vegetation, Soil, purpose vegetation Present? Hydrophytic Vegetation Present? Hydrosoil Present? Wetland Hydrology Present? Remarks: (Explain alternative properties of the purpose vegetation of the purpose vegetation present?  YDROLOGY Wetland Hydrology Indicators Primary Indicators (minimum of the purpose vegetation) Surface Water (A1)	or Hydrology, or Hydro	significantly distnaturally prob pling sampling poiNoXNoXna separate repor RUB CC	turbed? blematic? (If need int locations, translations, translations) Is the Sa within a lifyes, operation of the same of the	Are "Normal Cled, explain any ans insects, important for impled Area Wetland? Detional Wetland Site	Circumstances" present? swers in Remarks.) features, etc.  Yes No a ID:N/A	<u> </u>
DMMARY OF FINDINGS: Attack  Hydrophytic Vegetation Present?  Hydric Soil Present?  Wetland Hydrology Present?  Remarks: (Explain alternative property)  YDROLOGY  Wetland Hydrology Indicators  Primary Indicators (minimum of consumptions)	ch site map show  Yes Yes Yes Toccedures here or in  UB/BHA	naturally proteing sampling poi	Is the Sa within a If yes, op ort.)	led, explain any ans assects, important for ampled Area Wetland? otional Wetland Site	reatures, etc.  YesNo	<u> </u>
DMMARY OF FINDINGS: Attack  Hydrophytic Vegetation Present?  Hydric Soil Present?  Wetland Hydrology Present?  Remarks: (Explain alternative property)  YDROLOGY  Wetland Hydrology Indicators  Primary Indicators (minimum of consumptions)	ch site map show  Yes Yes Yes Toccedures here or in  UB/BHA	naturally proteing sampling poi	Is the Sa within a If yes, op ort.)	led, explain any ans assects, important for ampled Area Wetland? otional Wetland Site	reatures, etc.  YesNo	<u> </u>
Hydrophytic Vegetation Present? Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Remarks: (Explain alternative property)  Wetland Hydrology Indicators Primary Indicators (minimum of consumptions)	Yes	No X	Is the Sa within a lf yes, op	msects, important formula impled Area Wetland? Otional Wetland Site	Yes No _>	,
Hydric Soil Present?  Wetland Hydrology Present?  Remarks: (Explain alternative properties)  OPLAND SCR  YDROLOGY  Wetland Hydrology Indicators  Primary Indicators (minimum of company Surface Water (A1)	YesYes rocedures here or in  UB/SHA	No X No X n a separate repor	within a lf yes, op	Wetland?  otional Wetland Site	N/A	,
Hydric Soil Present?  Wetland Hydrology Present?  Remarks: (Explain alternative property)  JOHNE SCR  YDROLOGY  Wetland Hydrology Indicators  Primary Indicators (minimum of company Surface Water (A1)	YesYes rocedures here or in  UB/SHA	No X No X n a separate repor	If yes, op on m UN	TT	N/A	,
Wetland Hydrology Present?  Remarks: (Explain alternative properties)  PLAND SCR  YDROLOGY  Wetland Hydrology Indicators  Primary Indicators (minimum of company Surface Water (A1)	Yes rocedures here or in  UB/SHA	n a separate repor	nmun.	エアブ s		nimum of two required)
Remarks: (Explain alternative property of the PLAND SCR  YDROLOGY  Wetland Hydrology Indicators  Primary Indicators (minimum of the Surface Water (A1)	rocedures here or in	n a separate repor	nmun.	エアブ s		nimum of two required)
Wetland Hydrology Indicators  Primary Indicators (minimum of c  Surface Water (A1)	one is required; che				Secondary Indicators (mi	nimum of two required)
Wetland Hydrology Indicators  Primary Indicators (minimum of c  Surface Water (A1)	one is required; che				Secondary Indicators (mi	nimum of two required)
Primary Indicators (minimum of c Surface Water (A1)	one is required; che				Secondary Indicators (mi	nimum of two required)
Surface Water (A1)					10 1 /0/	
					Surface Soil Cracks (Be	
High Water Table (A2)			Leaves (B9)	_	Drainage Patterns (B10	
		Aquatic Fauna	a (B13)	_	Moss Trim Lines (B16)	
Saturation (A3)		Marl Deposits		-	Dry-Season W ater Tab Crayfish Burrows (C8)	
Water Marks (B1)		Hydrogen Sulf	fide Odor (C1) zospheres on Livir		Saturation Visible on A	
Sediment Deposits (B2)			Reduced Iron (C4)		Stunted or Stressed Pla	
Drift Deposits (B3) Algal Mat or Crust (B4)			Reduction in Tilled		Geomorphic Position (I	
Iron Deposits (B5)		Thin Muck Su		_	Shallow Aquitard (D3)	
Inundation Visible on Aeria	I Imagery (B7)		in in Remarks)		Microtopographic Relie	ef (D4)
Sparsely Vegetated Concar		_		_	_ FAC-Neutral Test (D5)	
Field Observations:	The second secon	organization of the second	11/2			
	Yes No	X Depth (inches	s): NA			
Water Table Present?	Yes No _>	Depth (inches	s): N/A			
Saturation Present?	Yes No _>	C Depth (inches	s):/V/A_	Wetland Hyd	trology Present? Yes	No <u>&gt;</u>
(includes capillary fringe) Describe Recorded Data (stream	acusa manitarin	a well aerial phot	os previous inspe	ections), if available	);	
Describe Recorded Data (Stream	ii gauge, monitoriii	ig won, donar prior		***************************************		
Remarks:						

Remarks: (Include photo numbers here or on a separate sheet.)

Photo # 821

Direction of Photo Wes +

Project Code: W29108c 020 Sampling Point: Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Matrix Redox Features (inches) Color (moist) Color (moist) Remarks <sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup>Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: Indicators for Problematic Hydric Soils3: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Thin Dark Surface (S9) (LRR R, MLRA 149B) Loamy Mucky Mineral (F1) (LRR K, L) Black Histic (A3) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4)
Stratified Layers (A5)
Depleted Below Dark Surface (A11) Dark Surface (S7) (LRR K, L, M)
Polyvalue Below Surface (S8) (LRR K, L) Loamy Gleyed Matrix (F2) Thin Dark Surface (S9) (LRR K, L)
Iron-Manganese Masses (F12) (LRR K, L, R)
Piedmont Floodplain Soils (F19) (MLRA 149B) Depleted Matrix (F3) Thick Dark Surface (A12) Redox Dark Surface (F6) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Depleted Dark Surface (F7) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Red Parent Material (TF2) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) 3 Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes No Remarks:

Project/Site: NWC Route 5 & R	Route 77 Town/County: Pembroke/Genesee County Sampling Date: 9 · Z3 · 20 22
pplicant/Owner: Geis Constru	
vestigator(s): Scott Livingstor	ne & Tom Somerville Section, Township, Range: 151-24.1
andform (hillslope, terrace, etc	c.): Depression Local relief (concave, convex, none):CONCAVE Slope (%):
ubregion (LRR or MLRA) <u>LR</u>	RL Lat: Long: Datum: NAD83
oil Map Unit Name: LAM	RRL Lat: Long: Datum: NAD83  MSON VERY FINE SANDY LOAM NW I classification: PSS
re climatic / hydrologic condition	ons on the site typical for this time of year? Yes No (If no, explain in Remarks.)
	, or Hydrology significantly disturbed?
	, or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)
	ttach site map showing sampling point locations, transects, important features, etc.
	V In the Sampled Area
Hydrophytic Vegetation Prese	within a Wetland? Yes No
Hydric Soil Present?	Yes X NO
Wetland Hydrology Present?	Yes No If yes, optional Wetland Site ID: e procedures here or in a separate report.)
YDROLOGY	
Wetland Hydrology Indicato	ors: Secondary Indicators (minimum of two require
	of one is required; check all that apply)  Surface Soil Cracks (B6)
Surface Water (A1)	Water-Stained Leaves (B9) Drainage Patterns (B10)
High Water Table (A2)	Aquatic Fauna (B13) Moss Trim Lines (B16)
Saturation (A3)	Marl Deposits (B15) Dry-Season W ater Table (C2)
Water Marks (B1)	Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8)
Sediment Deposits (B2)	Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)  Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1)
Drift Deposits (B3)	Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1)  Recent Iron Reduction in Tilled Soils (C6) Geomorphic Position (D2)
Algal Mat or Crust (B4) Iron Deposits (B5)	Thin Muck Surface (C7)  Shallow Aquitard (D3)
Iron Deposits (B5) Inundation Visible on Ae	
Sparsely Vegetated Con	
Field Observations:	V.
Surface Water Present?	Yes No Depth (inches):
Martin Table Descrit	Vos No X Denth (inches): N/4
Water Table Present?	Yes No Depth (inches): N/A Wetland Hydrology Present? Yes No
Saturation Present?	
Saturation Present?	
Saturation Present?	earn gauge, monitoring well, aerial photos, previous inspections), if available:
Saturation Present?	
Saturation Present?	
Saturation Present? (includes capillary fringe) Describe Recorded Data (stre	
Saturation Present? (includes capillary fringe) Describe Recorded Data (stre	
Saturation Present? (includes capillary fringe) Describe Recorded Data (stre	
Saturation Present? (includes capillary fringe) Describe Recorded Data (stre	
Saturation Present? (includes capillary fringe) Describe Recorded Data (stre	
Saturation Present? (includes capillary fringe) Describe Recorded Data (stre	
Saturation Present? (includes capillary fringe) Describe Recorded Data (stre	
Saturation Present? (includes capillary fringe) Describe Recorded Data (stre	

VEGET	ATION	: Use	scientific	names	of	nlants
AFOF	TI IOII	. 030	Scientific	Hailies	O.	pianto

Tree Stratum (Plot size:30' )	Absolute Dominant Indicator % Cover Species? Status Dominance Test worksheet:
1. Faxinus gennsylvanica	Number of Dominant Species
2	4 (5)
	Downst of Dominant Consise
4.     5.	That Are ORI EACIN OF EAC: 18 /s (A/R
6	
7.	
	OBL species x 1 = FACW species x 2 =
Sapling/Shrub Stratum (Plot size: 15' )	
1. Cornus Pace muse	- ACI consists
2. Chamnus Cathartiza	UPL species x5 =
3. Faxinus pennsylvaniza	8 N FACE   Column Totals: (A) (B)
4	
5	
6	Hydrophytic Vegetation Indicators:
7	1 - Rapid Test for Hydrophytic Vegetation
	98 = Total Cover
Herb Stratum (Plot size:5')	3 - Prevalence Index is < 3.0
1. Symphyotri Chun lateriftonin	
2. Polygonum virginieraum	
3. Solidago rugosa	
4. Germ alegotum	Indicators of hydric soil and wetland hydrology must
5. Losa militiflara	S N Coc. 1
	Domination of Vogethier Street
6	Tree - voody plants 3 in. (7.6 cm) or more in diameter
7.	at breast height (DBH), regardless of height.
8	dapingsinas woody plants loss than sair
9	and greater than 3.28 ft (1 m) tall.
10	Herb - All herbaceous (non-woody) plants, regardless
11.	
12	Woody vines - All woody vines greater than 3.28 ft in
	66 = Total Cover
Woody Vine Stratum (Plot size: 30',	Parallel Control of the Control of t
1. Vitis aestivalis	10 Y FACU
2	Community Type: Confor Charles SWARY
3.	Hydrophytic PSI-26
	Vegetation
4	rieselli les / No
Remarks: (Include photo numbers here or on a separate s	Total Cover
	tion of Photo_West
Photo # Directi	tion of Photo Vies 1
	dela
-	very dense strabs
	wetland wb

Project Code: W29I08c Sampling Point: Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Redox Features (inches) Color (moist) Remarks Color (moist) <sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup>Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils3: Hydric Soil Indicators: 2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Histosol (A1) Histic Epipedon (A2) Polyvalue Below Surface (S8) (LRR R, MLRA 149B) Thin Dark Surface (S9) (LRR R, MLRA 149B) Loamy Mucky Mineral (F1) (LRR K, L) Black Histic (A3) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Dark Surface (S7) (LRR K, L, M)
Polyvalue Below Surface (S8) (LRR K, L)
Thin Dark Surface (S9) (LRR K, L) Hydrogen Sulfide (A4) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thick Dark Surface (A12) Iron-Manganese Masses (F12) (LRR K, L, R) Redox Dark Surface (F6) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Depleted Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 149B) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Red Parent Material (TF2) Redox Depressions (F8) Sandy Redox (S5) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) Dark Surface (S7) (LRR R, MLRA 149B) <sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): NONE Type: Hydric Soil Present? Depth (inches): Remarks:

e climatic / hydrologic condition  e Vegetation, Soil	s on the site typical f	for this time of year? \ _ significantly disturbe	/es No   d?	Normal Circumstances" p	s.) present? YesX_ No
WMMARY OF FINDINGS: Atta					s.)
lydrophytic Vegetation Present lydric Soil Present? Vetland Hydrology Present?	? Yes	No X	Is the Sampled Area		No ×
				-	
DROLOGY Vetland Hydrology Indicators		on the second		Secondary Indicat	ors (minimum of two require
rimary Indicators (minimum of		ek all that apply)		Surface Soil Cra	
Surface Water (A1)		_ Water-Stained Leav	res (R9)	Drainage Patter	
High Water Table (A2)		_ Aquatic Fauna (B13		Moss Trim Lines	
Saturation (A3)		Marl Deposits (B15		Dry-Season W a	
Water Marks (B1)		Hydrogen Sulfide O		Crayfish Burrow	
_ Sediment Deposits (B2)		Oxidized Rhizosph	eres on Living Roots (C	3) Saturation Visib	le on Aerial Imagery (C9)
_ Drift Deposits (B3)		_ Presence of Reduc		Stunted or Stres	
_ Algal Mat or Crust (B4)	-		ion in Tilled Soils (C6)	Geomorphic Po	
_ Iron Deposits (B5)	_	_ Thin Muck Surface		Shallow Aquitar	
<ul><li>Inundation Visible on Aerial</li><li>Sparsely Vegetated Concar</li></ul>		Other (Explain in F	Remarks)	Microtopograph FAC-Neutral Te	
Sparsely vegetated Concar ield Observations:	ve Surface (Bo)	man and the second seco		FAC-Neutral Te	St (D3)
	Yes No X	Denth (inches):	NA		
	Yes No X		NIA		
	Yes No _X		N/A Wetlan	nd Hydrology Present?	Yes No_X_
ncludes capillary fringe)					
escribe Recorded Data (stream	gauge, monitoring	well, aeriai photos, pre	evious inspections), il av	allable.	
emarks:					

1/	CCET	MOLTA	Lloo	eciontific	names	of	plante
V	EGEL	AHON	Use	scientific	names	OT	plants.

ree Stratum (Plot size: 30' )	Absolute % Cover		inant Indicator ies? Status	Dominance Test worksheet:		
Prince Sero Line		V	FACU	Number of Dominant Species That Are OBL, FACW, or FAC:	0	(A)
		Ÿ	FACU	mat Are OBL, FACVV, of FAC.		_ ('')
Ynnus pensylvania				Total Number of Dominant Species Across All Strata:	7	(B)
						_ (-/
				Percent of Dominant Species That Are OBL, FACW, or FAC:	0%	(A/B)
				machie obe, i how, or the.		_ ( - /
				Prevalence Index worksheet:		
				Total % Cover of:	Multiply by:	
	25	_ = Tota	al Cover	OBL species x 1	=	
apling/Shrub Stratum (Plot size: 15'	_)			FACW species x2		_
taxinus americana			FACU	FAC species 21 x 3 FACU species 155 x 4	- 671	_
Conicera tutarica	30	- Y	FACU	UPL species  x 5		-
Rosa multiflora	12	N	FACU	Column Totals: 134 (A	723	— (B)
Corns racemosa		N	FAC			
Mulus so.		N	NI	Prevalence Index = B/A =	3.93	
Cary a glabra		N	FAGU	Hydrophytic Vegetation Indicat	tors:	I I II
Sinsi a		(		1 - Rapid Test for Hydrophyti		
	97	- T-	al Causa	2 - Dominance Test is >50%		
		_= 101	al Cover	3 - Prevalence Index is < 3.		
erb Stratum (Plot size: 5' )	18	V	ar.	4 - Morphological Adaptation	s <sup>1</sup> (Provide su	pporting
Rosa multiflura			FACU	data in Remarks or on a s		
Francis americana			FACU	Problematic Hydrophytic veg	jetation (Exp	icilii)
Pubus occidentalis				Indicators of hydric soil and wet	land hydrolog	y must
Gem aleppien		N	FAC	be present, unless disturbed or	problematic.	
Polygonum virginianum	5	N	FAC	Definitions of Vegetation Strate	a:	
				Tree - Woody plants 3 in. (7.6 cm	) or more in d	iameter
				at breast height (DBH), regardle	ss of height.	
				Sapling/shrub - Woody plants les	ss than 3 in. D	вн
				and greater than 3.28 ft (1 m) ta		
0.				Herb - All herbaceous (non-wood	dy) plants, reg	ardless
1				of size, and woody plants less the	han 3.28 ft tal	1.
2				Woody vines - All woody vines	greater than 3	.28 ft in
	47 =	Total C	over	height.		
(Dist size 20)		Total	ovoi			CONTRACTOR
Voody Vine Stratum (Plot size: 30')		11	FACU			
Vitis acstivulis		,		Community Type: Successi	onal th	noblan
•						
•				Hydrophytic Vegetation		
				Present? Yes	No X	
		= To	tal Cover			
Remarks: (Include photo numbers here or on a separ	ate sheet.)		- 1			
Photo # P23 Dir	ection of Phot	:0 E	ast			
					÷	
				1		

Project Code: W29108c SOIL Sampling Point: Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Matrix Redox Features (inches) Color (moist) Color (moist) <sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains <sup>2</sup>Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: Indicators for Problematic Hydric Soils3: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histic Epipedon (A2) Black Histic (A3) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
Dark Surface (S7) (LRR K, L, M)
Polyvalue Below Surface (S8) (LRR K, L) Thin Dark Surface (S9) (LRR R, MLRA 149B) Loamy Mucky Mineral (F1) (LRR K, L) Loamy Gleyed Matrix (F2) Depleted Matrix (F3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, R) Sandy Mucky Mineral (S1) Piedmont Floodplain Soils (F19) (MLRA 149B) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Sandy Redox (S5) Red Parent Material (TF2) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) <sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): NONE Type: Depth (inches): **Hydric Soil Present?** Yes Remarks:

Investigator(s): Scott Livingstone & Tom Somerville  Landform (hillslope, terrace, etc.): Deplession Local relief (consumption (LRR or MLRA) LRRL Lat:  Soil Map Unit Name: LAM SON VERY FINE SAM  Are climatic / hydrologic conditions on the site typical for this time of the site of t	Section, Township, Range:
Are Vegetation, Soil, or Hydrology naturally p  BUMMARY OF FINDINGS: Attach site map showing sampling p  Hydrophytic Vegetation Present? Yes No  Hydrology Present? Yes No  Remarks: (Explain alternative procedures here or in a separate reg.)  Deplession Local relief (co.)  Deplession	Datum: NAD83    Long: Datum: NAD83   NW I classification: Description: Description: No Description: Description: Description: Description: Description: No Description: Descri
andform (hillslope, terrace, etc.): Deplession Local relief (consubregion (LRR or MLRA) LRRL Lat:  Soil Map Unit Name: LAIN SON VERY FINE SAN  Are climatic / hydrologic conditions on the site typical for this time of your every expectation, Soil, or Hydrology significantly of the vegetation, Soil, or Hydrology naturally possible vegetation, Soil, or Hydrology naturally possible vegetation Present?  Hydrophytic Vegetation Present? Yes No  Hydroc Soil Present? Yes No  Wetland Hydrology Present? Yes No  Remarks: (Explain alternative procedures here or in a separate region.)	Datum: NAD83    Long: Datum: NAD83   NW I classification: Description: Description: No Description: Description: Description: Description: Description: No Description: Descri
ubregion (LRR or MLRA) LRRL Lat:  oil Map Unit Name: LAT SON VERY FINE SAN  re climatic / hydrologic conditions on the site typical for this time of y  re Vegetation, Soil, or Hydrology significantly of  re Vegetation, Soil, or Hydrology naturally p  UMMARY OF FINDINGS: Attach site map showing sampling p  Hydrophytic Vegetation Present? Yes No  Hydric Soil Present? Yes No  Wetland Hydrology Present? Yes No  Remarks: (Explain alternative procedures here or in a separate reg	Long:
re climatic / hydrologic conditions on the site typical for this time of yre Vegetation, Soil, or Hydrology significantly or Vegetation, Soil, or Hydrology naturally pummary OF FINDINGS: Attach site map showing sampling pummary	NW I classification:  year? Yes No (If no, explain in Remarks.)  disturbed?
re climatic / hydrologic conditions on the site typical for this time of y re Vegetation, Soil, or Hydrology significantly or re Vegetation, Soil, or Hydrology naturally p  UMMARY OF FINDINGS: Attach site map showing sampling p  Hydrophytic Vegetation Present? Yes No  Hydric Soil Present? Yes No  Wetland Hydrology Present? Yes No  Remarks: (Explain alternative procedures here or in a separate reg	year? Yes No (If no, explain in Remarks.) disturbed?
re Vegetation, Soil, or Hydrology significantly of the Vegetation, Soil, or Hydrology naturally posterior vegetation, Soil, or Hydrology naturally posterior vegetation, and showing sampling posterior vegetation Present?  Hydrophytic Vegetation Present?  Hydric Soil Present?  Yes No  Wetland Hydrology Present?  Yes No  Remarks: (Explain alternative procedures here or in a separate reg	Are "Normal Circumstances" present? Yes No  problematic? (If needed, explain any answers in Remarks.)  point locations, transects, important features, etc.  Is the Sampled Area  within a Wetland? Yes No
re Vegetation, Soil, or Hydrology significantly of the Vegetation, Soil, or Hydrology naturally posterior vegetation, Soil, or Hydrology naturally posterior vegetation, and showing sampling posterior vegetation Present?  Hydrophytic Vegetation Present?  Hydric Soil Present?  Yes No  Wetland Hydrology Present?  Yes No  Remarks: (Explain alternative procedures here or in a separate reg	Are "Normal Circumstances" present? Yes No  problematic? (If needed, explain any answers in Remarks.)  point locations, transects, important features, etc.  Is the Sampled Area  within a Wetland? Yes No
SUMMARY OF FINDINGS: Attach site map showing sampling position Present?  Hydrophytic Vegetation Present?  Hydric Soil Present?  Wetland Hydrology Present?  Remarks: (Explain alternative procedures here or in a separate reg	point locations, transects, important features, etc.  Is the Sampled Area within a Wetland?  Yes
Hydrophytic Vegetation Present?  Hydric Soil Present?  Wetland Hydrology Present?  Remarks: (Explain alternative procedures here or in a separate reg	Is the Sampled Area within a Wetland?  Yes No
Hydric Soil Present?  Wetland Hydrology Present?  Remarks: (Explain alternative procedures here or in a separate represent of the separate represents of the	within a Wetland? Yes No
Hydric Soil Present?  Wetland Hydrology Present?  Remarks: (Explain alternative procedures here or in a separate represent of the separate represents of the	- 1/
Wetland Hydrology Present? Yes No Remarks: (Explain alternative procedures here or in a separate report of the control of the	I Kura autional Westland Site ID: M
Remarks: (Explain alternative procedures here or in a separate rep	i ir ves. optional vvetiand site ib.
	port.)
IYDROLOGY	
	Secondary Indicators (minimum of two required)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required; check all that apply	
Surface Water (A1) Water-Stain High Water Table (A2) Aquatic Fau	Ti-11 (D40)
Saturation (A3) Marl Depos	
	Sulfide Odor (C1) Crayfish Burrows (C8)
	hizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)
	of Reduced Iron (C4) Stunted or Stressed Plants (D1)
	Reduction in Tilled Soils (C6) Geomorphic Position (D2)
Iron Deposits (B5) Thin Muck :	Surface (C7) Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7) Other (Exp	olain in Remarks) Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)
Field Observations:	-1/2
Surface Water Present? Yes No X Depth (inch	nes):
Water Table Present? Yes No Depth (inch	nes): / / / / /
Saturation Present? Yes No Depth (inch	nes): Wetland Hydrology Present? Yes No
(includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial ph	notos, previous inspections), if available:
	res): MA res): MA res): MA res): MO res

Remarks: (Include photo numbers here or on a separate sheet.)

Woody Vine Stratum (Plot size: 30' )

Photo # 624 Direction of Photo Gast

1. Vitis aestivalis 20 y Facu

wetland w6

20 = Total Cover

62 = Total Cover

Woody vines - All woody vines greater than 3.28 ft in

height.

Hydrophytic Vegetation Present?

PMMARY OF FINDINGS: Attach site map showing sampling point locations, transects, important features, etc.  Is the Sampled Area within a Wetland? Yes	ubregion (LRR or MLRA) <u>LRRL</u> oil Map Unit Name: <u>COLLA</u> re climatic / hydrologic conditions	State: New York  Tom Somerville Section  Lake Pla, A Local relief (concave, con  Lat:  AMER STLT LOAM, Z  on the site typical for this time of year? Yes	unty Sampling Date: 8.23.2022  K Sampling Point: D 2 9  In, Township, Range: 151-24.1  Invex, none): CONVEX Slope (%): 3  Long: Datum: NAD83  K No (If no, explain in Remarks.)  Are "Normal Circumstances" present? Yes No
Is the Sampled Area   within a Wetland?   Yes   No   X   If yes, optional Wetland Site ID:   If yes, optional Wetland Pes ID:   If yes, opt			
Available (Caraytish Burrows (CB)  Seturation (A3)  Water Marks (B1)  Seturation (A3)  Seturation (A3)  Water Marks (B1)  Seturation (A3)  Water Marks (B1)  Seturation (A3)  Seturation (A3)  Water Marks (B1)  Seturation (A3)  Seturation (A3)  Water Marks (B1)  Seturation (A3)  Seturation (A3)  Seturation (A3)  Seturation (A3)  Water Marks (B1)  Seturation (B1)  Seturatio	UMMARY OF FINDINGS : Attac	h site map showing sampling point location	ons, transects, important features, etc.
Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required; check all that apply)  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Driv-Season W ater Table (C2)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Iron	Hydric Soil Present? Wetland Hydrology Present? Remarks: (Explain alternative pro	Yes No	within a Wetland? Yes No
Netland Hydrology Indicators:   Secondary Indicators (minimum of two required primary Indicators (minimum of one is required; check all that apply)   Surface Soil Cracks (B6)			
Primary Indicators (minimum of one is required; check all that apply)  Surface Water (A1)  High Water Table (A2)  Marl Deposits (B15)  Saturation (A3)  Water Marks (B1)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Inon Deposits (B5)  Inon Deposits (B5)  Inon Deposits (B5)  Inon Deposits (B5)  Dry-Season W ater Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9)  Thin Muck Surface (C7)  Shallow Aquitard (D3)  Inundation Visible on Aerial Imagery (B7)  Sparsely Vegetated Concave Surface (B8)  Saturation Present?  Yes  No  Depth (inches):  Depth (inches):  Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	YDROLOGY		
Surface Water (A1)			Secondary Indicators (minimum of two required
High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8)  Field Observations:  Surface Water Present? Vater Table (A2) Aquatic Fauna (B13) Moss Trim Lines (B16) Dry-Season W ater Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Soundation (C4) Stunted or Stressed Plants (D1) Recent Iron Reduction in Tilled Soils (C6) Geomorphic Position (D2) Thin Muck Surface (C7) Shallow Aquitard (D3) Microtopographic Relief (D4) FAC-Neutral Test (D5)  Factorial Present? Yes No Depth (inches): Depth (inches): Depth (inches): Depth (inches): Depth (inches): Depth (inches): Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		ne is required; check all that apply)	Surface Soil Cracks (B6)
Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B7)  Sparsely Vegetated Concave Surface (B8)  Field Observations:  Surface Water Present?  Ves No Depth (inches):  Saturation (C1)  Dry-Season W ater Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9)  Stunted or Stressed Plants (D1)  Recent Iron Reduction in Tilled Soils (C6)  Geomorphic Position (D2)  Shallow Aquitard (D3)  Microtopographic Relief (D4)  FAC-Neutral Test (D5)  Saturation Present?  Yes No Depth (inches):  Depth (inches):  Depth (inches):  Depth (inches):  Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		Water-Stained Leaves (E	Drainage Patterns (B10)
Water Marks (B1)			
Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B7)  Sparsely Vegetated Concave Surface (B8)  Oescribe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:  Oxidized Rhizospheres on Living Roots (C3)  Saturation Visible on Aerial Imagery (C9)  Stunted or Stressed Plants (D1)  Stunted or Stressed Plants (D1)  Seturation Visible on Aerial Imagery (C9)  Stunted or Stressed Plants (D1)  Seturation Presents (C4)  Stunted or Stressed Plants (D1)  Seturation Present Imagery (B7)  Other (Explain in Remarks)  Depth (inches):  Depth (inches):  Depth (inches):  Depth (inches):  Depth (inches):  Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:			
Drift Deposits (B3)			
Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Geomorphic Position (D2)  Iron Deposits (B5) Thin Muck Surface (C7) Shallow Aquitard (D3)  Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Microtopographic Relief (D4)  Sparsely Vegetated Concave Surface (B8) FAC-Neutral Test (D5)  Selected Observations:  Surface Water Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Depth (inches): No Depth (inches)			13 T. M. M. 1970 F. B. M. M. 1970 B. M. 1970 B. M. 1970 B. M. M. 1970 B. M. M. M. M. 1970 B. M. 1970 B. M. 197
Iron Deposits (B5) Thin Muck Surface (C7) Shallow Aquitard (D3) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Microtopographic Relief (D4) Sparsely Vegetated Concave Surface (B8) FAC-Neutral Test (D5) Surface Water Present? Yes No Depth (inches): Vater Table Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:			
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Microtopographic Relief (D4) Sparsely Vegetated Concave Surface (B8) FAC-Neutral Test (D5)  Surface Water Present? Yes No Depth (inches): Vater Table Present? Yes No Depth (inches): Surface Water Present? Yes No Depth (inches): S			
Sparsely Vegetated Concave Surface (B8) FAC-Neutral Test (D5)  Field Observations:  Surface Water Present?			
Surface Water Present? Yes No Depth (inches):			
Vater Table Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Depth (inches): No Depth (inches): Wetland Hydrology Present? Yes No Depth (inches): No	ield Observations:		
Vater Table Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Depth (inches): No Depth (inches): Wetland Hydrology Present? Yes No Depth (inches): No	Surface Water Present?	es No X Depth (inches);//	/ <u>A</u>
nciudes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Vater Table Present?	es No Depth (inches):^	V/A
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Saturation Present? includes capillary fringe)	es No Depth (inches):^	Wetland Hydrology Present? Yes No
Remarks:		gauge, monitoring well, aerial photos, previou	s inspections), if available:
Remarks:	Describe Necorded Data (Stream		
	Describe Necorded Data (stream		
	Remarks:		

Remarks:	(Include p	hoto	numbers	here o	or on	a separ	ate	sheet.	.)

Direction of Photo West

= Total Cover

Yes No X

Vegetation

Present?

Project Code: W29108c SOIL Sampling Point: Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Redox Features (inches) Color (moist) Color (moist) Type<sup>1</sup> Texture Remarks <sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup>Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: Indicators for Problematic Hydric Soils3: Histosol (A1) Histic Epipedon (A2) Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) 5 cm Mucky Peat or Peat (\$3) (LRR K, L, R) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (LRR K, L) Dark Surface (S7) (LRR K, L, M)
Polyvalue Below Surface (S8) (LRR K, L) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Depleted Matrix (F3) Depleted Below Dark Surface (A11) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, R) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Piedmont Floodplain Soils (F19) (MLRA 149B) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Red Parent Material (TF2) Depleted Dark Surface (F7) Redox Depressions (F8) Sandy Redox (S5) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) <sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes Remarks:

Applicant/Owner: Geis Construction  State: New York  Section, Township, Range: 15.1-24.1  Section, Township, Range: 15.1-24.1  Section, Township, Range: 15.1-24.1  Section, Township, Range: 15.1-24.1  Subregion (LRR or MLRA) LRRL  Lat: Long: Datum: NAD83  NW I classification: Datum: NAD83  In Will classification: Datum: NAD83  NW I classification: Property or significantly disturbed? Are "Normal Circumstances" present? Yes were Vegetation Soil or rhydrology significantly disturbed? Are "Normal Circumstances" present? Yes were Vegetation or rhydrology naturally problematic? (If needed, explain any answers in Remarks.)  SUMMARY OF FINDINGS: Attach site map showing sampling point locations, transects, important features, etc.  Hydrophytic Vegetation Present? Yes No If yes, optional Wetland? Yes Within a We	State: New York Sampling Point: Stope (%): Details Accal relief (concave, convex, none): Concave: Stope (%): Datum: NADB3  RAYEL Lat: Long: Datum: NADB3  RAYEL PITS  NW I classification: Datum: NADB3  NW I classification: PFO  If no, explain in Remarks.)  Are "Normal Circumstances" present? Yes No naturally problematic? (If needed, explain any answers in Remarks.)  S. Attach site map showing sampling point locations, transects, important features, etc.  Is the Sampled Area within a Wetland? Yes No If yes, optional Wetland Site ID: WB No Inative procedures here of in a separate report.)  WB - 32 (CLOSE)  CORROW FIT  Aquatic Fauna (B13) Moss frim Lines (B16)  Aquatic Fauna (B13) Moss frim Lines (B16)  Aquatic Fauna (B13) Moss frim Lines (B16)  Hydrogen Sulfide Odor (C1) Stunded of Stressed Plants (D1)  Recent fron Reducted Iron (C4) Stunded or Stressed Plants (D1)  Recent fron Reduction in Tilled Soils (C6) Shallow Aquitar (D3)  Thin Muck Surface (C7) Misterers reported Paller (M4)	State New York  Section, Township, Range: 15.1-24.1  Indiform (hillslope, terrace, etc.): Deptember 1. Deptember 2. Deptem	State: New York. Sampling Point: Section, Township, Range: 15-1-24.1  Section, Township, Range: 15-1-24.1  Slope (%): Obdures Indicators: Section Township, Range: 15-1-24.1  Sold Map Unit Name: ARVEL Lat: Long: Datum: NADB3  INVI classification: Promition of Map Unit Name: ARVEL Lat: Long: Datum: NADB3  INVI classification: Promition of Map Unit Name: ARVEL Lat: Long: Datum: NADB3  Invi classification: Promition of Map Unit Name: ARVEL Lat: Long: Datum: NADB3  Invi classification: Promition of Map Unit Name: ARVEL Lat: Long: Datum: NADB3  Invi classification: Promition of Map Unit Name: Are Normal Circumstances' present? Yes No Interest Normal Circumstances Normal Circumstances Normal Circumstances Normal Circumstances	pplicant/Owner_Geis Construction		oute 77 Town/County: Pembroke/Genesee	County Sampling Date: 8-24-2022
undform (hillslope, terrace, etc.): Dep (%): Object (concave, convex, none): CONCAVE Slope (%): Object (%): Object (concave, convex, none): CONCAVE Slope (%): Object (concave, convex, none): Concave, none):	e, etc.): Dep (%): De	undform (hillslope, terrace, etc.): Dep (%): Dep	undform (hillslope, terrace, etc.): Dept China Local relief (concave, convex, none): CONCAVE Slope (%): breglon (LRR or MLRA) LRRL Lat: Long:	undform (hillslope, terrace, etc.): Dept China Local relief (concave, convex, none): CONCAVE Slope (%): Deturn: MAD83 birbeglon (LRR or MLRA) LRRL Lat: Long:	plicant/Owner: Geis Constru-		
undform (hillslope, terrace, etc.): Dep (%): Object (concave, convex, none): CONCAVE Slope (%): Object (%): Object (concave, convex, none): CONCAVE Slope (%): Object (concave, convex, none): Concave, none):	e, etc.): Dep (%): De	undform (hillslope, terrace, etc.): Dep (%): Dep	undform (hillslope, terrace, etc.): Dept China Local relief (concave, convex, none): CONCAVE Slope (%): breglon (LRR or MLRA) LRRL Lat: Long:	undform (hillslope, terrace, etc.): Dept China Local relief (concave, convex, none): CONCAVE Slope (%): Deturn: MAD83 birbeglon (LRR or MLRA) LRRL Lat: Long:	vestigator(s): Scott Livingston	e & Tom Somerville Sec	ction, Township, Range: 151-24.1
Datum: NAU6s   Lat:	LRRL Lat:	Long:   Long	Long:   Long	Long:   Long	indform (hillslope, terrace, etc.)	): DeD (ession Local relief (concave,	convex, none): CONCAVE Slope (%):
will Map Unit Name:	NW I classification:   PFO	with ap Unit Name: GRAVEL PT3  will dap Unit Name: GRAVEL PT3  will dap Unit Name: GRAVEL PT3  we definatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)  e definatic / hydrology significantly disturbed?  e Vegetation Soil or Hydrology significantly disturbed?  e Vegetation Soil or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)  JMMARY OF FINDINGS: Attach site map showing sampling point locations, transects, important features, etc.  Is the Sampled Area within a Wetland?  Hydrophytic Vegetation Present? Yes No If yes No If yes, optional Wetland Site ID: Wes No If yes, optional Wetland Site ID: Wes No If yes, optional Wetland Site ID: Wes No If yes, optional Wetland Site ID: Westland Hydrology Indicators: (minimum of two requires Notation of two Indicators (minimum of two requires Notation of two Indicators (minimum of two Indicators (minimum of Indicators (Minimum	with lap Unit Name:	with lap Unit Name:	bregion (LRR or MLRA) LRR	RI lat:	Long: Datum: NAD83
e climatic / hydrologic conditions on the site typical for this time of year? Yes	Is the Sampled Area within a Wetland?  When the sire typical for this time of year? Yes No (If no, explain in Remarks.)  Are "Normal Circumstances" present? Yes No iii or Hydrology significantly disturbed?  Are "Normal Circumstances" present? Yes No iii or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)  So Attach site map showing sampling point locations, transects, important features, etc.  Is the Sampled Area within a Wetland?  Yes No Ves No	e climatic / hydrologic conditions on the site typical for this time of year? Yes	e climatic / hydrologic conditions on the site typical for this time of year? Yes	e climatic / hydrologic conditions on the site typical for this time of year? Yes	I Man Unit Name: (RA)	VEI PIIS	NW I classification: PFO
re Vegetation, Soil, or Hydrology significantly disturbed? Are "Normal Circumstances present?" Tes	ill, or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes naturally problematic? (if needed, explain any answers in Remarks.)  S.: Attach site map showing sampling point locations, transects, Important features, etc.  Present? Yes No ls the Sampled Area within a Wetland? Yes No lf yes, optional Wetland Site ID: No	re Vegetation, Soil, or Hydrology significantly disturbed?	re Vegetation, Soil, or Hydrology significantly disturbed?	re Vegetation, Soil, or Hydrology significantly disturbed?	liatia / budaslasia condition	no on the cite typical for this time of year? Y	'es X No (If no, explain in Remarks.)
e Vegetation, Soil, or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)  JMMARY OF FINDINGS: Attach site map showing sampling point locations, transects, important features, etc.  Hydrophytic Vegetation Present?	anturally problematic? (If needed, explain any answers in Remarks.)  S: Attach site map showing sampling point locations, transects, important features, etc.  Is the Sampled Area within a Wetland?  Yes No If yes, optional Wetland Site ID:  WB - 32 (CLOSE)  OORFOW  Author Stained Leaves (B9)  Aquatic Fauna (B13)  Moss Trim Lines (B16)  Aquatic Fauna (B15)  Marl Deposits (B15)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheres on Living Roots (C3)  Presence of Reduced Iron (C4)  Recent Iron Reduction in Tilled Soils (C6)  Thin Muck Surface (C7)  Is the Sampled Area within any answers in Remarks.)  No ——  Secondary Indicators (minimum of two required:  Secondary Indicators (minimum of two required:  Secondary Indicators (minimum of two required:  Surface Soil Cracks (B6)  Drainage Patterns (B10)  Moss Trim Lines (B16)  Dry-Season W ater Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9)  Stunted or Stressed Plants (D1)  Recent Iron Reduction in Tilled Soils (C6)  Thin Muck Surface (C7)  Shallow Aquitard (D3)	e Vegetation, Soil, or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)  IMMARY OF FINDINGS: Attach site map showing sampling point locations, transects, important features, etc.  Hydrophytic Vegetation Present?	e Vegetation, Soil or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)  JMMARY OF FINDINGS: Attach site map showing sampling point locations, transects, important features, etc.  Hydrophytic Vegetation Present?	e Vegetation, Soil or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)  JMMARY OF FINDINGS: Attach site map showing sampling point locations, transects, important features, etc.  Hydrophytic Vegetation Present?	e Climatic / Hydrologic condition	es Hudrology significantly disturbed	d? Are "Normal Circumstances" present? Yes No
JMMARY OF FINDINGS: Attach site map showing sampling point locations, transects, important features, etc.  Hydrophytic Vegetation Present?  Hydric Soil Present?  Wetland Hydrology Present?  Wes No If yes, optional Wetland?  Features: (Explain alternative procedures here or in a separate report.)  Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required; check all that apply)  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sudiment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Availage Marks Applied Area  within a Wetland?  Is the Sampled Area  within a Wetland?  Yes No  If yes, optional Wetland?  Yes No  If yes, optional Wetland Site ID:  Secondary Indicators (minimum of two Surface Soil Cracks (B6)  Surface Soil Cracks (B6)  Drainage Patterns (B10)  Moss Trim Lines (B16)  Dry-Season W ater Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imager Secondary Indicators (minimum of two Surface Soil Cracks (B6)  Surface Soil Cracks (B6)  Drainage Patterns (B10)  Moss Trim Lines (B16)  Dry-Season W ater Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imager Secondary Indicators (minimum of two Secondary Indicators (minimum	S: Attach site map showing sampling point locations, transects, important features, etc.  Present? Yes X No	Is the Sampled Area within a Wetland?   Yes   No   No   No   No   No   No   No   N	IMMARY OF FINDINGS: Attach site map showing sampling point locations, transects, important features, etc.  Hydrophytic Vegetation Present?  Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required; check all that apply)  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Oxidized Rhizospheres on Living Roots (C3)  Algal Mat or Crust (B4)  Iron Deposits (B3)  Indicators (B4)  Indicators (B4)  Recent from Reduction in Tilled Soils (C6)  Indicators (B4)  Indicators (B4)  Recent from Reduction in Tilled Soils (C6)  Shallow Aquitard (D3)  Microtopographic Relief (D4)  Sparsely Vegetated Concave Surface (B8)  FAC-Neutral Test (D5)  Wetland Hydrology Present?  Yes No Depth (inches):  Wetland Hydrology Present?	IMMARY OF FINDINGS: Attach site map showing sampling point locations, transects, important features, etc.  Hydrophytic Vegetation Present?  Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required; check all that apply)  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Oxidized Rhizospheres on Living Roots (C3)  Algal Mat or Crust (B4)  Iron Deposits (B3)  Indicators (B4)  Indicators (B4)  Recent Iron Reduction in Tilled Soils (C6)  Find Observations:  Surface Water (A2)  Water Marks (B3)  Sediment Deposits (B3)  Indicators (B4)  Recent Iron Reduction in Tilled Soils (C6)  Shallow Aquitard (D3)  Microtopographic Relief (D4)  Sparsely Vegetated Concave Surface (B8)  FAC-Neutral Test (D5)  Wetland Hydrology Present?  Yes No Depth (inches):  Wetland Hydrology Present? Yes No Depth	e Vegetation, Soil	, or Hydrology significantly distributed	atic? (If needed, explain any answers in Remarks.)
Hydrophytic Vegetation Present?  Hydroc Soil Present?  Wetland Hydrology Present?  Wetland Hydrology Present?  Wetland Hydrology Present?  Wetland Hydrology Indicators (minimum of one is required; check all that apply)  Primary Indicators (minimum of one is required; check all that apply)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  No  Is the Sampled Area within a Wetland?  If yes, optional Wetland?  If yes, optional Wetland Site ID:  No  If yes, optional Wetland Site ID:  No  Secondary Indicators (minimum of two surfaces (B6)  Surface Soil Cracks (B6)  Drainage Patterns (B10)  Moss Trim Lines (B16)  Dry-Season W ater Table (C2)  Crayfish Burrows (C8)  Sediment Deposits (B2)  Oxidized Rhizospheres on Living Roots (C3)  Saturation Visible on Aerial Imager Stunded or Stressed Plants (D1)  Recent Iron Reduction in Tilled Soils (C6)  Sediment Deposits (D2)  Sediment Deposits (B3)  Recent Iron Reduction in Tilled Soils (C6)	Present? Yes No within a Wetland? Yes No If yes, optional Wetland Site ID:    WB-32 (CLOSE)	Hydrophytic Vegetation Present?  Wetland Hydrology Present?  Wetland Hydrology Present?  Remarks: (Explain alternative procedures here or in a separate report.)  Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required: check all that apply)  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Is the Sampled Area within a Wetland?  If yes, optional Wetland Site ID:  No  Secondary Indicators (minimum of two required: check all that apply)  Surface Soil Cracks (B6)  Drainage Patterns (B10)  Moss Trim Lines (B16)  Dry-Season W ater (A1)  High Water Table (A2)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B7)  Sparsely Vegetated Concave Surface (B8)  Field Observations:	Hydrophytic Vegetation Present?  Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required; check all that apply)  Hydrophytic Vegetation (A3)  Water-Stained Leaves (B9)  Aquatic Fauna (B13)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Presence of Reduced Iron (C4)  Algal Mat or Crust (B4)  Indicators (Minimum of two required)  Recent Iron Reduction in Tilled Soils (C6)  Indicators (B3)  Indicators (Minimum of two required)  Secondary Indicators (Minimum of two required)  Surface Soil Cracks (B8)  Drainage Patterns (B10)  Moss Trim Lines (B16)  Dry-Season W ater Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9)  Stunted or Stressed Plants (D1)  Algal Mat or Crust (B4)  Inon Deposits (B5)  Inundation Visible on Aerial Imagery (B7)  Sparsely Vegetated Concave Surface (B8)  FAC-Neutral Test (D5)  FAC-Neutral Test (D5)  Saturation Present?  Yes No Depth (inches):  Wetland Hydrology Present? Yes No Depth (inches):  Wetland Hydrology Present? Yes No Depth (inches):  Wetland Hydrology Present? Yes No Depth (inches):  Wetland Hydrology Present? Yes No Depth (inches):  Wetland Hydrology Present? Yes No Depth (inches):  Wetland Hydrology Present? Yes No Depth (inches):  Wetland Hydrology Present? Yes No Depth (inches):  Wetland Hydrology Present? Yes No Depth (inches):  Wetland Hydrology Present? Yes No Depth (inches):  Wetland Hydrology Present? Yes No Depth (inches):  Wetland Hydrology Present? Yes No Depth (inches):  Wetland Hydrology Present? Yes No Depth (inches):	Hydrophytic Vegetation Present?  Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required; check all that apply)  Hydrophytic Vegetation (A3)  Water-Stalined Leaves (B9)  Aquatic Fauna (B13)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Presence of Reduced Iron (C4)  Algal Mat or Crust (B4)  Indicators (B3)  Recent Iron Reduction in Tilled Soils (C6)  Indicators (B3)  Indicators (B3)  Presence of Reduced Iron (C4)  Sediment Deposits (B5)  Indicators (B3)  Algal Mat or Crust (B4)  Indicators (B3)  Indicators (B3)  Presence of Reduced Iron (C4)  Sparsely Vegetated Concave Surface (B8)  FAC-Neutral Test (D5)  Factored (D4)  FAC-Neutral Test (D5)  Wetland Hydrology Present?  Yes No Depth (inches):  Wetland Hydrology Present?			
Hydric Soil Present?  Wetland Hydrology Present?  Wetland Hydrology Present?  Wetland Hydrology Present?  Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required; check all that apply)  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Wetland Hydrology Indicator (Present?  No  Within a Wetland?  If yes, optional Wetland?  If yes, optional Wetland Site ID:  Within a Wetland?  Yes  No  If yes, optional Wetland?  Yes  No  Wetland Pryorogo Indicators (minimum of two Secondary Indicators (minimum of two Surface Soil Cracks (B6)  Surface Soil Cracks (B6)  Drainage Patterns (B10)  Moss Trim Lines (B16)  Dry-Season W ater Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imager Secondary Indicators (minimum of two Secondary Indicators (minimum of two Surface Soil Cracks (B6)  Surface Soil Cracks (B6)  Drainage Patterns (B10)  Moss Trim Lines (B16)  Dry-Season W ater Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imager Secondary Indicators (minimum of two Surface Soil Cracks (B6)  Surface Soil Cracks (B6)  Drainage Patterns (B10)  Moss Trim Lines (B16)  Dry-Season W ater Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imager (C4)  Stunted or Stressed Plants (D1)  Recent Iron Reduction in Tilled Soils (C6)  Schallow Aquitard (D3)	within a Wetland?  Yes No If yes, optional Wetland Site ID:  W8 - 32 (CLOSE)  OCROW  Water-Stained Leaves (B9) Aquatic Fauna (B13) Aquatic Fauna (B13) Marl Deposits (B15) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Roots (C3) Aguatic or Aguatic Visible on Aerial Imagery (C9)  Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Thin Muck Surface (C7)  Within a Wetland?  Yes No	Hydrocytic Vegetation Present?  Wetland Hydrology Indicators here or in a separate report.)  Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required; check all that apply)  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Inundation Visible on Aerial Imagery (B7)  Inundation Visible on Aerial Imagery (B7)  Field Observations:  Wetland?  Yes No  If yes, optional Wetland?  Yes No  Secondary Indicators (minimum of two required.  Surface Soil Cracks (B6)  Drainage Patterns (B10)  Moss Tim Lines (B16)  Dry-Season W ater Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9)  Saturation Visible on Aerial Imagery (C9)  Saturation Visible on Aerial Imagery (C9)  Shallow Aquitard (D3)  Microtopographic Relief (D4	Hydric Soil Present?  Wetland Hydrology Present?  Wetland Hydrology Present?  Wetland Hydrology Present?  Yes No If yes, optional Wetland Site ID:  WB - I > WB - 32 (CLOSED)  PTOROLOGY  Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required: check all that apply)  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Stalined Leaves (B9)  Adaptic Fauna (B13)  Adaptic Fauna (B13)  Sediment Deposits (B3)  Algal Mat or Crust (B4)  Innufaction Visible on Aerial Imagery (B7)  Algal Mat or Crust (B4)  Innufaction Visible on Aerial Imagery (B7)  Sparsely Vegetated Concave Surface (B8)  Field Observations:  Surface Water Present?  Water Stalined Leaves (B9)  Availate Fauna (B13)  Again Mat or Crust (B4)  Field Observations:  Water Stalined Leaves (B9)  Availate Fauna (B13)  Algal Mat or Crust (B4)  Innufaction Visible on Aerial Imagery (B7)  Sparsely Vegetated Concave Surface (B8)  Field Observations:  Surface Water Present?  Yes No Depth (inches):  Wetland Hydrology Present? Yes No Depth (inches):  Wetland Hydrology Present? Yes No Depth (inches):  Wetland Hydrology Present? Yes No Depth (inches):  Wetland Hydrology Present? Yes No Depth (inches):  Wetland Hydrology Present? Yes No Depth (inches):  Wetland Hydrology Present? Yes No Depth (inches):  Wetland Hydrology Present? Yes No Depth (inches):  Wetland Hydrology Present? Yes No Depth (inches):  Wetland Hydrology Present? Yes No Depth (inches):  Wetland Hydrology Present? Yes No Depth (inches):  Wetland Hydrology Present? Yes No Depth (inches):  Wetland Hydrology Present? Yes No Depth (inches):  Wetland Hydrology Present? Yes No Depth (inches):  Wetland Hydrology Present? Yes No Depth (inches):  Wetland Hydrology Present? Yes No Depth (inches):  Wetland Hydrology Present? Yes No Depth (inches):  Wetland Hydrology Present? Yes No Depth (inches):  Wetland Hydrology Present? Yes No Depth (inches):  Wetland Hydrology Present? Yes No Depth (inches):	Hydric Soil Present?  Wetland Hydrology Present?  Wetland Hydrology Present?  Wetland Hydrology Present?  Yes No   If yes, optional Wetland Site ID:   If yes, optional Wetlan	JMMARY OF FINDINGS : At	tach site map showing sampling point is	1 Control of the cont
Hydric Soil Present?  Wetland Hydrology Present?  Remarks: (Explain alternative procedures here or in a separate report.)  Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required; check all that apply)  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Wetland Hydrology Present?  No  If yes, optional Wetland Site ID:  Secondary Indicators (minimum of two Surface Soil Cracks (B6)  Surface Soil Cracks (B6)  Drainage Patterns (B10)  Moss Trim Lines (B16)  Dry-Season W ater Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imager Surface Soils (B3)  Presence of Reduced Iron (C4)  Algal Mat or Crust (B4)  Recent Iron Reduction in Tilled Soils (C6)  Shellow Aquitart (D3)	reint?  Yes No If yes, optional Wetland Site ID:  W8-32 (CLOSE)  OORROW PTT   Secondary Indicators (minimum of two required solid cracks (B6))  Surface Soil Cracks (B6)  Drainage Patterns (B10)  Aquatic Fauna (B13)  Aquatic Fauna (B13)  Marl Deposits (B15)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheres on Living Roots (C3)  Presence of Reduced Iron (C4)  Recent Iron Reduction in Tilled Soils (C6)  Thin Muck Surface (C7)  Misseppage (C9)  Shallow Aquitard (D3)  Misseppage (D4)  Mester Table (C2)  Crayfish Burrows (C8)  Stunted or Stressed Plants (D1)  Geomorphic Position (D2)  Thin Muck Surface (C7)  Misseppage (D4)	Hydric Soil Present?  Yes No If yes, optional Wetland Site ID:  Wetland Hydrology Present?  WB - I > WB - 32 (CLOSE)  OLD DORROW  Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required; check all that apply)  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Agal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B7)  If yes, optional Wetland Site ID:  Secondary Indicators (minimum of two required sequence)  Secondary Indicators (minimum of two required sequence)  Surface Soil Cracks (B6)  Drainage Patterns (B10)  Moss Trim Lines (B16)  Dry-Season W ater Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (B7)  Thin Muck Surface (C7)  Sparsely Vegetated Concave Surface (B8)  Field Observations:	Hydric Soil Present?  Wetland Hydrology Present?  Westland Hydrology Present?  Westland Hydrology Present?  Yes	Hydric Soil Present?  Wetland Hydrology Present?  WB - I -> WB - 32 (CLOSEL)  VDROLOGY  Wetland Hydrology Indicators:  Primary Indicators (minimum of two required)  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Agail Mat or Crust (B4)  Iron Deposits (B5)  Iron Deposits (B6)  Drive Secondary Indicators (minimum of two required)  Surface Soil Cracks (B6)  Drainage Patterns (B10)  Moss Trim Lines (B16)  Dry-Season W ater Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9)  Stunted or Stressed Plants (D1)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B7)  Other (Explain in Remarks)  Secondary Indicators (minimum of two required)  Secondary Indicators (minimum of two required)  Surface Water Pasent (P1)  Secondary Indicators (minimum of two required (P2)  Secondary Indicators (Minimum of two required (P3)  Moss Trim Lines (B16)  Dry-Season W ater Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9)  Stunted or Stressed Plants (D1)  Shallow Aquitard (D3)  Microtopographic Relief (D4)  FAC-Neutral Test (D5)  FAC-Neutral Test (D5)  FAC-Neutral Test (D5)  FAC-Neutral Test (D5)	Hydrophytic Vegetation Preser	nt? Yes No	
Remarks: (Explain alternative procedures here or in a separate report.)  • WB - I > WB - 32 (CLOSE)  • OLD BORROW FIT   YDROLOGY  Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required; check all that apply)  Surface Soil Cracks (B6)  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Recent Iron Reduction in Tilled Soils (C6)  Secondary Indicators (minimum of two secondary Indicators (minimum of two surfaces (B9))  Surface Soil Cracks (B6)  Drainage Patterns (B10)  Moss Trim Lines (B16)  Dry-Season W ater Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imager  Stunted or Stressed Plants (D1)  Recent Iron Reduction in Tilled Soils (C6)	mative procedures here or in a separate report.)  W8-32 (CLOSE)  OORROW PIT  dicators:  mum of one is required; check all that apply)  Water-Stained Leaves (B9)  Aquatic Fauna (B13)  Marl Deposits (B15)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheres on Living Roots (C3)  Presence of Reduced Iron (C4)  Recent Iron Reduction in Tilled Soils (C6)  Thin Muck Surface (C7)  Secondary Indicators (minimum of two required	Remarks: (Explain alternative procedures here or in a separate report.)  WB-1-> WB-32 (CLOSED)  OLD BORROW PIT   Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required; check all that apply)  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Stained Leaves (B9)  Aquatic Fauna (B13)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Sparsely Vegetated Concave Surface (B8)  Field Observations:	Remarks: (Explain alternative procedures here or in a separate report.)  • W8 - I -> W8 - 32 (CLOSE)  • OLD BORROW PIT   YDROLOGY  Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required; check all that apply)  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B7)  Sparsely Vegetated Concave Surface (B8)  Field Observations:  Surface Water Present?  Yes No Depth (inches):  Vater Vater All (CLOSE)  Secondary Indicators (minimum of two required)  Secondary Indicators (minimum of two required)  Surface Soil Cracks (B6)  Drainage Patterns (B10)  Moss Trim Lines (B16)  Drainage Patterns (B10)  Moss Trim Lines (B16)  Dry-Season W ater Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9)  Stunted or Stressed Plants (D1)  Geomorphic Position (D2)  Shallow Aquitard (D3)  Microtopographic Relief (D4)  FAC-Neutral Test (D5)  Field Observations:  Surface Water Present?  Yes No Depth (inches):  Wetland Hydrology Present? Yes No Modern (C1)	Remarks: (Explain alternative procedures here or in a separate report.)  • W8 - I -> W8 - 32 (CLOSE)  • OLD BORROW PIT   YDROLOGY  Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required; check all that apply)  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B7)  Sparsely Vegetated Concave Surface (B8)  Field Observations:  Surface Water Present?  Yes No Depth (inches):  Vater Vater All (CLOSE)  Secondary Indicators (minimum of two required)  Secondary Indicators (minimum of two required)  Secondary Indicators (minimum of two required)  Surface Soil Cracks (B6)  Drainage Patterns (B10)  Moss Trim Lines (B16)  Drainage Patterns (B10)  Moss Trim Lines (B16)  Dry-Season W ater Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9)  Stunted or Stressed Plants (D1)  Geomorphic Position (D2)  Shallow Aquitard (D3)  Microtopographic Relief (D4)  FAC-Neutral Test (D5)  Field Observations:  Surface Water Present?  Yes No Depth (inches):  Vater Table Present?  Yes No Depth (inches):  Vestand Hydrology Present? Yes No Modern (C1)  Wetland Hydrology Present? Yes No Modern (C2)  Wetland Hydrology Present? Yes No Modern (C3)  Wetland Hydrology Present? Yes No Modern (C4)	Hydric Soil Present?	Yes No	110
Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required; check all that apply)  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Secondary Indicators (minimum of two Secondary Indicators (minimum of two Surface Soil Cracks (B6)  Surface Soil Cracks (B6)  Surface Soil Cracks (B6)  Drainage Patterns (B10)  Moss Trim Lines (B16)  Dry-Season W ater Table (C2)  Crayfish Burrows (C8)  Saturation (C4)  Sediment Deposits (B2)  Presence of Reduced Iron (C4)  Recent Iron Reduction in Tilled Soils (C6)  Shallow Aquitard (D3)	dicators:  mum of one is required; check all that apply)  Water-Stained Leaves (B9)  Aquatic Fauna (B13)  Marl Deposits (B15)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheres on Living Roots (C3)  Presence of Reduced Iron (C4)  Recent Iron Reduction in Tilled Soils (C6)  Thin Muck Surface (C7)  Secondary Indicators (minimum of two required sources)  Surface Soil Cracks (B6)  Drainage Patterns (B10)  Moss Trim Lines (B16)  Dry-Season W ater Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9)  Stunted or Stressed Plants (D1)  Geomorphic Position (D2)  Shallow Aquitard (D3)	YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) Surface Water (A1) High Water Table (A2) Saturation (A3) Avatic Fauna (B13) Sediment Deposits (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8)  YDROLOGY Wetland Hydrology Indicators (minimum of two required) Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season W ater Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) Geomorphic Position (D2) Shallow Aquitard (D3) Microtopographic Relief (D4) FAC-Neutral Test (D5)  Field Observations:	VPROLOGY  Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required; check all that apply)  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B7)  Sparsely Vegetated Concave Surface (B8)  Field Observations:  Surface Water (A1)  Water Marks (B1)  Sediment Deposits (B5)  Inundation Visible on Aerial Imagery (B7)  Sparsely Vegetated Concave Surface (B8)  Field Observations:  Surface No Depth (inches):  Ves No Microtopogy Present? Yes No Depth (inches):  Ves No Microtopogy Present? Yes No Metal Hydrology Present? Yes No Depth (inches):  Ves No Metal Hydrology Present? Yes No Metal Hydrology Present? Ye	VPROLOGY  Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required; check all that apply)  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B7)  Sparsely Vegetated Concave Surface (B8)  Field Observations:  Surface Water (Pasent?  Ves No Depth (inches):  No Methand Hydrology Present?  No Methand Hydrology Present?  Wetland Hydrology Present? Yes No Depth (inches):  Wetland Hydrology Pre			If yes, optional Wetland Site ID:
Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required; check all that apply)  Surface Soil Cracks (B6)  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Secondary Indicators (minimum of two surface Soil Cracks (B6)  Surface Soil Cracks (B6)  Drainage Patterns (B10)  Moss Trim Lines (B16)  Dry-Season W ater Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imager Stunted or Stressed Plants (D1)  Recent Iron Reduction in Tilled Soils (C6)  Shallow Aquitard (D3)	Secondary Indicators (minimum of two required plants)   Surface Soil Cracks (B6)	Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required; check all that apply)  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B7)  Sparsely Vegetated Concave Surface (B8)  Wetland Hydrology Indicators (minimum of two required)  Secondary Indicators (minimum of two required)  Surface Soil Cracks (B6)  Drainage Patterns (B10)  Moss Trim Lines (B16)  Dry-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9)  Stunted or Stressed Plants (D1)  Geomorphic Position (D2)  Shallow Aquitard (D3)  Microtopographic Relief (D4)  FAC-Neutral Test (D5)	Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required; check all that apply)  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Iron Deposits (B5)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B7)  Sparsely Vegetated Concave Surface (B8)  Wetland Hydrology Present?  Yes  No  Depth (inches):  Wetland Hydrology Present?  Yes  No  Depth (inches):  Vestanted Deposits (Ps)  Surface Soil Cracks (B6)  Drainage Patterns (B10)  Moss Trim Lines (B16)  Dry-Season W ater Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9)  Stunted or Stressed Plants (D1)  Geomorphic Position (D2)  Shallow Aquitard (D3)  Microtopographic Relief (D4)  FAC-Neutral Test (D5)  FAC-Neutral Test (D5)  Wetland Hydrology Present? Yes  No  Depth (inches):  Ves  No  No  No  No  No  No  No  No  No  N	Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required; check all that apply)  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B7)  Sparsely Vegetated Concave Surface (B8)  Wetland Hydrology Present?  Yes  No  Depth (inches):  Wetland Hydrology Present?  Yes  No  Depth (inches):  Vater Marks (B1)  Secondary Indicators (minimum of two required	Remarks: (Explain alternative	procedures here or in a separate report.)	
Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required; check all that apply)  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Surface Soil Cracks (B6)  Drainage Patterns (B10)  Moss Trim Lines (B16)  Dry-Season W ater Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imager  Stunted or Stressed Plants (D1)  Recent Iron Reduction in Tilled Soils (C6)  Stallow Aquitard (D3)	Mum of one is required; check all that apply)  Water-Stained Leaves (B9)  Aquatic Fauna (B13)  Marl Deposits (B15)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheres on Living Roots (C3)  Presence of Reduced Iron (C4)  Recent Iron Reduction in Tilled Soils (C6)  Thin Muck Surface (C7)  Surface Soil Cracks (B6)  Drainage Patterns (B10)  Moss Trim Lines (B16)  Dry-Season W ater Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9)  Stunted or Stressed Plants (D1)  Geomorphic Position (D2)  Shallow Aquitard (D3)	Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required; check all that apply)  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B7)  Sparsely Vegetated Concave Surface (B8)  Water Algal Mat or Crust (B8)  Wetland Hydrology Indicators (minimum of two require Secondary Indicators (minimum of two require Surface (B8)  Surface Soil Cracks (B6)  Drainage Patterns (B10)  Moss Trim Lines (B16)  Dry-Season W ater Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9)  Stunted or Stressed Plants (D1)  Geomorphic Position (D2)  Shallow Aquitard (D3)  Microtopographic Relief (D4)  FAC-Neutral Test (D5)  Field Observations:	Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required; check all that apply)  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B7)  Sparsely Vegetated Concave Surface (B8)  Wetland Hydrology Present?  Wetland Hydrology Present?  Yes  No  Depth (inches):  DryAecondary Indicators (minimum of two require Secondary Indicators (minimum of two require Secondary Indicators (minimum of two require Surface (B6)  Surface Soil Cracks (B6)  Drainage Patterns (B10)  Moss Trim Lines (B16)  Dry-Season W ater Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9)  Stunted or Stressed Plants (D1)  Geomorphic Position (D2)  Shallow Aquitard (D3)  Microtopographic Relief (D4)  FAC-Neutral Test (D5)  Field Observations:  Water Table Present?  Yes  No  Depth (inches):  Wetland Hydrology Present? Yes  No  No  No  No  No  No  Depth (inches):  Depth (inch	Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required; check all that apply)  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B7)  Sparsely Vegetated Concave Surface (B8)  Wetland Hydrology Present?  Wetland Hydrology Present?  Yes  No  Depth (inches):  Dry-Season W ater Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9)  Stunted or Stressed Plants (D1)  Geomorphic Position (D2)  Shallow Aquitard (D3)  Microtopographic Relief (D4)  FAC-Neutral Test (D5)  Wetland Hydrology Present? Yes  No  Depth (inches):  Wetland Hydrology Present? Yes  No  Wetland Hydrology Present? Yes  No  Depth (inches):  Wetland Hydrology Present? Yes  No  No  Wetland Hydrology Present? Yes  No  No  No  No  No  No  Depth (inches):  Dry-Season W ater Table Present?  No  Depth (inches):  No  Depth (inches):  No  Depth (inches):  Dry-Season W ater Table Present?  No  Depth (inches):  No  Depth (inches):  No  Depth (inches):  Dry-Season W ater Table Present?  No  Depth (inches):  No  Depth (inches):  Dry-Season W ater Table Present?  No  Depth (inches):  No  Depth (inches):  No  Depth (inches):  Dry-Season W ater Table Present?  No  Dry-Season W ater Table Present?  No  Dry-Season W ater Table Paterns (B10)  Dry-Season W	OLD BOR	LROW PIT	
Primary Indicators (minimum of one is required; check all that apply)  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Surface Soil Cracks (B6)  Drainage Patterns (B10)  Moss Trim Lines (B16)  Dry-Season W ater Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imager  Stunted or Stressed Plants (D1)  Geomorphic Position (D2)  Shallow Aquitard (D3)	Mum of one is required; check all that apply)  Water-Stained Leaves (B9)  Aquatic Fauna (B13)  Marl Deposits (B15)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheres on Living Roots (C3)  Presence of Reduced Iron (C4)  Recent Iron Reduction in Tilled Soils (C6)  Thin Muck Surface (C7)  Surface Soil Cracks (B6)  Drainage Patterns (B10)  Moss Trim Lines (B16)  Dry-Season W ater Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9)  Stunted or Stressed Plants (D1)  Geomorphic Position (D2)  Shallow Aquitard (D3)	Primary Indicators (minimum of one is required; check all that apply)  Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8)  Water Stained Leaves (B9) Aquatic Fauna (B13) Aquatic Fauna (B13) Available Aquatic Fauna (B13) Moss Trim Lines (B16) Dry-Season W ater Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) Microtopographic Relief (D4) FAC-Neutral Test (D5)  Field Observations:	Primary Indicators (minimum of one is required; check all that apply)  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B7)  Sparsely Vegetated Concave Surface (B8)  Field Observations:  Surface Water Present?  Yes  No  Depth (inches):  Drainage Patterns (B10)  Moss Trim Lines (B16)  Dry-Season W ater Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9)  Saturation Visible on Aerial Imagery (C9)  Shallow Aquitard (D3)  Microtopographic Relief (D4)  FAC-Neutral Test (D5)  Wetland Hydrology Present? Yes  No  Depth (inches):  Wetland Hydrology Present? Yes  No  Depth (inches):  Wetland Hydrology Present? Yes  No  Wetland Hydrology Present? Yes  No  Depth (inches):  No  No  Depth (inches):  No  Depth (inches):  No  Depth (inches):  No  No  No  No  No  No  No  No  No  N	Primary Indicators (minimum of one is required; check all that apply)  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B7)  Sparsely Vegetated Concave Surface (B8)  Field Observations:  Surface Water Present?  Yes  No  Depth (inches):  Drainage Patterns (B10)  Moss Trim Lines (B16)  Dry-Season W ater Table (C2)  Crayfish Burrows (C8)  Saturation (C3)  Saturation Visible on Aerial Imagery (C9)  Stunted or Stressed Plants (D1)  Geomorphic Position (D2)  Shallow Aquitard (D3)  Microtopographic Relief (D4)  FAC-Neutral Test (D5)  Wetland Hydrology Present?  Yes  No  Depth (inches):  Ves  No  No  Depth (inches):  Ves  No  Depth (inches):  Ves  No  Depth (inches):  Ves  No  No  Depth (inches):  Ves  No  No  No  No  No  No  No  No  No  N	YDROLOGY		
Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Water-Stained Leaves (B9)  Aquatic Fauna (B13)  Marl Deposits (B15)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheres on Living Roots (C3)  Sturted or Stressed Plants (D1)  Sediment Deposits (B3)  Algal Mat or Crust (B4)  Presence of Reduced Iron (C4)  Recent Iron Reduction in Tilled Soils (C6)  Staturation (D2)  Shallow Aquitard (D3)	Water-Stained Leaves (B9) Aquatic Fauna (B13) Marl Deposits (B15) Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheres on Living Roots (C3) Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Thin Muck Surface (C7)  Drainage Patterns (B10) Moss Trim Lines (B16)  Dry-Season W ater Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) Geomorphic Position (D2) Shallow Aquitard (D3)	Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Iron Deposits (B5)  Sparsely Vegetated Concave Surface (B8)  Water-Stained Leaves (B9)  Aquatic Fauna (B13)  Marl Deposits (B13)  Marl Deposits (B15)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheres on Living Roots (C3)  Saturation Visible on Aerial Imagery (C9)  Stunted or Stressed Plants (D1)  Geomorphic Position (D2)  Shallow Aquitard (D3)  Microtopographic Relief (D4)  FAC-Neutral Test (D5)  Field Observations:	Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B7)  Sparsely Vegetated Concave Surface (B8)  Field Observations:  Surface Water Table (A2)  Water-Stained Leaves (B9)  Aquatic Fauna (B13)  Moss Trim Lines (B16)  Dry-Season W ater Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9)  Saturation Visible on Aerial Imagery (C9)  Shallow Aquitard (D3)  Microtopographic Relief (D4)  FAC-Neutral Test (D5)  Field Observations:  Surface Water Present?  Yes  No  Depth (inches):  Marl Deposits (B9)  Aquatic Fauna (B13)  Moss Trim Lines (B10)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9)  Saturation Find Observation (C4)  Saturation Find Observations:  Surface Water Present?  Yes  No  Depth (inches):  No  No  Wetland Hydrology Present? Yes  No  No  No  No  No  No  Depth (inches):  No  No  No  No  No  No  No  No  No  N	Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B7)  Sparsely Vegetated Concave Surface (B8)  Field Observations:  Surface Water Table (A2)  Water-Stained Leaves (B9)  Aquatic Fauna (B13)  Moss Trim Lines (B16)  Dry-Season W ater Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9)  Stunted or Stressed Plants (D1)  Geomorphic Position (D2)  Shallow Aquitard (D3)  Microtopographic Relief (D4)  FAC-Neutral Test (D5)  Field Observations:  Surface Water Present?  Yes  No  Depth (inches):  Marl Deposits (B9)  Aquatic Fauna (B13)  Moss Trim Lines (B10)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9)  Stunted or Stressed Plants (D1)  Geomorphic Position (D2)  Shallow Aquitard (D3)  Microtopographic Relief (D4)  FAC-Neutral Test (D5)  Field Observations:  Surface Water Present?  Yes  No  Depth (inches):  Wetland Hydrology Present? Yes  No  No  No  No  No  No  Depth (inches):  No  No  No  No  No  No  No  No  No  N	Wetland Hydrology Indicato	ors:	
Sutrace Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Moss Trim Lines (B16)  Dry-Season W ater Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imager  Stunted or Stressed Plants (D1)  Recent Iron Reduction in Tilled Soils (C6)  Shallow Aguitard (D3)	Aquatic Fauna (B13) Moss Trim Lines (B16)  Marl Deposits (B15) Dry-Season W ater Table (C2)  Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8)  Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)  Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1)  Recent Iron Reduction in Tilled Soils (C6) Geomorphic Position (D2)  Thin Muck Surface (C7) Shallow Aquitard (D3)	Sutrace Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8)  Aquatic Fauna (B13) Aquatic Fauna (B13) Aquatic Fauna (B13) Aquatic Fauna (B13)  Moss Trim Lines (B16) Dry-Season W ater Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) Geomorphic Position (D2) Shallow Aquitard (D3) Microtopographic Relief (D4) FAC-Neutral Test (D5)  Field Observations:	Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B7)  Sparsely Vegetated Concave Surface (B8)  Field Observations:  Surface Water Table (A2)  Aquatic Fauna (B13)  Aquatic Fauna (B13)  Moss Trim Lines (B16)  Dry-Season W ater Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9)  Stunted or Stressed Plants (D1)  Geomorphic Position (D2)  Shallow Aquitard (D3)  Microtopographic Relief (D4)  FAC-Neutral Test (D5)  Saturation Present?  Yes  No  Depth (inches):  Metland Hydrology Present? Yes  No  Wetland Hydrology Present? Yes  No  Wetland Hydrology Present? Yes  No  Depth (inches):  No  No  Depth (inches):  No  Depth (inches):  No  Depth (inches):  No  No  Depth (inches):  No  No  Depth (inches):  No  Depth (inches):  No  No  Depth (inches):  No  Depth (inches):  No  No  No  No  No  No  No  No  No  N	Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B7)  Sparsely Vegetated Concave Surface (B8)  Field Observations:  Surface Water Table (A2)  Aquatic Fauna (B13)  Aquatic Fauna (B13)  Moss Trim Lines (B16)  Dry-Season W ater Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9)  Stunted or Stressed Plants (D1)  Geomorphic Position (D2)  Shallow Aquitard (D3)  Microtopographic Relief (D4)  FAC-Neutral Test (D5)  Saturation Present?  Yes  No  Depth (inches):  Metland Hydrology Present? Yes  No  Wetland Hydrology Present? Yes  No  Wetland Hydrology Present? Yes  No  Depth (inches):  No  No  Depth (inches):  No  Depth (inches):  No  No  No  Depth (inches):  No  No  No  No  Depth (inches):  No  No  No  No  Depth (inches):  No  No  No  No  No  No  No  No  No  N	Primary Indicators (minimum c		
Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Marl Deposits (B15)  Marl Deposits (B15)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheres on Living Roots (C3)  Oxidized Rhizospheres on Living Roots (C3)  Saturation Visible on Aerial Imager  Stunted or Stressed Plants (D1)  Recent Iron Reduction in Tilled Soils (C6)  Shallow Aguitard (D3)	Marl Deposits (B15)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheres on Living Roots (C3)  Presence of Reduced Iron (C4)  Recent Iron Reduction in Tilled Soils (C6)  Thin Muck Surface (C7)  Dry-Season W ater Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9)  Stunted or Stressed Plants (D1)  Geomorphic Position (D2)  Shallow Aquitard (D3)	Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B7)  Sparsely Vegetated Concave Surface (B8)  Marl Deposits (B15)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheres on Living Roots (C3)  Oxidized Rhizospheres on Living Roots (C3)  Saturation Visible on Aerial Imagery (C9)  Saturation Visible on Aerial Imagery (C9)  Stunted or Stressed Plants (D1)  Geomorphic Position (D2)  Shallow Aquitard (D3)  Microtopographic Relief (D4)  FAC-Neutral Test (D5)  Field Observations:	Saturation (A3)  Marl Deposits (B15)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B7)  Sparsely Vegetated Concave Surface (B8)  Field Observations:  Surface Water Table (A2)  Marl Deposits (B15)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheres on Living Roots (C3)  Saturation Visible on Aerial Imagery (C9)  Stunted or Stressed Plants (D1)  Geomorphic Position (D2)  Shallow Aquitard (D3)  Microtopographic Relief (D4)  FAC-Neutral Test (D5)  Field Observations:  Surface Water Present?  Yes No Depth (inches):  Marl Deposits (B15)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9)  Saturation Visible on Aerial Imagery (C9)  Shallow Aquitard (D3)  Microtopographic Relief (D4)  FAC-Neutral Test (D5)  Wetland Hydrology Present? Yes No  No  No  No  No  No  Depth (inches):  No  No  No  Depth (inches):  No  No  No  No  No  No  No  No  No  N	Saturation (A3)  Marl Deposits (B15)  Marl Deposits (B15)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B7)  Sparsely Vegetated Concave Surface (B8)  Field Observations:  Surface Water Table (A2)  Marl Deposits (B15)  Marl Deposits (B15)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheres on Living Roots (C3)  Saturation Visible on Aerial Imagery (C9)  Stunted or Stressed Plants (D1)  Geomorphic Position (D2)  Shallow Aquitard (D3)  Microtopographic Relief (D4)  FAC-Neutral Test (D5)  Field Observations:  Surface Water Present?  Yes No Depth (inches):  Marl Deposits (B15)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9)  Saturation Present?  Other (Explain in Remarks)  Microtopographic Relief (D4)  FAC-Neutral Test (D5)  Wetland Hydrology Present? Yes No  No  No  No  No  No  No  Depth (inches):  No  No  No  No  No  No  No  No  No  N			(D40)
Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4)  Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8) Saturation Visible on Aerial Imager Saturation Visible on Aerial Imager Stunted or Stressed Plants (D1) Recent Iron Reduction in Tilled Soils (C6) Shallow Aguitard (D3)	(B2)	Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8)  Water Marks (B1) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) Geomorphic Position (D2) Shallow Aquitard (D3) Microtopographic Relief (D4) FAC-Neutral Test (D5)  Field Observations:	Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8)  Field Observations: Surface Water Present?  Water Marks (B1)  Hydrogen Sulfide Odor (C1) Saturation Visible on Aerial Imagery (C9) Saturation Visible on Aerial Imagery (B7) Depth (inches):  Depth (inches):  Wetland Hydrology Present? Yes No Depth (inches):	Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8)  Field Observations: Surface Water Present?  Water Marks (B1)  Hydrogen Sulfide Odor (C1) Saturation Visible on Aerial Imagery (C9) Saturation Visible on Aerial Imagery (B7) Depth (inches):  Depth (inches):  Wetland Hydrology Present? Yes No Depth (inches):	High Water Table (A2)		
Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  National Set (C4)  Oxidized Rhizospheres on Living Roots (C3)  Presence of Reduced Iron (C4)  Recent Iron Reduction in Tilled Soils (C6)  Staturation Visible on Aerial Imager  Stunted or Stressed Plants (D1)  Geomorphic Position (D2)  Shallow Aguitard (D3)	(B2) Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)  Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1)  Recent Iron Reduction in Tilled Soils (C6) Geomorphic Position (D2)  Thin Muck Surface (C7) Shallow Aquitard (D3)	Water Marks (61) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8)  Tydiogen during Cost (C3) Oxidized Rhizospheres on Living Roots (C3) Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Thin Muck Surface (C7) Other (Explain in Remarks)  Saturation Visible on Aerial Imagery (D1) Geomorphic Position (D2) Shallow Aquitard (D3) Microtopographic Relief (D4) FAC-Neutral Test (D5)  Field Observations:	Water Marks (61)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B7)  Sparsely Vegetated Concave Surface (B8)  Field Observations:  Surface Water Present?  Water Table Present?  Yes  No  Depth (inches):  No  Depth (inches):  Wetland Hydrology Present? Yes  No  No  Wetland Hydrology Present? Yes  No  No  Depth (inches):  No  Depth (inches):  Depth (inches):  Depth (inches):  No  Depth (inches):  No  Depth (inches):  Depth (inches):  No  Depth (inches):   Water Marks (61) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Stunted or Stressed Plants (D1)  Geomorphic Position (D2)  Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8)  Field Observations: Surface Water Present?  Water Table Present?  Yes No Depth (inches):  Depth (inches):  No Depth (inches):  Depth (inches):  No Depth (inches):  No Depth (inches):  Depth (inches):  No Depth (inches): Depth (inc			-	
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Shallow Aguitard (D3)	Thin Muck Surface (C7) Shallow Aquitard (D3) Microtopographic Relief (D4)	Iron Deposits (B5) Thin Muck Surface (C7) Shallow Aquitard (D3) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Microtopographic Relief (D4) Sparsely Vegetated Concave Surface (B8) FAC-Neutral Test (D5)  Field Observations:	Iron Deposits (B5)	Iron Deposits (B5) Thin Muck Surface (C7) Shallow Aquitard (D3) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Microtopographic Relief (D4) Sparsely Vegetated Concave Surface (B8)  Field Observations: Surface Water Present? Yes No Depth (inches): NA Water Table Present? Yes No Depth (inches): NA Saturation Present? Yes No Depth (inches): NA Saturation Present? Yes No Depth (inches): No D		Recent Iron Reduc	ction in Tilled Soils (C6) Geomorphic Position (D2)
	Microtonographic Poliof (D4)	Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Microtopographic Relief (D4)  Sparsely Vegetated Concave Surface (B8)  Field Observations:	Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Microtopographic Relief (D4) Sparsely Vegetated Concave Surface (B8) FAC-Neutral Test (D5) FAC-Neutral Test (D5) FAC-Neutral Test (D5) Water Table Present? Yes No Depth (inches): VA	Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Microtopographic Relief (D4) Sparsely Vegetated Concave Surface (B8) FAC-Neutral Test (D5)			e (C7) Shallow Aquitard (D3)
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Water Table Present? Yes No Depth (inches): No Depth (inches): No	Yes NoX Depth (inches):	Motor Table Present? Vos No Denth (inches): W//	Saturation Present: 1es No Z Book (Market)	Saturation research tes No Z Book (Market)	Sparsely Vegetated Con Field Observations:	Yes No Depth (inches):	1610
Saturation Plesenti Tes	Yes No _X Depth (inches):	Water Lable Pleasent? Yes No	(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	(includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Sparsely Vegetated Con Field Observations: Surface Water Present?	Yes No Depth (inches):	NIA
(includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Yes No Depth (inches): Wetland Hydrology Present? Yes No No No Depth (inches): No	Saturation Present? Yes NoX Depth (inches): Wetland Hydrology Present? Yes No	Describe Necolded Data (cheam gauge, moments)	Describe Necolded Data (Sheariff gauge, Inclineting	Sparsely Vegetated Con Field Observations: Surface Water Present? Water Table Present? Saturation Present?	Yes No Depth (inches):	NIA
	Yes No Depth (inches): Wetland Hydrology Present? Yes No	Saturation Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No			Sparsely Vegetated Con Field Observations: Surface Water Present? Water Table Present? Saturation Present?	Yes No Depth (inches): Depth (inches):	Wetland Hydrology Present? Yes No No
Saturation Present? Yes No Depth (inches): No Wetland Hydrology Present? Yes No	No. No. V Denth (inches): N/A	vvater rable rresent? Yes No Deput (monos).	( -1 -1	( -1 -1   Illant frings)	Sparsely Vegetated Con Field Observations: Surface Water Present?	Yes No Depth (inches): Yes No Depth (inches):	NIA
( -1 -1 illeg friege)	Yes No _X Depth (inches):	Saturation Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No No	Describe Recorded Data (stream gauge, monitoring well, aeriai photos, previous inspections), il available.	Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), il available.	Sparsely Vegetated Con Field Observations: Surface Water Present? Water Table Present?	Yes No Depth (inches):	NIA
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	Yes No Depth (inches): Wetland Hydrology Present? Yes No	Saturation Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No (includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Devodo		Sparsely Vegetated Con Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (stre	Yes No Depth (inches): Depth (inches):	Wetland Hydrology Present? Yes No No
Remarks:	Yes No Depth (inches): Wetland Hydrology Present? Yes No	Saturation Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No (includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Remarks:	Remarks.	Sparsely Vegetated Con Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (stre	Yes No Depth (inches): Depth (inches):	Wetland Hydrology Present? Yes No No
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	Yes No Depth (inches): Wetland Hydrology Present? Yes No	Saturation Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No (includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Remarks:	Remarks.	Sparsely Vegetated Con Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (stre	Yes No Depth (inches): Depth (inches):	Wetland Hydrology Present? Yes No No
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signat/Cites ANA/C Deute 5 & Deute 77 7 Country Deute 10/Concess Country Complian Date: 9.74.2022
oject/Site: NWC Route 5 & Route 77 Town/County: Pembroke/Genesee County Sampling Date: 8.24.2022  State: New York Sampling Point: P26
vestigator(s): Scott Livingstorie & Tom Somerville Section, Township, Range: 15.1-24.1
ndform (hillslope, terrace, etc.): Terrace Local relief (concave, convex, none): CSAVEX Slope (%): 3
il Map Unit Name: PALMYRA CRAVELLY, LOAM, 3-8/5/NW I classification:
e climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
e Vegetation, Soil, or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No e Vegetation, Soil, or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)
MMARY OF FINDINGS: Attach site map showing sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present?  Yes  No  Is the Sampled Area
Hydrophytic Vegetation Present?  Yes No No within a Wetland?  No N
× 11/0
Vetland Hydrology Present? Yes No If yes, optional Wetland Site ID: No If yes, option
Vetland Hydrology Indicators:  Secondary Indicators (minimum of two required primary Indicators (minimum of one is required; check all that apply)  Surface Water (A1)  Water-Stained Leaves (B9)  Drainage Pattems (B10)
Surface Water (A1) Water-Staffled Leaves (B3) Braining C Barring (B16) Moss Trim Lines (B16)
Water Marks (B1)  Hydrogen Sulfide Odor (C1)  Crayfish Burrows (C8)
Sediment Deposits (B2)  Oxidized Rhizospheres on Living Roots (C3)  Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Geomorphic Position (D2)
Iron Deposits (B5)  Thin Muck Surface (C7)  Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)  FAC-Neutral Test (D5)
Field Observations:
Surface Water Present? Yes No X Depth (inches):N
Nater Table Present? Yes No _X Depth (inches):
Water Table Present? Yes No Depth (inches): 1
Saturation Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Depth (inches): Wetland Hydrology Present?
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Saturation Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No
Saturation Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Depth (inches): No
Saturation Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
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Saturation Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
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Saturation Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Tree Stratum (Plot size:30')	Absolute Dominant Indicator % Cover Species? Status	Dominance Test worksheet:
1. Primus Sorotina	30 Y FACU	Number of Dominant Species That Are OBL, FACW, or FAC: (A)
2. Populus deltades	10 Y FAC	
3		Total Number of Dominant Species Across All Strata:  (B)
4		Percent of Dominant Species
5		That Are OBL, FACW, or FAC: 13% (A/B)
6		Prevalence Index worksheet:
7.		Total % Cover of: Multiply by:
	40 = Total Cover	OBL species x 1 =
Sapling/Shrub Stratum (Plot size: 15'		FACW species x 2 = FAC species / 6
1. Longera tatarica		FACU species 167 x4 = 668
2. Prinus Serotina	20 Y FACU	UPL species x5 =
3. Comus racemosa		Column Totals: 183 (A) 716 (B)
4. Rosa multiflora		
5. Fruxinus americana	10 N FACU	Prevalence Index = B/A = 3.91
6		Hydrophytic Vegetation Indicators:
7		1 - Rapid Test for Hydrophytic Vegetation     2 - Dominance Test is >50%
	90 = Total Cover	3 - Prevalence Index is < 3.01
Herb Stratum (Plot size:5')		4 - Morphological Adaptations (Provide supporting
1. Rosa multiflora		data in Remarks or on a separate sheet)
2. Ioniucia tatarica	10 Y FACU	Problematic Hydrophytic Vegetation¹ (Explain)
3. Agrimonia grypose pala 4. Symphotrichum lateriflorum	5 N ACU	Indicators of hydric soil and wetland hydrology must
4. Symphystrichum lateriflerum	3 N FAC	be present, unless disturbed or problematic.
5. Polygonum Virginianum	3 N FAC	Definitions of Vegetation Strata:
6		Tree - Woody plants 3 in. (7.6 cm) or more in diameter
7.		at breast height (DBH), regardless of height.
8		Sapling/shrub - Woody plants less than 3 in. DBH
9		and greater than 3.28 ft (1 m) tall.
10		Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
11		
12.		Woody vines - All woody vines greater than 3.28 ft in height.
	= Total Cover	
Woody Vine Stratum (Plot size: 30' )	O. V. C.	,
1. Vitis aestivalis		Community Type: Successional Shabland
2.		Community Type 3 deces 3 loved 3 love 3 love
3		Hydrophytic Vegetation
4		Present? Yes No
	20 = Total Cover	
Remarks: (Include photo numbers here or on a separate Photo #	e sheet.) ction of PhotoWes+	
		4
and the state of t		

Project Code: W29108c Sampling Point: DZ6 SOIL Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Matrix Redox Features (inches) Color (moist) Color (moist) Texture Remarks <sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup>Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: Indicators for Problematic Hydric Soils3: Histosol (A1) 2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Polyvalue Below Surface (S8) (LRR R, Histic Epipedon (A2) MLRA 149B) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) Dark Surface (S7) (LRR K, L, M)
Polyvalue Below Surface (S8) (LRR K, L) Loamy Mucky Mineral (F1) (LRR K, L) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Thin Dark Surface (S9) (LRR K, L) Depleted Matrix (F3) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, R) Depleted Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 149B) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Red Parent Material (TF2) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Sandy Redox (S5) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) <sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes Remarks:

Project/Site: <u>NWC Route 5 &amp; F</u>			9,74,7027		
Innlinent/Ouman Caia Canal	Route 77 Town/County: Pembroke/Gene	see County Sampling Date	N 77		
Applicant/Owner: Geis Constr	ruction State: N	lew York	Sampling Point:		
	ne & Tom Somerville				
	c.): Terrace Local relief (conce				
Subregion (LRR or MLRA) <u>LR</u>	RL Lat:	Long:	Datum: NAD83		
Soil Map Unit Name: PALA	IRL Lat:  1YRA CRAVELLY LO	AM, 3-8%, 519	W I classification:		
	ons on the site typical for this time of year				
re Vegetation . Soil	or Hydrology significantly distu	urbed? Are "Nor	mal Circumstances" present? Yes X No _		
	, or Hydrology naturally probl				
OWNERT OF FINDINGS : A	ttach site map showing sampling poin	1	ant leatures, etc.		
Hydrophytic Vegetation Prese		Is the Sampled Area	×		
Hydric Soil Present?	Yes No	within a Wetland?	YesNo		
Wetland Hydrology Present?	Yes No	If yes, optional Wetland	Site ID:		
Remarks: (Explain alternative	procedures here or in a separate report.	.)			
YDROLOGY					
Wetland Hydrology Indicate	ors:		Secondary Indicators (minimum of two require		
	of one is required; check all that apply)		Surface Soil Cracks (B6)		
Surface Water (A1)	Water-Stained L	_eaves (B9)	Drainage Patterns (B10)		
High Water Table (A2)	Aquatic Fauna (		Moss Trim Lines (B16)		
Saturation (A3)	Marl Deposits (I		Dry-Season W ater Table (C2)		
Water Marks (B1)	Hydrogen Sulfid		Crayfish Burrows (C8)		
Sediment Deposits (B2)		spheres on Living Roots (C3)	Saturation Visible on Aerial Imagery (C9)		
Drift Deposits (B3)		educed Iron (C4)	Stunted or Stressed Plants (D1)		
Algal Mat or Crust (B4)		duction in Tilled Soils (C6)	Geomorphic Position (D2)		
Iron Deposits (B5)	Thin Muck Surfa		Shallow Aquitard (D3) Microtopographic Relief (D4)		
<ul><li>Inundation Visible on Ae</li><li>Sparsely Vegetated Con</li></ul>		in Remarks)	FAC-Neutral Test (D5)		
Field Observations:	Jave Sullace (DO)				
Surface Water Present?	Yes No Depth (inches):	NA			
	Yes No Depth (inches):	NIA			
Water Table Present?	. Jo Dobut (money).	N/A Wetland	Hydrology Present? Yes No X		
Water Table Present? Saturation Present?	Yes No Depth (inches):	, all incumin	Try drology Treseries Tes		

Sampling Point:
ecies $\begin{array}{cccccccccccccccccccccccccccccccccccc$
Rapid Test for Hydrophytic Vegetation Dominance Test is >50% Prevalence Index is < 3.0¹ Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) blematic Hydrophytic Vegetation¹ (Explain) ors of hydric soil and wetland hydrology must ent, unless disturbed or problematic. ons of Vegetation Strata: Woody plants 3 in. (7.6 cm) or more in diameter at height (DBH), regardless of height. Wshrub - Woody plants less than 3 in. DBH ater than 3.28 ft (1 m) tall. Ill herbaceous (non-woody) plants, regardless and woody plants less than 3.28 ft tall. Ivines - All woody vines greater than 3.28 ft in
nity Type: S. Nirthern Havelunoud  hytic ion  Yes No
plat

epth	Matrix		Red	ox Features				
ches)	Color (moist)	%	Color (moist)	% Typ	e <sup>1</sup> Loc <sup>2</sup>	Texture	Remar	ks
1-5	10 YR4/3	100				Q		
5-16	104R5/4	100				ard		
THE PERSON NAMED OF THE PE		historius and a		waterstranger betterere	THE PERSON OF	J	Common Marian	aran da vina andaren era
					Parameter and a second	Section of the second of the s		
		****	and the second s		Andrew State of the State of th			
								Construction of the Constr
	oncentration, D=Deple Indicators:	etion, RM=R	educed Matrix, CS	=Covered or Co	ated Sand Gr	ains. <sup>2</sup> Location	PL=Pore Lining, or Problematic H	M=Matrix. ydric Soils³:
Black I Hydrog Stratific Deplete Thick I Sandy Sandy Sandy Strippe	ol (A1) Epipedon (A2) Histic (A3) gen Sulfide (A4) ed Layers (A5) ed Below Dark Surface Oark Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) ed Matrix (S6) Surface (S7) (LRR R, M		MLRA 1498 Thin Dark S Loamy Muc Loamy Gley Depleted M Redox Dark Depleted D	Surface (S9) (LRF ky Mineral (F1) ( red Matrix (F2)	RR, MLRA 14 LRR K, L)	Coast Pr 5 cm Mu Dark Sur Polyvalu Thin Dar Iron-Mar Pledmon Mesic Sg Red Pari Very Sha	ck (A10) (LRR K, L airie Redox (A16) (I cky Peat or Peat (S face (S7) (LRR K, I e Below Surface (S k Surface (S9) (LR ganese Masses (F t Floodplain Soils (I podic (TA6) (MLRA ent Material (TF2) allow Dark Surface xplain in Remarks)	LRR K, L, R) 3) (LRR K, L, R) L, M) 8) (LRR K, L) R K, L) 12) (LRR K, L, R) F19) (MLRA 1491 144A, 145, 1498
	hydrophytic vegetation	n and wetland	i hydrology must be	present, unless o	isturbed or pro	oblematic.		edicates arrayana and previous arrayana arrayana
	ayer (if observed):	_	A STATE OF THE STA					
Type: Depth (inc	A 1	10				Hydric Soil Pre	sent? Yes	No X
marks:	, , , , , , , , , , , , , , , , , , ,							

CHANGE IN CO. LENGTH CO. P.	ttach eite man ehowir	naturally problematic	? (If needed, explain a	no, explain in Remarks.)  mal Circumstances" present? Yes No  ny answers in Remarks.)
Hydrophytic Vegetation Press Hydric Soil Present? Wetland Hydrology Present? Remarks: (Explain alternative	ent? Yes Yes Yes Yes Yes	No No	Is the Sampled Area within a Wetland? If yes, optional Wetlan	Yes No
*W7-1-> W				
VPDOLOGY				
YDROLOGY	The second secon			
Wetland Hydrology Indicate				Secondary Indicators (minimum of two required)
Primary Indicators (minimum		•		Surface Soil Cracks (B6)
Surface Water (A1)	X	Water-Stained Leaves	(B9)	Drainage Patterns (B10)
High Water Table (A2)	_	_ Aquatic Fauna (B13)		Moss Trim Lines (B16)
Saturation (A3)  Water Marks (B1)	_	Marl Deposits (B15)	(0.4)	Dry-Season W ater Table (C2)
Sediment Deposits (B2)		Hydrogen Sulfide Odor		Crayfish Burrows (C8)
Drift Deposits (B3)	_	Oxidized Rhizosphere		
Algal Mat or Crust (B4)		Presence of Reduced I		Stunted or Stressed Plants (D1)
Iron Deposits (B5)	_	Recent Iron Reduction		Geomorphic Position (D2)
Inundation Visible on Ae	rial Imagen (R7)	Thin Muck Surface (C7 Other (Explain in Rem		Shallow Aquitard (D3)
Sparsely Vegetated Con		_ Other (Explain in Ren	idiks)	Microtopographic Relief (D4)
Field Observations:	cave Surface (Bo)			FAC-Neutral Test (D5)
Surface Water Present?	🗸			
Surface vvaler Flesent?	Yes No X	Depth (inches):		
Mater Table Present?	Yes No X	Depth (inches):		Hydrology Present? Yes X No
Water Table Present?		- " " '		Hydrology Present? Yes / No
Saturation Present?		Depth (inches):	Wetland	,
Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (stre	Yes No			
Saturation Present? (includes capillary fringe)	Yes No			
Saturation Present? (includes capillary fringe) Describe Recorded Data (stre	Yes No			
Saturation Present? (includes capillary fringe)	Yes No			

Depth inches)		o the dept				confirm t	he absence of indicate	ors.)
IIICHES)	Matrix Color (moist)	%	Color (moist)	lox Featur	res Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
	-7 /		1					
0-7	104R3/1	98	104R5/8	2	C	M	1	
7-16	104R5/1	93	101R5/8	7	C	M	1	
		-			***************************************			V 704
		Water and the same of the same	Personal Property Commenced Commenced	THE RESIDENTIAL	PRODUCTION OF THE PROPERTY OF	National Association on the Control of the Control	Rozpinski zamini provinski	ACCOUNT TO THE PROPERTY OF THE
territoriti diculumbraniculum	SAN TON COMPANY OF THE PARTY OF	OTL/CONCERNMENT	1900 Melitarrasana aria den en ella sunta yalahistari	terminonome	reservations.	Tatus IO STATE TOTAL	SUBCASHINGSON PROPERTY OF THE	CONTRACTOR OF THE STATE OF THE
		***************************************		and we call half a discour	-	************	Indiana and analysis and an arrangement of the same and t	desired the same of the second se
			- 100-20-120-120-120-1-1-1-1-1-1-1-1-1-1-1	atini (spente	A six Consecution	*************		Acces 14.15.45.24.1.35.28.46.41.44.45.17.14.45.46.16.45.
			***************************************			Secretary and the		Activity of the state of the st
			****					
			-					
		-		***********				
	ncentration, D=Deple	etion, RM=	Reduced Matrix, CS=	Covered	or Coated	Sand Grai		Pore Lining, M=Matrix. Oblematic Hydric Soils3:
dile don i	ndicators.						indicators for Pi	oblematic riyunc sons :
Histoso Histic E	l (A1) pipedon (A2)		Polyvalue Be		ce (S8) (L	RR R,		(0) (LRR K, L, MLRA 149B) Redox (A16) (LRR K, L, R)
Black H	listic (A3) en Sulfide (A4)		Thin Dark St	urface (S9	(LRR R,	MLRA 149	B) 5 cm Mucky P	eat or Peat (\$3) (LRR K, L, R S7) (LRR K, L, M)
Stratifie	d Layers (A5) ed Below Dark Surface	(444)	Loamy Gley	ed Matrix (	F2)	κ, Ε)	Polyvalue Beld	ow Surface (S8) (LRR K, L) face (S9) (LRR K, L)
Thick D	ark Surface (A12) Mucky Mineral (S1)	(A11)	Redox Dark	Surface (F	6)		Iron-Mangane	se Masses (F12) (LRR K, L, I
Sandy (	Gleyed Matrix (S4) Redox (S5)		Depleted Da Redox Depres				Mesic Spodic	dplain Soils (F19) (MLRA 149 (TA6) (MLRA 144A, 145, 149
Stripped	d Matrix (S6)						Red Parent M Very Shallow	Dark Surface (TF12)
Dark St	urface (S7) (LRR R, M	ILRA 149B)					Other (Explain	in Remarks)
ndicators of I	hydrophytic vegetation	and wetlan	d hydrology must be p	resent, un	less distur	bed or prob	lematic.	
The state of the s	yer (if observed):	/	and the same of th	vanco-cura-vás		- Alley - Daries - Daries		
	NON		_					🗸
Туре:	nes): N/A		_				Hydric Soil Present?	Yes_X No
Type:						and the same of th		
Туре:					of one fairness in			

Project/Site: NWC Route 5 & F		Dh	County Comm	alina Data:	8.24.2	1022
Project/Site: NVVC Route 5 & F	Route // Town/County	: Pembroke/Genesee	County Same	billig Date	Sampling Point:	129
Applicant/Owner: Geis Constr	uction	State: New	Ork		Sampling Point.	10-1
Investigator(s): Scott Livingsto	ne & Tom Somerville	Se	ction, Township, I	Range: 15	1-24.1	
Landform (hillslope, terrace, etc	:): LAKE Plain	Local relief (concave,	convex, none): _	NONE		
Subregion (LRR or MLRA) LR	:RL Lat:		Long:		Da	tum: NAD83
Soil Map Unit Name: <u>COLL</u>	AMER SIL	LOAM, Z	-67.510	Spe DNWI	classification:	MA
Are climatic / hydrologic conditi			es No _	(If no, e	xplain in Remarks.)	
Are Vegetation, Soil			,		Circumstances" pres	sent? Yes X No
Are Vegetation, Soil						
SUMMARY OF FINDINGS : A	ttach site map showing	ng sampling point lo	ations, transect	ts, important	features, etc.	
Hydrophytic Vegetation Prese Hydric Soil Present?	Yes	No X No X No X	Is the Sample within a Wet	land?	YesNo	<u>×</u>
Wetland Hydrology Present? Remarks: (Explain alternative	Yes	No/	if yes, optiona	ai vvetiand Site	: ID	
OAPEA IN	ORN FIE FIELD	WITH A	ERIAL	PHO	TO IRR	ELULARITY
HYDROLOGY						
Wetland Hydrology Indicate	ors:				Secondary Indicator	s (minimum of two required)
Primary Indicators (minimum		ck all that apply)			Surface Soil Crack	(s (B6)
Surface Water (A1)		Water-Stained Leav	es (B9)	_	Drainage Patterns	(B10)
High Water Table (A2)		_ Aquatic Fauna (B13		_	Moss Trim Lines (	B16)
Saturation (A3)		Marl Deposits (B15)		_	Dry-Season W ate	
Water Marks (B1)		Hydrogen Sulfide O		_	_ Crayfish Burrows	
Sediment Deposits (B2)		Oxidized Rhizosph	eres on Living Ro	oots (C3)		on Aerial Imagery (C9)
Drift Deposits (B3)		Presence of Reduc	ed Iron (C4)		_ Stunted or Stresse	ed Plants (D1)
Algal Mat or Crust (B4)		Recent Iron Reduct		(C6) _	_ Geomorphic Posit	ion (D2)
Iron Deposits (B5)		Thin Muck Surface	(C7)	_	_ Shallow Aquitard	
Inundation Visible on Ae	erial Imagery (B7)	Other (Explain in F		_	_ Microtopographic	Relief (D4)
Sparsely Vegetated Con					_ FAC-Neutral Test	(D5)
Field Observations:			.1/.	A CONTRACTOR OF THE CO		
Surface Water Present?	Yes No X	Depth (inches):	N/A			
Water Table Present?	Yes No _X	Depth (inches):	NA			V
Saturation Present?	Yes No	Depth (inches):	N/A	Wetland Hyd	irology Present?	Yes No
(includes capillary fringe)  Describe Recorded Data (stre	eam gauge, monitoring	well, aerial photos, pr	evious inspection	ns), if available		
Remarks:						
50						

	Sampling Point: D29
Tree Stratum (Plot size: 30' ) Absolute Dominant Indicat % Cover Species? Status	Of Dominance Test workshoot
	Total Number of Dominant Species Across All Strata: (E
	Percent of Dominant Species That Are OBL, FACW, or FAC: (A
	Prevalence Index worksheet:
= Total Cover	OBL species x 1 =
pling/Shrub Stratum (Plot size: 15' )	FACW species x 2 =
	FAC species x 3 =
	FACU species x 4 =
	UPL species x 5 =
	Column Totals: (A) (E
	Prevalence Index = B/A =/A
	Hydrophytic Vegetation Indicators:
	1 - Rapid Test for Hydrophytic Vegetation
	2 - Dominance Test is >50%
= Total Cover	3 - Prevalence Index is < 3.01
b Stratum (Plot size: 5' )  FLO SP 95 Y NE	1
	Problematic Hydrophytic Vegetation (Explain)
	Indicators of hydric soil and wetland hydrology mus
	be present, unless disturbed or problematic.
	Definitions of Vegetation Strata:
	Tree - Woody plants 3 in. (7.6 cm) or more in diamete at breast height (DBH), regardless of height.
	Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
	Herb - All herbaceous (non-woody) plants, regardles of size, and woody plants less than 3.28 ft tall.
	Woody vines - All woody vines greater than 3.28 ft in height.
ody Vine Stratum (Plot size:30')	The state of the s
	Community Type: Row Chip
	Hydrophytic
	Vegetation
	Present? Yes No _/
= Total Cover	Present? Yes No V
= Total Cover	Present? Yes No
marks: (Include photo numbers here or on a separate sheet.)	Present? Yes No
= Total Cover	Present? Yes No _/
emarks: (Include photo numbers here or on a separate sheet.)	Present? Yes No _V
= Total Cover  emarks: (Include photo numbers here or on a separate sheet.)  hoto # 230 Direction of Photo North	Present? Yes No _V
= Total Cover	Present? Yes No V

rofile Description: (Describe to	the denth	needed to docum	ent the in	dicator or	confirm th	ne absence of indica	itors.)	
Depth Matrix	the depth		dox Featu					
inches) Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remark	S
						1 1		
0-7 10TR1/2	100					511		
7-16 1078514	100					5.0		
10 1011	100		-					
	TENNESS TO		***************************************	- Americanistics	- Prince in the second	Religional Control of the Control of	THE PERSON NAMED IN COLUMN TWO	
DESCRIPTION DESCRIPTION DE L'ANNE DE	***************************************		• •	Clarentzianicamie		THE PERSON NAMED IN COLUMN	Out of the second second	
and the contract of the contra	high supplementary makes the		-	and the second s	-		an radium <del>are gamenta constitu</del> tivo in a paramete edanda	
					40 min - 40 min	10 10 100 100 100 100 100 100 100 100 1	and ever entre they a some	nin and the distance of the control
the manufacture of the state of	40.00	19.1						
The second secon	***************************************		* *************************************		***************************************			
			-					
				-				
ype: C=Concentration, D=Deple	etion, RM=F	Reduced Matrix, CS	=Covered	or Coated	Sand Grai	ins. <sup>2</sup> Location: F	L=Pore Lining, N	Λ=Matrix.
ydric Soil Indicators:						Indicators for	Problematic Hy	dric Soils <sup>3</sup> :
Histosol (A1)		Polyvalue 8	Below Surf	ace (S8) (I	LRR R,	2 cm Muck	(A10) (LRR K, L,	MLRA 149B)
Histic Epipedon (A2)		MLRA 149	B)		MLRA 149	Coast Prair	ie Redox (A16) (L Peat or Peat (S3	RR K, L, R)
Black Histic (A3) Hydrogen Sulfide (A4)		Loamy Muc	cky Minera	l (F1) (LRF	RK, L)	Dark Surface	ce (S7) (LRR K, L	, M)
Stratified Layers (A5) Depleted Below Dark Surface	e (Δ11)	Loamy Gle Depleted M	yed Matrix Natrix (F3)	(F2)		Thin Dark S	Selow Surface (S8 Surface (S9) (LRR	(K, L)
Thick Dark Surface (A12)	(////	Redox Dar Depleted D	k Surface	(F6)		Iron-Manga	nese Masses (F1 loodplain Soils (F	2) (LRR K, L, R) 19) (MLRA 1498
Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4)		Redox Dep	ressions (	F8)		Mesic Spoo	dic (TA6) (MLRA	144A, 145, 149B
Sandy Redox (S5) Stripped Matrix (S6)						Very Shallo	Material (TF2) w Dark Surface (	TF12)
Dark Surface (S7) (LRR R, M	ILRA 149B)					Other (Exp	lain in Remarks)	
Indicators of hydrophytic vegetation	n and wetlan	d hydrology must be	present, u	inless distu	rbed or prob	ematic.	THE PARTY OF THE P	ониманический положений по
estrictive Layer (if observed):  Type: \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	1					and the same of th		
	10	-				Hydric Soil Prese	nt? Yes	No X
Depth (inches):	M	_				Tilydric dom'r redd		
emarks:								
			4.					

Project/Site: <u>NWC Route 5 8</u>	Route 77 Town/Con	unty: Pembroke/Genesee	County Sampling Date	8.24.2022	
Applicant/Owner: Geis Cons	struction	State: New		Sampling Point: 530	
Investigator(s): Scott Livings	tone & Tom Somervill	le Se	ection, Township, Range:	151-24.1	
	1 .1 .1			JVEX Slope (%): 15	
	,				
Soil Man Unit Name: BUA	11/10 X 311	51000 O	-1-1 Shpes.	W I classification:	•
		,			
Are climatic / hydrologic cond			,		
Are Vegetation, Soil _	, or Hydrology _	significantly disturbed	d? Are "Non	mal Circumstances" present? Yes	No
Are Vegetation, Soil _	, or Hydrology _	naturally problema	itic? (If needed, explain an	y answers in Remarks.)	
SUMMARY OF FINDINGS :	Attach site map sho	owing sampling point loo	cations, transects, import	ant features, etc.	
Hydrophytic Vegetation Pres	sent? Ves	No_X_	Is the Sampled Area		
Hydric Soil Present?	100_	No X	within a Wetland?	Yes No	
Wetland Hydrology Present?		No X	If yes, optional Wetland	11/0	
Remarks: (Explain alternation		r in a separate report )	ii yes, opuonai vvetand	Site ID.	
HYDROLOGY	The second secon				
Wetland Hydrology Indica				Secondary Indicators (minimum of two	required
Primary Indicators (minimum Surface Water (A1)	of one is required; ch			Surface Soil Cracks (B6)	
High Water Table (A2)		Water-Stained Leave		Drainage Patterns (B10)	
Saturation (A3)		Aquatic Fauna (B13)		Moss Trim Lines (B16)	
Water Marks (B1)		Marl Deposits (B15) Hydrogen Sulfide Oc		Dry-Season W ater Table (C2) Crayfish Burrows (C8)	
Sediment Deposits (B2)		7	res on Living Roots (C3)	Saturation Visible on Aerial Imagery	(C9)
Drift Deposits (B3)		Presence of Reduce		Stunted or Stressed Plants (D1)	,
Algal Mat or Crust (B4)		Recent Iron Reduction	on in Tilled Soils (C6)	Geomorphic Position (D2)	
Iron Deposits (B5)		Thin Muck Surface (		Shallow Aquitard (D3)	
Inundation Visible on A		Other (Explain in Re	emarks)	Microtopographic Relief (D4)	
Sparsely Vegetated Co	ncave Surface (B8)			FAC-Neutral Test (D5)	
Surface Water Present?		/ A	5/2		
Water Table Present?		Depth (inches):	1/0		
Saturation Present?		Depth (inches):	Ela	hidalam Brassita Vas Na	X
(includes capillary fringe)	,	Depth (inches):		ydrology Present? Yes No _	
Describe Recorded Data (str	eam gauge, monitorin	g well, aerial photos, pre	vious inspections), if availal	ole:	-
Remarks:					

VEGETATION: Use scientific names of plants

ree Stratum (Plot size:)	Absolute % Cover		ant Indicator s? Status	Dominance Test worksheet:	
Acer Succharm		Y	FACU	Number of Dominant Species That Are OBL, FACW, or FAC:	(A)
Acer norm		Y	FAC		
				Species Across All Strata:	(B)
				Percent of Dominant Species That Are OBL, FACW, or FAC: 33%	
				That Are OBL, FACW, or FAC: 551	(A/B)
				Prevalence Index worksheet:	
				Total % Cover of: Multiply by:	
	90	= Total	Cover	OBL species x 1 =	
Sapling/Shrub Stratum (Plot size: 15'				FACW species	
. Phys typhina	40	1	UPL	FACU species 141 x4 = 564	
Acor Jackhanm	10	N	FACU	UPL species $40 \times 5 = 200$	
. Lonivera fortarica		N	FACU	Column Totals: 240 (A) 941	(B)
Rosa multiflara	8	h	FACU	Prevalence Index = B/A = 3.92	
5				The second state of the second	
5				Hydrophytic Vegetation Indicators:	
·				1 - Rapid Test for Hydrophytic Vegetation     2 - Dominance Test is >50%	
	68	_ = Tota	al Cover	3 - Prevalence Index is < 3.01	
Herb Stratum (Plot size:5' )				4 - Morphological Adaptations (Provide supp data in Remarks or on a separate sheet)	orting
Alliaria petrolata	45	_ <u> </u>	FACU		
. Toxico dendron radicans		_ <u>N</u>		Problematic Hydrophytic Vegetation <sup>1</sup> (Explain	1)
3. Solidago juncea	8	- N	FACU	Indicators of hydric soil and wetland hydrology n	nust
1. Polygonn virginianum	6	N	FAC	be present, unless disturbed or problematic.	
5				Definitions of Vegetation Strata:	
5				Tree - Woody plants 3 in. (7.6 cm) or more in diam at breast height (DBH), regardless of height.	neter
3.		-	-	Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.	1
0				Herb - All herbaceous (non-woody) plants, regard of size, and woody plants less than 3.28 ft tall.	dless
11				Woody vines - All woody vines greater than 3.28	B ft in
12	69 =	Total Co	over	height.	
Alandy Vina Stratum (Plat size: 20)					-
Woody Vine Stratum (Plot size: 30')  1. Vitis aestivalis	15	Y	FACU		
2 Toxivoderdon radians	- <del>- x</del>	Y	FAC	Community Type: S. Northern Hardwo	wel
				Hydrophytic	
3 4				Vegetation	
t			al Cover	Present? Yes No 🗶	
Remarks: (Include photo numbers here or on a separate		100			
	ction of Phot	o Mo	cth		
Prioto # 101	CHOIL OI LING	10%		•	

9pth Matrix ches) Color (moist) % 0-5 104R9/2100 3-16 104R5/4 100	Redox Features Color (moist) % Type¹ Loc²	Texture Remarks
	Color (moist) % Type' Loc <sup>c</sup>	Texture Remarks
5-16 104R9/2 100		A
5-16 104R5/4 100		
3-16 10483/4 100		<u></u>
The second section of the second seco		<u> </u>
The state of the s		
	The restriction of the second	Andread and the second Andread and a second a
ORGANIZATION OF THE PROPERTY O	producerous acque curtisenterous personales escorramentarion en accidente portente vocambiante establishes. Il	AND COMMENT OF THE PROPERTY OF
The second secon		
CONTRACTOR	while desiration of the second	in the property with the contraction of the contrac
-	The second secon	
		The second secon
may Co-Consentration D. D. J.	de la	2 Posting Dimpositions Manager
rpe: C=Concentration, D=Depletion, RM=Red dric Soil Indicators:	educed Matrix, CS=Covered or Coated Sand Grain	s. <sup>2</sup> Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils <sup>3</sup> :
Histosol (A1) Histic Epipedon (A2)	Polyvalue Below Surface (S8) (LRR R, MLRA 149B)	<ul> <li>2 cm Muck (A10) (LRR K, L, MLRA 149B)</li> <li>Coast Prairie Redox (A16) (LRR K, L, R)</li> </ul>
Black Histic (A3) Hydrogen Sulfide (A4)	Thin Dark Surface (S9) (LRR R, MLRA 149B) Loamy Mucky Mineral (F1) (LRR K, L)	
Stratified Layers (A5)	Loamy Gleyed Matrix (F2)	Polyvalue Below Surface (S8) (LRR K, L)
Depleted Below Dark Surface (A11) Thick Dark Surface (A12)	Depleted Matrix (F3) Redox Dark Surface (F6)	Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, F
Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4)	Depleted Dark Surface (F7) Redox Depressions (F8)	Piedmont Floodplain Soils (F19) (MLRA 149 Mesic Spodic (TA6) (MLRA 144A, 145, 149)
Sandy Redox (S5)	readx popledations (1 s)	Red Parent Material (TF2) Very Shallow Dark Surface (TF12)
Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B)		Other (Explain in Remarks)
	hydrology must be present, unless disturbed or proble	ematic.
strictive Layer (if observed):		
Туре:		
Depth (inches):		Hydric Soil Present? Yes No
marks:		

		8.74.7022
Project/Site: NWC Route 5 & Route 77 Town/County	r: Pembroke/Genesee County	Sampling Date:
Applicant/Owner: Geis Construction	State: New York	Sampling Point:
Investigator(s): Scott Livingstone & Tom Somerville		
Landform (hillslope, terrace, etc.): Fr// PAD		
Subregion (LRR or MLRA) LRRL Lat:	Long:	Datum: NAD83
Subregion (LRR or MLRA) LRRL Lat:  Soil Map Unit Name: COLLAMER 57	LT LOAM, 2-6	NW I classification:
Are climatic / hydrologic conditions on the site typical	for this time of year? Yes	No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology	_ significantly disturbed?	Are "Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology	naturally problematic? (If ne	eded, explain any answers in Remarks.)
SUMMARY OF FINDINGS: Attach site map showing	ng sampling point locations, tr	ansects, important features, etc.
Hydrophytic Vegetation Present? Yes	140	Sampled Area
Hydric Soil Present? Yes	No X within	a Wetland? Yes NoX
Wetland Hydrology Present? Yes		optional Wetland Site ID:
Remarks: (Explain alternative procedures here or in	a separate report.)	OIN FILL
UPLAND WOODS O	OVER VERI	OLD PICE
HYDROLOGY		
Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; che		Surface Soil Cracks (B6)
Surface Water (A1)	_ Water-Stained Leaves (B9)	Drainage Patterns (B10) Moss Trim Lines (B16)
High Water Table (A2)	_ Aquatic Fauna (B13)	Dry-Season W ater Table (C2)
Saturation (A3) Water Marks (B1)	_ Marl Deposits (B15) _ Hydrogen Sulfide Odor (C1)	Crayfish Burrows (C8)
Sediment Deposits (B2)	Oxidized Rhizospheres on Li	
Drift Deposits (B3)	Presence of Reduced Iron (Ca	
Algal Mat or Crust (B4)	Recent Iron Reduction in Tille	
Iron Deposits (B5)	Thin Muck Surface (C7)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Remarks)	Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)		FAC-Neutral Test (D5)
Field Observations:		
Surface Water Present? Yes No	Depth (inches):	-
Water Table Present? Yes No	Depth (inches):	- William Paranta You No X
Saturation Present? Yes No No	Depth (inches):	Wetland Hydrology Present? Yes No
Describe Recorded Data (stream gauge, monitoring	well, aerial photos, previous ins	pections), if available:
Remarks:		

VEGETATION:	Use scientific	names	of plants

Tree Stratum (Plot size: 30')  1. Juglans ningra  2. Robinia pseudoacacia  3. Acer negundo	25 Y FACU	Dominance Test worksheet:  Number of Dominant Species That Are OBL, FACW, or FAC:  Total Number of Dominant Species Across All Strata:  (B)
4		Percent of Dominant Species That Are OBL, FACW, or FAC:  Prevalence Index worksheet:
5. Sapling/Shrub Stratum (Plot size: 15' )  1. Lonicera fatar'i ca  2. Rhus typhina  3. Juglans nigra  4	80 = Total Cover  40 Y FACU 20 Y UPL 10 N FACU	Total % Cover of: Multiply by:  OBL species
5		Hydrophytic Vegetation Indicators:  1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is < 3.01
Herb Stratum (Plot size: 5')  1. Past Maca Sativa  2. Rosa multiflora  3. Robus alleghaniensis  4. Solidago Canadensis  5. 6. 7. 8. 9. 10. 11. 12.	18 N FACU 6 N FACU 2 N FACU	4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) — Problematic Hydrophytic Vegetation¹ (Explain)  Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  Definitions of Vegetation Strata:  Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.  Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  Woody vines - All woody vines greater than 3.28 ft in height.
Woody Vine Stratum (Plot size:		Community Type: S. Narthun Hanland  Hydrophytic Vegetation Present?  Yes No
Remarks: (Include photo numbers here or on a separate Photo #	= Total Cover e sheet.) etion of Photo_North west	

rofile Desci	iption: (Describe to	the depth	needed to docume	ent the in	dicator or	confirm the	e absence of indica	tors.)	
Depth	Matrix			lox Featu		. ,		Damada	
inches)	Color (moist)	%%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks	
0-11	104R3/1	100	***************************************				<u></u>	Fill	e e e e e e e e e e e e e e e e e e e
					• *************************************	THE CONTRICTOR CONTRIC			
ydric Soil II  Histoso Histic E Black H Hydraffe Deplete Thick D Sandy I Sandy I Strippe		e (A11)	Polyvalue B MLRA 149E Thin Dark S Loamy Muc Loamy Gley Depleted M Redox Dark Depleted Di Redox Dep	Selow Surf B) Surface (Si ky Minera yed Matrix atrix (F3) Surface ( ark Surface	ace (S8) (L 9) (LRR R, I (F1) (LRR (F2) (F6) e (F7)	.RR R, MLRA 149B	Indicators for I  2 cm Muck ( Coast Prairie 5 cm Mucky Dark Surface Polyvalue Be Thin Dark Si Iron-Mangar Piedmont Fie Mesic Spodi Red Parent I Very Shallov	L=Pore Lining, M=Problematic Hydro A10) (LRR K, L, Merchael Redox (A16) (LRP Peat or Peat (S3) (elso) (LRR K, L, Merchael S9) (LRR K, L) (LRC K) (LRC K) (LRC K) (LRC K) (MLRA 144) (MATCHAEL (TF2) (Park Surface (TF)) (Park Surf	ric Soils <sup>3</sup> : LRA 149B) R K, L, R) LRR K, L, R I) LRR K, L) , L) (LRR K, L, F (LRR K, L, F ) (MLRA 145 IA, 145, 149
estrictive La	nydrophytic vegetation	and wetland	d hydrology must be	present, u	nless distur	rbed or proble	ematic.	apono sobre de la compete de la comp	
Type:		16	-				Lhudria Cail Dracan	42 Voc	No_X
Depth (inclemarks:	ies)://	14	_				Hydric Soil Presen	. 169	110

Project/Site: NWC Route 5 & Route 77 Town/Cour	htv: Pembroke/Genesee County S	ampling Date: 8-24.2022
Applicant/Owner: Geis Construction	State: New York	Sampling Point: 032
	-	
Investigator(s): Scott Livingstone & Tom Somerville		
andform (hillslope, terrace, etc.): Depressio	Local relief (concave, convex, none	): <u>CONCAUE</u> Slope (% ):
Subregion (LRR or MLRA)LRRLLat:	Long:	Datum: NAD83
Subregion (LRR or MLRA) <u>LRRL</u> Lat: Soil Map Unit Name: <u>DVNKIRK ら</u> 』	LT LOAM, 6-12%	Slopes NW I classification: PEM
Are climatic / hydrologic conditions on the site typica	, ,	
		Are "Normal Circumstances" present? Yes X No
Are Vegetation, Soil, or Hydrology	naturally problematic? (If neede	d, explain any answers in Remarks.)
SUMMARY OF FINDINGS: Attach site map show	ving sampling point locations, trans	ects, important features, etc.
Hydrophytic Vegetation Present? Yes	No Is the Sam	npled Area
Hydric Soil Present? Yes	I salabala a 14	Vetland? Yes No
Wetland Hydrology Present?		onal Wetland Site ID:
Remarks: (Explain alternative procedures here or		orial vvettario orio ID.
	1 01/	ACMITES
· W9-1-> W9-11 (	(LOSED) -111	
· W9-1-> W9-11 L.	ar-III RE	TENSION AREA
, WIDE KOADSIDE	DITCHI	
-		
		A STATE OF THE STA
YDROLOGY		
Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; che	eck all that apply)	Surface Soil Cracks (B6)
Surface Water (A1)	Water-Stained Leaves (B9)	Drainage Pattems (B10)
	Aquatic Fauna (B13)	Moss Trim Lines (B16)
Saturation (A3)	Marl Deposits (B15)	Dry-Season W ater Table (C2)
Water Marks (B1)	Hydrogen Sulfide Odor (C1)	Crayfish Burrows (C8)
Sediment Deposits (B2)	Oxidized Rhizospheres on Living	
Drift Deposits (B3)	Presence of Reduced Iron (C4)	Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4)	Recent Iron Reduction in Tilled So	
Iron Deposits (B5)	Thin Muck Surface (C7)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Remarks)	Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)		FAC-Neutral Test (D5)
Field Observations:		The state of the s
Surface Water Present? Yes No	Depth (inches): N/A	
	Depth (inches): N/A	
7.	Depth (inches): N/A	Wetland Hydrology Present? Yes No
(includes capillary fringe)		
Describe Recorded Data (stream gauge, monitoring	well, aerial photos, previous inspecti	ons), if available:
Remarks:		

,	/FOETA	TION	. I lan	agiantific	namaa	OF.	nlante
١	/EGE   P	NOIL	: Use	scientific	riames	Of	piants.

	Absolute Dominant Indicator	Dominance Test worksheet:
Tree Stratum         (Plot size:30')           1	% Cover Species? Status	Number of Dominant Species That Are OBL, FACW, or FAC:(A)
3.		Total Number of Dominant Species Across All Strata:  (B)
		Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
5 5		Prevalence Index worksheet:
		Total % Cover of: Multiply by:
		OBL species x 1 =
	= Total Cover	
Sapling/Shrub Stratum (Plot size: 15'	_)	FACW species x2 =
		FAC species x 3 =
		FACU species x 4 =
		UPL species x 5 =
		Column Totals: (A) (B)
5.		Prevalence Index = B/A =
3.		Hydrophytic Vegetation Indicators:
		X 1 - Rapid Test for Hydrophytic Vegetation
7		2 - Dominance Test is >50%
	= Total Cover	3 - Prevalence Index is < 3.01
Herb Stratum (Plot size: 5' )		4 - Morphological Adaptations (Provide supporting
Phagmites australis	105 Y FACW	data in Remarks or on a separate sheet)
2. Lythom Salizaria		Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
3		Indicators of hydric soil and wetland hydrology must
4		be present, unless disturbed or problematic.
5		Definitions of Vegetation Strata:
6 7		Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
8		Sapling/shrub - Woody plants less than 3 in. DBH
9		and greater than 3.28 ft (1 m) tall.
10		Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
11		Woody vines - All woody vines greater than 3.28 ft in
12	107 = Total Cover	height.
Woody Vine Stratum (Plot size: 30'		AND REPORTED THE PROPERTY OF T
1		
2.		Community Type: Fruitive Species Marsh Hydrophytic PEM28
3.		Hydrophytic PEM28
		Vegetation
4	= Total Cover	Present? Yes No
Remarks: (Include photo numbers here or on a separ		
	rection of Photo <u>Gast</u>	
Photo # Dir	ection of Photo	
2 1	to ditch linear wetland	
- Koadsid	de dutch I linear wer wan	,
	wetland wg	THE SECOND PROPERTY AND A SECOND PROPERTY OF THE SECOND PROPERTY OF

rotile Descri							Sampling Point:	<b>D</b> 3
		the depth			r confirm th	e absence of indicate	ors.)	
Depth (inches)	Matrix Color (moist)	%	Redo Color (moist)	x Features % Type1	Loc <sup>2</sup>	Texture	Remarks	
	11.2.00	70	Color (moist)	70 1700	LUC	Texture	Remarks	
0-11	104R3/1	98	10xes/8	2 0	M	2		******************
11-16	104R514	100				<u></u>		
and a contract of the contract		Service and the service and			E 2000000000000000			
		-	-					
ype: C=Con	centration, D=Deplet	ion, RM=Re	educed Matrix, CS=C	Covered or Coated	d Sand Grain		Pore Lining, M=Matrix	
Black His Hydroger Stratified Depleted Thick Da Sandy G Sandy G Sandy R Stripped	ipedon (A2)		MLRA 149B) Thin Dark Sur	ix (F3) curface (F6) c Surface (F7)	MLRA 1498	Coast Prairie ( ) 5 cm Mucky P Dark Surface ( Polyvalue Beld Thin Dark Surface ( Iron-Mangane Piedmont Floo Mesic Spodic Red Parent M	Dark Surface (TF12)	K, L, R K, L, R K, L) K, L, F RA 149
ndicators of hy	drophytic vegetation a	and wetland	hydrology must be pre	esent, unless distu	rbed or proble	ematic.		
estrictive Lay Type:	rer (If observed):						7,000	
	. 6	10				Hydric Soil Present?	Von M	
Depth (inche emarks:	es):	<i>P</i> 3				Hydric Soil Fresent	Yes No	
orrano.								

g Date: 8-24-2022 Sampling Point: 033
Quilipining i sinti
nge: 151-24.1
20/11/EX Slope (%): 10
Datum: NAD83
Datum: NAD83  NW I classification:
(If no, explain in Remarks.)
re "Normal Circumstances" present? Yes No
olain any answers in Remarks.)
important features, etc.
Area
nd? Yes No
Netland Site ID:
Secondary Indicators (minimum of two required)
Surface Soil Cracks (B6)
Drainage Patterns (B10)
Moss Trim Lines (B16)
Dry-Season W ater Table (C2)
Crayfish Burrows (C8)
ts (C3) Saturation Visible on Aerial Imagery (C9)
Stunted or Stressed Plants (D1)
C6) Geomorphic Position (D2)
<ul><li>Shallow Aquitard (D3)</li><li>Microtopographic Relief (D4)</li></ul>
FAC-Neutral Test (D5)
TAG-recular rest (2-5)
Vetland Hydrology Present? Yes No
vetialid hydrology Present: 155
, if available:
t c

VEGETATION: Use scientific names of plants.		Sampling Point: <u>D33</u>
Tree Stratum (Plot size: 30' )	Absolute Dominant Indicator % Cover Species? Status	Dominance Test worksheet: Number of Dominant Species
1. Jugans nigra	15 Y FACU	That Are OBL, FACW, or FAC: (A)
3.		Total Number of Dominant Species Across All Strata: (B)
5		Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
6		Prevalence Index worksheet:
	= Total Cover	Total % Cover of: Multiply by:  OBL species x 1 =
Sapling/Shrub Stratum (Plot size: 15'		FACW species $x 2 = $ FAC species $x 3 = 30$
2. Longera tatarica	30 Y FACU	FACU species 153 x4= 612
3. Juglans nigra	10 N FACI	UPL species $\frac{40}{203}$ x 5 = $\frac{200}{842}$ (B)
5		Prevalence Index = B/A = 4.14
6		Hydrophytic Vegetation Indicators:
7		1 - Rapid Test for Hydrophytic Vegetation
	80_ = Total Cover	2 - Dominance Test is >50% 3 - Prevalence Index is < 3.0 <sup>1</sup>
Herb Stratum (Plot size: 5' )	100 11 0	4 - Morphological Adaptations (Provide supporting
1. Alliana potidata		data in Remarks or on a separate sheet)
2. Pur pro tensis		Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
3. Roly gonum virginianum 4. Faxinus americana	6 N FAC	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
5		Definitions of Vegetation Strata:
6 7		Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
8		Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
9		Herb - All herbaceous (non-woody) plants, regardless
11		of size, and woody plants less than 3.28 ft tall.
12.	= Total Cover	Woody vines - All woody vines greater than 3.28 ft in height.
Woody Vine Stratum (Plot size: 30' )		
1. Vitis aestivalis	35 Y FACU	Community Type: Successional Shubland
2		
4		Hydrophytic Vegetation
	35 = Total Cover	Present? Yes No
Remarks: (Include photo numbers here or on a separa		
Photo # P34 Dire	ction of Photo Nerth	
		3

1/2 100 1/4 100	Redo Color (moist)	ox Features % Type¹	Loc²	Texture	Remarks	
1/2 100						
74 100						
Depletion, RM=Re	educed Matrix, CS=	Covered or Coated	d Sand Grains	s. <sup>2</sup> Location: PL=	Pore Lining, Ma	Matrix.
			LRR R,	Coast Prairie R	edox (A16) (LR	R K, L, R)
	Thin Dark St	urface (S9) (LRR R,	MLRA 149B)	5 cm Mucky Pe	eat or Peat (S3)	(LRRK, L, R
	Loamy Muck	ky Mineral (F1) (LRI ed Matrix (F2)	K K, L)	Polyvalue Belo	w Surface (S8)	(LRR K, L)
Surface (A11)	Depleted Ma	atrix (F3)		Iron-Manganes	e Masses (F12)	(LRR K, L, I
(S1)	Depleted Da	rk Surface (F7)		Piedmont Floor	dplain Soils (F19	9) (MLRA 14
S4)	Redox Depr	essions (F8)		Red Parent Ma	iterial (TF2)	
				Very Shallow D	Oark Surface (TF	12)
R R, MLRA 149B)				Other (Explain	in Remarks)	
etation and wetland	hydrology must be p	oresent, unless distu	rbed or proble	ematic.	······································	
ed):		and the state of t				
NIA				Hydric Soil Present?	Yes	No_X
	-					
	Surface (A11) (2) (S1) (S4) R R, MLRA 149B) etation and wetland	Polyvalue Bound MLRA 1498 Thin Dark State Loamy Much Loamy Much Loamy Gley Surface (A11) Pepleted Mark Redox Dark State Redox Depress RR, MLRA 149B)  Petation and wetland hydrology must be press.	Polyvalue Below Surface (S8) (I MLRA 149B)  Thin Dark Surface (S9) (LRR R, Loamy Mucky Mineral (F1) (LRI Loamy Gleyed Matrix (F2)  Surface (A11) Depleted Matrix (F3) Redox Dark Surface (F6) S1) Depleted Dark Surface (F7) Redox Depressions (F8)  R R, MLRA 149B)  Retation and wetland hydrology must be present, unless distured:	Polyvalue Below Surface (S8) (LRR R, MLRA 149B) Thin Dark Surface (S9) (LRR R, MLRA 149B Loamy Mucky Mineral (F1) (LRR K, L) Loamy Gleyed Matrix (F2) Depleted Matrix (F3) Redox Dark Surface (F6) S1) — Depleted Dark Surface (F7) S4) — Redox Depressions (F8)  R R, MLRA 149B)  Retation and wetland hydrology must be present, unless disturbed or problected:	Indicators for Production, Number of Number of Number of Production, Number of Number of Number of Number of Production, Number of P	Indicators for Problematic Hydrology must be present, unless disturbed or problematic.  Indicators for Problematic Hydrology must be present, unless disturbed or problematic.  Indicators for Problematic Hydrology must be present, unless disturbed or problematic.  Indicators for Problematic Hydrology (Indicators for Mucky (Indicato

Applicant/Owner: Geis Cons	Route 77 Town/County: Pembroke/Genesee County	sty Sampling Date: 8 4 47 4022
	truction State: New York	Sampling Point: <u>8.24.2022</u> Sampling Point: <u>D34</u>
nvestigator(s): Scott Livings		
andform (hillstone to see	tone & Tom Somerville Section,	Township, Range: 151-24.1
	tc.): <u>DEP (e55, En</u> Local relief (concave, conve	
ubregion (LRR or MLRA) _L	RRL Lat: LOAM,	ong: Datum: NAD83
oil Map Unit Name: CHA	ANDAIGUA SILT LOAM,	0-2/. NWI classification: PEM
	tions on the site typical for this time of year? Yes	
		Are "Normal Circumstances" present? Yes No_
	, or Hydrology naturally problematic? (I	
	Attach site map showing sampling point location	
SHAME OF THE SHOOT.	Attach site map snowing sampling point locations	s, transects, important leatures, etc.
Hydrophytic Vegetation Pres		the Sampled Area
Hydric Soil Present?		ithin a Wetland? Yes X No
Wetland Hydrology Present?	Yes No Ify	yes, optional Wetland Site ID:
Remarks: (Explain alternativ	re procedures here or in a separate report.)	
· W10-12	W10-12 (CLOSED). ROAD SIDE DITCH	- PHRAGMITES
		11 - 15TON AREA
· WIDE 1	20AD SIDE DITCH	4/ DETENTION HICH
	,,,	/
DROLOGY		And the second s
Vetland Hydrology Indicat	Cors:	Secondary Indicators (minimum of two require
	of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1)	Water-Stained Leaves (B9)	
_ High Water Table (A2)	Aquatic Fauna (B13)	Moss Trim Lines (B16)
Saturation (A3)	Marl Deposits (B15)	Dry-Season W ater Table (C2)
Water Marks (B1)	Hydrogen Sulfide Odor (C1	. I
Sediment Deposits (B2)	Oxidized Rhizospheres on	Living Roots (C3) Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3)	Presence of Reduced Iron	
	Recent Iron Reduction in T	
Algal Mat or Crust (B4)		Shallow Aquitard (D3)
Iron Deposits (B5)	Thin Muck Surface (C7)	
Iron Deposits (B5) Inundation Visible on Ae	Thin Muck Surface (C7)  Thin Muck Surface (C7)  Other (Explain in Remarks	Microtopographic Relief (D4)
Iron Deposits (B5) Inundation Visible on Ae Sparsely Vegetated Cor	Thin Muck Surface (C7)  Thin Muck Surface (C7)  Other (Explain in Remarks	
Iron Deposits (B5) Inundation Visible on Ae Sparsely Vegetated Cor ield Observations:	Thin Muck Surface (C7) erial Imagery (B7) Other (Explain in Remarks)	Microtopographic Relief (D4)
Iron Deposits (B5) Inundation Visible on Ae Sparsely Vegetated Cor Tield Observations: Surface Water Present?	Thin Muck Surface (C7) Other (Explain in Remarks) ncave Surface (B8)  Yes No Depth (inches):	Microtopographic Relief (D4)
Iron Deposits (B5) Inundation Visible on Ae Sparsely Vegetated Cor Field Observations: Surface Water Present? Vater Table Present?	Thin Muck Surface (C7) Other (Explain in Remark: ncave Surface (B8)  Yes No Depth (inches):	Microtopographic Relief (D4)  FAC-Neutral Test (D5)
Iron Deposits (B5) Inundation Visible on Ae Sparsely Vegetated Cor Field Observations: Surface Water Present? Vater Table Present? Saturation Present? includes capillary fringe)	Thin Muck Surface (C7) Other (Explain in Remarks)  Yes No Depth (inches): Yes No Depth (inches): Yes No Depth (inches):	Microtopographic Relief (D4)  FAC-Neutral Test (D5)  Wetland Hydrology Present? Yes No
Iron Deposits (B5) Inundation Visible on Ae Sparsely Vegetated Cor Field Observations: Surface Water Present? Vater Table Present? Saturation Present? Includes capillary fringe)	Thin Muck Surface (C7) Other (Explain in Remark: ncave Surface (B8)  Yes No Depth (inches):	Microtopographic Relief (D4)  FAC-Neutral Test (D5)  Wetland Hydrology Present? Yes No
Iron Deposits (B5) Inundation Visible on Ae Sparsely Vegetated Cor Field Observations: Surface Water Present? Nater Table Present? Saturation Present? includes capillary fringe)	Thin Muck Surface (C7) Other (Explain in Remarks)  Yes No Depth (inches): Yes No Depth (inches): Yes No Depth (inches):	Microtopographic Relief (D4) FAC-Neutral Test (D5)  Wetland Hydrology Present? Yes No
Iron Deposits (B5) Inundation Visible on Ae Sparsely Vegetated Cor Field Observations: Surface Water Present? Vater Table Present? Saturation Present? includes capillary fringe)	Thin Muck Surface (C7) Other (Explain in Remarks)  Yes No Depth (inches): Yes No Depth (inches): Yes No Depth (inches):	Microtopographic Relief (D4) FAC-Neutral Test (D5)  Wetland Hydrology Present? Yes No

<b>VEGETATION: Us</b>	scientific	names	of plants.
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<u>Tree Stratum</u> (Plot size:30')	Absolute Dominant Indicator % Cover Species? Status	Dominance Test worksheet:  Number of Dominant Species That Are OBL, FACW, or FAC: (A)
3		Total Number of Dominant Species Across All Strata: (B)
5		Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
3		Prevalence Index worksheet:
7.		Total % Cover of: Multiply by:
	= Total Cover	OBL species x 1 =
Sapling/Shrub Stratum (Plot size: 15')		FACW species x 2 =
1.		FAC species x 3 =
		FACU species x 4 =
2.		UPL species x 5 =
3		Column Totals: (A) (B)
4		Prevalence Index = B/A =
5		Hydrophytic Vegetation Indicators:
6		X 1 - Rapid Test for Hydrophytic Vegetation
7		2 - Dominance Test is >50%
	= Total Cover	3 - Prevalence Index is < 3.01
Herb Stratum (Plot size: 5' )	100 Y FACW	4 - Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)
1. Phragmites austalis 2. Symphyotrichum lateriflorum		Problematic Hydrophytic Vegetation (Explain)
		Indicators of hydric soil and wetland hydrology must
4 —		be present, unless disturbed or problematic.
5		Definitions of Vegetation Strata:
6		Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
7		Sapling/shrub - Woody plants less than 3 in. DBH
9		and greater than 3.28 ft (1 m) tall.
10		Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
11		Woody vines - All woody vines greater than 3.28 ft in
-	105 = Total Cover	height.
Woody Vine Stratum (Plot size: 30' )		
1		Community Type: Invasive Species Marsh
2		Community Type. ST. 110017
3		Hydrophytic PEM2B
4.		Vegetation Present? YesX_ No
	= Total Cover	Present tes
Remarks: (Include photo numbers here or on a separate si		
Photo # <u>\$\epsilon\$ 35</u> Direction	on of Photo East	
Photo # Direction	on of Photo	
		*
	1,	11. 0
- 2	oal Sick difeh //mear	wetlank
	Wetland WID	

rofile Des	cription: (Describe to	the dept	h needed to documer	nt the in	dicator or	confirm th	e absence of inc	licators.)
Depth inches)	Matrix Color (moist)		Redo	x Featu	res			
inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc²	Texture	Remarks
11	1010031.	00	100	-			Λ	
0-0	10423/1	9/	104518	5	C	M		
5-16	104K211	95	1072518	5	C	M	1	
							,	
The state of the s		The second second	The book of the control of the state of the	TOTAL PROPERTY.	State of the latest and the latest a	Bettermore, a	ACCORDING TO SERVICE AND ADDRESS OF THE PERSON OF THE PERS	
- Company of the Comp	Activity of Automobile States of Automobile States of St	-	DISCONSISCON TO PROPERTY OF STATE OF STREET	THE PERSON NAMED IN	CONTROL OF THE OWNER OWNER OF THE OWNER OW	-	Carried Anna Contraction of States	
		***************************************		-	********************		The second secon	
o en exposition :	the new surfacement or hard surface and the		Tribuna Santa anna (Santa) Santasa	ot sign of our plant pro-			er or annual annual annual annual	in and the first make the contract of the first statement
						-		
			-			-		
			-	*************		-		
					***************************************			
rpe: C=Co	oncentration, D=Deplet	tion, RM=F	Reduced Matrix, CS=C	covered	or Coated	Sand Grain		PL=Pore Lining, M=Matrix. or Problematic Hydric Soils <sup>3</sup> :
							indicators	or Problematic Hydric Soils":
Histose	ol (A1) Epipedon (A2)		Polyvalue Bell MLRA 149B)	ow Surfa	ce (S8) (LI	RR R,	2 cm Muc	ck (A10) (LRR K, L, MLRA 149B)
Black I	Histic (A3)		Thin Dark Sur	face (S9)	(LRR R,	VILRA 149B	) 5 cm Muc	airie Redox (A16) (LRR K, L, R) cky Peat or Peat (S3) (LRR K, L, R
Stratifie	gen Sulfide (A4) ed Layers (A5)		Loamy Mucky Loamy Gleyed	Matrix (	(F1) ( <b>LRR</b> F2)	K, L)	Dark Surf	ace (S7) (LRR K, L, M) Below Surface (S8) (LRR K, L)
Deplete	ed Below Dark Surface Dark Surface (A12)	(A11)	Depleted Matr Redox Dark S	ix (F3)			Thin Dark	Surface (S9) (LRR K, L) ganese Masses (F12) (LRR K, L, I
Sandy	Mucky Mineral (S1)		Depleted Dark	Surface	(F7)		Piedmont	Floodplain Soils (F19) (MLRA 149
Sandy	Gleyed Matrix (S4) Redox (S5)		Redox Depres	ssions (F	8)			odic (TA6) ( <b>MLRA</b> 1 <b>44A, 145, 149</b> nt Material (TF2)
Strippe Dark S	d Matrix (S6) urface (S7) (LRR R, ML	RA 149R)					Very Sha	llow Dark Surface (TF12) plain in Remarks)
	( / ( (-) (-) (-) (-) (-) (-) (-) (-) (-)	100 1400)					Oulei (Ex	plant in Kentarks)
dicators of	hydrophytic vegetation	and wetland	d hydrology must be pre	esent, unl	ess disturb	ed or proble	matic.	
strictive L	ayer (if observed):							
Type:	NONE	-	-					
Depth (inc	hes):	14	_				Hydric Soil Pres	ent? Yes No
marks:							The second secon	
								,

Project/Site: <u>NWC Route 5 &amp; Route 77</u> Town/County: <u>Per</u>	phraka/Canasaa Cauphy Sa	moling Date: 8.24.2022
Project/Site. NWC Route 5 & Route 77 Town/County. Per	IDIONE/GENESEE County Ga	Sampling Point:
Applicant/Owner: Geis Construction	State: New York	
	Section, Township	
Landform (hillslope, terrace, etc.): Lake Plano Loca	I relief (concave, convex, none):	: Slope (%):
Subragion (LDD or MLDA) LDDL Late	Long:	Datum: NAD83
Soil Map Unit Name: COLLAMER FALT	LOAM, 2-6%	Soperity I classification:
Are climatic / hydrologic conditions on the site typical for this	stime of year? res / \ No	(II no, explain in ternants)
		Are "Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrologyn	aturally problematic? (If needed	d, explain any answers in Remarks.)
SUMMARY OF FINDINGS: Attach site map showing sa	mpling point locations, transe	ects, important features, etc.
	1	
Hydrophytic Vegetation Present? Yes I Hydric Soil Present? Yes I	within a W	. X
		N/A
Wetland Hydrology Present? Yes		onal Wetland Site ID:
Remarks: (Explain alternative procedures here or in a se	parate report.)	
UPLAND CORN FIEL	N	
OF CORN PAGE	15	
		)
HYDROLOGY		
Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all	that apply)	Surface Soil Cracks (B6)
Surface Water (A1) W	ater-Stained Leaves (B9)	Drainage Patterns (B10)
High Water Table (A2) Aq	uatic Fauna (B13)	Moss Trim Lines (B16)
Saturation (A3)	arl Deposits (B15)	Dry-Season W ater Table (C2)
	drogen Sulfide Odor (C1)	Crayfish Burrows (C8)
	didized Rhizospheres on Living	
	esence of Reduced Iron (C4)	Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4) Re	ecent Iron Reduction in Tilled So	
	in Muck Surface (C7)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7) Of	ther (Explain in Remarks)	Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)		FAC-Neutral Test (D5)
Field Observations:	.//^	
Surface Water Present? Yes No _X De	epth (inches):	
Water Table Present? Yes No _X De	epth (inches):	×
Saturation Present? Yes No X De	epth (inches): N/A	Wetland Hydrology Present? Yes No
(includes capillary fringe)		
Describe Recorded Data (stream gauge, monitoring well,	aeriai photos, previous inspecti	ions), if available.
Danada:		
Remarks:		
		- T
St. Control of the Co		
B .		

EGETATION: Use scientific names of plants.		Sampling Point: D35
Tree Stratum (Plot size: 30'		Dominance Test worksheet:  Number of Dominant Species That Are OBL, FACW, or FAC: (A)
3.		Total Number of Dominant Species Across All Strata: (B)
5		Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
S		Prevalence Index worksheet:  Total % Cover of: Multiply by:
	= Total Cover	OBL species x 1 =
Sapling/Shrub Stratum (Plot size: 15'		FAC species x 2 = FAC species x 3 =
		FACU species x 4 =
		UPL species x 5 = Column Totals: (A) (B)
		Prevalence Index = B/A = N/A
		Hydrophytic Vegetation Indicators:
•		1 - Rapid Test for Hydrophytic Vegetation
	= Total Cover	2 - Dominance Test is >50%
lerb Stratum (Plot size:5' )	A CONTRACTOR OF THE PROPERTY O	3 - Prevalence Index is < 3.01
Zea p.		<ul> <li>4 - Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)</li> </ul>
		Problematic Hydrophytic Vegetation¹ (Explain)
·		Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
		Definitions of Vegetation Strata:
		Tree - Woody plants 3 in. (7.6 cm) or more in diameter
3.		at breast height (DBH), regardless of height.  Sapling/shrub - Woody plants less than 3 in. DBH
)		and greater than 3.28 ft (1 m) tall.
10.		Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
2		Woody vines - All woody vines greater than 3.28 ft in
	= Total Cover	height.
Woody Vine Stratum (Plot size: 30'	)	
I		0.0
2		Community Type: Row Crop
3		Hydrophytic
4		Vegetation   Present?   Yes No
	= Total Cover	Treesing to A
Remarks: (Include photo numbers here or on a	a separate sheet.)	
Photo#	Direction of Photo Nor th	

rofile Descri	ption: (Describe to	the death no	anded to docume	ent the indicator of	confirm th	ne absence of indic	Sampling Poin	
Depth	Matrix	the deput ne		dox Features	001111111111111111111111111111111111111			
inches)	Color (moist)	%	Color (moist)	% Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks	
0-8 8-16	104R4/z 104R5/4	100		VACAMATANA STATE OF THE ST		<u></u>		produced and additional
ydric Soil In  Histosol Histic Ep Black Hi Hydroge Stratified Depleted Thick Da Sandy M Sandy G Sandy G Sandy G Stripped	(A1) pipedon (A2)	(A11)	Polyvalue E MLRA 149 Thin Dark S Loamy Muc Loamy Gle Depleted M Redox Darl Depleted D	Below Surface (S8) ( B) Surface (S9) (LRR R cky Mineral (F1) (LR) yed Matrix (F2)	LRR R, , MLRA 149	Indicators for 2 cm Muc Coast Pra B) 5 cm Muc Dark Surfa Polyvalue Thin Dark Iron-Mang Piedmont Mesic Spo Red Pare Very Shal	PL=Pore Lining, M=l or Problematic Hydr k (A10) (LRR K, L, ML irie Redox (A16) (LRR ky Peat or Peat (S3) (I ace (S7) (LRR K, L, M Below Surface (S8) (LRR K, ganese Masses (F12) (Floodplain Soils (F19) odic (TA6) (MLRA 144 nt Material (TF2) llow Dark Surface (TF1 plain in Remarks)	ic Soils <sup>3</sup> : .RA 149B) R K, L, R) LRR K, L, R) I) .RR K, L) L) (LRR K, L, R (MLRA 149 A, 145, 149B
estrictive La	ydrophytic vegetation	and wetland h	ydrology must be	present, unless distu	urbed or prob	olematic.		
Type:	74070	0				Hydric Soil Proc	ent? Yes	No X
Depth (inch emarks:	es):					Tryunc Son Fres		

Project/Site: NWC Route 5 & Route 77	_Town/County: <u>Pembroke/Genesee C</u>	ounty Sampling Date:	8-24-2022
Applicant/Owner: Geis Construction	State:_ New Yo	ork	Sampling Point:
Investigator(s): Scott Livingstone & Tor	n Somerville Sect	on, Township, Range: <u>151</u>	· · ·
Landform (hillslope, terrace, etc.):	PRESS / Class relief (concerve or	DIVOY DODO): CONCA	3V/ 5 Slone (8/1): 3
Subregion (LRR or MLRA) LRRL La			
Soil Map Unit Name: COLLAN		Long:	Datum: NAD83
		/	
Are climatic / hydrologic conditions on the	e site typical for this time of year? Yes	No (If no, exp	plain in Remarks.)
Are Vegetation, Soil, or H	/drology significantly disturbed?	Are "Normal C	ircumstances" present? Yes X No
Are Vegetation, Soil, or I	lydrology naturally problematic	? (If needed, explain any ans	wers in Remarks.)
SUMMARY OF FINDINGS: Attach sit			
Hydrophytic Vegetation Present?		Is the Sampled Area	
Hydric Soil Present?	Yes No	within a Wetland?	Yes_X No
Wetland Hydrology Present?	Yes No		1 11
Remarks: (Explain alternative procedu	Yes No No	If yes, optional Wetland Site I	D: <u>W / / </u>
·W11-1-> W11-	11 (CLOSED)		
O DITCH FLOO	15 THROUGH	NORTH S	1200
HYDROLOGY		e the entropy of	
Wetland Hydrology Indicators:		Se	condary Indicators (minimum of two required)
Primary Indicators (minimum of one is	equired; check all that apply)		Surface Soil Cracks (B6)
Surface Water (A1)	★ Water-Stained Leaves	(B9)	Orainage Patterns (B10)
High Water Table (A2)	Aquatic Fauna (B13)		Moss Trim Lines (B16)
Saturation (A3)	Marl Deposits (B15)	[	Dry-Season W ater Table (C2)
Water Marks (B1)	Hydrogen Sulfide Odor		Crayfish Burrows (C8)
Sediment Deposits (B2) Drift Deposits (B3)	Oxidized Rhizosphere		Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Presence of Reduced I		Stunted or Stressed Plants (D1)
Iron Deposits (B5)	Recent Iron Reduction		Geomorphic Position (D2)
Inundation Visible on Aerial Image	Thin Muck Surface (C7 ery (B7) Other (Explain in Rem		Shallow Aquitard (D3) Microtopographic Relief (D4)
Sparsely Vegetated Concave Sur		The state of the s	FAC-Neutral Test (D5)
Field Observations:	The same of the sa		, , , , , , , , , , , , , , , , , , ,
Surface Water Present? Yes	No X Depth (inches): N	A	
Water Table Present? Yes	( A )	1/A	
Saturation Present? Yes	~	Wetland Hydrol	ogy Present? Yes X No
(includes capillary fringe) Describe Recorded Data (stream gauge	monitoring well serial photos previo		
Describe Neserada Data (Stream gauge	, mornoring well, aerial photos, previo	us inspections), il available.	
Remarks:			y with the same of

VEGETATION:	Use	scientific	names	of plants
	-			

Tree Stratum (Plot size:)	Absolute Dominant Indicator % Cover Species? Status	Dominance Test worksheet:  Number of Dominant Species That Are OBL, FACW, or FAC: (A)
		Total Number of Dominant Species Across All Strata:  (B)
		Percent of Dominant Species That Are OBL, FACW, or FAC:  (A/B)
		Prevalence Index worksheet:
	= Total Cover	
		FACW species x 2 =
apling/Shrub Stratum (Plot size: 15'	) V Fac.	FAC species x 3 =
Solix disodor		FACU species x 4 =
Francis pennsylvanica	10 N MEN	UPL species x 5 =
		Column Totals: (A) (B)
		Prevalence Index = B/A =
		Hydrophytic Vegetation Indicators:
		X 1 - Rapid Test for Hydrophytic Vegetation
	75 = Total Cover	2 - Dominance Test is >50%
	= Total Cover	3 - Prevalence Index is < 3.01
Herb Stratum (Plot size: 5' )  Aurostiv Stolonifera	25 Y FACW	4 - Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)
Expatorium perfoliatum		Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
3. Lythrum Salicaria		Indicators of hydric soil and wetland hydrology must
4. Solidago gigantea	14 N FACW	be present, unless disturbed or problematic.
5. Surpus cyperinus	10 1. 000	Definitions of Vegetation Strata:
6. Symphystrichum Dunicem	o N Man	Tree - Woody plants 3 in. (7.6 cm) or more in diameter
. Symphys trichum lateriflorum		at breast height (DBH), regardless of height.
B. Solidago ryosa B. Junus tenuis	3 N FAC	Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
10		Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
11 12		Woody vines - All woody vines greater than 3.28 ft in
12.	98 = Total Cover	height.
Woody Vine Stratum (Plot size: 30' )		
1		Community Type: Scho-Shalb Same
2		St 20
3		Vegetation
4	= Total Cover	Present? Yes X No
Remarks: (Include photo numbers here or on a separa	te sheet.)	
Photo#_P37 Dire	ection of Photo_West	•
		1
	westland h	(11

Depti Matrix Redox Features Color (molst) % Tyce Loc Texture Remarks  O - 7 7.5 / R 3 / 9 5 7.5 / R 3 / 2 5 C	101110 2000	ription: (Describe to	the depth	needed to docume	nt the inc	licator or	confirm th	e absence of inc	dicators.)	
Prope: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.    Coation: PL=Pore Lining, M=Matrix   Plant										
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.  *Location: PL=Pore Lining, M=Matrix ydric Soil Indicators:    Histosol (A1)	inches)	Color (moist)	%	Color (moist)	%	Type	Loc	Texture	Remarks	
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.    Coation: PL=Pore Lining, M=Matrix   Coation: P	-	10071		- 01	-					
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.    Coation: PL=Pore Lining, M=Matrix   Cost Indicators for Problematic Hydric Soil Prairie Redox (A16) (LRR K, L, MLRA 149B)   Coast Prairie Redox (A16) (LRR K, L, MLRA 149B)   Coast Prairie Redox (A16) (LRR K, L, MLRA 149B)   Coast Prairie Redox (A16) (LRR K, L)   Coast Prairie Redox (A16) (LRR K, L)   Coast Prairie Redox (A16) (LRR K, L)   Coast Surface (S0) (LRR L)   Coast Surface (S0) (LRR K,	3-1	7.57R3/1	95	1.54 PS/3	05	C	M	9,1		
Vpe: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.    A	7-11-	1.54R5/2	75	7 54R51	25	C	M	510		
Histosol (A1) Histosol (A2) Black Histic Epipedon (A2) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Redox (S5) Stripped Matrix (S4) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B)  Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B)  Depleted Dark Surface (A12) Sandy Redox (A15) Stripped Matrix (S6) Dark Surface (A15) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B)  Medicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  Histosol (A1)  Polyvalue Below Surface (S8) (LRR R, Coast Prairie Redox (A16) (LRR K, L, MLRA 149B)  Dark Surface (S7) (LRR R, L) Dark Surface (S9) (LRR K, L) Dark Surface (F6) Depleted Matrix (F2) Depleted Dark Surface (F6) Iron-Manganese Masses (F12) (LRR R, E12) Piedmont Floodplain Soils (F19) (ML Mesic Spoid (TA6) (MLRA 144A, 144	10	1171110	-	1.01.16						
Histosol (A1) Histosol (A2) Black Histic Epipedon (A2) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Redox (S5) Stripped Matrix (S4) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B)  Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B)  Depleted Dark Surface (A12) Sandy Redox (A15) Stripped Matrix (S6) Dark Surface (A15) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B)  Medicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  Histosol (A1)  Polyvalue Below Surface (S8) (LRR R, Coast Prairie Redox (A16) (LRR K, L, MLRA 149B)  Dark Surface (S7) (LRR R, L) Dark Surface (S9) (LRR K, L) Dark Surface (F6) Depleted Matrix (F2) Depleted Dark Surface (F6) Iron-Manganese Masses (F12) (LRR R, E12) Piedmont Floodplain Soils (F19) (ML Mesic Spoid (TA6) (MLRA 144A, 144			-	The state of the s	was retirented	SECTION PROPERTY.		RATE OF THE PARTY		ORDER PRO
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Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B)  Stratified Layers (A5)  Depleted Below Dark Surface (A12) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B)  MLRA 149B) Thin Dark Surface (S9) (LRR R, M) Dark Surface (S7) (LRR K, L) Depleted Matrix (F2) Depleted Matrix (F3) Redox Dark Surface (F6) Depleted Dark Surface (F7) Redox Depressions (F8) Redox Depressions (F8)  MLRA 149B)  Coast Prairie Redox (A16) (LRR K, L) Dark Surface (S7) (LRR K, L) Dark Surface (S7) (LRR K, L) Mosic Spodic (TA6) (MLRA 144A, 14 Red Parent Material (TF2) Very Shallow Dark Surface (TF12) Other (Explain in Remarks)  Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  Popth (inches):  Type:  Depth (inches):  No								Indicators	for Problematic Hydric Soil	ls³:
Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Redox (S5) Stripped Matrix (S4) Stratified Layers (A5) Depleted Dark Surface (F6) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, L) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) Stripped Matrix (S6) Stripped Matrix (S6) Dark Surface (S7) Stripped Matrix (S6) Stripped Matrix (S6) Dark Surface (S7) Stripped Matrix (S6) Stripped Matrix (S6) Dark Surface (S7) Stripped Matrix (S6) Stripped Matrix (S6) Dark Surface (S7) Stripped Matrix (S6) Stripped Matrix (S6) Stripped Matrix (S6) Dark Surface (S7) Stripped Matrix (S6) Stripped Ma	Ulatons	1 (41)		Dehuselus Br	alou Curfo	00 (90) (1	DD D	2 cm Mi	ICK (A10) (I DR K I MIRA 14	19R)
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Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B)  Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  Sestrictive Layer (If observed): Type: Depth (inches): Hydric Soil Present? Yes No								Piedmor	nt Floodplain Soils (F19) (MLR	A 149
Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B)  Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  Sestrictive Layer (If observed): Type: Depth (inches): Hydric Soil Present? Yes No.	Sandy	Gleyed Matrix (S4)		Redox Depre	essions (F	8)				, 149
Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  estrictive Layer (If observed):  Type:	Strippe	d Matrix (S6)						Very Sh	allow Dark Surface (TF12)	
estrictive Layer (if observed):  Type: No N E  Depth (inches): //P  Hydric Soil Present? Yes No	Dark S	urface (S7) (LRR R, MI	LRA 149B)					Other (E	xplain in Remarks)	
Depth (inches): No.										
Depth (inches): No										
Type:NoNE  Depth (inches):No			and wetland	hydrology must be p	resent, un	less distur	bed or probl	ematic.		
Depth (inches): Hydric Soil Present? Yes No			-							
	Type:	NONE	-	-						
emarks:	Depth (inc	hes):///	M					Hydric Soil Pre	sent? Yes No_	
	emarks:		***************************************	V-V						

pplicant/Owner: Geis Constru	oute // Town/Count	tv: Pembroke/Genesee C	County Sam	pling Date: 8.24, 2022
	otion	State: New Yo	ork	Sampling Point: <u>03</u> 7
		-		
nvestigator(s): Scott Livingston	e & Tom Somerville	Sect	tion, Township,	COALVEX 21 (V)
				CON VEX Slope (%):
ubregion (LRR or MLRA) <u>LRR</u>	Lat:		Long:	Datum: NAD83
oil Map Unit Name: LAM	SON VER	Y FINE SA	andy r	Datum: NAD83  Datum: NAD83
re climatic / hydrologic conditio	ns on the site typical	for this time of year? Yes	s X No_	(If no, explain in Remarks.)
re Vegetation, Soil				Are "Normal Circumstances" present? Yes No
				explain any answers in Remarks.)
UMMARY OF FINDINGS : Att	tach site map show	ring sampling point loca	ations, transec	ets, important features, etc.
Hydrophytic Vegetation Preser	nt? Yes	No	Is the Sampl	led Area
Hydric Soil Present?	Yes	No X	within a We	tland? Yes No
Wetland Hydrology Present?		~	If ves. option	nal Wetland Site ID:
Remarks: (Explain alternative			1 7 1 1	
YDROLOGY				
Wetland Hydrology Indicator	rs:			Secondary Indicators (minimum of two required)
Primary Indicators (minimum o	f one is required; che	eck all that apply)		Surface Soil Cracks (B6)
Surface Water (A1)		Water-Stained Leave	s (B9)	Drainage Patterns (B10)
High Water Table (A2)		Aquatic Fauna (B13)		Moss Trim Lines (B16)
Saturation (A3)		Marl Deposits (B15)		Dry-Season W ater Table (C2)
Water Marks (B1)		Hydrogen Sulfide Od		Crayfish Burrows (C8)
Sediment Deposits (B2)		Oxidized Rhizospher		toots (C3) Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3)		Presence of Reduce		Stunted or Stressed Plants (D1)  Geomorphic Position (D2)
Algal Mat or Crust (B4)		Recent Iron Reduction		
Iron Deposits (B5)		Thin Muck Surface (0		<ul><li>Shallow Aquitard (D3)</li><li>Microtopographic Relief (D4)</li></ul>
Inundation Visible on Aer		Other (Explain in Re	emarks)	FAC-Neutral Test (D5)
Sparsely Vegetated Cond	ave Sunace (B8)			
	V N- 1	M Donth (inches): A	1/A	
	Yes No	Depth (inches):	NIA	
	Yes No	Depth (inches):	MA	Wetland Hydrology Present? Yes No
(includes capillary fringe)				
Describe Recorded Data (stream	am gauge, monitorin	g well, aerial photos, pre-	vious inspection	ns), if available:
Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (stream	Yes No Yes No Yes No	Depth (inches): Depth (inches): Depth (inches): g well, aerial photos, previous		Wetland Hydrology Present? Yes No

Absolute Dominant Indicator	Dominance Test worksheet:
ree Stratum (Plot size: 30' ) % Cover Species? Status	Number of Dominant Species That Are OBL, FACW, or FAC:  (A)
	Total Number of Dominant Species Across All Strata: (B)
	Percent of Dominant Species That Are OBL, FACW, or FAC:(A/B)
	Prevalence Index worksheet:
	Total % Cover of: Multiply by:
= Total Cover	OBL species x 1 =
	FACW species x 2 =
apling/Shrub Stratum (Plot size: 15')	FAC species x 3 =
	FACU species x 4 =
	UPL species x 5 =
	Column Totals: (A) (B)
	Prevalence Index = B/A = N/A
	Hydrophytic Vegetation Indicators:
	1 - Rapid Test for Hydrophytic Vegetation
- Tatal Cover	2 - Dominance Test is >50%
= Total Cover	3 - Prevalence Index is < 3.01
lerb Stratum (Plot size: 5' )  Zea 100 Y NF	4 - Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)
	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
	_
	Indicators of hydric soil and wetland hydrology must
	be present, unless disturbed or problematic.
5.	Definitions of Vegetation Strata:
3	Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
3	Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
9	
10.	Herb - All herbaceous (non-woody) plants, regardless
11	of size, and woody plants less than 3.28 ft tall.
12	Woody vines - All woody vines greater than 3.28 ft in
IW = Total Cover	height.
Woody Vine Stratum (Plot size:30')	
1	0
2	Community Type: Ru Cmp
3	Hydrophytic
4	Vegetation
= Total Cover	Present? Yes No X
Remarks: (Include photo numbers here or on a separate sheet.)	
Photo # 938 Direction of Photo North	_
-com freed	¥ .

Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox	Remarks
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.  2 Location: PL=Pore ydric Soil Indicators:  Indicators for Problem  Histosoi (A1)  Histic Epipedon (A2)  Black Histic (A3)  Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LR R)  MLRA 149B)  Coast Prairie Redox Thin Dark Surface (S9) (LRR R, MLRA 149B)  5 cm Mucky Peat or	
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.  2 Location: PL=Pore ydric Soil Indicators:  Indicators for Problem  Histosoi (A1)  Histic Epipedon (A2)  Black Histic (A3)  Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LR R)  MLRA 149B)  Coast Prairie Redox Thin Dark Surface (S9) (LRR R, MLRA 149B)  5 cm Mucky Peat or	
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.  2 Location: PL=Pore Indicators: Indicators for Problem  Histosol (A1)	
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.  2 Location: PL=Pore Indicators: Indicators for Problem  Histosol (A1)	
## dric Soil Indicators:  ## Histosol (A1)  ## Histic Epipedon (A2)  ## Black Histic (A3)  ## Dark Surface (S8) (LRR R, 2 cm Muck (A10) (LFR R, 400x 400x 400x 400x 400x 400x 400x 400	
/dric Soil Indicators:  Histosol (A1)	
Histosol (A1)         Polyvalue Below Surface (S8) (LRR R, Histic Epipedon (A2)         2 cm Muck (A10) (LFR R, Coast Prairie Redox           Black Histic (A3)         Thin Dark Surface (S9) (LRR R, MLRA 149B)         5 cm Mucky Peat or	
Indicators         Indicators for Problem           Histosol (A1)         Polyvalue Below Surface (S8) (LRR R, LSP)         2 cm Muck (A10) (LF Coast Prairie Redox Coast Prairie Redox Thin Dark Surface (S9) (LRR R, MLRA 149B)         5 cm Mucky Peat or Surface (S9) (LRR R, MLRA 149B)	
Histosol (A1)         Polyvalue Below Surface (S8) (LRR R, Histic Epipedon (A2)         2 cm Muck (A10) (LFR R, Coast Prairie Redox Thin Dark Surface (S9) (LRR R, MLRA 149B)         5 cm Mucky Peat or	
Histosol (A1)         Polyvalue Below Surface (S8) (LRR R, Histic Epipedon (A2)         2 cm Muck (A10) (LFR R, Coast Prairie Redox Thin Dark Surface (S9) (LRR R, MLRA 149B)         5 cm Mucky Peat or	A Linear Parket
Histosol (A1)         Polyvalue Below Surface (S8) (LRR R, Histic Epipedon (A2)         2 cm Muck (A10) (LFR R, Coast Prairie Redox Thin Dark Surface (S9) (LRR R, MLRA 149B)         5 cm Mucky Peat or	and the last of th
Histosol (A1)         Polyvalue Below Surface (S8) (LRR R, Histic Epipedon (A2)         2 cm Muck (A10) (LFR R, Coast Prairie Redox Thin Dark Surface (S9) (LRR R, MLRA 149B)         5 cm Mucky Peat or	a Links at Adam.
dric Soil Indicators:  Histosol (A1) Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LFR R, Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox Thin Dark Surface (S9) (LRR R, MLRA 149B) 5 cm Mucky Peat or	e Lining, M=Matrix.
Histic Epipedon (A2)  Black Histic (A3)  MLRA 149B)  Coast Prairie Redox Thin Dark Surface (S9) (LRR R, MLRA 149B)  5 cm Mucky Peat or	ematic Hydric Soils <sup>3</sup> :
Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) 5 cm Mucky Peat or	LRR K, L, MLRA 149B)
Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (LRR K. L) Dark Surface (S7) (L	or Peat (S3) (LRR K, L, R
Stratified Lavers (A5) Loamy Gleved Matrix (F2) Polyvalue Below Sur	urface (S8) (LRR K, L)
Depleted Below Dark Surface (A11)  Depleted Matrix (F3)  Thin Dark Surface (S	(S9) (LRR K, L) asses (F12) (LRR K, L, I
Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Piedmont Floodplain	in Soils (F19) (MLRA 149
Sandy Redox (S5) Red Parent Material	al (TF2)
Stripped Matrix (S6) Very Shallow Dark S  Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Re	Surface (TF12) emarks)
ndicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.	
strictive Layer (if observed):	And the second of the second o
Type: NONE	
Depth (inches): Hydric Soil Present? Ye	~
	/es No_X
marks:	res No X

Subregion (LRR or MLRA) Soil Map Unit Name:  Are climatic / hydrologic condare Vegetation, Soil Are Vegetation, Soil	LRRR La  Arrey Si  ditions on th  X, or Hy  , or H	at:    Dar e site typical rdrology	for this time of year? significantly disturt naturally probler	Long:	Datum: NAD83  NW I classification:  (If no, explain in Remarks.)  Are "Normal Circumstances" present? Yes X No d, explain any answers in Remarks.)
Hydrophytic Vegetation Pre Hydric Soil Present? Wetland Hydrology Present Remarks: (Explain alternat	esent?	Yes Yes Yes	No X No X	Is the Samp	
HYDROLOGY  Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required; check the color of			eck all that apply)  Water-Stained Leaves (B9)  Aquatic Fauna (B13)  Marl Deposits (B15)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheres on Living Roots Presence of Reduced Iron (C4)  Recent Iron Reduction in Tilled Soils (C6)  Thin Muck Surface (C7)		Stunted or Stressed Plants (D1)
Sparsely Vegetated Co Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (str	Yes Yes Yes	No X No X No X	_ Other (Explain in I		Microtopographic Relief (D4) FAC-Neutral Test (D5)  Wetland Hydrology Present? Yes No
Remarks:					

Tree Stratum (Plot size: 30')	Absolute Dominant Indicator <u>% Cover Species? Status</u>	Dominance Test worksheet:
		Number of Dominant Species
		That Are OBL, FACW, or FAC:(A)
2		Total Number of Dominant
3		Species Across All Strata: (B)
4		Percent of Dominant Species
5		That Are OBL, FACW, or FAC: (A/B)
S		Prevalence Index worksheet:
•		Total % Cover of: Multiply by:
	= Total Cover	OBL species x 1 =
Canling/Chr. h Stratum (Diet size: 45'		FACW species x 2 =
Sapling/Shrub Stratum (Plot size:)		FAC species x 3 =
MA		FACU species x 4 =
•		UPL species x 5 =
		Column Totals: (A) (B)
		Prevalence Index = B/A =
		Hydrophytic Vegetation Indicators:
		1 - Rapid Test for Hydrophytic Vegetation
		2 - Dominance Test is >50%
	= Total Cover	3 - Prevalence Index is < 3.01
erb Stratum (Plot size: 5' )		4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
		Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
		Indicators of hydric soil and wetland hydrology must
		be present, unless disturbed or problematic.
		Definitions of Vegetation Strata:
		Tree - Woody plants 3 in. (7.6 cm) or more in diameter
		at breast height (DBH), regardless of height.
		Sapling/shrub - Woody plants less than 3 in. DBH
		and greater than 3.28 ft (1 m) tall.
).		Herb - All herbaceous (non-woody) plants, regardless
		of size, and woody plants less than 3.28 ft tall.
		Woody vines - All woody vines greater than 3.28 ft in
2		height.
and the second of the second o	= Total Cover	
oody Vine Stratum (Plot size: 30')		
		0 011
		Community Type: Carn field
		Hydrophytic
		Vegetation
		Present? Yes No X
emarks: (Include photo numbers here or on a separate sh	= Total Cover	
	on of Photo Fast	
-only corn Shibbl	, no other veg	
TOUR STUDIES	1	
- only w	,	

Project Code: W29108c Sampling Point: D-A SOIL Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Redox Features (inches) Color (moist) Color (moist) Remarks IW Silloam 104R 6/8 100 <sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup>Location: PL=Pore Lining, M=Matrix. **Hydric Soil Indicators:** Indicators for Problematic Hydric Soils3: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) Loamy Mucky Mineral (F1) (LRR K, L) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) Dark Surface (S7) (LRR K, L, M) Stratified Layers (A5)
Depleted Below Dark Surface (A11) Loamy Gleyed Matrix (F2) Polyvalue Below Surface (S8) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Depleted Matrix (F3) Thick Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, R) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (TF2) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) <sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes Remarks:

Project Code: W29I08c

### WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Subregion (LRR or MLRA) LRRR Soil Map Unit Name: Collans  Are climatic / hydrologic conditions	Lat:	2-6'l's Slaper r this time of year? Ye significantly disturbed	Long: No (If or "No Are "No No (If or "No No	mal Circumstances" present? Yes	AD83
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Remarks: (Explain alternative pro	h site map showing Yes Yes Yes	g sampling point loc  No X  No X  No X	Is the Sampled Area within a Wetland?		
VDROLOGY  Wetland Hydrology Indicators:  Primary Indicators (minimum of or  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial I	ne is required; check	Water-Stained Leave Aquatic Fauna (B13) Marl Deposits (B15) Hydrogen Sulfide Od Oxidized Rhizosphe Presence of Reduce	or (C1) res on Living Roots (C3) d Iron (C4) on in Tilled Soils (C6) C7)	Secondary Indicators (minimum Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season W ater Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial II Stunted or Stressed Plants (II Geomorphic Position (D2) Shallow Aquitard (D3) Microtopographic Relief (D4)	2) Imagery (C9) D1)
Sparsely Vegetated Concave Field Observations: Surface Water Present?  Vater Table Present?	es No _X_ es No _X_ es No _X_	Depth (inches): Depth (inches):	Wetland	FAC-Neutral Test (D5)  Hydrology Present? Yes	
Remarks:					

Tree Stratum (Plot size: 30'	Absolute Dominant Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:30')  1	% Cover Species? Status	Number of Dominant Species That Are OBL, FACW, or FAC:O(A)
2		Total Number of Dominant Species Across All Strata:O (B)
4 5		Percent of Dominant Species That Are OBL, FACW, or FAC:(A/B)
3		Prevalence Index worksheet:
·		Total % Cover of: Multiply by:
	= Total Cover	OBL species x 1 =
apling/Shrub Stratum (Plot size: 15'	)	FACW species x 2 =
NA		FAC species x 3 =
		FACU species x 4 =
		UPL species x 5 =
The second secon		Column Totals: (A) (B)
•		Prevalence Index = B/A =
		Hydrophytic Vegetation Indicators:
		1 - Rapid Test for Hydrophytic Vegetation
		2 - Dominance Test is >50%
	= Total Cover	3 - Prevalence Index is < 3.01
lerb Stratum (Plot size: 5' )		4 - Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)
		Problematic Hydrophytic Vegetation¹ (Explain)
		Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
		Definitions of Vegetation Strata:
•		Tree - Woody plants 3 in. (7.6 cm) or more in diameter
		at breast height (DBH), regardless of height.
		Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
0		Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
1,		
2		Woody vines - All woody vines greater than 3.28 ft in height.
( - 1 ) ( - 2 ) - 1 - 2 ) · - 2 )	= Total Cover	
/oody Vine Stratum (Plot size:30')		
		Community Type: Corn Field
		Hydrophytic Vegetation
en de la companya de		Present? Yes No X
	= Total Cover	
emarks: (Include photo numbers here or on a separate		
Photo # P-B Direct	ion of Photo Northeas +	
- (xn <+	lubble, no other veg.	•
O		

Project Code: W29108c

iches)	Color (moist)	%	Redox Features Color (moist) % Type¹ Lo	c <sup>2</sup> Texture	Remarks
7"	10484/2	100		sittom	
120	10425/8	100		SHlam	
	- 101=318			≥ d fester	gravelly
	ncentration, D=Depl	etion, RM=R	educed Matrix, CS=Covered or Coated San		cation: PL=Pore Lining, M=Matrix. tors for Problematic Hydric Soils³:
Black H Hydroge Stratifie Deplete Thick D Sandy M Sandy F Stripped	pipedon (A2) istic (A3) en Sulfide (A4) d Layers (A5) d Below Dark Surface ark Surface (A12) Mucky Mineral (S1) Bleyed Matrix (S4) Redox (S5) If Matrix (S6) Irface (S7) (LRR R, M		Polyvalue Below Surface (S8) (LRR F MLRA 149B) Thin Dark Surface (S9) (LRR R, MLR Loamy Mucky Mineral (F1) (LRR K, L Loamy Gleyed Matrix (F2) Depleted Matrix (F3) Redox Dark Surface (F6) Depleted Dark Surface (F7) Redox Depressions (F8)	Co	m Muck (A10) (LRR K, L, MLRA 149B) ast Prairie Redox (A16) (LRR K, L, R) m Mucky Peat or Peat (S3) (LRR K, L, R) rk Surface (S7) (LRR K, L, M) lyvalue Below Surface (S8) (LRR K, L) n Dark Surface (S9) (LRR K, L) n-Manganese Masses (F12) (LRR K, L, R) dmont Floodplain Soils (F19) (MLRA 149B sic Spodic (TA6) (MLRA 144A, 145, 149B d Parent Material (TF2) ry Shallow Dark Surface (TF12) her (Explain in Remarks)
dicators of h	ydrophytic vegetation	n and wetland	hydrology must be present, unless disturbed of	r problematic.	
	yer (if observed):				
ype:					<b>\</b>
Depth (inch	es): NA		_	Hydric Soi	Present? Yes No

### WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Soil Map Unit Name:	Lat:  the site typical for Hydrology  r Hydrology  site map showin	2-6 1. 3 por this time of year? Ye significantly disturbed naturally problemating sampling point local	Long:  S No (If  Are "No  ic? (If needed, explain a  ations, transects, impo	Datum: NAD83  NW I classification: no, explain in Remarks.)  ormal Circumstances" present? Yes ny answers in Remarks.)  rtant features, etc.	
Hydric Soil Present?	Yes	NoX	within a Wetland?	Yes No X	
Wetland Hydrology Present?	Yes		If ves. optional Wetlan	d Site ID:	
HYDROLOGY  Wetland Hydrology Indicators:				Secondary Indicators (minimum of the	WO required
Primary Indicators (minimum of one	is required; check	all that annly)			wo required
Surface Water (A1)			/DO)	Surface Soil Cracks (B6)	
High Water Table (A2)		Water-Stained Leaves Aquatic Fauna (B13)	s (B9)	<ul><li>Drainage Patterns (B10)</li><li>Moss Trim Lines (B16)</li></ul>	
Saturation (A3)		Marl Deposits (B15)		Dry-Season W ater Table (C2)	
Water Marks (B1)		Hydrogen Sulfide Odd	or (C1)	Crayfish Burrows (C8)	
Sediment Deposits (B2)			es on Living Roots (C3)		ery (C9)
Drift Deposits (B3)		Presence of Reduced		Stunted or Stressed Plants (D1)	
Algal Mat or Crust (B4)	_	Recent Iron Reductio	n in Tilled Soils (C6)	Geomorphic Position (D2)	
Iron Deposits (B5)		Thin Muck Surface (C		Shallow Aquitard (D3)	
Inundation Visible on Aerial Ima		Other (Explain in Re	marks)	Microtopographic Relief (D4)	
Sparsely Vegetated Concave S	urface (B8)			FAC-Neutral Test (D5)	
Field Observations: Surface Water Present? Yes	V	Donald Control			
		Depth (inches):			
		Depth (inches):		Hydrology Present? Yes No	1
(includes capillary fringe)					
Describe Recorded Data (stream gain	ige, monitoring w	ell, aerial photos, previ	ious inspections), if avail	able:	
Remarks:				No.	

**VEGETATION**: Use scientific names of plants.

Sampling Point: DC

	Absolute Dominant Indicator % Cover Species? Status	Dominance Test worksheet:
<u>Free Stratum</u> (Plot size:30')		Number of Dominant Species That Are OBL, FACW, or FAC: (A)
·		Total Number of Dominant Species Across All Strata:
-		Percent of Dominant Species That Are OBL, FACW , or FAC: (A/B)
		Prevalence Index worksheet:
		Total % Cover of: Multiply by:
	= Total Cover	OBL species x 1 =
pling/Shrub Stratum (Plot size: 15' )		FACW species x 2 =
NA		FAC species x 3 =
		FACU species x 4 =
		UPL species x 5 =
		Column Totals: (A) (B)
		Prevalence Index = B/A =
		Hydrophytic Vegetation Indicators:
		1 - Rapid Test for Hydrophytic Vegetation
		2 - Dominance Test is >50%
	= Total Cover	3 - Prevalence Index is < 3.01
N K		4 - Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)
		Problematic Hydrophytic Vegetation¹ (Explain)
HILLIAN CONTRACTOR OF THE CONT		
		Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
		make the mount of the second control of the
		Definitions of Vegetation Strata:
		Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
		Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
		Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
		Woody vines - All woody vines greater than 3.28 ft in height.
Day to the state of the state o	= Total Cover	neight.
ody Vine Stratum (Plot size: 30' )		Carlo In Committee of the Carlo Inc.
***************************************		Community Type: Carn Feld
		Community Type. Carr. Lore
		Hydrophytic
		Hydrophytic Vegetation Present? Yes NoX

Project Code: W29108c

ofile Desc	ription: (Describe to	the denth	needed to documen	t the indicator or	confirm the a	bsence of indicators	3.)	
epth	Matrix	the depth i			commit the a	bachec of maloutors	,	
nches)	Color (moist)	%	Color (moist)	x Features  % Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remar	rks
			outer (molecy	70 1700		. 1	, , ,	
0-10	1048412	lod				Hloun	nomination of the	
0-20	7.5 YF516	100			51	ty day loan		
	ncentration, D=Deple	tion, RM=Re	educed Matrix, CS=0	Covered or Coated	Sand Grains.	<sup>2</sup> Location: PL=F		
Black H Hydrog Stratifie Deplete Thick D Sandy Sandy Sandy Strippe	of (A1) Epipedon (A2) Histic (A3) en Sulfide (A4) Histic (A5) Ed Layers (A5) Histic Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) Ind Matrix (S6) Unface (S7) (LRR R, Mineral Redox (S7)		MLRA 149B) Thin Dark Su Loamy Mucky Loamy Gleye Depleted Mat Redox Dark S	rface (S9) (LRR R, / Mineral (F1) (LRF d Matrix (F2) rix (F3) Surface (F6) k Surface (F7)	MLRA 149B)	Dark Surface (S Polyvalue Below Thin Dark Surfa Iron-Manganese Piedmont Flood	edox (A16) (I at or Peat (S 7) (LRR K, I v Surface (St ce (S9) (LRF e Masses (F1 plain Soils (F A6) (MLRA erial (TF2)	LRR K, L, R) 3) (LRR K, L, R) -, M) 8) (LRR K, L) R K, L) 12) (LRR K, L, R) -19) (MLRA 149B) 144A, 145, 149B)
dicators of	hydrophytic vegetation	and wetland	hydrology must be pr	esent, unless distu	bed or problema	atic.		
	ayer (if observed):		.,					
Type:								
	nes): NA				н	ydric Soil Present?	Yes	No.X
marks:	les). 10 11		•					

### WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Investigator(s): Scott Livingst Landform (hillslope, terrace, e Subregion (LRR or MLRA) _L Soil Map Unit Name:, Are climatic / hydrologic condi Are Vegetation, Soil Are Vegetation, Soil SUMMARY OF FINDINGS : A	tc.): Lake  RRR Lat:  Arwer Sitions on the  X, or Hydi	Plain  It Lan site typical for rology	naturally problems	convex, none): Long: No Yes No No d? (If needed	NV (If no Are "Norm, explain any	VI classification: o, explain in Remark nal Circumstances" p	Datum: Nonesent? Yes	AD83
Hydrophytic Vegetation Pres Hydric Soil Present? Wetland Hydrology Present? Remarks: (Explain alternation	ent?	Yes Yes	No X No X	Is the Samp	oled Area etland?	Yes		
HYDROLOGY  Wetland Hydrology Indicate Primary Indicators (minimum Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)	of one is red		Water-Stained Leav Aquatic Fauna (B13 Marl Deposits (B15 Hydrogen Sulfide O Oxidized Rhizosph Presence of Reduct Recent Iron Reduct Thin Muck Surface	o) dor (C1) eres on Living R ed Iron (C4) ion in Tilled Soil (C7)	Roots (C3)	Surface Soil Cra Drainage Patter Moss Trim Lines Dry-Season Wa Crayfish Burrow Saturation Visib Stunted or Stres Geomorphic Po	acks (B6) ns (B10) s (B16) tter Table (Ca s (C8) ele on Aerial seed Plants ( sition (D2) d (D3)	Imagery (C9) D1)
Inundation Visible on Accompany Vegetated Confield Observations:  Surface Water Present?  Water Table Present?  Saturation Present?  (includes capillary fringe)  Describe Recorded Data (street	Yes Yes	No X No X	Other (Explain in F		Wetland H	Microtopographi FAC-Neutral Te	st (D5)	
Remarks:	3301		, and a process proces					

Sampling Point: D-D VEGETATION: Use scientific names of plants. Absolute Dominant Indicator Dominance Test worksheet: Tree Stratum (Plot size: 30' ) % Cover Species? Status **Number of Dominant Species** That Are OBL, FACW, or FAC: Total Number of Dominant 3.\_\_\_\_\_ Species Across All Strata: Percent of Dominant Species 0/. \_ (A/B) That Are OBL, FACW, or FAC: 5. \_\_\_\_\_ 6. \_\_\_\_\_ Prevalence Index worksheet: Total % Cover of: Multiply by: \_\_\_\_\_ = Total Cover OBL species \_\_\_\_\_ x 1 = \_\_\_\_ Sapling/Shrub Stratum (Plot size: 15') FACW species \_\_\_\_\_ x 2 = \_\_\_\_\_ FAC species \_\_\_\_\_ x 3 = \_\_\_\_ FACU species \_\_\_\_\_ x 4 = \_\_\_\_ UPL species \_\_\_\_\_ x 5 = \_\_\_\_ Column Totals: \_\_\_\_\_ (A) \_\_\_\_ (B) Prevalence Index = B/A = 5. \_\_\_\_\_\_ 6. \_\_\_\_\_ Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation \_\_ 2 - Dominance Test is >50% \_\_\_\_ = Total Cover 3 - Prevalence Index is < 3.01 Herb Stratum (Plot size: 5' ) \_\_\_ 4 - Morphological Adaptations (Provide supporting 1. NIA data in Remarks or on a separate sheet) 2.\_\_\_\_\_ Problematic Hydrophytic Vegetation<sup>1</sup> (Explain) Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. 5.\_\_\_\_ **Definitions of Vegetation Strata:** 6.\_\_\_\_\_ Tree - Woody plants 3 in. (7.6 cm) or more in diameter 7.\_\_\_\_\_ at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall. 9.\_\_\_\_\_ 10. \_\_\_\_\_ Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Water and the second se Woody vines - All woody vines greater than 3.28 ft in height. = Total Cover Woody Vine Stratum (Plot size: 30') Community Type: Corn Fill 2.\_\_\_\_ 3. Hydrophytic Vegetation Present? = Total Cover

Remarks: (Include photo numbers here or on a separate sheet.)

Photo # P-D

Direction of Photo South west

- carn Stubble, no other veg.

Project Code: W29108c

Depth	Matrix			dox Features	or confirm		
inches)	Color (moist)	%	Color (moist)	% Typ	e <sup>1</sup> Loc <sup>2</sup>	Texture	Remarks
>-8	1048412	100		was to some two two		loan	
- 20	7.54R 5/6	100				loam	
	oncentration, D=Deple	etion, RM=F	Reduced Matrix, CS	=Covered or Coa	ted Sand Gra		PL=Pore Lining, M=Matrix. or Problematic Hydric Soils <sup>3</sup> :
Black Hydrog Stratific Deplete Thick E Sandy Sandy Strippe	Epipedon (A2) Histic (A3) Hen Sulfide (A4) Hed Layers (A5) Hed Layers (A5) Hed Layers (A5) Hed Layers (A12) Hucky Mineral (S1) Hucky Mineral (S4) Hedox (S5) Hedox (S5) Hedox (S6) Hedox (S7) (LRR R, M		MLRA 149I Thin Dark S Loamy Muc Loamy Gley Depleted M Redox Dark Depleted D Redox Dep	Surface (S9) (LRR ky Mineral (F1) (I yed Matrix (F2)	R, MLRA 149	Coast Pra Coast	ik (A10) (LRR K, L, MLRA 149B) irife Redox (A16) (LRR K, L, R) iky Peat or Peat (S3) (LRR K, L, R) ace (S7) (LRR K, L, M) Below Surface (S8) (LRR K, L) Surface (S9) (LRR K, L) ganese Masses (F12) (LRR K, L, R) Floodplain Soils (F19) (MLRA 149B) odic (TA6) (MLRA 144A, 145, 149B) nt Material (TF2) low Dark Surface (TF12) plain in Remarks)
dicators of	hydrophytic vegetation	and wetlan	d hydrology must be	present, unless di	sturbed or prob	olematic.	
strictive L	ayer (if observed):						W. W.
Туре:			-			U. data Call Day	
Depth (incl	nes):		_			Hydric Soil Pres	ent? Yes No

# NWC RTE 5 & RTE 77

APPENDIX C - SITE PHOTOGRAPHS



**Photo 1:** Facing southeast. Depicts the scrub-shrub swamp community of wetland W1 at data point D1.



<u>Photo 3</u>: Facing north. Depicts the hardwood swamp community of wetland W2 at data point D3.



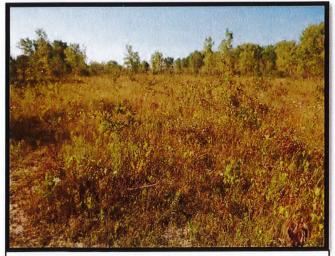
**Photo 5:** Facing northeast. Depicts the emergent marsh community of wetland W3 at data point D5.



**Photo 2:** Facing west. Depicts the successional shrubland community at data point D2.



**Photo 4:** Facing south. Depicts the successional shrubland community at data point D4.



**Photo 6:** Facing south. Depicts the successional old field community at data point D6.



**Photo 7:** Facing northeast. Depicts the hardwood swamp community of wetland W4 at data point D7.



**Photo 9:** Facing west. Depicts the hardwood swamp community of wetland W4 at data point D9.



<u>Photo 11</u>: Facing west. Depicts the scrub-shrub swamp community of wetland W5 at data point D11.



<u>**Photo 8:**</u> Facing south. Depicts the successional old field community at data point D8.



**Photo 10:** Facing east. Depicts the successional northern hardwood community at data point D10.



**Photo 12:** Facing east. Depicts the successional shrubland community at data point D12.



<u>**Photo 13:**</u> Facing south. Depicts the scrub-shrub swamp community of wetland W6 at data point D13.



<u>Photo 15</u>: Facing east. Depicts the successional old field community at data point D15.



**Photo 17:** Facing north. Depicts the successional old field community at data point D17.



**Photo 14:** Facing north. Depicts the successional shrubland community at data point D14.



<u>Photo 16</u>: Facing east. Depicts the row crop (corn) community at data point D16.



<u>Photo 18</u>: Facing north. Depicts the successional northern hardwood community at data point D18.



<u>Photo 19</u>: Facing north. Depicts the man-made ditch in the northern portion of the site.



<u>Photo 21</u>: Facing west. Depicts the successional shrubland community at data point D20.



<u>Photo 23</u>: Facing east. Depicts the successional shrubland community at data point D22.



**Photo 20:** Facing east. Depicts the scrub-shrub swamp community of wetland W6 at data point D19.



<u>Photo 22</u>: Facing west. Depicts the scrub-shrub swamp community of wetland W6 at data point D21.



<u>Photo 24</u>: Facing east. Depicts the scrub-shrub swamp community of wetland W6 at data point D23.



<u>Photo 25</u>: Facing west. Depicts the successional shrubland community at data point D24.



<u>Photo 27</u>: Facing west. Depicts the successional northern hardwood community at data point D26.



<u>Photo 29</u>: Facing south. Depicts the hardwood swamp community of wetland W7 at data point D28.



<u>Photo 26</u>: Facing east. Depicts the hardwood swamp community of wetland W8 at data point D25.



**Photo 28:** Facing west. Depicts the successional northern hardwood community at data point D27.



<u>Photo 30</u>: Facing north. Depicts the row crop (com) community at data point D29.



<u>Photo 31</u>: Facing north. Depicts the successional northern hardwood community at data point D30.



**Photo 33:** Facing east. Depicts the invasive species marsh of wetland W9 at data point D32.



**Photo 35:** Facing east. Depicts the invasive species marsh of wetland W10 at data point D34.



<u>Photo 32</u>: Facing northwest. Depicts the successional northern hardwood community at data point D31.



**Photo 34:** Facing north. Depicts the successional shrubland community at data point D33.



<u>**Photo 36:**</u> Facing north. Depicts the row crop (corn) community at data point D35.



<u>Photo 37</u>: Facing west. Depicts the scrub-shrub swamp community of wetland W11 at data point D36..



<u>Photo 38</u>: Facing north. Depicts the row crop (corn) community at data point D37.

# **NWC RTE 5 & RTE 77**

APPENDIX D - REFERENCES

# INFORMATIONAL REFERENCES USED BY EARTH DIMENSIONS INC.

- Andrus, R.E. 1980. Sphagnaceae (Peat Moss Family) of New York State. Contributions to a Flora of New York State III, R.S. Mitchell (Ed.), Bulletin No. 442, New York State Museum, Albany, New York. 89 pp.
- Benyus, J.M. 1989. The Field Guide to Wildlife Habitats of the Eastern United States. Fireside, Simon & Shuster, Inc., New York. 335 pp.
- Britton, N.L., and H.A. Brown. 1970. An Illustrated Flora of the Northern United States and Canada, Volumes 1, 2, and 3. Dover Publications, Inc., New York. 2052 pp.
- Brockman, C.F., R. Merrilees, and H.S. Zim. 1968. Trees of North America: A Field Guide to the Major Native and Introduced Species North of Mexico. Western Publishing, Inc. New York, New York. 280 pp.
- Brown, L. 1979. Grasses: An Identification Guide. Peterson Nature Library. Houghton Mifflin Co., Boston. 240 pp.
- Cobb, B. 1963. A Field Guide to the Ferns and Related Families. Houghton Mifflin Co., Boston. 281 pp.
- Cowardin, L.M., V. Carter, F.C. Golet, and E.T. Laroe. 1979. Classification of Wetlands and Deep Water Habitats of the United States. U.S. Fish and Wildlife Service, Washington, D.C. FWS/OBS-79-31. 103 pp.
- Eggers, S.D., and D.M. Reed. 1997. Wetland Plants and Plant Communities of Minnesota and Wisconsin. Second Edition. U.S. Army Corps of Engineers, St. Paul District, Minnesota. 263 pp.
- Environmental Laboratory. 1987. Corps of Engineers Wetlands Delineation Manual. Technical Report Y-87-1, U.S. Army Corps of Engineers Waterways Experiment Station, Vicksburg, Mass. 100 pp. plus appendices.
- Hotchkiss, N. 1970. Common Marsh Plants of the United States and Canada. U.S. Department of the Interior, Bureau of Sport Fisheries and Wildlife, Washington, D.C., Resource Publication 93.
- Hurley, L.M. 1990. Field Guide to the Submerged Aquatic Vegetation of Chesapeake Bay. U.S. Fish and Wildlife Service, Chesapeake Bay Estuary Program, Annapolis, Maryland. 51 pp.
- Knobel, E. 1977. Field Guide to the Grasses, Sedges, and Rushes of the United States. Dover publications, Inc., New York. 83 pp.
- Little, E.L. 1980. The Audubon Society Field Guide to North American Trees (Eastern Region). Alfred A. Knopf, New York. 714 pp.
- Magee, D.W. 1981. Freshwater Wetlands. University of Massachusetts Press, Pembroke. 245 pp.

- Mitchell, R.S., and G.C. Tucker. 1997. Revised Checklist of New York State Plants. Contributions to a Flora of New York State IV, R.S. Mitchell (Ed.). Bulletin No. 490, New York State Museum, Albany, New York. 400 pp.
- Munsell Color Chart. (Munsell Color 1975).
- National Wetland Inventory Maps. U.S. Department of the Interior, Fish and Wildlife Service, National Wetland Inventory, St. Petersburg, Florida. http://wetlandsfws.er.usgs.gov
- Niering, W.C., and N.C. Olmstead. 1979. The Audubon Society Field Guide to North American Wildflowers (Eastern Region). Alfred A. Knopf, New York. 887 pp.
- New York State Code of Rules and Regulations (NYCRR). 1989. Protected Native Plants. NYCRR Part 193.3, June, 1989. New York State Department of Environmental Conservation.
- New York Natural Heritage Program. 2002. New York Rare Plant Status List, February, 1989. S.M. Young, (Ed.), New York State Department of Environmental Conservation and The Nature Conservancy publication. 26 pp.
- New York State Department of Environmental Conservation Freshwater Wetlands Maps, NYSDEC Environmental Resource Mapper, http://www.dec.ny.gov/imsmaps/ERM/viewer.htm
- Newcomb, L. 1977. Newcomb's Wildflower Guide. Little, Brown and Co., Boston. 490 pp.
- Ogden, E.C. 1981. Field Guide to Northeastern Ferns. Contributions to a Flora of New York State III, R.S. Mitchell (Ed.), Bulletin No. 444, New York State Museum, Albany, New York. 122 pp.
- Peattie, D.C. 1991. A Natural History of Trees of Eastern and North America. Houghton Mifflin Co., Boston. 606 pp.
- Peterson, RT., and M. McKenny. 1968. A Field Guide to Wildflowers of Northeastern and Northcentral North America. Houghton Mifflin Co., Boston. 420 pp.
- Petrides, G.A. 1972. A Field Guide to Trees and Shrubs. Houghton Mifflin Co., Boston. 428 pp.
- Prescott, G.W. 1969. How to Know the Aquatic Plants. Second Edition. William C. Brown Co., Dubuque, Iowa. 171 pp.
- Raynal, D.J., and D. J. Leopold. 1999. Landowner's Guide to State-Protected Plants of Forests in New York State. New York Center for Forestry Research and Development, SUNY-ESF, Syracuse, New York. 92pp.
- Reed, Porter B. Jr. 1988. National List of Plant Species that Occur in Wetlands: Northeast (Region 1). U.S. Fish and Wildlife Service, Washington, D.C. Biol. Rept. 88 (26.1). 112 pp.
- Reschke, C. 2002. Ecological Communities of New York State. New York Natural Heritage Program. NYSDEC, Latham, N.Y. (2nd Ed.) 136 pp.

- Soil Conservation Service. 1975. Soil Taxonomy: A Basic System of Soil Classification for Making and Interpreting Soil Surveys. U.S.D.A., Soil Conservation Service, U.S. Handbook 436.
- Soil Conservation Service. 1988. New York Hydric Soils and Soils with Hydric Inclusions, revised July, 1988, Soil Conservation Service, Syracuse, New York, Technical Guide, Section II. 23 pp.
- Simonds, R.L., and H.H. Tweedie. 1978. Wildflowers of the Great Lakes Region. Chicago Review Press, Chicago. 96 pp.
- Symonds, G.W.D. 1958. The Tree Identification Book. Quill, New York. 272 pp.
- Symonds, G.W.D. 1963. The Shrub Identification Book. William Morrow & Co., New York. 379 pp.
- Tiner, R. W. Jr. 1988. A Field Guide to Nontidal Wetland Identification. Maryland Department of Natural Resources and U.S. Fish and Wildlife Service Cooperative Publication. Maryland Department of Natural Resources, Annapolis, Maryland. 283 pp. + 198 color plates.
- United States Department and Agriculture & the Natural Resources Conservation Service (USDA, NRCS). Soil Conservation Service Soil Survey of Genesee County, New York. U.S.D.A., Soil Conservation Service. 1986 http://websoilsurvey.nrcs.usda.gov/app/WebSoilSurvey.aspx
- USDA, NRCS. 2009. The PLANTS Database (http://plants.usda.gov, 12/14/09). National Plant Data Center, Baton Rouge, LA 70874-4490 USA.
- United States Geological Survey maps, Denver, Colorado. Corfu Quadrangle.
- U.S. Army Corps of Engineers. 2009. Interim Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northcentral and Northeast Region, ed. J. S. Wakeley, R. W. Lichvar, and C. V. Noble. ERDC/EL TR-09-19. Vicksburg, MS: U.S. Army Engineer Research and Development Center.
- U.S. Fish and Wildlife Service, A Wetlands and Deepwater Habitats Classification. May 3, 2002, http://www.nwi.fws.gov/. June 16, 2002.
- Zander, R.H., and G.J. Pierce. 1979. Flora of the Niagara Frontier Region. Bulletin of the Buffalo Society of Natural Sciences, Vol. 16 (Suppl. 2), Buffalo, New York. 110 pp

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APPENDIX E - WETLAND INVESTIGATION PERSONNEL

Soils and Hydrology Sampling Scott Livingstone, Senior Soil Scientist Earth Dimensions, Inc. 1091 Jamison Road Elma, New York 14059 (716) 655-1717

Vegetation Sampling Thomas Somerville, Ecologist Earth Dimensions, Inc. 1091 Jamison Road Elma, New York 14059 (716) 655-1717

Report Preparation
Thomas Somerville, Ecologist
Earth Dimensions, Inc.
1091 Jamison Road
Elma, New York 14059
(716) 655-1717



# STORMWATER POLLUTION PREVENTION PLAN FOR

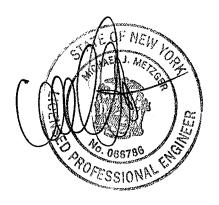
Distribution Center 90 Town of Pembroke New York

December 19, 2020

Project M-2220

Prepared by:

Metzger Civil Engineering, PLLC 8245 Sheridan Drive Williamsville, NY 14221 Phone 716-633-2601 meteng@roadrunner.com



Michael J. Metzger, P.E. License No. 066786

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- c. Soil Description
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- g. Site Map
- h. Details
- i. Inspection Schedule
- j. Pollution Prevention Measures
- k. Stormwater Discharges From Sources Other Than Construction
- 1. Identification of Elements of the Design Not In Conformance with the "Technical Standards"

### Part III.B.2 Post Construction Stormwater Management Practice Component

- a. Permanent Stormwater Management Practices
- b. Site Map
- c. Stormwater analysis
- d. Soil test analysis
- e. Infiltration test results
- f. Post Construction O&M plan

### Part III.B.3 Enhanced Phosphorus Removal Standards

a. Enhanced Phosphorus Removal Standards

#### **APPENDICES**

- A. Notice of Intent
- B. NYSDEC SPDES General Permit for Stormwater Discharges from Construction Activities, Permit No. GP-0-20-001
- C. Certification Statements
- D. Stormwater Calculations, areas A, B and C
- E. Green Infrastructure Planning and Design
- F. Soils Map Data
- G. Wetland Map

This Stormwater Pollution Prevention Plan was prepared and numbered in general conformance with the guidelines set forth in the New York State Department of Environmental Conservation SPDES General Permit for Stormwater Discharges from Construction Activities - Permit No. GP-0-20-001.

### 1a. Background Information:

The project consists of the construction of 6 Multi use buildings primarily to serve as distribution warehousing and storage of goods near to the New York State I-90 Thruway, exit 48A. The project will include roadways, parking and related infrastructure to service these buildings. The new development will sit on a 210.7 acre parcel which is currently undeveloped. The land has been disturbed by past agricultural usage.

### 1b. Site Map:

A site map has been included on the cover sheet of the plan set which is part of this SWPPP.

#### 1c. Soils:

The site is shown on the Genesee County Soils Survey as having 15 different soil types. The primary soil type is Collamer silt loam (CiB) type soils. This soil type is classified as belonging to the hydrologic soil group (HSG) "A". Depth to bedrock is beyond 60".

# 1d. Construction Phasing:

Sequencing for all phases:

- 1. Installation of a stabilized construction entrances.
- 2. Installation of silt protection on all areas downstream of proposed disturbance.
- 3. Clearing and grubbing.
- 4. Removal and stockpiling of topsoil and fill.
- 5. Construction of the bioretention area and stormwater pond.
- 6. Infrastructure construction (drainage, water and sanitary sewers).
- 7. Install temporary Drop Inlet protection per the design plans.
- 8. Excavation and construction of the roadways.
- 9. Building Construction.
- 10. Removal of the control measures upon establishment of grass as outlined herein.

## 1e. Pollution Prevention Measures:

A stabilized construction entrance will be required for each phase of construction and maintained until the final paving has been installed as outlined by "New York State Guidelines for Erosion and Sediment Control section 5A.73". This entrance must be kept clean to ensure no mud is allowed to enter the public roadway. Dust must be controlled by sweeping and or truck washing. All truck tire wash water must be properly contained on site and concrete truck wash out must be contained and disposed of properly. Drop inlet protection and silt socks are to be installed as detailed on the design plans.

### 1f. Soil Stabilization:

The site will be seeded and grassed as soon as possible upon fine grading of any particular area. Any disturbed area or temporary stockpile left idle must be stabilized within 14 calendar days after last being worked. All sediment controls are to remain in place until turf has been established and the site is stabilized as defined in the SPDES General Permit.

### 1g. Site Map:

A site map and details have been included in the design plans for this site.

### 1h. Details:

The size, material specifications, maintenance and installation requirements of stormwater pollution prevention devices are given on the detail sheets for this project. Drop inlet protection is to be inspected daily by the contractor and emptied and repaired as needed. Silt sock is to be replaced when torn or if captured silt reached 50% of the sock height. The stabilized construction entrance shall be resurfaced before the stone becomes impregnated with silt to the point where trucks are tracking silt onto the roadway.

### 1i. Inspection schedule:

A "trained contractor" must be on site daily when soil disturbance activities are being performed and must inspect, clean and repair as required all stormwater pollution prevention devices on site.

The inspection of all stormwater pollution prevention devices will be the responsibility of a "qualified professional" before, during and after construction as outlined in the SPDES General Permit for Construction Activity GP-0-20-001 included in this SWPPP.

All devices must be in place prior to work in any upstream area and maintained at all times during construction. A "qualified inspector" must inspect all stormwater pollution prevention practices:

- a. Prior to construction.
- b. Every 7 days (minimum), twice every seven days if current site disturbance exceeds 5 acres in size.
- c. Prior to issuance of the Notice of Termination.

### 1j. Pollution prevention measures:

The site is to be kept free of litter by providing on site waste receptacles. Contractors are to be instructed not to place litter in open excavations or the rear of open bed trucks.

Contractors are to ensure that construction chemicals are handled in strict compliance with OSHA standards. This includes proper storage containers and labeling of chemicals. On site storage of chemicals should be avoided whenever possible. Chemicals are to be protected from rain and wind. Chemical spills are to be reported immediately to NYSDEC spill response. Spill kits and /or absorbent materials must be kept on site and employees shall be trained in their use.

Long term on site storage of construction debris should be avoided whenever possible. On site construction debris is to be kept in a fashion to prevent the pollution via wind or stormwater runoff.

The site is to be serviced by two bioretention areas and wet detention ponds. Drop inlet protection will be placed around all storm inlets. A stabilized construction entrance is to be employed as noted on the design drawings. The "General Contractor" will ultimately be responsible for all subcontracted work, and therefore, the installation, maintenance and removal of SWPPP devices.

## 1k. Stormwater discharges from sources other than construction

This site has no additional storm water discharges.

# 11. Elements that are NOT in compliance with New York State Standards and Specifications for Erosion and Sediment Control

The Erosion and Sediment Control elements for this site have been designed to be in general compliance with the New York State Standards and Specifications for Erosion and Sediment Control.

## 2a Permanent stormwater management practices

The site will have two bioretention areas and on site wet detention ponds. These will be served an outlet control structure.

### 2b Site map

A site map has been provided as part of the overall engineering design.

### 2c. Stormwater analysis

A complete set of Stormwater calculations have been included as Appendix D of this plan.

### 2d. Soil Test Analysis

This site was tested in 1969 as part of a joint project by the United States Department of Agriculture, Soil Conservation Service and Cornell University. The results of their soil survey revealed that the soils found on this site have this profile:

0 - 40" ML – Silt loam

Seasonal high groundwater is found at 1.5'

Bedrock was is found between 5' - 40' of grounds surface.

### 2e. Infiltration Test Results

This site was tested in 1969 as part of a joint project by the United States Department of Agriculture, Soil Conservation Service and Cornell University. The results of their soil survey revealed that the soils found on this site have these infiltration rates:

0-40" 0.2 - 2.0 inches per hour

### 2f. Post Construction Operation and Maintenance Plan

Practice	Frequency	By
Removal of Trash and Debris		
from the storm water piping	Continuous	Owner
Maintaining the bioretention Areas		
Plants and vegetation	Seasonally	Owner
Fights and vegetation	Scasonarry	Owner
Maintaining the ponds vegetation	Seasonally	Owner
7	•	
Inspection of pond, catch		
basins, bioretention areas,		
outlet structures and storm piping	Annually	Owner
Cleaning of, catch basins,	As needed	Overson
outlet structures and storm piping	As needed	Owner
Removal of accumulated silt		
From pond bottoms	When silt reaches	Owner
1 10111 Polita cottonia		

# 3a. Enhanced Phosphorus Removal Standards

This site does not lie in any watershed identified in New York State Department of Environmental Conservation SPDES General Permit for Stormwater Discharges from Construction Activities - Permit No. GP-0-20-00 and is therefore not subject to enhanced phosphorus removal standards.

# **APPENDIX A**NOTICE OF INTENT

STORMWATER POLLUTION PREVENTION PLAN

# NOI for coverage under Stormwater General Permit for Construction Activity

version 1.35

(Submission #: HPQ-20RJ-YXH86, version 1)

# **Details**

Originally Started By Michael Metzger

**Alternate Identifier** 

Distribution Center 90

**Submission ID** 

HPQ-20RJ-YXH86

Submission Reason New

**Status** 

Draft

# Form Input

# **Owner/Operator Information**

Owner/Operator Name (Company/Private Owner/Municipality/Agency/Institution, etc.)

Horizon Acres Associates, Inc.

Owner/Operator Contact Person Last Name (NOT CONSULTANT)
Martin

Owner/Operator Contact Person First Name Jeffrey

Owner/Operator Mailing Address 10029 Aurora-Hudson Road

# City

Streetsboro

## **State**

Ohio

# Zip

44241

# **Phone**

914-906-3838

# **Email**

jm@geisco.net

# Federal Tax ID

852043967

# **Project Location**

# **Project/Site Name**

Distribution Center 90

# Street Address (Not P.O. Box)

8524 Alleghany Road

# **Side of Street**

West

# City/Town/Village (THAT ISSUES BUILDING PERMIT)

Pembroke

# **State**

NY

# Zip

14036

# **DEC Region**

8

# County

**GENESEE** 

# Name of Nearest Cross Street

Main Street - Route 5

# **Distance to Nearest Cross Street (Feet)**

 $\mathbf{C}$ 

# **Project In Relation to Cross Street**

North

# **Tax Map Numbers Section-Block-Parcel**

15-1-24 1

# **Tax Map Numbers**

NONE PROVIDED

# 1. Coordinates

Provide the Geographic Coordinates for the project site. The two methods are:

- Navigate to the project location on the map (below) and click to place a marker and obtain the XY coordinates.
- The "Find Me" button will provide the lat/long for the person filling out this form. Then pan the map to the correct location and click the map to place a marker and obtain the XY coordinates.

# Navigate to your location and click on the map to get the X,Y coordinates

42.998918619834654,-78.40777764642824

# **Project Details**

2. What is the nature of this project? New Construction

3. Select the predominant land use for both pre and post development conditions.

Pre-Development Existing Landuse

**Cultivated Land** 

**Post-Development Future Land Use** 

Commercial

3a. If Single Family Subdivision was selected in question 3, enter the number of subdivision lots.

NONE PROVIDED

4. In accordance with the larger common plan of development or sale, enter the total project site acreage, the acreage to be disturbed and the future impervious area (acreage) within the disturbed area.

\*\*\* ROUND TO THE NEAREST TENTH OF AN ACRE. \*\*\*

**Total Site Area (acres)** 

210.7

**Total Area to be Disturbed (acres)** 

103.7

**Existing Impervious Area to be Disturbed (acres)** 

0

Future Impervious Area Within Disturbed Area (acres)

79

5. Do you plan to disturb more than 5 acres of soil at any one time? Yes

6. Indicate the percentage (%) of each Hydrologic Soil Group(HSG) at the site.

A (%)
33

B (%)
9

C (%)
30

D (%)
28

7. Is this a phased project?

Yes

8. Enter the planned start and end dates of the disturbance activities.

**Start Date** 03/01/2023

**End Date** 12/20/2028

9. Identify the nearest surface waterbody(ies) to which construction site runoff will discharge.

Ledge Creek

9a. Type of waterbody identified in question 9? Stream/Creek Off Site

Other Waterbody Type Off Site Description NONE PROVIDED

9b. If "wetland" was selected in 9A, how was the wetland identified?
NONE PROVIDED

10. Has the surface waterbody(ies in question 9 been identified as a 303(d) segment in Appendix E of GP-0-20-001?

11. Is this project located in one of the Watersheds identified in Appendix C of GP-0-20-001?

12. Is the project located in one of the watershed areas associated with AA and AA-S classified waters?
No

If No, skip question 13.

13. Does this construction activity disturb land with no existing impervious cover and where the Soil Slope Phase is identified as D (provided the map unit name is inclusive of slopes greater than 25%), E or F on the USDA Soil Survey?

If Yes, what is the acreage to be disturbed? NONE PROVIDED

- 14. Will the project disturb soils within a State regulated wetland or the protected 100 foot adjacent area?

  No
- 15. Does the site runoff enter a separate storm sewer system (including roadside drains, swales, ditches, culverts, etc)?
  No
- 16. What is the name of the municipality/entity that owns the separate storm sewer system?

  NONE PROVIDED
- 17. Does any runoff from the site enter a sewer classified as a Combined Sewer?

No

- 18. Will future use of this site be an agricultural property as defined by the NYS Agriculture and Markets Law?
  No
- 19. Is this property owned by a state authority, state agency, federal government or local government?
- 20. Is this a remediation project being done under a Department approved work plan? (i.e. CERCLA, RCRA, Voluntary Cleanup Agreement, etc.)

# **Required SWPPP Components**

- 21. Has the required Erosion and Sediment Control component of the SWPPP been developed in conformance with the current NYS Standards and Specifications for Erosion and Sediment Control (aka Blue Book)? Yes
- 22. Does this construction activity require the development of a SWPPP that includes the post-construction stormwater management practice component (i.e. Runoff Reduction, Water Quality and Quantity Control practices/techniques)? Yes

If you answered No in question 22, skip question 23 and the Postconstruction Criteria and Post-construction SMP Identification sections.

23. Has the post-construction stormwater management practice component of the SWPPP been developed in conformance with the current NYS Stormwater Management Design Manual?
Yes

# 24. The Stormwater Pollution Prevention Plan (SWPPP) was prepared by:

Professional Engineer (P.E.)

### **SWPPP Preparer**

Michael J. Metzger, PE

## **Contact Name (Last, Space, First)**

Metzger Michael

#### **Mailing Address**

8245 Sheridan Drive

#### City

Williamsville

#### **State**

NY

#### Zip

14221

#### Phone

7166332601

#### Email

meteng@roadrunner.com

### **Download SWPPP Preparer Certification Form**

Please take the following steps to prepare and upload your preparer certification form:

- 1) Click on the link below to download a blank certification form
- 2) The certified SWPPP preparer should sign this form
- 3) Scan the signed form
- 4) Upload the scanned document

**Download SWPPP Preparer Certification Form** 

### Please upload the SWPPP Preparer Certification

NONE PROVIDED

Comment

NONE PROVIDED

#### **Erosion & Sediment Control Criteria**

25. Has a construction sequence schedule for the planned management practices been prepared?
Yes

26. Select all of the erosion and sediment control practices that will be employed on the project site:

#### **Temporary Structural**

Construction Road Stabilization
Dust Control
Stabilized Construction Entrance
Storm Drain Inlet Protection

#### **Biotechnical**

None

## **Vegetative Measures**

Seeding

#### **Permanent Structural**

Riprap Slope Protection Rock Outlet Protection

#### Other

Silt sock

## **Post-Construction Criteria**

\* IMPORTANT: Completion of Questions 27-39 is not required if response to Question 22 is No.

# 27. Identify all site planning practices that were used to prepare the final site plan/layout for the project.

Preservation of Undisturbed Area

Preservation of Buffers

Reduction of Clearing and Grading

Locating Development in Less Sensitive Areas

Roadway Reduction

Sidewalk Reduction

**Driveway Reduction** 

Cul-de-sac Reduction

**Building Footprint Reduction** 

**Parking Reduction** 

# 27a. Indicate which of the following soil restoration criteria was used to address the requirements in Section 5.1.6("Soil Restoration") of the Design Manual (2010 version).

All disturbed areas will be restored in accordance with the Soil Restoration requirements in Table 5.3 of the Design Manual (see page 5-22).

# 28. Provide the total Water Quality Volume (WQv) required for this project (based on final site plan/layout). (Acre-feet) 6.803

## 29. Post-construction SMP Identification

Use the Post-construction SMP Identification section to identify the RR techniques (Area Reduction), RR techniques(Volume Reduction) and Standard SMPs with RRv Capacity that were used to reduce the Total WQv Required (#28).

Identify the SMPs to be used by providing the total impervious area that contributes runoff to each technique/practice selected. For the Area Reduction Techniques, provide the total contributing area (includes pervious area) and, if applicable, the total impervious area that contributes runoff to the technique/practice.

Note: Redevelopment projects shall use the Post-Construction SMP Identification section to identify the SMPs used to treat and/or reduce the WQv required. If runoff reduction techniques will not be used to

reduce the required WQv, skip to question 33a after identifying the SMPs.

30. Indicate the Total RRv provided by the RR techniques (Area/Volume Reduction) and Standard SMPs with RRv capacity identified in question 29. (acre-feet) 2.311

31. Is the Total RRv provided (#30) greater than or equal to the total WQv required (#28)?

If Yes, go to question 36. If No, go to question 32.

32. Provide the Minimum RRv required based on HSG. [Minimum RRv Required = (P) (0.95) (Ai) / 12, Ai=(s) (Aic)] (acre-feet) 2.273

32a. Is the Total RRv provided (#30) greater than or equal to the Minimum RRv Required (#32)?
Yes

If Yes, go to question 33.

Note: Use the space provided in question #39 to summarize the specific site limitations and justification for not reducing 100% of WQv required (#28). A detailed evaluation of the specific site limitations and justification for not reducing 100% of the WQv required (#28) must also be included in the SWPPP.

If No, sizing criteria has not been met; therefore, NOI can not be processed. SWPPP preparer must modify design to meet sizing criteria.

#### **33. SMPs**

Use the Post-construction SMP Identification section to identify the Standard SMPs and, if applicable, the Alternative SMPs to be used to treat the remaining total WQv (=Total WQv Required in #28 - Total RRv Provided in #30).

Also, provide the total impervious area that contributes runoff to each practice selected.

NOTE: Use the Post-construction SMP Identification section to identify the SMPs used on Redevelopment projects.

33a. Indicate the Total WQv provided (i.e. WQv treated) by the SMPs identified in question #33 and Standard SMPs with RRv Capacity identified in question #29. (acre-feet)

Note: For the standard SMPs with RRv capacity, the WQv provided by each practice = the WQv calculated using the contributing drainage area to the practice - provided by the practice. (See Table 3.5 in Design Manual)

34. Provide the sum of the Total RRv provided (#30) and the WQv provided (#33a).
2.311

35. Is the sum of the RRv provided (#30) and the WQv provided (#33a) greater than or equal to the total WQv required (#28)?

If Yes, go to question 36.

If No, sizing criteria has not been met; therefore, NOI can not be processed. SWPPP preparer must modify design to meet sizing criteria.

36. Provide the total Channel Protection Storage Volume (CPv required and provided or select waiver (#36a), if applicable.

CPv Required (acre-feet)

4.73

**CPv Provided (acre-feet)** 

4.79

36a. The need to provide channel protection has been waived because:

NONE PROVIDED

37. Provide the Overbank Flood (Qp) and Extreme Flood (Qf) control criteria or select waiver (#37a), if applicable.

Overbank Flood Control Criteria (Qp)

Pre-Development (CFS)

23.00

Post-Development (CFS)

22.90

**Total Extreme Flood Control Criteria (Qf)** 

**Pre-Development (CFS)** 

107.08

Post-Development (CFS)

107.08

37a. The need to meet the Qp and Qf criteria has been waived because:

NONE PROVIDED

38. Has a long term Operation and Maintenance Plan for the postconstruction stormwater management practice(s) been developed? Yes

If Yes, Identify the entity responsible for the long term Operation and Maintenance

Owner

39. Use this space to summarize the specific site limitations and justification for not reducing 100% of WQv required (#28). (See question #32a) This space can also be used for other pertinent project information.

Using the five step process outlined in the Stormwater Design Manual the minimum RRV is being met by Bio-retention and conservation of natural areas. The remaining WQV is being met by two on site wet detention ponds with outlet control structures.

### **Post-Construction SMP Identification**

Runoff Reduction (RR) Techniques, Standard Stormwater Management Practices (SMPs) and Alternative SMPs

Identify the Post-construction SMPs to be used by providing the total impervious area that contributes runoff to each technique/practice selected. For the Area Reduction Techniques, provide the total contributing area (includes pervious area) and, if applicable, the total impervious area that contributes runoff to the technique/practice.

# RR Techniques (Area Reduction)

Round to the nearest tenth

**Total Contributing Acres for Conservation of Natural Area (RR-1)** 93.40

Total Contributing Impervious Acres for Conservation of Natural Area (RR-1)

Total Contributing Acres for Sheetflow to Riparian Buffers/Filter Strips (RR-2)

Total Contributing Impervious Acres for Sheetflow to Riparian Buffers/Filter Strips (RR-2)

Total Contributing Acres for Tree Planting/Tree Pit (RR-3)

Total Contributing Impervious Acres for Tree Planting/Tree Pit (RR-3)

Total Contributing Acres for Disconnection of Rooftop Runoff (RR-4) **RR Techniques (Volume Reduction) Total Contributing Impervious Acres for Disconnection of Rooftop** Runoff (RR-4) Total Contributing Impervious Acres for Vegetated Swale (RR-5) 0 Total Contributing Impervious Acres for Rain Garden (RR-6) Total Contributing Impervious Acres for Stormwater Planter (RR-7) 0 Total Contributing Impervious Acres for Rain Barrel/Cistern (RR-8) **Total Contributing Impervious Acres for Porous Pavement (RR-9)** 0 Total Contributing Impervious Acres for Green Roof (RR-10) Standard SMPs with RRv Capacity **Total Contributing Impervious Acres for Infiltration Trench (I-1)** Total Contributing Impervious Acres for Infiltration Basin (I-2)

0

**Total Contributing Impervious Acres for Dry Well (I-3) Total Contributing Impervious Acres for Underground Infiltration** System (I-4) **Total Contributing Impervious Acres for Bioretention (F-5)** 79.0 Total Contributing Impervious Acres for Dry Swale (O-1) Standard SMPs **Total Contributing Impervious Acres for Micropool Extended Detention (P-1)** 0 Total Contributing Impervious Acres for Wet Pond (P-2) 72.8 **Total Contributing Impervious Acres for Wet Extended Detention** (P-3)0 Total Contributing Impervious Acres for Multiple Pond System (P-4) **Total Contributing Impervious Acres for Pocket Pond (P-5)** 6.2 Total Contributing Impervious Acres for Surface Sand Filter (F-1) **Total Contributing Impervious Acres for Underground Sand Filter** (F-2) 0

Total Contributing Impervious Acres for Perimeter Sand Filter (F-3) **Total Contributing Impervious Acres for Organic Filter (F-4)** Total Contributing Impervious Acres for Shallow Wetland (W-1) 0 **Total Contributing Impervious Acres for Extended Detention** Wetland (W-2) 0 Total Contributing Impervious Acres for Pond/Wetland System (W-3) 0 Total Contributing Impervious Acres for Pocket Wetland (W-4) 0 **Total Contributing Impervious Acres for Wet Swale (O-2)** Alternative SMPs (DO NOT INCLUDE PRACTICES BEING USED FOR PRETREATMENT ONLY) **Total Contributing Impervious Area for Hydrodynamic** 0 **Total Contributing Impervious Area for Wet Vault** 0 **Total Contributing Impervious Area for Media Filter** 0 "Other" Alternative SMP? NONE PROVIDED

**Total Contributing Impervious Area for "Other"**NONE PROVIDED

Provide the name and manufaturer of the alternative SMPs (i.e. proprietary practice(s)) being used for WQv treatment.

Note: Redevelopment projects which do not use RR techniques, shall use questions 28, 29, 33 and 33a to provide SMPs used, total WQv required and total WQv provided for the project.

Manufacturer of Alternative SMP NONE PROVIDED

Name of Alternative SMP NONE PROVIDED

# **Other Permits**

40. Identify other DEC permits, existing and new, that are required for this project/facility.

None

If SPDES Multi-Sector GP, then give permit ID NONE PROVIDED

If Other, then identify NONE PROVIDED

41. Does this project require a US Army Corps of Engineers Wetland Permit?

Yes

If "Yes," then indicate Size of Impact, in acres, to the nearest tenth 0.21

42. If this NOI is being submitted for the purpose of continuing or transferring coverage under a general permit for stormwater runoff from construction activities, please indicate the former SPDES number assigned.

NONE PROVIDED

## **MS4 SWPPP Acceptance**

43. Is this project subject to the requirements of a regulated, traditional land use control MS4?

If No, skip question 44

44. Has the "MS4 SWPPP Acceptance" form been signed by the principal executive officer or ranking elected official and submitted along with this NOI?

NONE PROVIDED

### **MS4 SWPPP Acceptance Form Download**

Download form from the link below. Complete, sign, and upload. MS4 SWPPP Acceptance Form

## MS4 Acceptance Form Upload

NONE PROVIDED

Comment

NONE PROVIDED

## **Owner/Operator Certification**

## **Owner/Operator Certification Form Download**

Download the certification form by clicking the link below. Complete, sign, scan, and upload the form.

Owner/Operator Certification Form (PDF, 45KB)

# Upload Owner/Operator Certification Form NONE PROVIDED

NONE PROVIDED

Comment

NONE PROVIDED



# **SWPPP Preparer Certification Form**

SPDES General Permit for Stormwater Discharges From Construction Activity (GP-0-20-001)

(GF-0-20-001)					
Project Site Information Project/Site Name					
DISTRIBUTION CENTER 90					
Owner/Operator Information Owner/Operator (Company Name/Private Owner/Municipality Name)					
HORIZON ACRES ASSOCIATES, INC					
Certification Statement – SWPPP Preparer  I hereby certify that the Stormwater Pollution Prevention Plan (SWPPP) for this project has been prepared in accordance with the terms and conditions of the GP-0-20-001. Furthermore, I understand that certifying false, incorrect or inaccurate information is a violation of this permit and the laws of the State of New York and could subject me to criminal, civil and/or administrative proceedings.					
MICHAEL J METZGER					
First name MI Last Name					
Signature Date					

Revised: January 2020



# **Owner/Operator Certification Form**

# SPDES General Permit For Stormwater Discharges From Construction Activity (GP-0-20-001)

Project/Site Name:	DISTRIBUTION	CENTER 90				
eNOI Submission Number: HPQ - 20RT - YXH86						
eNOI Submitted by:	Owner/Operator	SWPPP Preparer	Other			
Certification Statement - Owner/Operator						
I have read or been advised of the permit conditions and believe that I understand them. I also understand that, under the terms of the permit, there may be reporting requirements. I hereby certify that this document and the corresponding documents were prepared under my direction or supervision. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I further understand that coverage under the general permit will be identified in the acknowledgment that I will receive as a result of submitting this NOI and can be as long as sixty (60) business days as provided for in the general permit. I also understand that, by submitting this NOI, I am acknowledging that the SWPPP has been developed and will be implemented as the first element of construction, and agreeing to comply with all the terms and conditions of the general permit for which this NOI is being submitted.						
JEFFREY Dwner/Operator First Na	me M.I.	MARTN Last Name				
Mor	hort					
ignature //						
12.20.22						

# **APPENDIX B**NYSDEC SPDES GENERAL PERMIT

STORMWATER POLLUTION PREVENTION PLAN



# NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

# SPDES GENERAL PERMIT FOR STORMWATER DISCHARGES

From

#### **CONSTRUCTION ACTIVITY**

Permit No. GP- 0-20-001

Issued Pursuant to Article 17, Titles 7, 8 and Article 70

of the Environmental Conservation Law

Effective Date: January 29, 2020

Expiration Date: January 28, 2025

John J. Ferguson

**Chief Permit Administrator** 

Authorized Signature

Date

Address:

**NYS DEC** 

**Division of Environmental Permits** 

625 Broadway, 4th Floor Albany, N.Y. 12233-1750

#### **PREFACE**

Pursuant to Section 402 of the Clean Water Act ("CWA"), stormwater discharges from certain construction activities are unlawful unless they are authorized by a National Pollutant Discharge Elimination System ("NPDES") permit or by a state permit program. New York administers the approved State Pollutant Discharge Elimination System (SPDES) program with permits issued in accordance with the New York State Environmental Conservation Law (ECL) Article 17, Titles 7, 8 and Article 70.

An owner or operator of a construction activity that is eligible for coverage under this permit must obtain coverage prior to the commencement of construction activity. Activities that fit the definition of "construction activity", as defined under 40 CFR 122.26(b)(14)(x), (15)(i), and (15)(ii), constitute construction of a point source and therefore, pursuant to ECL section 17-0505 and 17-0701, the owner or operator must have coverage under a SPDES permit prior to commencing construction activity. The owner or operator cannot wait until there is an actual discharge from the construction site to obtain permit coverage.

\*Note: The italicized words/phrases within this permit are defined in Appendix A.

# NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION SPDES GENERAL PERMIT FOR STORMWATER DISCHARGES FROM CONSTRUCTION ACTIVITIES

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#### Part 1. PERMIT COVERAGE AND LIMITATIONS

#### A. Permit Application

This permit authorizes stormwater discharges to surface waters of the State from the following construction activities identified within 40 CFR Parts 122.26(b)(14)(x), 122.26(b)(15)(i) and 122.26(b)(15)(ii), provided all of the eligibility provisions of this permit are met:

- 1. Construction activities involving soil disturbances of one (1) or more acres; including disturbances of less than one acre that are part of a larger common plan of development or sale that will ultimately disturb one or more acres of land; excluding routine maintenance activity that is performed to maintain the original line and grade, hydraulic capacity or original purpose of a facility;
- Construction activities involving soil disturbances of less than one (1) acre
  where the Department has determined that a SPDES permit is required for
  stormwater discharges based on the potential for contribution to a violation of a
  water quality standard or for significant contribution of pollutants to surface
  waters of the State.
- 3. Construction activities located in the watershed(s) identified in Appendix D that involve soil disturbances between five thousand (5,000) square feet and one (1) acre of land.

### B. Effluent Limitations Applicable to Discharges from Construction Activities

Discharges authorized by this permit must achieve, at a minimum, the effluent limitations in Part I.B.1. (a) - (f) of this permit. These limitations represent the degree of effluent reduction attainable by the application of best practicable technology currently available.

1. Erosion and Sediment Control Requirements - The *owner or operator* must select, design, install, implement and maintain control measures to *minimize* the *discharge* of *pollutants* and prevent a violation of the *water quality standards*. The selection, design, installation, implementation, and maintenance of these control measures must meet the non-numeric effluent limitations in Part I.B.1.(a) – (f) of this permit and be in accordance with the New York State Standards and Specifications for Erosion and Sediment Control, dated November 2016, using sound engineering judgment. Where control measures are not designed in conformance with the design criteria included in the technical standard, the *owner or operator* must include in the *Stormwater Pollution Prevention Plan* ("SWPPP") the reason(s) for the

deviation or alternative design and provide information which demonstrates that the deviation or alternative design is *equivalent* to the technical standard.

- a. Erosion and Sediment Controls. Design, install and maintain effective erosion and sediment controls to minimize the discharge of pollutants and prevent a violation of the water quality standards. At a minimum, such controls must be designed, installed and maintained to:
  - (i) *Minimize* soil erosion through application of runoff control and soil stabilization control measure to *minimize pollutant discharges*;
  - (ii) Control stormwater *discharges*, including both peak flowrates and total stormwater volume, to *minimize* channel and *streambank* erosion and scour in the immediate vicinity of the *discharge* points;
  - (iii) Minimize the amount of soil exposed during construction activity;
  - (iv) Minimize the disturbance of steep slopes;
  - (v) Minimize sediment discharges from the site;
  - (vi) Provide and maintain *natural buffers* around surface waters, direct stormwater to vegetated areas and maximize stormwater infiltration to reduce *pollutant discharges*, unless *infeasible*;
  - (vii) *Minimize* soil compaction. Minimizing soil compaction is not required where the intended function of a specific area of the site dictates that it be compacted;
  - (viii) Unless *infeasible*, preserve a sufficient amount of topsoil to complete soil restoration and establish a uniform, dense vegetative cover; and
  - (ix) Minimize dust. On areas of exposed soil, minimize dust through the appropriate application of water or other dust suppression techniques to control the generation of pollutants that could be discharged from the site.
- b. Soil Stabilization. In areas where soil disturbance activity has temporarily or permanently ceased, the application of soil stabilization measures must be initiated by the end of the next business day and completed within fourteen (14) days from the date the current soil disturbance activity ceased. For construction sites that *directly discharge* to one of the 303(d) segments

listed in Appendix E or is located in one of the watersheds listed in Appendix C, the application of soil stabilization measures must be initiated by the end of the next business day and completed within seven (7) days from the date the current soil disturbance activity ceased. See Appendix A for definition of *Temporarily Ceased*.

- c. **Dewatering**. *Discharges* from *dewatering* activities, including *discharges* from *dewatering* of trenches and excavations, must be managed by appropriate control measures.
- d. **Pollution Prevention Measures**. Design, install, implement, and maintain effective pollution prevention measures to *minimize* the *discharge* of *pollutants* and prevent a violation of the *water quality standards*. At a minimum, such measures must be designed, installed, implemented and maintained to:
  - (i) Minimize the discharge of pollutants from equipment and vehicle washing, wheel wash water, and other wash waters. This applies to washing operations that use clean water only. Soaps, detergents and solvents cannot be used;
  - (ii) Minimize the exposure of building materials, building products, construction wastes, trash, landscape materials, fertilizers, pesticides, herbicides, detergents, sanitary waste, hazardous and toxic waste, and other materials present on the site to precipitation and to stormwater. Minimization of exposure is not required in cases where the exposure to precipitation and to stormwater will not result in a discharge of pollutants, or where exposure of a specific material or product poses little risk of stormwater contamination (such as final products and materials intended for outdoor use); and
  - (iii) Prevent the *discharge* of *pollutants* from spills and leaks and implement chemical spill and leak prevention and response procedures.
- e. Prohibited Discharges. The following discharges are prohibited:
  - (i) Wastewater from washout of concrete;
  - (ii) Wastewater from washout and cleanout of stucco, paint, form release oils, curing compounds and other construction materials;

- (iii) Fuels, oils, or other *pollutants* used in vehicle and equipment operation and maintenance;
- (iv) Soaps or solvents used in vehicle and equipment washing; and
- (v) Toxic or hazardous substances from a spill or other release.
- f. Surface Outlets. When discharging from basins and impoundments, the outlets shall be designed, constructed and maintained in such a manner that sediment does not leave the basin or impoundment and that erosion at or below the outlet does not occur.

#### C. Post-construction Stormwater Management Practice Requirements

- 1. The owner or operator of a construction activity that requires post-construction stormwater management practices pursuant to Part III.C. of this permit must select, design, install, and maintain the practices to meet the performance criteria in the New York State Stormwater Management Design Manual ("Design Manual"), dated January 2015, using sound engineering judgment. Where post-construction stormwater management practices ("SMPs") are not designed in conformance with the performance criteria in the Design Manual, the owner or operator must include in the SWPPP the reason(s) for the deviation or alternative design and provide information which demonstrates that the deviation or alternative design is equivalent to the technical standard.
- 2. The *owner or operator* of a *construction activity* that requires post-construction stormwater management practices pursuant to Part III.C. of this permit must design the practices to meet the applicable *sizing criteria* in Part I.C.2.a., b., c. or d. of this permit.

#### a. Sizing Criteria for New Development

- (i) Runoff Reduction Volume ("RRv"): Reduce the total Water Quality Volume ("WQv") by application of RR techniques and standard SMPs with RRv capacity. The total WQv shall be calculated in accordance with the criteria in Section 4.2 of the Design Manual.
- (ii) Minimum RRv and Treatment of Remaining Total WQv: Construction activities that cannot meet the criteria in Part I.C.2.a.(i) of this permit due to site limitations shall direct runoff from all newly constructed impervious areas to a RR technique or standard SMP with RRv capacity unless infeasible. The specific site limitations that prevent the reduction of 100% of the WQv shall be documented in the SWPPP.

For each impervious area that is not directed to a RR technique or standard SMP with RRv capacity, the SWPPP must include documentation which demonstrates that all options were considered and for each option explains why it is considered infeasible.

In no case shall the runoff reduction achieved from the newly constructed impervious areas be less than the Minimum RRv as calculated using the criteria in Section 4.3 of the Design Manual. The remaining portion of the total WQv that cannot be reduced shall be treated by application of standard SMPs.

- (iii) Channel Protection Volume ("Cpv"): Provide 24 hour extended detention of the post-developed 1-year, 24-hour storm event; remaining after runoff reduction. The Cpv requirement does not apply when:
  - (1) Reduction of the entire Cpv is achieved by application of runoff reduction techniques or infiltration systems, or
  - (2) The site discharges directly to tidal waters, or fifth order or larger streams.
- (iv) Overbank Flood Control Criteria ("Qp"): Requires storage to attenuate the post-development 10-year, 24-hour peak discharge rate (Qp) to predevelopment rates. The Qp requirement does not apply when:
  - (1) the site discharges directly to tidal waters or fifth order or larger streams, or
  - (2) A downstream analysis reveals that *overbank* control is not required.
- (v) Extreme Flood Control Criteria ("Qf"): Requires storage to attenuate the post-development 100-year, 24-hour peak discharge rate (Qf) to predevelopment rates. The Qf requirement does not apply when:
  - (1) the site discharges directly to tidal waters or fifth order or larger streams, or
  - (2) A downstream analysis reveals that *overbank* control is not required.

# b. Sizing Criteria for New Development in Enhanced Phosphorus Removal Watershed

(i) Runoff Reduction Volume (RRv): Reduce the total Water Quality Volume (WQv) by application of RR techniques and standard SMPs with RRv capacity. The total WQv is the runoff volume from the 1-year, 24 hour design storm over the post-developed watershed and shall be

calculated in accordance with the criteria in Section 10.3 of the Design Manual.

(ii) Minimum RRv and Treatment of Remaining Total WQv: Construction activities that cannot meet the criteria in Part I.C.2.b.(i) of this permit due to site limitations shall direct runoff from all newly constructed impervious areas to a RR technique or standard SMP with RRv capacity unless infeasible. The specific site limitations that prevent the reduction of 100% of the WQv shall be documented in the SWPPP. For each impervious area that is not directed to a RR technique or standard SMP with RRv capacity, the SWPPP must include documentation which demonstrates that all options were considered and for each option explains why it is considered infeasible.

In no case shall the runoff reduction achieved from the newly constructed *impervious areas* be less than the Minimum RRv as calculated using the criteria in Section 10.3 of the Design Manual. The remaining portion of the total WQv that cannot be reduced shall be treated by application of standard SMPs.

- (iii) Channel Protection Volume (Cpv): Provide 24 hour extended detention of the post-developed 1-year, 24-hour storm event; remaining after runoff reduction. The Cpv requirement does not apply when:
  - (1) Reduction of the entire Cpv is achieved by application of runoff reduction techniques or infiltration systems, or
  - (2) The site *discharges* directly to tidal waters, or fifth order or larger streams.
- (iv) Overbank Flood Control Criteria (Qp): Requires storage to attenuate the post-development 10-year, 24-hour peak discharge rate (Qp) to predevelopment rates. The Qp requirement does not apply when:
  - (1) the site *discharges* directly to tidal waters or fifth order or larger streams, or
  - (2) A downstream analysis reveals that *overbank* control is not required.
- (v) Extreme Flood Control Criteria (Qf): Requires storage to attenuate the post-development 100-year, 24-hour peak *discharge* rate (Qf) to predevelopment rates. The Qf requirement does not apply when:
  - (1) the site *discharge*s directly to tidal waters or fifth order or larger streams, or
  - (2) A downstream analysis reveals that *overbank* control is not required.

#### c. Sizing Criteria for Redevelopment Activity

(i) Water Quality Volume (WQv): The WQv treatment objective for redevelopment activity shall be addressed by one of the following options. Redevelopment activities located in an Enhanced Phosphorus Removal Watershed (see Part III.B.3. and Appendix C of this permit) shall calculate the WQv in accordance with Section 10.3 of the Design Manual. All other redevelopment activities shall calculate the WQv in accordance with Section 4.2 of the Design Manual.

(1) Reduce the existing impervious cover by a minimum of 25% of the total disturbed, impervious area. The Soil Restoration criteria in Section 5.1.6 of the Design Manual must be applied to all newly

created pervious areas, or

(2) Capture and treat a minimum of 25% of the WQv from the disturbed, impervious area by the application of standard SMPs; or reduce 25% of the WQv from the disturbed, impervious area by the application of RR techniques or standard SMPs with RRv capacity., or

(3) Capture and treat a minimum of 75% of the WQv from the disturbed, impervious area as well as any additional runoff from tributary areas by application of the alternative practices discussed in Sections 9.3

and 9.4 of the Design Manual., or

(4) Application of a combination of 1, 2 and 3 above that provide a weighted average of at least two of the above methods. Application of this method shall be in accordance with the criteria in Section 9.2.1(B) (IV) of the Design Manual.

If there is an existing post-construction stormwater management practice located on the site that captures and treats runoff from the *impervious area* that is being disturbed, the WQv treatment option selected must, at a minimum, provide treatment equal to the treatment that was being provided by the existing practice(s) if that treatment is greater than the treatment required by options 1-4 above.

- (ii) Channel Protection Volume (Cpv): Not required if there are no changes to hydrology that increase the *discharge* rate from the project site.
- (iii) Overbank Flood Control Criteria (Qp): Not required if there are no changes to hydrology that increase the discharge rate from the project site.
- (iv) Extreme Flood Control Criteria (Qf): Not required if there are no changes to hydrology that increase the *discharge* rate from the project site

# d. Sizing Criteria for Combination of Redevelopment Activity and New Development

Construction projects that include both New Development and Redevelopment Activity shall provide post-construction stormwater management controls that meet the sizing criteria calculated as an aggregate of the Sizing Criteria in Part I.C.2.a. or b. of this permit for the New Development portion of the project and Part I.C.2.c of this permit for Redevelopment Activity portion of the project.

#### D. Maintaining Water Quality

The Department expects that compliance with the conditions of this permit will control discharges necessary to meet applicable water quality standards. It shall be a violation of the ECL for any discharge to either cause or contribute to a violation of water quality standards as contained in Parts 700 through 705 of Title 6 of the Official Compilation of Codes, Rules and Regulations of the State of New York, such as:

- 1. There shall be no increase in turbidity that will cause a substantial visible contrast to natural conditions;
- 2. There shall be no increase in suspended, colloidal or settleable solids that will cause deposition or impair the waters for their best usages; and
- 3. There shall be no residue from oil and floating substances, nor visible oil film, nor globules of grease.

If there is evidence indicating that the stormwater *discharges* authorized by this permit are causing, have the reasonable potential to cause, or are contributing to a violation of the *water quality standards*; the *owner or operator* must take appropriate corrective action in accordance with Part IV.C.5. of this general permit and document in accordance with Part IV.C.4. of this general permit. To address the *water quality standard* violation the *owner or operator* may need to provide additional information, include and implement appropriate controls in the SWPPP to correct the problem, or obtain an individual SPDES permit.

If there is evidence indicating that despite compliance with the terms and conditions of this general permit it is demonstrated that the stormwater *discharges* authorized by this permit are causing or contributing to a violation of *water quality standards*, or if the Department determines that a modification of the permit is necessary to prevent a violation of *water quality standards*, the authorized *discharges* will no longer be eligible for coverage under this permit. The Department may require the *owner or operator* to obtain an individual SPDES permit to continue discharging.

#### E. Eligibility Under This General Permit

- 1. This permit may authorize all *discharges* of stormwater from *construction* activity to surface waters of the State and groundwaters except for ineligible discharges identified under subparagraph F. of this Part.
- 2. Except for non-stormwater *discharges* explicitly listed in the next paragraph, this permit only authorizes stormwater *discharges*; including stormwater runoff, snowmelt runoff, and surface runoff and drainage, from *construction activities*.
- 3. Notwithstanding paragraphs E.1 and E.2 above, the following non-stormwater discharges are authorized by this permit: those listed in 6 NYCRR 750-1.2(a)(29)(vi), with the following exception: "Discharges from firefighting activities are authorized only when the firefighting activities are emergencies/unplanned"; waters to which other components have not been added that are used to control dust in accordance with the SWPPP; and uncontaminated discharges from construction site de-watering operations. All non-stormwater discharges must be identified in the SWPPP. Under all circumstances, the owner or operator must still comply with water quality standards in Part I.D of this permit.
- 4. The owner or operator must maintain permit eligibility to discharge under this permit. Any discharges that are not compliant with the eligibility conditions of this permit are not authorized by the permit and the owner or operator must either apply for a separate permit to cover those ineligible discharges or take steps necessary to make the discharge eligible for coverage.

#### F. Activities Which Are Ineligible for Coverage Under This General Permit

All of the following are **not** authorized by this permit:

- 1. *Discharges* after *construction activities* have been completed and the site has undergone *final stabilization*;
- 2. *Discharges* that are mixed with sources of non-stormwater other than those expressly authorized under subsection E.3. of this Part and identified in the SWPPP required by this permit;
- 3. Discharges that are required to obtain an individual SPDES permit or another SPDES general permit pursuant to Part VII.K. of this permit;
- 4. Construction activities or discharges from construction activities that may adversely affect an endangered or threatened species unless the owner or

operator has obtained a permit issued pursuant to 6 NYCRR Part 182 for the project or the Department has issued a letter of non-jurisdiction for the project. All documentation necessary to demonstrate eligibility shall be maintained on site in accordance with Part II.D.2 of this permit;

- 5. *Discharges* which either cause or contribute to a violation of *water quality* standards adopted pursuant to the *ECL* and its accompanying regulations;
- 6. Construction activities for residential, commercial and institutional projects:
  - a. Where the *discharges* from the *construction activities* are tributary to waters of the state classified as AA or AA-s; and
  - b. Which are undertaken on land with no existing impervious cover, and
  - c. Which disturb one (1) or more acres of land designated on the current United States Department of Agriculture ("USDA") Soil Survey as Soil Slope Phase "D", (provided the map unit name is inclusive of slopes greater than 25%), or Soil Slope Phase "E" or "F" (regardless of the map unit name), or a combination of the three designations.
- 7. Construction activities for linear transportation projects and linear utility projects:
  - a. Where the *discharges* from the *construction activities* are tributary to waters of the state classified as AA or AA-s; and
  - b. Which are undertaken on land with no existing impervious cover, and
  - c. Which disturb two (2) or more acres of land designated on the current USDA Soil Survey as Soil Slope Phase "D" (provided the map unit name is inclusive of slopes greater than 25%), or Soil Slope Phase "E" or "F" (regardless of the map unit name), or a combination of the three designations.

- 8. Construction activities that have the potential to affect an historic property, unless there is documentation that such impacts have been resolved. The following documentation necessary to demonstrate eligibility with this requirement shall be maintained on site in accordance with Part II.D.2 of this permit and made available to the Department in accordance with Part VII.F of this permit:
  - a. Documentation that the *construction activity* is not within an archeologically sensitive area indicated on the sensitivity map, and that the *construction activity* is not located on or immediately adjacent to a property listed or determined to be eligible for listing on the National or State Registers of Historic Places, and that there is no new permanent building on the *construction site* within the following distances from a building, structure, or object that is more than 50 years old, or if there is such a new permanent building on the *construction site* within those parameters that NYS Office of Parks, Recreation and Historic Preservation (OPRHP), a Historic Preservation Commission of a Certified Local Government, or a qualified preservation professional has determined that the building, structure, or object more than 50 years old is not historically/archeologically significant.
    - 1-5 acres of disturbance 20 feet
    - 5-20 acres of disturbance 50 feet
    - 20+ acres of disturbance 100 feet, or
  - b. DEC consultation form sent to OPRHP, and copied to the NYS DEC Agency Historic Preservation Officer (APO), and
    - the State Environmental Quality Review (SEQR) Environmental Assessment Form (EAF) with a negative declaration or the Findings Statement, with documentation of OPRHP's agreement with the resolution; or
    - (ii) documentation from OPRHP that the *construction activity* will result in No Impact; or
    - (iii) documentation from OPRHP providing a determination of No Adverse Impact; or
    - (iv) a Letter of Resolution signed by the owner/operator, OPRHP and the DEC APO which allows for this *construction activity* to be eligible for coverage under the general permit in terms of the State Historic Preservation Act (SHPA); or
  - c. Documentation of satisfactory compliance with Section 106 of the National Historic Preservation Act for a coterminous project area:

- (i) No Affect
- (ii) No Adverse Affect
- (iii) Executed Memorandum of Agreement, or

#### d. Documentation that:

- (i) SHPA Section 14.09 has been completed by NYS DEC or another state agency.
- Discharges from construction activities that are subject to an existing SPDES individual or general permit where a SPDES permit for construction activity has been terminated or denied; or where the owner or operator has failed to renew an expired individual permit.

#### Part II. PERMIT COVERAGE

#### A. How to Obtain Coverage

- 1. An owner or operator of a construction activity that is not subject to the requirements of a regulated, traditional land use control MS4 must first prepare a SWPPP in accordance with all applicable requirements of this permit and then submit a completed Notice of Intent (NOI) to the Department to be authorized to discharge under this permit.
- 2. An owner or operator of a construction activity that is subject to the requirements of a regulated, traditional land use control MS4 must first prepare a SWPPP in accordance with all applicable requirements of this permit and then have the SWPPP reviewed and accepted by the regulated, traditional land use control MS4 prior to submitting the NOI to the Department. The owner or operator shall have the "MS4 SWPPP Acceptance" form signed in accordance with Part VII.H., and then submit that form along with a completed NOI to the Department.
- 3. The requirement for an *owner or operator* to have its SWPPP reviewed and accepted by the *regulated, traditional land use control MS4* prior to submitting the NOI to the Department does not apply to an *owner or operator* that is obtaining permit coverage in accordance with the requirements in Part II.F. (Change of *Owner or Operator*) or where the *owner or operator* of the *construction activity* is the *regulated, traditional land use control MS4*. This exemption does not apply to *construction activities* subject to the New York City Administrative Code.

#### B. Notice of Intent (NOI) Submittal

 Prior to December 21, 2020, an owner or operator shall use either the electronic (eNOI) or paper version of the NOI that the Department prepared. Both versions of the NOI are located on the Department's website (http://www.dec.ny.gov/). The paper version of the NOI shall be signed in accordance with Part VII.H. of this permit and submitted to the following address:

> NOTICE OF INTENT NYS DEC, Bureau of Water Permits 625 Broadway, 4<sup>th</sup> Floor Albany, New York 12233-3505

- 2. Beginning December 21, 2020 and in accordance with EPA's 2015 NPDES Electronic Reporting Rule (40 CFR Part 127), the *owner or operator* must submit the NOI electronically using the *Department's* online NOI.
- 3. The *owner or operator* shall have the SWPPP preparer sign the "SWPPP Preparer Certification" statement on the NOI prior to submitting the form to the Department.
- 4. As of the date the NOI is submitted to the Department, the *owner or operator* shall make the NOI and SWPPP available for review and copying in accordance with the requirements in Part VII.F. of this permit.

#### C. Permit Authorization

- 1. An *owner or operator* shall not *commence construction activity* until their authorization to *discharge* under this permit goes into effect.
- 2. Authorization to *discharge* under this permit will be effective when the *owner or operator* has satisfied <u>all</u> of the following criteria:
  - a. project review pursuant to the State Environmental Quality Review Act ("SEQRA") have been satisfied, when SEQRA is applicable. See the Department's website (<a href="http://www.dec.ny.gov/">http://www.dec.ny.gov/</a>) for more information,
  - b. where required, all necessary Department permits subject to the *Uniform Procedures Act ("UPA")* (see 6 NYCRR Part 621), or the equivalent from another New York State agency, have been obtained, unless otherwise notified by the Department pursuant to 6 NYCRR 621.3(a)(4). *Owners or operators* of *construction activities* that are required to obtain *UPA* permits

must submit a preliminary SWPPP to the appropriate DEC Permit Administrator at the Regional Office listed in Appendix F at the time all other necessary *UPA* permit applications are submitted. The preliminary SWPPP must include sufficient information to demonstrate that the *construction activity* qualifies for authorization under this permit,

- c. the final SWPPP has been prepared, and
- d. a complete NOI has been submitted to the Department in accordance with the requirements of this permit.
- 3. An *owner or operator* that has satisfied the requirements of Part II.C.2 above will be authorized to *discharge* stormwater from their *construction activity* in accordance with the following schedule:
  - a. For construction activities that are <u>not</u> subject to the requirements of a regulated, traditional land use control MS4:
    - (i) Five (5) business days from the date the Department receives a complete electronic version of the NOI (eNOI) for construction activities with a SWPPP that has been prepared in conformance with the design criteria in the technical standard referenced in Part III.B.1 and the performance criteria in the technical standard referenced in Parts III.B., 2 or 3, for construction activities that require post-construction stormwater management practices pursuant to Part III.C.; or
    - (ii) Sixty (60) business days from the date the Department receives a complete NOI (electronic or paper version) for construction activities with a SWPPP that has <u>not</u> been prepared in conformance with the design criteria in technical standard referenced in Part III.B.1. or, for construction activities that require post-construction stormwater management practices pursuant to Part III.C., the *performance criteria* in the technical standard referenced in Parts III.B., 2 or 3, or;
    - (iii) Ten (10) business days from the date the Department receives a complete paper version of the NOI for construction activities with a SWPPP that has been prepared in conformance with the design criteria in the technical standard referenced in Part III.B.1 and the performance criteria in the technical standard referenced in Parts III.B., 2 or 3, for construction activities that require post-construction stormwater management practices pursuant to Part III.C.

- b. For *construction activities* that are subject to the requirements of a regulated, traditional land use control MS4:
  - Five (5) business days from the date the Department receives both a complete electronic version of the NOI (eNOI) and signed "MS4 SWPPP Acceptance" form, or
  - (ii) Ten (10) business days from the date the Department receives both a complete paper version of the NOI and signed "MS4 SWPPP Acceptance" form.
- 4. Coverage under this permit authorizes stormwater discharges from only those areas of disturbance that are identified in the NOI. If an owner or operator wishes to have stormwater discharges from future or additional areas of disturbance authorized, they must submit a new NOI that addresses that phase of the development, unless otherwise notified by the Department. The owner or operator shall not commence construction activity on the future or additional areas until their authorization to discharge under this permit goes into effect in accordance with Part II.C. of this permit.

#### D. General Requirements For Owners or Operators With Permit Coverage

- 1. The *owner or operator* shall ensure that the provisions of the SWPPP are implemented from the *commencement of construction activity* until all areas of disturbance have achieved *final stabilization* and the Notice of Termination ("NOT") has been submitted to the Department in accordance with Part V. of this permit. This includes any changes made to the SWPPP pursuant to Part III.A.4. of this permit.
- 2. The owner or operator shall maintain a copy of the General Permit (GP-0-20-001), NOI, NOI Acknowledgment Letter, SWPPP, MS4 SWPPP Acceptance form, inspection reports, responsible contractor's or subcontractor's certification statement (see Part III.A.6.), and all documentation necessary to demonstrate eligibility with this permit at the construction site until all disturbed areas have achieved final stabilization and the NOT has been submitted to the Department. The documents must be maintained in a secure location, such as a job trailer, on-site construction office, or mailbox with lock. The secure location must be accessible during normal business hours to an individual performing a compliance inspection.
- 3. The *owner or operator* of a *construction activity* shall not disturb greater than five (5) acres of soil at any one time without prior written authorization from the Department or, in areas under the jurisdiction of a *regulated, traditional land*

use control MS4, the regulated, traditional land use control MS4 (provided the regulated, traditional land use control MS4 is not the owner or operator of the construction activity). At a minimum, the owner or operator must comply with the following requirements in order to be authorized to disturb greater than five (5) acres of soil at any one time:

- a. The owner or operator shall have a qualified inspector conduct at least two (2) site inspections in accordance with Part IV.C. of this permit every seven (7) calendar days, for as long as greater than five (5) acres of soil remain disturbed. The two (2) inspections shall be separated by a minimum of two (2) full calendar days.
- b. In areas where soil disturbance activity has temporarily or permanently ceased, the application of soil stabilization measures must be initiated by the end of the next business day and completed within seven (7) days from the date the current soil disturbance activity ceased. The soil stabilization measures selected shall be in conformance with the technical standard, New York State Standards and Specifications for Erosion and Sediment Control, dated November 2016.
- c. The *owner or operator* shall prepare a phasing plan that defines maximum disturbed area per phase and shows required cuts and fills.
- d. The *owner or operator* shall install any additional site-specific practices needed to protect water quality.
- e. The *owner or operator* shall include the requirements above in their SWPPP.
- 4. In accordance with statute, regulations, and the terms and conditions of this permit, the Department may suspend or revoke an *owner's or operator's* coverage under this permit at any time if the Department determines that the SWPPP does not meet the permit requirements or consistent with Part VII.K..
- 5. Upon a finding of significant non-compliance with the practices described in the SWPPP or violation of this permit, the Department may order an immediate stop to all activity at the site until the non-compliance is remedied. The stop work order shall be in writing, describe the non-compliance in detail, and be sent to the *owner or operator*.
- 6. For construction activities that are subject to the requirements of a regulated, traditional land use control MS4, the owner or operator shall notify the

regulated, traditional land use control MS4 in writing of any planned amendments or modifications to the post-construction stormwater management practice component of the SWPPP required by Part III.A. 4. and 5. of this permit. Unless otherwise notified by the regulated, traditional land use control MS4, the owner or operator shall have the SWPPP amendments or modifications reviewed and accepted by the regulated, traditional land use control MS4 prior to commencing construction of the post-construction stormwater management practice.

# E. Permit Coverage for Discharges Authorized Under GP-0-15-002

1. Upon renewal of SPDES General Permit for Stormwater Discharges from Construction Activity (Permit No. GP-0-15-002), an owner or operator of a construction activity with coverage under GP-0-15-002, as of the effective date of GP- 0-20-001, shall be authorized to discharge in accordance with GP- 0-20-001, unless otherwise notified by the Department.

An *owner or operator* may continue to implement the technical/design components of the post-construction stormwater management controls provided that such design was done in conformance with the technical standards in place at the time of initial project authorization. However, they must comply with the other, non-design provisions of GP-0-20-001.

# F. Change of Owner or Operator

- 1. When property ownership changes or when there is a change in operational control over the construction plans and specifications, the original *owner or operator* must notify the new *owner or operator*, in writing, of the requirement to obtain permit coverage by submitting a NOI with the Department. For *construction activities* subject to the requirements of a *regulated, traditional land use control MS4*, the original *owner or operator* must also notify the MS4, in writing, of the change in ownership at least 30 calendar days prior to the change in ownership.
- 2. Once the new *owner or operator* obtains permit coverage, the original *owner or operator* shall then submit a completed NOT with the name and permit identification number of the new *owner or operator* to the Department at the address in Part II.B.1. of this permit. If the original *owner or operator* maintains ownership of a portion of the *construction activity* and will disturb soil, they must maintain their coverage under the permit.
- 3. Permit coverage for the new *owner or operator* will be effective as of the date the Department receives a complete NOI, provided the original *owner or*

operator was not subject to a sixty (60) business day authorization period that has not expired as of the date the Department receives the NOI from the new owner or operator.

# Part III. STORMWATER POLLUTION PREVENTION PLAN (SWPPP)

#### A. General SWPPP Requirements

- 1. A SWPPP shall be prepared and implemented by the owner or operator of each construction activity covered by this permit. The SWPPP must document the selection, design, installation, implementation and maintenance of the control measures and practices that will be used to meet the effluent limitations in Part I.B. of this permit and where applicable, the post-construction stormwater management practice requirements in Part I.C. of this permit. The SWPPP shall be prepared prior to the submittal of the NOI. The NOI shall be submitted to the Department prior to the commencement of construction activity. A copy of the completed, final NOI shall be included in the SWPPP.
- 2. The SWPPP shall describe the erosion and sediment control practices and where required, post-construction stormwater management practices that will be used and/or constructed to reduce the *pollutants* in stormwater *discharges* and to assure compliance with the terms and conditions of this permit. In addition, the SWPPP shall identify potential sources of pollution which may reasonably be expected to affect the quality of stormwater *discharges*.
- All SWPPs that require the post-construction stormwater management practice component shall be prepared by a *qualified professional* that is knowledgeable in the principles and practices of stormwater management and treatment.
- 4. The owner or operator must keep the SWPPP current so that it at all times accurately documents the erosion and sediment controls practices that are being used or will be used during construction, and all post-construction stormwater management practices that will be constructed on the site. At a minimum, the owner or operator shall amend the SWPPP, including construction drawings:
  - a. whenever the current provisions prove to be ineffective in minimizing *pollutants* in stormwater *discharges* from the site;

- b. whenever there is a change in design, construction, or operation at the construction site that has or could have an effect on the discharge of pollutants;
- c. to address issues or deficiencies identified during an inspection by the *qualified inspector*, the Department or other regulatory authority; and
- d. to document the final construction conditions.
- 5. The Department may notify the *owner or operator* at any time that the SWPPP does not meet one or more of the minimum requirements of this permit. The notification shall be in writing and identify the provisions of the SWPPP that require modification. Within fourteen (14) calendar days of such notification, or as otherwise indicated by the Department, the *owner or operator* shall make the required changes to the SWPPP and submit written notification to the Department that the changes have been made. If the *owner or operator* does not respond to the Department's comments in the specified time frame, the Department may suspend the *owner's or operator's* coverage under this permit or require the *owner or operator* to obtain coverage under an individual SPDES permit in accordance with Part II.D.4. of this permit.
- 6. Prior to the commencement of construction activity, the owner or operator must identify the contractor(s) and subcontractor(s) that will be responsible for installing, constructing, repairing, replacing, inspecting and maintaining the erosion and sediment control practices included in the SWPPP; and the contractor(s) and subcontractor(s) that will be responsible for constructing the post-construction stormwater management practices included in the SWPPP. The owner or operator shall have each of the contractors and subcontractors identify at least one person from their company that will be responsible for implementation of the SWPPP. This person shall be known as the trained contractor. The owner or operator shall ensure that at least one trained contractor is on site on a daily basis when soil disturbance activities are being performed.

The *owner or operator* shall have each of the contractors and subcontractors identified above sign a copy of the following certification statement below before they commence any *construction activity*:

"I hereby certify under penalty of law that I understand and agree to comply with the terms and conditions of the SWPPP and agree to implement any corrective actions identified by the *qualified inspector* during a site inspection. I also understand that the *owner or operator* must comply with

the terms and conditions of the most current version of the New York State Pollutant Discharge Elimination System ("SPDES") general permit for stormwater *discharges* from *construction activities* and that it is unlawful for any person to cause or contribute to a violation of *water quality standards*. Furthermore, I am aware that there are significant penalties for submitting false information, that I do not believe to be true, including the possibility of fine and imprisonment for knowing violations"

In addition to providing the certification statement above, the certification page must also identify the specific elements of the SWPPP that each contractor and subcontractor will be responsible for and include the name and title of the person providing the signature; the name and title of the *trained contractor* responsible for SWPPP implementation; the name, address and telephone number of the contracting firm; the address (or other identifying description) of the site; and the date the certification statement is signed. The *owner or operator* shall attach the certification statement(s) to the copy of the SWPPP that is maintained at the *construction site*. If new or additional contractors are hired to implement measures identified in the SWPPP after construction has commenced, they must also sign the certification statement and provide the information listed above.

7. For projects where the Department requests a copy of the SWPPP or inspection reports, the *owner or operator* shall submit the documents in both electronic (PDF only) and paper format within five (5) business days, unless otherwise notified by the Department.

#### **B. Required SWPPP Contents**

- 1. Erosion and sediment control component All SWPPPs prepared pursuant to this permit shall include erosion and sediment control practices designed in conformance with the technical standard, New York State Standards and Specifications for Erosion and Sediment Control, dated November 2016. Where erosion and sediment control practices are not designed in conformance with the design criteria included in the technical standard, the *owner or operator* must demonstrate *equivalence* to the technical standard. At a minimum, the erosion and sediment control component of the SWPPP shall include the following:
  - a. Background information about the scope of the project, including the location, type and size of project

- b. A site map/construction drawing(s) for the project, including a general location map. At a minimum, the site map shall show the total site area; all improvements; areas of disturbance; areas that will not be disturbed; existing vegetation; on-site and adjacent off-site surface water(s); floodplain/floodway boundaries; wetlands and drainage patterns that could be affected by the *construction activity*; existing and final contours; locations of different soil types with boundaries; material, waste, borrow or equipment storage areas located on adjacent properties; and location(s) of the stormwater *discharge*(s);
- c. A description of the soil(s) present at the site, including an identification of the Hydrologic Soil Group (HSG);
- d. A construction phasing plan and sequence of operations describing the intended order of *construction activities*, including clearing and grubbing, excavation and grading, utility and infrastructure installation and any other activity at the site that results in soil disturbance;
- e. A description of the minimum erosion and sediment control practices to be installed or implemented for each construction activity that will result in soil disturbance. Include a schedule that identifies the timing of initial placement or implementation of each erosion and sediment control practice and the minimum time frames that each practice should remain in place or be implemented;
- f. A temporary and permanent soil stabilization plan that meets the requirements of this general permit and the technical standard, New York State Standards and Specifications for Erosion and Sediment Control, dated November 2016, for each stage of the project, including initial land clearing and grubbing to project completion and achievement of *final stabilization*;
- g. A site map/construction drawing(s) showing the specific location(s), size(s), and length(s) of each erosion and sediment control practice;
- h. The dimensions, material specifications, installation details, and operation and maintenance requirements for all erosion and sediment control practices. Include the location and sizing of any temporary sediment basins and structural practices that will be used to divert flows from exposed soils;
- i. A maintenance inspection schedule for the contractor(s) identified in Part III.A.6. of this permit, to ensure continuous and effective operation of the erosion and sediment control practices. The maintenance inspection

schedule shall be in accordance with the requirements in the technical standard, New York State Standards and Specifications for Erosion and Sediment Control, dated November 2016;

- j. A description of the pollution prevention measures that will be used to control litter, construction chemicals and construction debris from becoming a *pollutant* source in the stormwater *discharges*;
- k. A description and location of any stormwater *discharges* associated with industrial activity other than construction at the site, including, but not limited to, stormwater *discharges* from asphalt plants and concrete plants located on the *construction site*; and
- Identification of any elements of the design that are not in conformance with the design criteria in the technical standard, New York State Standards and Specifications for Erosion and Sediment Control, dated November 2016. Include the reason for the deviation or alternative design and provide information which demonstrates that the deviation or alternative design is equivalent to the technical standard.
- 2. Post-construction stormwater management practice component The owner or operator of any construction project identified in Table 2 of Appendix B as needing post-construction stormwater management practices shall prepare a SWPPP that includes practices designed in conformance with the applicable sizing criteria in Part I.C.2.a., c. or d. of this permit and the performance criteria in the technical standard, New York State Stormwater Management Design Manual dated January 2015

Where post-construction stormwater management practices are not designed in conformance with the *performance criteria* in the technical standard, the *owner or operator* must include in the SWPPP the reason(s) for the deviation or alternative design and provide information which demonstrates that the deviation or alternative design is *equivalent* to the technical standard.

The post-construction stormwater management practice component of the SWPPP shall include the following:

 a. Identification of all post-construction stormwater management practices to be constructed as part of the project. Include the dimensions, material specifications and installation details for each post-construction stormwater management practice;

- b. A site map/construction drawing(s) showing the specific location and size of each post-construction stormwater management practice;
- c. A Stormwater Modeling and Analysis Report that includes:
  - (i) Map(s) showing pre-development conditions, including watershed/subcatchments boundaries, flow paths/routing, and design points;
  - (ii) Map(s) showing post-development conditions, including watershed/subcatchments boundaries, flow paths/routing, design points and post-construction stormwater management practices;
  - (iii) Results of stormwater modeling (i.e. hydrology and hydraulic analysis) for the required storm events. Include supporting calculations (model runs), methodology, and a summary table that compares pre and post-development runoff rates and volumes for the different storm events;
  - (iv) Summary table, with supporting calculations, which demonstrates that each post-construction stormwater management practice has been designed in conformance with the *sizing criteria* included in the Design Manual;
  - (v) Identification of any *sizing criteria* that is not required based on the requirements included in Part I.C. of this permit; and
  - (vi) Identification of any elements of the design that are not in conformance with the performance criteria in the Design Manual. Include the reason(s) for the deviation or alternative design and provide information which demonstrates that the deviation or alternative design is equivalent to the Design Manual;
- d. Soil testing results and locations (test pits, borings);
- e. Infiltration test results, when required; and
- f. An operations and maintenance plan that includes inspection and maintenance schedules and actions to ensure continuous and effective operation of each post-construction stormwater management practice. The plan shall identify the entity that will be responsible for the long term operation and maintenance of each practice.

3. Enhanced Phosphorus Removal Standards - All construction projects identified in Table 2 of Appendix B that are located in the watersheds identified in Appendix C shall prepare a SWPPP that includes post-construction stormwater management practices designed in conformance with the applicable *sizing criteria* in Part I.C.2. b., c. or d. of this permit and the *performance criteria*, Enhanced Phosphorus Removal Standards included in the Design Manual. At a minimum, the post-construction stormwater management practice component of the SWPPP shall include items 2.a - 2.f. above.

#### C. Required SWPPP Components by Project Type

Unless otherwise notified by the Department, owners or operators of construction activities identified in Table 1 of Appendix B are required to prepare a SWPPP that only includes erosion and sediment control practices designed in conformance with Part III.B.1 of this permit. Owners or operators of the construction activities identified in Table 2 of Appendix B shall prepare a SWPPP that also includes post-construction stormwater management practices designed in conformance with Part III.B.2 or 3 of this permit.

#### Part IV. INSPECTION AND MAINTENANCE REQUIREMENTS

## A. General Construction Site Inspection and Maintenance Requirements

- 1. The *owner or operator* must ensure that all erosion and sediment control practices (including pollution prevention measures) and all post-construction stormwater management practices identified in the SWPPP are inspected and maintained in accordance with Part IV.B. and C. of this permit.
- 2. The terms of this permit shall not be construed to prohibit the State of New York from exercising any authority pursuant to the ECL, common law or federal law, or prohibit New York State from taking any measures, whether civil or criminal, to prevent violations of the laws of the State of New York or protect the public health and safety and/or the environment.

#### **B. Contractor Maintenance Inspection Requirements**

1. The owner or operator of each construction activity identified in Tables 1 and 2 of Appendix B shall have a trained contractor inspect the erosion and sediment control practices and pollution prevention measures being implemented within the active work area daily to ensure that they are being maintained in effective operating condition at all times. If deficiencies are identified, the contractor shall

begin implementing corrective actions within one business day and shall complete the corrective actions in a reasonable time frame.

- 2. For construction sites where soil disturbance activities have been temporarily suspended (e.g. winter shutdown) and *temporary stabilization* measures have been applied to all disturbed areas, the *trained contractor* can stop conducting the maintenance inspections. The *trained contractor* shall begin conducting the maintenance inspections in accordance with Part IV.B.1. of this permit as soon as soil disturbance activities resume.
- 3. For construction sites where soil disturbance activities have been shut down with partial project completion, the *trained contractor* can stop conducting the maintenance inspections if all areas disturbed as of the project shutdown date have achieved *final stabilization* and all post-construction stormwater management practices required for the completed portion of the project have been constructed in conformance with the SWPPP and are operational.

#### C. Qualified Inspector Inspection Requirements

The owner or operator shall have a qualified inspector conduct site inspections in conformance with the following requirements:

[Note: The *trained contractor* identified in Part III.A.6. and IV.B. of this permit **cannot** conduct the *qualified inspector* site inspections unless they meet the *qualified inspector* qualifications included in Appendix A. In order to perform these inspections, the *trained contractor* would have to be a:

- licensed Professional Engineer,
- Certified Professional in Erosion and Sediment Control (CPESC),
- New York State Erosion and Sediment Control Certificate Program holder
- Registered Landscape Architect, or
- someone working under the direct supervision of, and at the same company as, the licensed Professional Engineer or Registered Landscape Architect, provided they have received four (4) hours of Department endorsed training in proper erosion and sediment control principles from a Soil and Water Conservation District, or other Department endorsed entity].
- 1. A *qualified inspector* shall conduct site inspections for all *construction activities* identified in Tables 1 and 2 of Appendix B, <u>with the exception of</u>:
  - a. the construction of a single family residential subdivision with 25% or less *impervious cover* at total site build-out that involves a soil disturbance of one (1) or more acres of land but less than five (5) acres and is <u>not</u> located

- in one of the watersheds listed in Appendix C and <u>not</u> directly discharging to one of the 303(d) segments listed in Appendix E;
- b. the construction of a single family home that involves a soil disturbance of one (1) or more acres of land but less than five (5) acres and is <u>not</u> located in one of the watersheds listed in Appendix C and <u>not</u> directly discharging to one of the 303(d) segments listed in Appendix E;
- c. construction on agricultural property that involves a soil disturbance of one (1) or more acres of land but less than five (5) acres; and
- d. construction activities located in the watersheds identified in Appendix D that involve soil disturbances between five thousand (5,000) square feet and one (1) acre of land.
- 2. Unless otherwise notified by the Department, the *qualified inspector* shall conduct site inspections in accordance with the following timetable:
  - a. For construction sites where soil disturbance activities are on-going, the *qualified inspector* shall conduct a site inspection at least once every seven (7) calendar days.
  - b. For construction sites where soil disturbance activities are on-going and the owner or operator has received authorization in accordance with Part II.D.3 to disturb greater than five (5) acres of soil at any one time, the qualified inspector shall conduct at least two (2) site inspections every seven (7) calendar days. The two (2) inspections shall be separated by a minimum of two (2) full calendar days.
  - c. For construction sites where soil disturbance activities have been temporarily suspended (e.g. winter shutdown) and temporary stabilization measures have been applied to all disturbed areas, the qualified inspector shall conduct a site inspection at least once every thirty (30) calendar days. The owner or operator shall notify the DOW Water (SPDES) Program contact at the Regional Office (see contact information in Appendix F) or, in areas under the jurisdiction of a regulated, traditional land use control MS4, the regulated, traditional land use control MS4 (provided the regulated, traditional land use control MS4 is not the owner or operator of the construction activity) in writing prior to reducing the frequency of inspections.

- d. For construction sites where soil disturbance activities have been shut down with partial project completion, the qualified inspector can stop conducting inspections if all areas disturbed as of the project shutdown date have achieved final stabilization and all post-construction stormwater management practices required for the completed portion of the project have been constructed in conformance with the SWPPP and are operational. The owner or operator shall notify the DOW Water (SPDES) Program contact at the Regional Office (see contact information in Appendix F) or, in areas under the jurisdiction of a regulated, traditional land use control MS4, the regulated, traditional land use control MS4 (provided the regulated, traditional land use control MS4 is not the owner or operator of the construction activity) in writing prior to the shutdown. If soil disturbance activities are not resumed within 2 years from the date of shutdown, the owner or operator shall have the qualified inspector perform a final inspection and certify that all disturbed areas have achieved final stabilization, and all temporary, structural erosion and sediment control measures have been removed; and that all post-construction stormwater management practices have been constructed in conformance with the SWPPP by signing the "Final Stabilization" and "Post-Construction Stormwater Management Practice" certification statements on the NOT. The owner or operator shall then submit the completed NOT form to the address in Part II.B.1 of this permit.
- e. For construction sites that directly *discharge* to one of the 303(d) segments listed in Appendix E or is located in one of the watersheds listed in Appendix C, the *qualified inspector* shall conduct at least two (2) site inspections every seven (7) calendar days. The two (2) inspections shall be separated by a minimum of two (2) full calendar days.
- 3. At a minimum, the *qualified inspector* shall inspect all erosion and sediment control practices and pollution prevention measures to ensure integrity and effectiveness, all post-construction stormwater management practices under construction to ensure that they are constructed in conformance with the SWPPP, all areas of disturbance that have not achieved *final stabilization*, all points of *discharge* to natural surface waterbodies located within, or immediately adjacent to, the property boundaries of the *construction site*, and all points of *discharge* from the *construction site*.
- 4. The *qualified inspector* shall prepare an inspection report subsequent to each and every inspection. At a minimum, the inspection report shall include and/or address the following:

- a. Date and time of inspection;
- b. Name and title of person(s) performing inspection;
- c. A description of the weather and soil conditions (e.g. dry, wet, saturated) at the time of the inspection;
- d. A description of the condition of the runoff at all points of *discharge* from the *construction site*. This shall include identification of any *discharges* of sediment from the *construction site*. Include *discharges* from conveyance systems (i.e. pipes, culverts, ditches, etc.) and overland flow;
- e. A description of the condition of all natural surface waterbodies located within, or immediately adjacent to, the property boundaries of the construction site which receive runoff from disturbed areas. This shall include identification of any discharges of sediment to the surface waterbody;
- f. Identification of all erosion and sediment control practices and pollution prevention measures that need repair or maintenance;
- g. Identification of all erosion and sediment control practices and pollution prevention measures that were not installed properly or are not functioning as designed and need to be reinstalled or replaced;
- Description and sketch of areas with active soil disturbance activity, areas that have been disturbed but are inactive at the time of the inspection, and areas that have been stabilized (temporary and/or final) since the last inspection;
- Current phase of construction of all post-construction stormwater management practices and identification of all construction that is not in conformance with the SWPPP and technical standards;
- Corrective action(s) that must be taken to install, repair, replace or maintain erosion and sediment control practices and pollution prevention measures; and to correct deficiencies identified with the construction of the postconstruction stormwater management practice(s);
- k. Identification and status of all corrective actions that were required by previous inspection; and

- I. Digital photographs, with date stamp, that clearly show the condition of all practices that have been identified as needing corrective actions. The *qualified inspector* shall attach paper color copies of the digital photographs to the inspection report being maintained onsite within seven (7) calendar days of the date of the inspection. The *qualified inspector* shall also take digital photographs, with date stamp, that clearly show the condition of the practice(s) after the corrective action has been completed. The *qualified inspector* shall attach paper color copies of the digital photographs to the inspection report that documents the completion of the corrective action work within seven (7) calendar days of that inspection.
- 5. Within one business day of the completion of an inspection, the *qualified inspector* shall notify the *owner or operator* and appropriate contractor or subcontractor identified in Part III.A.6. of this permit of any corrective actions that need to be taken. The contractor or subcontractor shall begin implementing the corrective actions within one business day of this notification and shall complete the corrective actions in a reasonable time frame.
- 6. All inspection reports shall be signed by the *qualified inspector*. Pursuant to Part II.D.2. of this permit, the inspection reports shall be maintained on site with the SWPPP.

#### Part V. TERMINATION OF PERMIT COVERAGE

#### A. Termination of Permit Coverage

- An owner or operator that is eligible to terminate coverage under this permit
  must submit a completed NOT form to the address in Part II.B.1 of this permit.
  The NOT form shall be one which is associated with this permit, signed in
  accordance with Part VII.H of this permit.
- 2. An *owner or operator* may terminate coverage when one or more the following conditions have been met:
  - a. Total project completion All construction activity identified in the SWPPP has been completed; and all areas of disturbance have achieved final stabilization; and all temporary, structural erosion and sediment control measures have been removed; and all post-construction stormwater management practices have been constructed in conformance with the SWPPP and are operational;

- b. Planned shutdown with partial project completion All soil disturbance activities have ceased; <u>and</u> all areas disturbed as of the project shutdown date have achieved *final stabilization*; <u>and</u> all temporary, structural erosion and sediment control measures have been removed; <u>and</u> all post-construction stormwater management practices required for the completed portion of the project have been constructed in conformance with the SWPPP and are operational;
- c. A new *owner or operator* has obtained coverage under this permit in accordance with Part II.F. of this permit.
- d. The *owner or operator* obtains coverage under an alternative SPDES general permit or an individual SPDES permit.
- 3. For construction activities meeting subdivision 2a. or 2b. of this Part, the owner or operator shall have the qualified inspector perform a final site inspection prior to submitting the NOT. The qualified inspector shall, by signing the "Final Stabilization" and "Post-Construction Stormwater Management Practice certification statements on the NOT, certify that all the requirements in Part V.A.2.a. or b. of this permit have been achieved.
- 4. For construction activities that are subject to the requirements of a regulated, traditional land use control MS4 and meet subdivision 2a. or 2b. of this Part, the owner or operator shall have the regulated, traditional land use control MS4 sign the "MS4 Acceptance" statement on the NOT in accordance with the requirements in Part VII.H. of this permit. The regulated, traditional land use control MS4 official, by signing this statement, has determined that it is acceptable for the owner or operator to submit the NOT in accordance with the requirements of this Part. The regulated, traditional land use control MS4 can make this determination by performing a final site inspection themselves or by accepting the qualified inspector's final site inspection certification(s) required in Part V.A.3. of this permit.
- 5. For *construction activities* that require post-construction stormwater management practices and meet subdivision 2a. of this Part, the *owner or operator* must, prior to submitting the NOT, ensure one of the following:
  - a. the post-construction stormwater management practice(s) and any right-ofway(s) needed to maintain such practice(s) have been deeded to the municipality in which the practice(s) is located,

- b. an executed maintenance agreement is in place with the municipality that will maintain the post-construction stormwater management practice(s),
- c. for post-construction stormwater management practices that are privately owned, the *owner or operator* has a mechanism in place that requires operation and maintenance of the practice(s) in accordance with the operation and maintenance plan, such as a deed covenant in the *owner or operator's* deed of record,
- d. for post-construction stormwater management practices that are owned by a public or private institution (e.g. school, university, hospital), government agency or authority, or public utility; the *owner or operator* has policy and procedures in place that ensures operation and maintenance of the practices in accordance with the operation and maintenance plan.

#### Part VI. REPORTING AND RETENTION RECORDS

#### A. Record Retention

The owner or operator shall retain a copy of the NOI, NOI Acknowledgment Letter, SWPPP, MS4 SWPPP Acceptance form and any inspection reports that were prepared in conjunction with this permit for a period of at least five (5) years from the date that the Department receives a complete NOT submitted in accordance with Part V. of this general permit.

#### B. Addresses

With the exception of the NOI, NOT, and MS4 SWPPP Acceptance form (which must be submitted to the address referenced in Part II.B.1 of this permit), all written correspondence requested by the Department, including individual permit applications, shall be sent to the address of the appropriate DOW Water (SPDES) Program contact at the Regional Office listed in Appendix F.

#### Part VII. STANDARD PERMIT CONDITIONS

#### A. Duty to Comply

The owner or operator must comply with all conditions of this permit. All contractors and subcontractors associated with the project must comply with the terms of the SWPPP. Any non-compliance with this permit constitutes a violation of the Clean Water

Act (CWA) and the ECL and is grounds for an enforcement action against the *owner or operator* and/or the contractor/subcontractor; permit revocation, suspension or modification; or denial of a permit renewal application. Upon a finding of significant non-compliance with this permit or the applicable SWPPP, the Department may order an immediate stop to all *construction activity* at the site until the non-compliance is remedied. The stop work order shall be in writing, shall describe the non-compliance in detail, and shall be sent to the *owner or operator*.

If any human remains or archaeological remains are encountered during excavation, the *owner or operator* must immediately cease, or cause to cease, all *construction activity* in the area of the remains and notify the appropriate Regional Water Engineer (RWE). *Construction activity* shall not resume until written permission to do so has been received from the RWE.

#### B. Continuation of the Expired General Permit

This permit expires five (5) years from the effective date. If a new general permit is not issued prior to the expiration of this general permit, an *owner or operator* with coverage under this permit may continue to operate and *discharge* in accordance with the terms and conditions of this general permit, if it is extended pursuant to the State Administrative Procedure Act and 6 NYCRR Part 621, until a new general permit is issued.

#### C. Enforcement

Failure of the *owner or operator*, its contractors, subcontractors, agents and/or assigns to strictly adhere to any of the permit requirements contained herein shall constitute a violation of this permit. There are substantial criminal, civil, and administrative penalties associated with violating the provisions of this permit. Fines of up to \$37,500 per day for each violation and imprisonment for up to fifteen (15) years may be assessed depending upon the nature and degree of the offense.

# D. Need to Halt or Reduce Activity Not a Defense

It shall not be a defense for an *owner or operator* in an enforcement action that it would have been necessary to halt or reduce the *construction activity* in order to maintain compliance with the conditions of this permit.

#### E. Duty to Mitigate

The *owner or operator* and its contractors and subcontractors shall take all reasonable steps to *minimize* or prevent any *discharge* in violation of this permit which has a reasonable likelihood of adversely affecting human health or the environment.

#### F. Duty to Provide Information

The *owner or operator* shall furnish to the Department, within a reasonable specified time period of a written request, all documentation necessary to demonstrate eligibility and any information to determine compliance with this permit or to determine whether cause exists for modifying or revoking this permit, or suspending or denying coverage under this permit, in accordance with the terms and conditions of this permit. The NOI, SWPPP and inspection reports required by this permit are public documents that the *owner or operator* must make available for review and copying by any person within five (5) business days of the *owner or operator* receiving a written request by any such person to review these documents. Copying of documents will be done at the requester's expense.

#### G. Other Information

When the *owner or operator* becomes aware that they failed to submit any relevant facts, or submitted incorrect information in the NOI or in any of the documents required by this permit, or have made substantive revisions to the SWPPP (e.g. the scope of the project changes significantly, the type of post-construction stormwater management practice(s) changes, there is a reduction in the sizing of the post-construction stormwater management practice, or there is an increase in the disturbance area or *impervious area*), which were not reflected in the original NOI submitted to the Department, they shall promptly submit such facts or information to the Department using the contact information in Part II.A. of this permit. Failure of the *owner or operator* to correct or supplement any relevant facts within five (5) business days of becoming aware of the deficiency shall constitute a violation of this permit.

#### H. Signatory Requirements

- 1. All NOIs and NOTs shall be signed as follows:
  - a. For a corporation these forms shall be signed by a responsible corporate officer. For the purpose of this section, a responsible corporate officer means:

- (i) a president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision-making functions for the corporation; or
- (ii) the manager of one or more manufacturing, production or operating facilities, provided the manager is authorized to make management decisions which govern the operation of the regulated facility including having the explicit or implicit duty of making major capital investment recommendations, and initiating and directing other comprehensive measures to assure long term environmental compliance with environmental laws and regulations; the manager can ensure that the necessary systems are established or actions taken to gather complete and accurate information for permit application requirements; and where authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures;
- b. For a partnership or sole proprietorship these forms shall be signed by a general partner or the proprietor, respectively; or
- c. For a municipality, State, Federal, or other public agency these forms shall be signed by either a principal executive officer or ranking elected official. For purposes of this section, a principal executive officer of a Federal agency includes:
  - (i) the chief executive officer of the agency, or
  - (ii) a senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency (e.g., Regional Administrators of EPA).
- 2. The SWPPP and other information requested by the Department shall be signed by a person described in Part VII.H.1. of this permit or by a duly authorized representative of that person. A person is a duly authorized representative only if:
  - a. The authorization is made in writing by a person described in Part VII.H.1. of this permit;
  - b. The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity, such as the position of plant manager, operator of a well or a well field,

superintendent, position of *equivalent* responsibility, or an individual or position having overall responsibility for environmental matters for the company. (A duly authorized representative may thus be either a named individual or any individual occupying a named position) and,

- c. The written authorization shall include the name, title and signature of the authorized representative and be attached to the SWPPP.
- 3. All inspection reports shall be signed by the *qualified inspector* that performs the inspection.
- 4. The MS4 SWPPP Acceptance form shall be signed by the principal executive officer or ranking elected official from the *regulated*, *traditional land use control MS4*, or by a duly authorized representative of that person.

It shall constitute a permit violation if an incorrect and/or improper signatory authorizes any required forms, SWPPP and/or inspection reports.

#### I. Property Rights

The issuance of this permit does not convey any property rights of any sort, nor any exclusive privileges, nor does it authorize any injury to private property nor any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations. *Owners or operators* must obtain any applicable conveyances, easements, licenses and/or access to real property prior to *commencing construction activity*.

# J. Severability

The provisions of this permit are severable, and if any provision of this permit, or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this permit shall not be affected thereby.

# K. Requirement to Obtain Coverage Under an Alternative Permit

1. The Department may require any owner or operator authorized by this permit to apply for and/or obtain either an individual SPDES permit or another SPDES general permit. When the Department requires any discharger authorized by a general permit to apply for an individual SPDES permit, it shall notify the discharger in writing that a permit application is required. This notice shall

include a brief statement of the reasons for this decision, an application form, a statement setting a time frame for the owner or operator to file the application for an individual SPDES permit, and a deadline, not sooner than 180 days from owner or operator receipt of the notification letter, whereby the authorization to discharge under this general permit shall be terminated. Applications must be submitted to the appropriate Permit Administrator at the Regional Office. The Department may grant additional time upon demonstration, to the satisfaction of the Department, that additional time to apply for an alternative authorization is necessary or where the Department has not provided a permit determination in accordance with Part 621 of this Title.

2. When an individual SPDES permit is issued to a discharger authorized to discharge under a general SPDES permit for the same discharge(s), the general permit authorization for outfalls authorized under the individual SPDES permit is automatically terminated on the effective date of the individual permit unless termination is earlier in accordance with 6 NYCRR Part 750.

#### L. Proper Operation and Maintenance

The *owner or operator* shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the *owner or operator* to achieve compliance with the conditions of this permit and with the requirements of the SWPPP.

# M. Inspection and Entry

The *owner or operator* shall allow an authorized representative of the Department, EPA, applicable county health department, or, in the case of a *construction site* which *discharges* through an *MS4*, an authorized representative of the *MS4* receiving the discharge, upon the presentation of credentials and other documents as may be required by law, to:

- 1. Enter upon the owner's or operator's premises where a regulated facility or activity is located or conducted or where records must be kept under the conditions of this permit;
- 2. Have access to and copy at reasonable times, any records that must be kept under the conditions of this permit; and

- 3. Inspect at reasonable times any facilities or equipment (including monitoring and control equipment), practices or operations regulated or required by this permit.
- 4. Sample or monitor at reasonable times, for purposes of assuring permit compliance or as otherwise authorized by the Act or ECL, any substances or parameters at any location.

#### N. Permit Actions

This permit may, at any time, be modified, suspended, revoked, or renewed by the Department in accordance with 6 NYCRR Part 621. The filing of a request by the *owner or operator* for a permit modification, revocation and reissuance, termination, a notification of planned changes or anticipated noncompliance does not limit, diminish and/or stay compliance with any terms of this permit.

#### O. Definitions

Definitions of key terms are included in Appendix A of this permit.

#### P. Re-Opener Clause

- 1. If there is evidence indicating potential or realized impacts on water quality due to any stormwater discharge associated with construction activity covered by this permit, the owner or operator of such discharge may be required to obtain an individual permit or alternative general permit in accordance with Part VII.K. of this permit or the permit may be modified to include different limitations and/or requirements.
- 2. Any Department initiated permit modification, suspension or revocation will be conducted in accordance with 6 NYCRR Part 621, 6 NYCRR 750-1.18, and 6 NYCRR 750-1.20.

# Q. Penalties for Falsification of Forms and Reports

In accordance with 6NYCRR Part 750-2.4 and 750-2.5, any person who knowingly makes any false material statement, representation, or certification in any application, record, report or other document filed or required to be maintained under this permit, including reports of compliance or noncompliance shall, upon conviction, be punished in accordance with ECL §71-1933 and or Articles 175 and 210 of the New York State Penal Law.

### R. Other Permits

Nothing in this permit relieves the *owner or operator* from a requirement to obtain any other permits required by law.

#### **APPENDIX A – Acronyms and Definitions**

### **Acronyms**

APO – Agency Preservation Officer

BMP – Best Management Practice

CPESC - Certified Professional in Erosion and Sediment Control

Cpv - Channel Protection Volume

CWA – Clean Water Act (or the Federal Water Pollution Control Act, 33 U.S.C. §1251 et seq)

DOW - Division of Water

EAF - Environmental Assessment Form

ECL - Environmental Conservation Law

EPA – U. S. Environmental Protection Agency

HSG - Hydrologic Soil Group

MS4 - Municipal Separate Storm Sewer System

NOI - Notice of Intent

NOT – Notice of Termination

NPDES - National Pollutant Discharge Elimination System

OPRHP - Office of Parks, Recreation and Historic Places

Qf - Extreme Flood

Qp - Overbank Flood

RRv - Runoff Reduction Volume

RWE - Regional Water Engineer

SEQR – State Environmental Quality Review

SEQRA - State Environmental Quality Review Act

SHPA - State Historic Preservation Act

SPDES – State Pollutant Discharge Elimination System

SWPPP - Stormwater Pollution Prevention Plan

TMDL - Total Maximum Daily Load

UPA - Uniform Procedures Act

USDA - United States Department of Agriculture

WQv - Water Quality Volume

#### **Definitions**

or as a place used by the public.

All definitions in this section are solely for the purposes of this permit.

Agricultural Building – a structure designed and constructed to house farm implements, hay, grain, poultry, livestock or other horticultural products; excluding any structure designed, constructed or used, in whole or in part, for human habitation, as a place of employment where agricultural products are processed, treated or packaged,

**Agricultural Property** –means the land for construction of a barn, *agricultural building*, silo, stockyard, pen or other structural practices identified in Table II in the "Agricultural Management Practices Catalog for Nonpoint Source Pollution in New York State" prepared by the Department in cooperation with agencies of New York Nonpoint Source Coordinating Committee (dated June 2007).

Alter Hydrology from Pre to Post-Development Conditions - means the post-development peak flow rate(s) has increased by more than 5% of the pre-developed condition for the design storm of interest (e.g. 10 yr and 100 yr).

**Combined Sewer -** means a sewer that is designed to collect and convey both "sewage" and "stormwater".

Commence (Commencement of) Construction Activities - means the initial disturbance of soils associated with clearing, grading or excavation activities; or other construction related activities that disturb or expose soils such as demolition, stockpiling of fill material, and the initial installation of erosion and sediment control practices required in the SWPPP. See definition for "Construction Activity(ies)" also.

**Construction Activity(ies)** - means any clearing, grading, excavation, filling, demolition or stockpiling activities that result in soil disturbance. Clearing activities can include, but are not limited to, logging equipment operation, the cutting and skidding of trees, stump removal and/or brush root removal. Construction activity does not include routine maintenance that is performed to maintain the original line and grade, hydraulic capacity, or original purpose of a facility.

**Construction Site** – means the land area where *construction activity(ies)* will occur. See definition for "Commence (Commencement of) Construction Activities" and "Larger Common Plan of Development or Sale" also.

**Dewatering** – means the act of draining rainwater and/or groundwater from building foundations, vaults or excavations/trenches.

**Direct Discharge (to a specific surface waterbody) -** means that runoff flows from a *construction site* by overland flow and the first point of discharge is the specific surface waterbody, or runoff flows from a *construction site* to a separate storm sewer system

and the first point of discharge from the separate storm sewer system is the specific surface waterbody.

**Discharge(s)** - means any addition of any pollutant to waters of the State through an outlet or *point source*.

Embankment – means an earthen or rock slope that supports a road/highway.

**Endangered or Threatened Species** – see 6 NYCRR Part 182 of the Department's rules and regulations for definition of terms and requirements.

**Environmental Conservation Law (ECL)** - means chapter 43-B of the Consolidated Laws of the State of New York, entitled the Environmental Conservation Law.

**Equivalent (Equivalence)** – means that the practice or measure meets all the performance, longevity, maintenance, and safety objectives of the technical standard and will provide an equal or greater degree of water quality protection.

**Final Stabilization** - means that all soil disturbance activities have ceased and a uniform, perennial vegetative cover with a density of eighty (80) percent over the entire pervious surface has been established; or other equivalent stabilization measures, such as permanent landscape mulches, rock rip-rap or washed/crushed stone have been applied on all disturbed areas that are not covered by permanent structures, concrete or pavement.

**General SPDES permit** - means a SPDES permit issued pursuant to 6 NYCRR Part 750-1.21 and Section 70-0117 of the ECL authorizing a category of discharges.

**Groundwater(s)** - means waters in the saturated zone. The saturated zone is a subsurface zone in which all the interstices are filled with water under pressure greater than that of the atmosphere. Although the zone may contain gas-filled interstices or interstices filled with fluids other than water, it is still considered saturated.

**Historic Property** – means any building, structure, site, object or district that is listed on the State or National Registers of Historic Places or is determined to be eligible for listing on the State or National Registers of Historic Places.

Impervious Area (Cover) - means all impermeable surfaces that cannot effectively infiltrate rainfall. This includes paved, concrete and gravel surfaces (i.e. parking lots, driveways, roads, runways and sidewalks); building rooftops and miscellaneous impermeable structures such as patios, pools, and sheds.

**Infeasible** – means not technologically possible, or not economically practicable and achievable in light of best industry practices.

Larger Common Plan of Development or Sale - means a contiguous area where multiple separate and distinct construction activities are occurring, or will occur, under one plan. The term "plan" in "larger common plan of development or sale" is broadly defined as any announcement or piece of documentation (including a sign, public notice or hearing, marketing plan, advertisement, drawing, permit application, State Environmental Quality Review Act (SEQRA) environmental assessment form or other documents, zoning request, computer design, etc.) or physical demarcation (including boundary signs, lot stakes, surveyor markings, etc.) indicating that construction activities may occur on a specific plot.

For discrete construction projects that are located within a larger common plan of development or sale that are at least 1/4 mile apart, each project can be treated as a separate plan of development or sale provided any interconnecting road, pipeline or utility project that is part of the same "common plan" is not concurrently being disturbed.

**Minimize** – means reduce and/or eliminate to the extent achievable using control measures (including best management practices) that are technologically available and economically practicable and achievable in light of best industry practices.

**Municipal Separate Storm Sewer (MS4)** - a conveyance or system of conveyances (including roads with drainage systems, municipal streets, catch basins, curbs, gutters, ditches, man-made channels, or storm drains):

- (i) Owned or operated by a State, city, town, borough, county, parish, district, association, or other public body (created by or pursuant to State law) having jurisdiction over disposal of sewage, industrial wastes, stormwater, or other wastes, including special districts under State law such as a sewer district, flood control district or drainage district, or similar entity, or an Indian tribe or an authorized Indian tribal organization, or a designated and approved management agency under section 208 of the CWA that discharges to surface waters of the State:
- (ii) Designed or used for collecting or conveying stormwater;
- (iii) Which is not a combined sewer, and
- (iv) Which is not part of a Publicly Owned Treatment Works (POTW) as defined at 40 CFR 122.2.

**National Pollutant Discharge Elimination System (NPDES)** - means the national system for the issuance of wastewater and stormwater permits under the Federal Water Pollution Control Act (Clean Water Act).

**Natural Buffer** –means an undisturbed area with natural cover running along a surface water (e.g. wetland, stream, river, lake, etc.).

**New Development** – means any land disturbance that does not meet the definition of Redevelopment Activity included in this appendix.

New York State Erosion and Sediment Control Certificate Program – a certificate program that establishes and maintains a process to identify and recognize individuals who are capable of developing, designing, inspecting and maintaining erosion and sediment control plans on projects that disturb soils in New York State. The certificate program is administered by the New York State Conservation District Employees Association.

**NOI Acknowledgment Letter** - means the letter that the Department sends to an owner or operator to acknowledge the Department's receipt and acceptance of a complete Notice of Intent. This letter documents the owner's or operator's authorization to discharge in accordance with the general permit for stormwater discharges from *construction activity*.

**Nonpoint Source** - means any source of water pollution or pollutants which is not a discrete conveyance or *point source* permitted pursuant to Title 7 or 8 of Article 17 of the Environmental Conservation Law (see ECL Section 17-1403).

**Overbank** –means flow events that exceed the capacity of the stream channel and spill out into the adjacent floodplain.

**Owner or Operator** - means the person, persons or legal entity which owns or leases the property on which the *construction activity* is occurring; an entity that has operational control over the construction plans and specifications, including the ability to make modifications to the plans and specifications; and/or an entity that has day-to-day operational control of those activities at a project that are necessary to ensure compliance with the permit conditions.

**Performance Criteria** – means the design criteria listed under the "Required Elements" sections in Chapters 5, 6 and 10 of the technical standard, New York State Stormwater Management Design Manual, dated January 2015. It does not include the Sizing Criteria (i.e. WQv, RRv, Cpv, Qp and Qf) in Part I.C.2. of the permit.

**Point Source** - means any discernible, confined and discrete conveyance, including but not limited to any pipe, ditch, channel, tunnel, conduit, well, discrete fissure, container, rolling stock, concentrated animal feeding operation, vessel or other floating craft, or landfill leachate collection system from which *pollutants* are or may be discharged.

**Pollutant** - means dredged spoil, filter backwash, solid waste, incinerator residue, sewage, garbage, sewage sludge, munitions, chemical wastes, biological materials, radioactive materials, heat, wrecked or discarded equipment, rock, sand and industrial, municipal, agricultural waste and ballast discharged into water; which may cause or might reasonably be expected to cause pollution of the waters of the state in contravention of the standards or guidance values adopted as provided in 6 NYCRR Parts 700 et seg.

**Qualified Inspector** - means a person that is knowledgeable in the principles and practices of erosion and sediment control, such as a licensed Professional Engineer, Certified Professional in Erosion and Sediment Control (CPESC), Registered Landscape Architect, New York State Erosion and Sediment Control Certificate Program holder or other Department endorsed individual(s).

It can also mean someone working under the direct supervision of, and at the same company as, the licensed Professional Engineer or Registered Landscape Architect, provided that person has training in the principles and practices of erosion and sediment control. Training in the principles and practices of erosion and sediment control means that the individual working under the direct supervision of the licensed Professional Engineer or Registered Landscape Architect has received four (4) hours of Department endorsed training in proper erosion and sediment control principles from a Soil and Water Conservation District, or other Department endorsed entity. After receiving the initial training, the individual working under the direct supervision of the licensed Professional Engineer or Registered Landscape Architect shall receive four (4) hours of training every three (3) years.

It can also mean a person that meets the *Qualified Professional* qualifications in addition to the *Qualified Inspector* qualifications.

Note: Inspections of any post-construction stormwater management practices that include structural components, such as a dam for an impoundment, shall be performed by a licensed Professional Engineer.

Qualified Professional - means a person that is knowledgeable in the principles and practices of stormwater management and treatment, such as a licensed Professional Engineer, Registered Landscape Architect or other Department endorsed individual(s). Individuals preparing SWPPPs that require the post-construction stormwater management practice component must have an understanding of the principles of hydrology, water quality management practice design, water quantity control design, and, in many cases, the principles of hydraulics. All components of the SWPPP that involve the practice of engineering, as defined by the NYS Education Law (see Article 145), shall be prepared by, or under the direct supervision of, a professional engineer licensed to practice in the State of New York.

**Redevelopment Activity(ies)** – means the disturbance and reconstruction of existing impervious area, including impervious areas that were removed from a project site within five (5) years of preliminary project plan submission to the local government (i.e. site plan, subdivision, etc.).

Regulated, Traditional Land Use Control MS4 - means a city, town or village with land use control authority that is authorized to discharge under New York State DEC's

SPDES General Permit For Stormwater Discharges from Municipal Separate Stormwater Sewer Systems (MS4s) or the City of New York's Individual SPDES Permit for their Municipal Separate Storm Sewer Systems (NY-0287890).

**Routine Maintenance Activity -** means *construction activity* that is performed to maintain the original line and grade, hydraulic capacity, or original purpose of a facility, including, but not limited to:

- Re-grading of gravel roads or parking lots,
- Cleaning and shaping of existing roadside ditches and culverts that maintains the approximate original line and grade, and hydraulic capacity of the ditch,
- Cleaning and shaping of existing roadside ditches that does not maintain the approximate original grade, hydraulic capacity and purpose of the ditch if the changes to the line and grade, hydraulic capacity or purpose of the ditch are installed to improve water quality and quantity controls (e.g. installing grass lined ditch),
- Placement of aggregate shoulder backing that stabilizes the transition between the road shoulder and the ditch or embankment,
- Full depth milling and filling of existing asphalt pavements, replacement of concrete pavement slabs, and similar work that does not expose soil or disturb the bottom six (6) inches of subbase material,
- Long-term use of equipment storage areas at or near highway maintenance facilities.
- Removal of sediment from the edge of the highway to restore a previously existing sheet-flow drainage connection from the highway surface to the highway ditch or *embankment*,
- Existing use of Canal Corp owned upland disposal sites for the canal, and
- Replacement of curbs, gutters, sidewalks and guide rail posts.

**Site limitations** – means site conditions that prevent the use of an infiltration technique and or infiltration of the total WQv. Typical site limitations include: seasonal high groundwater, shallow depth to bedrock, and soils with an infiltration rate less than 0.5 inches/hour. The existence of site limitations shall be confirmed and documented using actual field testing (i.e. test pits, soil borings, and infiltration test) or using information from the most current United States Department of Agriculture (USDA) Soil Survey for the County where the project is located.

**Sizing Criteria** – means the criteria included in Part I.C.2 of the permit that are used to size post-construction stormwater management control practices. The criteria include; Water Quality Volume (WQv), Runoff Reduction Volume (RRv), Channel Protection Volume (Cpv), *Overbank* Flood (Qp), and Extreme Flood (Qf).

**State Pollutant Discharge Elimination System (SPDES)** - means the system established pursuant to Article 17 of the ECL and 6 NYCRR Part 750 for issuance of permits authorizing discharges to the waters of the state.

**Steep Slope** – means land area designated on the current United States Department of Agriculture ("USDA") Soil Survey as Soil Slope Phase "D", (provided the map unit name is inclusive of slopes greater than 25%), or Soil Slope Phase E or F, (regardless of the map unit name), or a combination of the three designations.

**Streambank** – as used in this permit, means the terrain alongside the bed of a creek or stream. The bank consists of the sides of the channel, between which the flow is confined.

**Stormwater Pollution Prevention Plan (SWPPP)** – means a project specific report, including construction drawings, that among other things: describes the construction activity(ies), identifies the potential sources of pollution at the *construction site*; describes and shows the stormwater controls that will be used to control the pollutants (i.e. erosion and sediment controls; for many projects, includes post-construction stormwater management controls); and identifies procedures the *owner or operator* will implement to comply with the terms and conditions of the permit. See Part III of the permit for a complete description of the information that must be included in the SWPPP.

**Surface Waters of the State** - shall be construed to include lakes, bays, sounds, ponds, impounding reservoirs, springs, rivers, streams, creeks, estuaries, marshes, inlets, canals, the Atlantic ocean within the territorial seas of the state of New York and all other bodies of surface water, natural or artificial, inland or coastal, fresh or salt, public or private (except those private waters that do not combine or effect a junction with natural surface waters), which are wholly or partially within or bordering the state or within its jurisdiction. Waters of the state are further defined in 6 NYCRR Parts 800 to 941.

**Temporarily Ceased** – means that an existing disturbed area will not be disturbed again within 14 calendar days of the previous soil disturbance.

**Temporary Stabilization** - means that exposed soil has been covered with material(s) as set forth in the technical standard, New York Standards and Specifications for Erosion and Sediment Control, to prevent the exposed soil from eroding. The materials can include, but are not limited to, mulch, seed and mulch, and erosion control mats (e.g. jute twisted yarn, excelsior wood fiber mats).

**Total Maximum Daily Loads** (TMDLs) - A TMDL is the sum of the allowable loads of a single pollutant from all contributing point and *nonpoint sources*. It is a calculation of the maximum amount of a pollutant that a waterbody can receive on a daily basis and still meet *water quality standards*, and an allocation of that amount to the pollutant's sources. A TMDL stipulates wasteload allocations (WLAs) for *point source* discharges, load allocations (LAs) for *nonpoint sources*, and a margin of safety (MOS).

**Trained Contractor** - means an employee from the contracting (construction) company, identified in Part III.A.6., that has received four (4) hours of Department endorsed

training in proper erosion and sediment control principles from a Soil and Water Conservation District, or other Department endorsed entity. After receiving the initial training, the *trained contractor* shall receive four (4) hours of training every three (3) years.

It can also mean an employee from the contracting (construction) company, identified in Part III.A.6., that meets the *qualified inspector* qualifications (e.g. licensed Professional Engineer, Certified Professional in Erosion and Sediment Control (CPESC), Registered Landscape Architect, New York State Erosion and Sediment Control Certificate Program holder, or someone working under the direct supervision of, and at the same company as, the licensed Professional Engineer or Registered Landscape Architect, provided they have received four (4) hours of Department endorsed training in proper erosion and sediment control principles from a Soil and Water Conservation District, or other Department endorsed entity).

The trained contractor is responsible for the day to day implementation of the SWPPP.

**Uniform Procedures Act (UPA) Permit** - means a permit required under 6 NYCRR Part 621 of the Environmental Conservation Law (ECL), Article 70.

**Water Quality Standard** - means such measures of purity or quality for any waters in relation to their reasonable and necessary use as promulgated in 6 NYCRR Part 700 et seq.

#### APPENDIX B – Required SWPPP Components by Project Type

# Table 1 Construction Activities that Require the Preparation of a SWPPP That Only Includes Erosion and Sediment Controls

The following construction activities that involve soil disturbances of one (1) or more acres of land, but less than five (5) acres:

- Single family home <u>not</u> located in one of the watersheds listed in Appendix C or <u>not</u> directly discharging to one of the 303(d) segments listed in Appendix E
- Single family residential subdivisions with 25% or less impervious cover at total site build-out and not located in one of the watersheds listed in Appendix C and not directly discharging to one of the 303(d) segments listed in Appendix E
- Construction of a barn or other agricultural building, silo, stock yard or pen.

The following construction activities that involve soil disturbances between five thousand (5000) square feet and one (1) acre of land:

All construction activities located in the watersheds identified in Appendix D that involve soil disturbances between five thousand (5,000) square feet and one (1) acre of land.

# The following construction activities that involve soil disturbances of one (1) or more acres of land:

- Installation of underground, linear utilities; such as gas lines, fiber-optic cable, cable TV, electric, telephone, sewer mains, and water mains
- Environmental enhancement projects, such as wetland mitigation projects, stormwater retrofits and stream restoration projects
- Pond construction
- Linear bike paths running through areas with vegetative cover, including bike paths surfaced with an impervious cover
- Cross-country ski trails and walking/hiking trails
- Sidewalk, bike path or walking path projects, surfaced with an impervious cover, that are not part of residential, commercial or institutional development;
- Sidewalk, bike path or walking path projects, surfaced with an impervious cover, that include incidental shoulder or curb work along an existing highway to support construction of the sidewalk, bike path or walking path.
- · Slope stabilization projects
- Slope flattening that changes the grade of the site, but does not significantly change the runoff characteristics

# Table 1 (Continued) Construction Activities that Require the Preparation of a SWPPP

#### THAT ONLY INCLUDES EROSION AND SEDIMENT CONTROLS

The following construction activities that involve soil disturbances of one (1) or more acres of land:

- · Spoil areas that will be covered with vegetation
- Vegetated open space projects (i.e. recreational parks, lawns, meadows, fields, downhill ski trails) excluding projects that alter hydrology from pre to post development conditions,
- Athletic fields (natural grass) that do not include the construction or reconstruction of *impervious* area and do not alter hydrology from pre to post development conditions
- · Demolition project where vegetation will be established, and no redevelopment is planned
- Overhead electric transmission line project that does not include the construction of permanent access roads or parking areas surfaced with *impervious cover*
- Structural practices as identified in Table II in the "Agricultural Management Practices Catalog for Nonpoint Source Pollution in New York State", excluding projects that involve soil disturbances of greater than five acres and construction activities that include the construction or reconstruction of impervious area
- Temporary access roads, median crossovers, detour roads, lanes, or other temporary impervious
  areas that will be restored to pre-construction conditions once the construction activity is complete

#### Table 2

# CONSTRUCTION ACTIVITIES THAT REQUIRE THE PREPARATION OF A SWPPP THAT INCLUDES POST-CONSTRUCTION STORMWATER MANAGEMENT PRACTICES

## The following construction activities that involve soil disturbances of one (1) or more acres of land:

- Single family home located in one of the watersheds listed in Appendix C or *directly discharging* to one of the 303(d) segments listed in Appendix E
- · Single family home that disturbs five (5) or more acres of land
- Single family residential subdivisions located in one of the watersheds listed in Appendix C or directly discharging to one of the 303(d) segments listed in Appendix E
- Single family residential subdivisions that involve soil disturbances of between one (1) and five (5) acres of land with greater than 25% impervious cover at total site build-out
- Single family residential subdivisions that involve soil disturbances of five (5) or more acres of land, and single family residential subdivisions that involve soil disturbances of less than five (5) acres that are part of a larger common plan of development or sale that will ultimately disturb five or more acres of land
- Multi-family residential developments; includes duplexes, townhomes, condominiums, senior housing complexes, apartment complexes, and mobile home parks
- Airports
- · Amusement parks
- · Breweries, cideries, and wineries, including establishments constructed on agricultural land
- Campgrounds
- Cemeteries that include the construction or reconstruction of impervious area (>5% of disturbed area) or alter the hydrology from pre to post development conditions
- Commercial developments
- · Churches and other places of worship
- Construction of a barn or other agricultural building (e.g. silo) and structural practices as identified in Table II in the "Agricultural Management Practices Catalog for Nonpoint Source Pollution in New York State" that include the construction or reconstruction of *impervious area*, excluding projects that involve soil disturbances of less than five acres.
- · Golf courses
- Institutional development; includes hospitals, prisons, schools and colleges
- · Industrial facilities; includes industrial parks
- Landfills
- Municipal facilities; includes highway garages, transfer stations, office buildings, POTW's, water treatment plants, and water storage tanks
- Office complexes
- · Playgrounds that include the construction or reconstruction of impervious area
- · Sports complexes
- Racetracks; includes racetracks with earthen (dirt) surface
- Road construction or reconstruction, including roads constructed as part of the construction activities listed in Table 1

#### Table 2 (Continued)

# CONSTRUCTION ACTIVITIES THAT REQUIRE THE PREPARATION OF A SWPPP THAT INCLUDES POST-CONSTRUCTION STORMWATER MANAGEMENT PRACTICES

The following construction activities that involve soil disturbances of one (1) or more acres of land:

- Parking lot construction or reconstruction, including parking lots constructed as part of the construction activities listed in Table 1
- Athletic fields (natural grass) that include the construction or reconstruction of impervious area (>5% of disturbed area) or alter the hydrology from pre to post development conditions
- · Athletic fields with artificial turf
- Permanent access roads, parking areas, substations, compressor stations and well drilling pads, surfaced with *impervious cover*, and constructed as part of an over-head electric transmission line project, wind-power project, cell tower project, oil or gas well drilling project, sewer or water main project or other linear utility project
- Sidewalk, bike path or walking path projects, surfaced with an impervious cover, that are part of a residential, commercial or institutional development
- Sidewalk, bike path or walking path projects, surfaced with an impervious cover, that are part of a highway construction or reconstruction project
- All other construction activities that include the construction or reconstruction of *impervious area* or alter the hydrology from pre to post development conditions, and are not listed in Table 1

#### APPENDIX C – Watersheds Requiring Enhanced Phosphorus Removal

Watersheds where *owners or operators* of construction activities identified in Table 2 of Appendix B must prepare a SWPPP that includes post-construction stormwater management practices designed in conformance with the Enhanced Phosphorus Removal Standards included in the technical standard, New York State Stormwater Management Design Manual ("Design Manual").

- Entire New York City Watershed located east of the Hudson River Figure 1
- Onondaga Lake Watershed Figure 2
- Greenwood Lake Watershed -Figure 3
- Oscawana Lake Watershed Figure 4
- Kinderhook Lake Watershed Figure 5

Figure 1 - New York City Watershed East of the Hudson

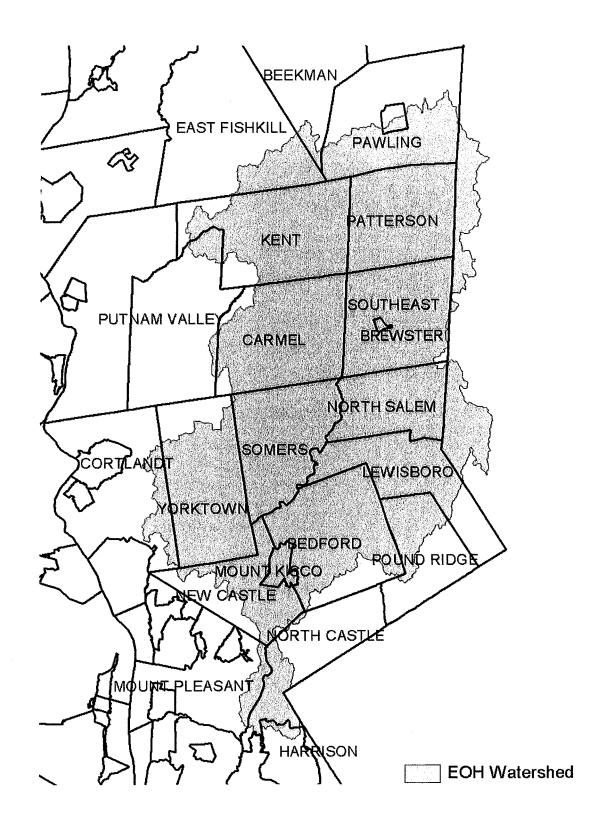


Figure 2 - Onondaga Lake Watershed

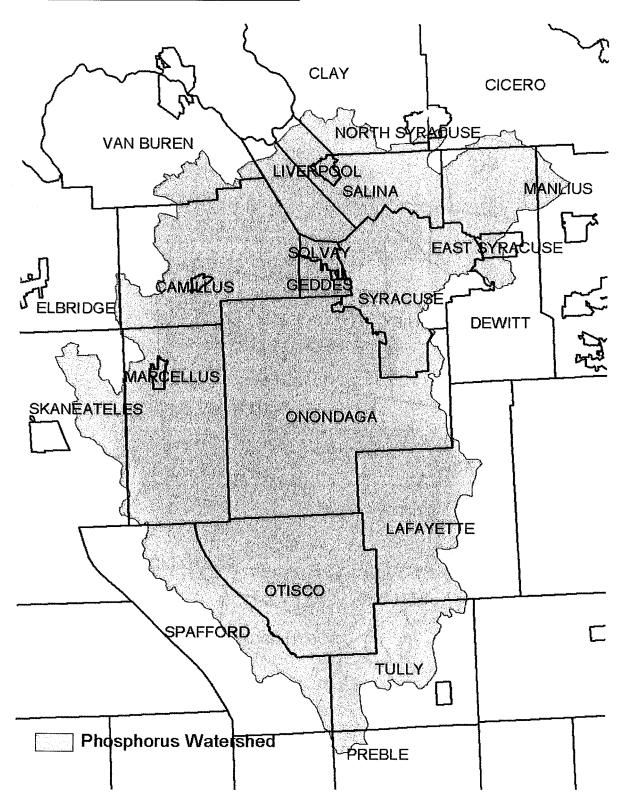


Figure 3 - Greenwood Lake Watershed

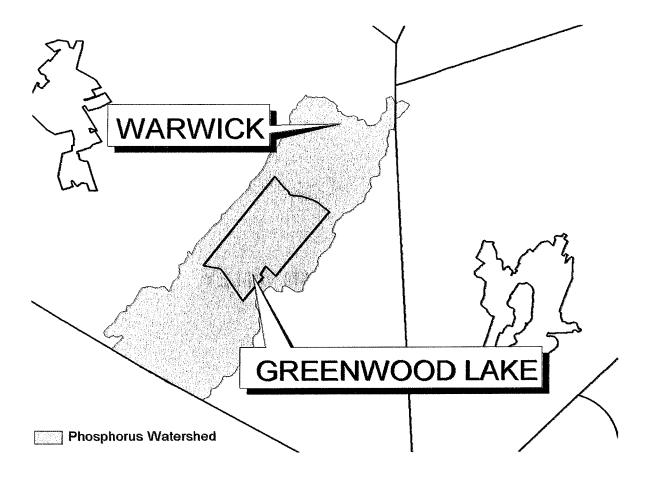


Figure 4 - Oscawana Lake Watershed

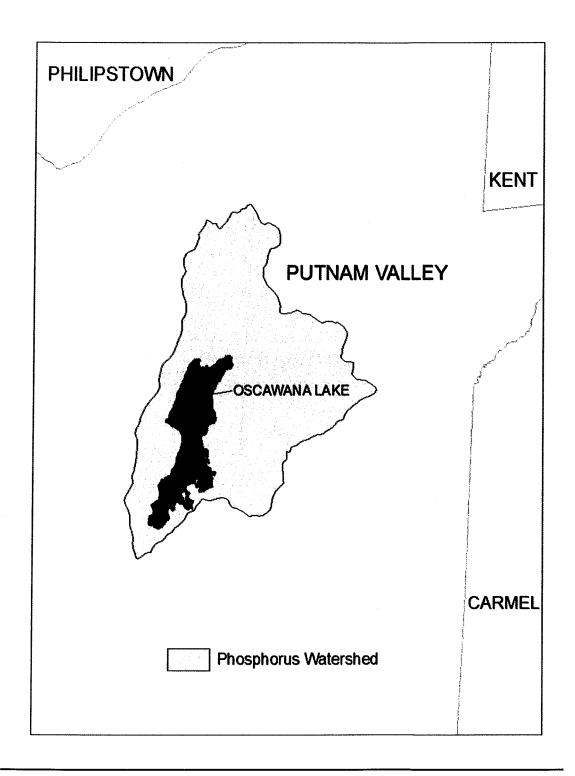
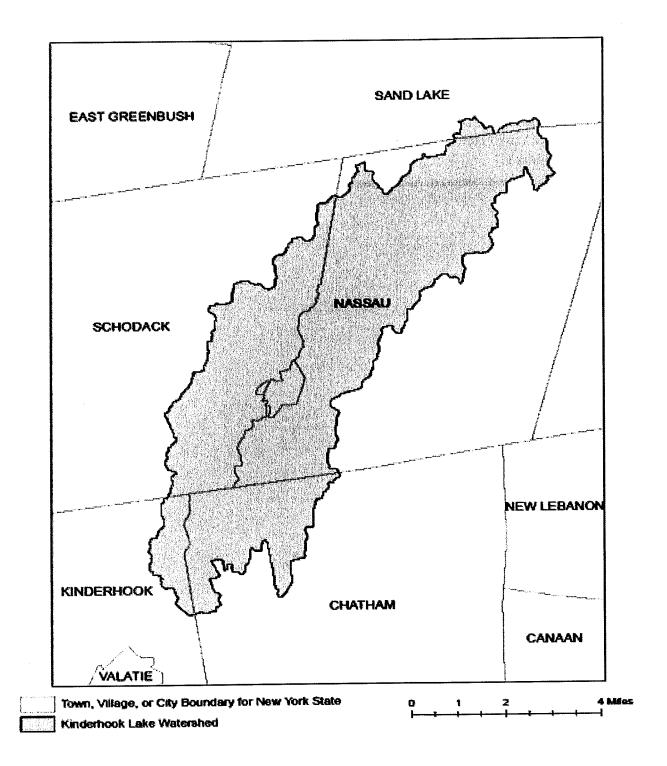


Figure 5 - Kinderhook Lake Watershed



#### APPENDIX D - Watersheds with Lower Disturbance Threshold

Watersheds where *owners* or *operators* of construction activities that involve soil disturbances between five thousand (5000) square feet and one (1) acre of land must obtain coverage under this permit.

Entire New York City Watershed that is located east of the Hudson River - See Figure 1 in Appendix C

#### APPENDIX E – 303(d) Segments Impaired by Construction Related Pollutant(s)

List of 303(d) segments impaired by pollutants related to *construction activity* (e.g. silt, sediment or nutrients). The list was developed using "The Final New York State 2016 Section 303(d) List of Impaired Waters Requiring a TMDL/Other Strategy" dated November 2016. *Owners or operators* of single family home and single family residential subdivisions with 25% or less total impervious cover at total site build-out that involve soil disturbances of one or more acres of land, but less than 5 acres, and *directly discharge* to one of the listed segments below shall prepare a SWPPP that includes post-construction stormwater management practices designed in conformance with the New York State Stormwater Management Design Manual ("Design Manual"), dated January 2015.

COUNTY	WATERBODY	POLLUTANT
Albany	Ann Lee (Shakers) Pond, Stump Pond	Nutrients
Albany	Basic Creek Reservoir	Nutrients
Allegany	Amity Lake, Saunders Pond	Nutrients
Bronx	Long Island Sound, Bronx	Nutrients
Bronx	Van Cortlandt Lake	Nutrients
Broome	Fly Pond, Deer Lake, Sky Lake	Nutrients
Broome	Minor Tribs to Lower Susquehanna (north)	Nutrients
Broome	Whitney Point Lake/Reservoir	Nutrients
Cattaraugus	Allegheny River/Reservoir	Nutrients
Cattaraugus	Beaver (Alma) Lake	Nutrients
Cattaraugus	Case Lake	Nutrients
Cattaraugus	Linlyco/Club Pond	Nutrients
Cayuga	Duck Lake	Nutrients
Cayuga	Little Sodus Bay	Nutrients
Chautauqua	Bear Lake	Nutrients
Chautauqua	Chadakoin River and tribs	Nutrients
Chautauqua	Chautauqua Lake, North	Nutrients
Chautauqua	Chautauqua Lake, South	Nutrients
Chautauqua	Findley Lake	Nutrients
Chautauqua	Hulburt/Clymer Pond	Nutrients
Clinton	Great Chazy River, Lower, Main Stem	Silt/Sediment
Clinton	Lake Champlain, Main Lake, Middle	Nutrients
Clinton	Lake Champlain, Main Lake, North	Nutrients
Columbia	Kinderhook Lake	Nutrients
Columbia	Robinson Pond	Nutrients
Cortland	Dean Pond	Nutrients

Dutchess	Fall Kill and tribs	Nutrients
Dutchess	Hillside Lake	Nutrients
Dutchess	Wappingers Lake	Nutrients
Dutchess	Wappingers Lake	Silt/Sediment
Erie	Beeman Creek and tribs	Nutrients
Erie	Ellicott Creek, Lower, and tribs	Silt/Sediment
Erie	Ellicott Creek, Lower, and tribs	Nutrients
Erie	Green Lake	Nutrients
Erie	Little Sister Creek, Lower, and tribs	Nutrients
Erie	Murder Creek, Lower, and tribs	Nutrients
Erie	Rush Creek and tribs	Nutrients
Erie	Scajaquada Creek, Lower, and tribs	Nutrients
Erie	Scajaquada Creek, Middle, and tribs	Nutrients
Erie	Scajaquada Creek, Upper, and tribs	Nutrients
Erie	South Branch Smoke Cr, Lower, and tribs	Silt/Sediment
Erie	South Branch Smoke Cr, Lower, and tribs	Nutrients
Essex	Lake Champlain, Main Lake, South	Nutrients
Essex	Lake Champlain, South Lake	Nutrients
Essex	Willsboro Bay	Nutrients
Genesee	Bigelow Creek and tribs	Nutrients
Genesee	Black Creek, Middle, and minor tribs	Nutrients
Genesee	Black Creek, Upper, and minor tribs	Nutrients
Genesee	Bowen Brook and tribs	Nutrients
Genesee	LeRoy Reservoir	Nutrients
Genesee	Oak Orchard Cr, Upper, and tribs	Nutrients
Genesee	Tonawanda Creek, Middle, Main Stem	Nutrients
Greene	Schoharie Reservoir	Silt/Sediment
Greene	Sleepy Hollow Lake	Silt/Sediment
Herkimer	Steele Creek tribs	Silt/Sediment
Herkimer	Steele Creek tribs	Nutrients
Jefferson	Moon Lake	Nutrients
Kings	Hendrix Creek	Nutrients
Kings	Prospect Park Lake	Nutrients
Lewis	Mill Creek/South Branch, and tribs	Nutrients
Livingston	Christie Creek and tribs	Nutrients
Livingston	Conesus Lake	Nutrients
Livingston	Mill Creek and minor tribs	Silt/Sediment
Monroe	Black Creek, Lower, and minor tribs	Nutrients
Monroe	Buck Pond	Nutrients
Monroe	Cranberry Pond	Nutrients

Monroe	Lake Ontario Shoreline, Western	Nutrients
Monroe	Long Pond	Nutrients
Monroe	Mill Creek and tribs	Nutrients
Monroe	Mill Creek/Blue Pond Outlet and tribs	Nutrients
Monroe	Minor Tribs to Irondequoit Bay	Nutrients
Monroe	Rochester Embayment - East	Nutrients
Monroe	Rochester Embayment - West	Nutrients
Monroe	Shipbuilders Creek and tribs	Nutrients
Monroe	Thomas Creek/White Brook and tribs	Nutrients
Nassau	Beaver Lake	Nutrients
Nassau	Camaans Pond	Nutrients
Nassau	East Meadow Brook, Upper, and tribs	Silt/Sediment
Nassau	East Rockaway Channel	Nutrients
Nassau	Grant Park Pond	Nutrients
Nassau	Hempstead Bay	Nutrients
Nassau	Hempstead Lake	Nutrients
Nassau	Hewlett Bay	Nutrients
Nassau	Hog Island Channel	Nutrients
Nassau	Long Island Sound, Nassau County Waters	Nutrients
Nassau	Massapequa Creek and tribs	Nutrients
Nassau	Milburn/Parsonage Creeks, Upp, and tribs	Nutrients
Nassau	Reynolds Channel, west	Nutrients
Nassau	Tidal Tribs to Hempstead Bay	Nutrients
Nassau	Tribs (fresh) to East Bay	Nutrients
Nassau	Tribs (fresh) to East Bay	Silt/Sediment
Nassau	Tribs to Smith/Halls Ponds	Nutrients
Nassau	Woodmere Channel	Nutrients
New York	Harlem Meer	Nutrients
New York	The Lake in Central Park	Nutrients
Niagara	Bergholtz Creek and tribs	Nutrients
Niagara	Hyde Park Lake	Nutrients
Niagara	Lake Ontario Shoreline, Western	Nutrients
Niagara	Lake Ontario Shoreline, Western	Nutrients
Oneida	Ballou, Nail Creeks and tribs	Nutrients
Onondaga	Harbor Brook, Lower, and tribs	Nutrients
Onondaga	Ley Creek and tribs	Nutrients
Onondaga	Minor Tribs to Onondaga Lake	Nutrients
Onondaga	Ninemile Creek, Lower, and tribs	Nutrients
Onondaga	Onondaga Creek, Lower, and tribs	Nutrients
Onondaga	Onondaga Creek, Middle, and tribs	Nutrients

Onondaga	Onondaga Lake, northern end	Nutrients
Onondaga	Onondaga Lake, southern end	Nutrients
Ontario	Great Brook and minor tribs	Silt/Sediment
Ontario	Great Brook and minor tribs	Nutrients
Ontario	Hemlock Lake Outlet and minor tribs	Nutrients
Ontario	Honeoye Lake	Nutrients
Orange	Greenwood Lake	Nutrients
Orange	Monhagen Brook and tribs	Nutrients
Orange	Orange Lake	Nutrients
Orleans	Lake Ontario Shoreline, Western	Nutrients
Orleans	Lake Ontario Shoreline, Western	Nutrients
Oswego	Lake Neatahwanta	Nutrients
Oswego	Pleasant Lake	Nutrients
Putnam	Bog Brook Reservoir	Nutrients
Putnam	Boyd Corners Reservoir	Nutrients
Putnam	Croton Falls Reservoir	Nutrients
Putnam	Diverting Reservoir	Nutrients
Putnam	East Branch Reservoir	Nutrients
Putnam	Lake Carmel	Nutrients
Putnam	Middle Branch Reservoir	Nutrients
Putnam	Oscawana Lake	Nutrients
Putnam	Palmer Lake	Nutrients
Putnam	West Branch Reservoir	Nutrients
Queens	Bergen Basin	Nutrients
Queens	Flushing Creek/Bay	Nutrients
Queens	Jamaica Bay, Eastern, and tribs (Queens)	Nutrients
Queens	Kissena Lake	Nutrients
Queens	Meadow Lake	Nutrients
Queens	Willow Lake	Nutrients
Rensselaer	Nassau Lake	Nutrients
Rensselaer	Snyders Lake	Nutrients
Richmond	Grasmere Lake/Bradys Pond	Nutrients
Rockland	Congers Lake, Swartout Lake	Nutrients
Rockland	Rockland Lake	Nutrients
Saratoga	Ballston Lake	Nutrients
Saratoga	Dwaas Kill and tribs	Silt/Sediment
Saratoga	Dwaas Kill and tribs	Nutrients
Saratoga	Lake Lonely	Nutrients
Saratoga	Round Lake	Nutrients
Saratoga	Tribs to Lake Lonely	Nutrients

Schenectady	Collins Lake	Nutrients
Schenectady	Duane Lake	Nutrients
Schenectady	Mariaville Lake	Nutrients
Schoharie	Engleville Pond	Nutrients
Schoharie	Summit Lake	Nutrients
Seneca	Reeder Creek and tribs	Nutrients
St.Lawrence	Black Lake Outlet/Black Lake	Nutrients
St.Lawrence	Fish Creek and minor tribs	Nutrients
Steuben	Smith Pond	Nutrients
Suffolk	Agawam Lake	Nutrients
Suffolk	Big/Little Fresh Ponds	Nutrients
Suffolk	Canaan Lake	Silt/Sediment
Suffolk	Canaan Lake	Nutrients
Suffolk	Flanders Bay, West/Lower Sawmill Creek	Nutrients
Suffolk	Fresh Pond	Nutrients
Suffolk	Great South Bay, East	Nutrients
Suffolk	Great South Bay, Middle	Nutrients
Suffolk	Great South Bay, West	Nutrients
Suffolk	Lake Ronkonkoma	Nutrients
Suffolk	Long Island Sound, Suffolk County, West	Nutrients
Suffolk	Mattituck (Marratooka) Pond	Nutrients
Suffolk	Meetinghouse/Terrys Creeks and tribs	Nutrients
Suffolk	Mill and Seven Ponds	Nutrients
Suffolk	Millers Pond	Nutrients
Suffolk	Moriches Bay, East	Nutrients
Suffolk	Moriches Bay, West	Nutrients
Suffolk	Peconic River, Lower, and tidal tribs	Nutrients
Suffolk	Quantuck Bay	Nutrients
Suffolk	Shinnecock Bay and Inlet	Nutrients
Suffolk	Tidal tribs to West Moriches Bay	Nutrients
Sullivan	Bodine, Montgomery Lakes	Nutrients
Sullivan	Davies Lake	Nutrients
Sullivan	Evens Lake	Nutrients
Sullivan	Pleasure Lake	Nutrients
Tompkins	Cayuga Lake, Southern End	Nutrients
Tompkins	Cayuga Lake, Southern End	Silt/Sediment
Tompkins	Owasco Inlet, Upper, and tribs	Nutrients
Ulster	Ashokan Reservoir	Silt/Sediment
Ulster	Esopus Creek, Upper, and minor tribs	Silt/Sediment
Warren	Hague Brook and tribs	Silt/Sediment

Warren	Huddle/Finkle Brooks and tribs	Silt/Sediment
Warren	Indian Brook and tribs	Silt/Sediment
Warren	Lake George	Silt/Sediment
Warren	Tribs to L.George, Village of L George	Silt/Sediment
Washington	Cossayuna Lake	Nutrients
Washington	Lake Champlain, South Bay	Nutrients
Washington	Tribs to L.George, East Shore	Silt/Sediment
Washington	Wood Cr/Champlain Canal and minor tribs	Nutrients
Wayne	Port Bay	Nutrients
Westchester	Amawalk Reservoir	Nutrients
Westchester	Blind Brook, Upper, and tribs	Silt/Sediment
Westchester	Cross River Reservoir	Nutrients
Westchester	Lake Katonah	Nutrients
Westchester	Lake Lincolndale	Nutrients
Westchester	Lake Meahagh	Nutrients
Westchester	Lake Mohegan	Nutrients
Westchester	Lake Shenorock	Nutrients
Westchester	Long Island Sound, Westchester (East)	Nutrients
Westchester	Mamaroneck River, Lower	Silt/Sediment
Westchester	Mamaroneck River, Upper, and minor tribs	Silt/Sediment
Westchester	Muscoot/Upper New Croton Reservoir	Nutrients
Westchester	New Croton Reservoir	Nutrients
Westchester	Peach Lake	Nutrients
Westchester	Reservoir No.1 (Lake Isle)	Nutrients
Westchester	Saw Mill River, Lower, and tribs	Nutrients
Westchester	Saw Mill River, Middle, and tribs	Nutrients
Westchester	Sheldrake River and tribs	Silt/Sediment
Westchester	Sheldrake River and tribs	Nutrients
Westchester	Silver Lake	Nutrients
Westchester	Teatown Lake	Nutrients
Westchester	Titicus Reservoir	Nutrients
Westchester	Truesdale Lake	Nutrients
Westchester	Wallace Pond	Nutrients
Wyoming	Java Lake	Nutrients
Wyoming	Silver Lake	Nutrients

## APPENDIX F – List of NYS DEC Regional Offices

Region	COVERING THE FOLLOWING COUNTIES:	DIVISION OF ENVIRONMENTAL PERMITS (DEP) PERMIT ADMINISTRATORS	DIVISION OF WATER (DOW) WATER (SPDES) PROGRAM
1	NASSAU AND SUFFOLK	50 CIRCLE ROAD STONY BROOK, NY 11790 TEL. (631) 444-0365	50 CIRCLE ROAD STONY BROOK, NY 11790-3409 TEL. (631) 444-0405
2	BRONX, KINGS, NEW YORK, QUEENS AND RICHMOND	1 HUNTERS POINT PLAZA, 47-40 21ST ST. LONG ISLAND CITY, NY 11101-5407 TEL. (718) 482-4997	1 HUNTERS POINT PLAZA, 47-40 21ST ST. LONG ISLAND CITY, NY 11101-5407 TEL. (718) 482-4933
3	DUTCHESS, ORANGE, PUTNAM, ROCKLAND, SULLIVAN, ULSTER AND WESTCHESTER	21 SOUTH PUTT CORNERS ROAD NEW PALTZ, NY 12561-1696 TEL. (845) 256-3059	100 HILLSIDE AVENUE, SUITE 1W WHITE PLAINS, NY 10603 TEL. (914) 428 - 2505
4	ALBANY, COLUMBIA, DELAWARE, GREENE, MONTGOMERY, OTSEGO, RENSSELAER, SCHENECTADY AND SCHOHARIE	1150 NORTH WESTCOTT ROAD SCHENECTADY, NY 12306-2014 TEL. (518) 357-2069	1130 NORTH WESTCOTT ROAD SCHENECTADY, NY 12306-2014 TEL. (518) 357-2045
5	CLINTON, ESSEX, FRANKLIN, FULTON, HAMILTON, SARATOGA, WARREN AND WASHINGTON	1115 STATE ROUTE 86, PO BOX 296 RAY BROOK, NY 12977-0296 TEL. (518) 897-1234	232 GOLF COURSE ROAD WARRENSBURG, NY 12885-1172 TEL. (518) 623-1200
6	HERKIMER, JEFFERSON, LEWIS, ONEIDA AND ST. LAWRENCE	STATE OFFICE BUILDING 317 WASHINGTON STREET WATERTOWN, NY 13601-3787 TEL. (315) 785-2245	STATE OFFICE BUILDING 207 GENESEE STREET UTICA, NY 13501-2885 TEL. (315) 793-2554
7	BROOME, CAYUGA, CHENANGO, CORTLAND, MADISON, ONONDAGA, OSWEGO, TIOGA AND TOMPKINS	615 ERIE BLVD. WEST SYRACUSE, NY 13204-2400 TEL. (315) 426-7438	615 ERIE BLVD. WEST SYRACUSE, NY 13204-2400 TEL. (315) 426-7500
8	CHEMUNG, GENESEE, LIVINGSTON, MONROE, ONTARIO, ORLEANS, SCHUYLER, SENECA, STEUBEN, WAYNE AND YATES	6274 EAST AVON-LIMA ROADAVON, NY 14414-9519 TEL. (585) 226-2466	6274 EAST AVON-LIMA RD. AVON, NY 14414-9519 TEL. (585) 226-2466
9	ALLEGANY, CATTARAUGUS, CHAUTAUQUA, ERIE, NIAGARA AND WYOMING	270 MICHIGAN AVENUE BUFFALO, NY 14203-2999 TEL. (716) 851-7165	270 MICHIGAN AVENUE BUFFALO, NY 14203-2999 TEL. (716) 851-7070

# **APPENDIX C**CERTIFICATION STATEMENTS

STORMWATER POLLUTION PREVENTION PLAN

#### Stormwater Pollution Prevention Plan Contractors Certification Statement

I, the undersigned, hereby certify that I have read and understand this Stormwater Pollution Prevention Plan (SWPPP) and have reviewed the related drawings and specifications prepared by Metzger Civil Engineering, PLLC.

I hereby certify that I understand and agree to comply with the terms and conditions of the SWPPP and agree to implement any corrective actions identified by the qualified inspector during a site inspection.

I also understand that the operator must comply with the terms and conditions of the New York State Pollutant Discharge Elimination System (SPDES) general permit for stormwater discharges from construction activities and that it is unlawful for any person to cause or contribute to a violation of water quality standards.

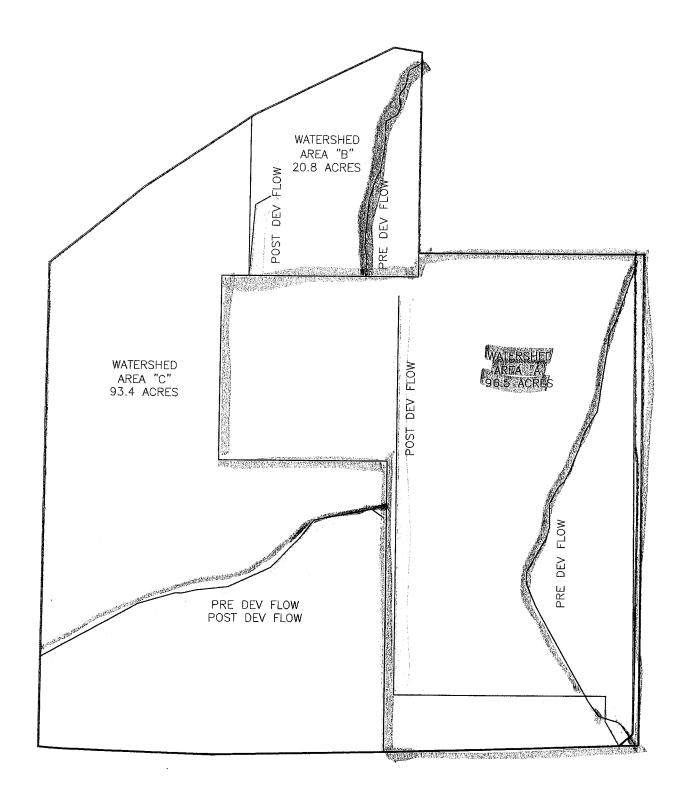
Furthermore, I understand that certifying false, incorrect or inaccurate information is a violation of the referenced permit and the laws of the State of New York and could subject me to criminal. Civil and/or administrative proceedings.

Name of Contracting Firm
Address
Phone Number
Name of Trained individual Responsible for SWPPP implementation
Signature of Contracting Firm officer
Printed Name of Contacting Firm officer
Date

# **APPENDIX D-1**

## AREA A

Stormwater Calculations - Pre development USDA TR-55 Method



#### WinTR-55 Current Data Description

#### --- Identification Data ---

User: ARH Date:

12/1/2022 English

Project:

Units:

SubTitle: Area A Pre

State:

New York

Areal Units: Acres

County:

Erie

Filename: \\Stationa\f\MCE\M2220 Alleghany Road (Geis)\DOCS\Area A Pre.w55

#### --- Sub-Area Data ---

Name	Description	Reach	Area(ac)	RCN	Tc
Area A Pre		Outlet	96.5	59	.596

Total area: 96.50 (ac)

#### --- Storm Data --

#### Rainfall Depth by Rainfall Return Period

2-Yr	5-Yr	10-Yr	25-Yr	50-Yr	100-Yr	1-Yr
(in)	(in)	(in)	(in)	(in)	(in)	(in)
2.2	2.69	3.25	3.84	4.48	6.0	1.8

Storm Data Source:

User-provided custom storm data

Rainfall Distribution Type: Dimensionless Unit Hydrograph: <standard>

Type II

#### Area A Pre Erie County, New York

#### Storm Data

#### Rainfall Depth by Rainfall Return Period

2-Yr	5-Yr	10-Yr	25-Yr	50-Yr	100-Yr	1-Yr
(in)	(in)	(in)	(in)	(in)	(in)	(in)
2.2	2.69	3.25	3.84	4.48	6.0	1.8

Storm Data Source:

User-provided custom storm data

Rainfall Distribution Type: Dimensionless Unit Hydrograph: <standard>

Type II

#### Area A Pre Erie County, New York

#### Watershed Peak Table

Sub-Area or Reach Identifier	Peak 10-Yr (cfs)	25-Yr (cfs)	Rainfall 100-Yr (cfs)	Return Period 1-Yr (cfs)	
SUBAREAS Area A Pre	17.51	34.90	128.93	0.23	
REACHES					
OUTLET	17.51	34.90	128.93	0.23	

# Area A Pre Erie County, New York

#### Hydrograph Peak/Peak Time Table

Sub-Area	Peak	Flow and 1	Peak Time	(hr) by Rainfall	Return	Period	
or Reach	10-Yr	25-Yr	100-Yr	1-Yr			
Identifier	(cfs)	(cfs)	(cfs)	(cfs)			
	(hr)	(hr)	(hr)	(hr)			
SUBAREAS Area A Pre	17 51	34 90	120 03	0.23			
Area A rie		12.31					
	,			w · • • · ·			

REACHES

17.51 34.90 128.93 0.23 OUTLET

#### Area A Pre Erie County, New York

#### Sub-Area Summary Table

Sub-Area Identifier	Drainage Area (ac)	Time of Concentration (hr)		Receiving Reach	Sub-Area Description
Area A Pre	96.50	0.596	59	Outlet	

Total Area: 96.50 (ac)

#### Area A Pre Erie County, New York

#### Sub-Area Time of Concentration Details

Sub-Area Identifier/	Flow Length (ft)	Slope (ft/ft)	Mannings's n	End Area (sq ft)	Wetted Perimeter (ft)	Velocity (ft/sec)	Travel Time (hr)
Area A Pre SHEET SHALLOW	100 2754	0.0220 0.0220	0.240 0.050				0.276 0.320
				Ti	me of Conc	entration	.596

#### Area A Pre Erie County, New York

#### Sub-Area Land Use and Curve Number Details

Sub-Area Identifier	Land Use	Hydrologic Soil Group	Sub-Area Area (ac)	Curve Number
Brush Brush	- brush, weed, grass mix - brush, weed, grass mix - brush, weed, grass mix - brush, weed, grass mix	(fair) A (fair) B (fair) C (fair) D	32 8.6 28.9 27	35 56 70 77
Total	Area / Weighted Curve Number	ber	96.5	59

# **APPENDIX D-2**

### AREA A

Stormwater Calculations - Post Development USDA TR-55 Method

#### WinTR-55 Current Data Description

#### --- Identification Data ---

User:

ARH

Date:

12/1/2022 English

Project:

SubTitle: Area A Post New York

Units:

State:

County: Erie Filename: \\Stationa\f\MCE\M2220 Alleghany Road (Geis)\DOCS\Area A Post.w55

Areal Units: Acres

#### --- Sub-Area Data ---

Name	Description	Reach	Area(ac)	RCN	Tc
Area A Pos		Outlet	96.5	89	1.456

Total area: 96.50 (ac)

#### --- Storm Data --

#### Rainfall Depth by Rainfall Return Period

2-Yr	5-Yr	10-Yr	25-Yr	50-Yr	100-Yr	1-Yr
(in)	(in)	(in)	(in)	(in)	(in)	(in)
2.2	2.69	3.25	3.84	4.48	6.0	1.8

Storm Data Source:

User-provided custom storm data

Rainfall Distribution Type: Type II Dimensionless Unit Hydrograph: <standard>

#### Area A Post Erie County, New York

#### Storm Data

#### Rainfall Depth by Rainfall Return Period

2-Yr	5-Yr	10-Yr	25-Yr	50-Yr	100-Yr	1-Yr
(in)	(in)	(in)	(in)	(in)	(in)	(in)
2.2	2.69	3.25	3.84	4.48	6.0	1.8

Storm Data Source:

User-provided custom storm data

Rainfall Distribution Type: Type II
Dimensionless Unit Hydrograph: <standard>

# Area A Post Erie County, New York

#### Watershed Peak Table

0	ub-Area r Reach entifier	Peak 10-Yr (cfs)	Flow by 25-Yr (cfs)		Return Period 1-Yr (cfs)	
	BAREAS ea A Pos	86.69	108.45	189.56	34.58	
REA	ACHES					
OU	PLET	86.69	108.45	189.56	34.58	

#### Area A Post Erie County, New York

#### Hydrograph Peak/Peak Time Table

Sub-Area	Peak	Flow and P	eak Time	(hr) by	Rainfall	Return	Period	
or Reach	10-Yr	25-Yr	100-Yr	1	-Yr			
Identifier	(cfs)	(cfs)	(cfs)	(c	fs)			
	(hr)	(hr)	(hr)	(hr)				

SUBAREAS

Area A Pos 86.69 108.45 189.56 34.58 12.77 12.81 12.79 12.82

REACHES

OUTLET 86.69 108.45 189.56 34.58

#### Area A Post Erie County, New York

#### Sub-Area Summary Table

Sub-Area Identifier	Drainage Area (ac)	Time of Concentration (hr)		Receiving Reach	Sub-Area Description
Area A Pos	96.50	1.456	89	Outlet	

Total Area: 96.50 (ac)

#### Area A Post Erie County, New York

#### Sub-Area Time of Concentration Details

Sub-Area Identifier/	Flow Length (ft)	Slope (ft/ft)	Mannings's n	End Area (sq ft)	Wetted Perimeter (ft)	Velocity (ft/sec)	Travel Time (hr)
Area A Pos SHEET SHALLOW CHANNEL	100 129 3198	0.0220 0.0200 0.0020	0.240 0.025 0.012	1.76	34.73	0.761	0.276 0.012 1.168
				Ti	me of Conce	ntration	1.456

#### Area A Post Erie County, New York

#### Sub-Area Land Use and Curve Number Details

Sub-Area Identifier	Land Use		Hydrologic Soil Group	Sub-Area Area (ac)	Curve Number
Area A PosOpen	space; grass cover > 75%	(aood	 ) A	7.5	39
	space; grass cover > 75%	(good)	) B	2.6	61
Open s	space; grass cover > 75%	(good)	C	7.4	74
Open s	space; grass cover > 75%	(good)	D	6.2	80
Paved	parking lots, roofs, driveways	3	A	24	98
Paved	parking lots, roofs, driveways	3	В	6.6	98
Paved	parking lots, roofs, driveways	3	С	21.8	98
Paved	parking lots, roofs, driveways	3	D	20.4	98
Total	Area / Weighted Curve Number			96.5	89
				====	==

0

6.

9.

12.

15.

TIME (brs)

18.

21.

24.

# **APPENDIX D - 3**

# AREA A

Stormwater Calculations

STORMWATER POLLUTION PREVENTION PLAN



### Metzger Civil

# ENGINEERING, PLLC

8245 Sheridan Drive

Williamsville, New York 14221

Phone: 716-633-2601, Fax: 716-633-2704

Project:	Allegany Road, Pembroke.	By: ARH	Date:	11/15/2022
Location:	Pond A	Checked: JCM	Date:	

County: Genesee

### TR-55 Pre-Development Summary

#### STORM 1-Yr

Area or	Drainage	%	Runoff	Peak Flow
Reach	Area	of site	Amount, Qd	Rate
Identifier	(acres)		(in)	(cfs)
Entire Site	96.50	100		0.23
This Pond	96.5	100.0	0.0	0.23

#### STORM 10-Yr

Area or	Drainage	%	Runoff	Peak Flow
Reach	Area	of site	Amount, Qd	Rate
Identifier	(acres)		(in)	(cfs)
Entire Site	96.50	100		17.51
This Pond	96.5	100.0	0.4	17.51

#### STORM 100-Yr

Area or	Drainage	%	Runoff	Peak Flow
Reach	Area	of site	Amount, Qd	Rate
Identifier	(acres)		(in)	(cfs)
Entire Site	96.50	100		67.65
This Pond	96.5	100.0	1.8	67.65

(overdetained to the capacity of 2 pipes)

Storm	Rainfall	Initial	Potential Retention		Runoff Amount, Inches
Event	P, inches	Abstraction	S=(1000/CN)-10	CN	Qd = <u>(P-la)^2</u>
		la = 0.2S, inches	inches		((P-la)+S)
1-yr	1.87	1.39	6.95	59	0.03
10-yr	3.25	1.39	6.95	59	0.39
100-yr	6.00	1.39	6.95	59	1.84

Rainfall Distribution =

TYPE II

Time of Concentration, Tc (Hours) =

0.60



# METZGER CIVIL FNGINEER

# $\mathbf{E}$ NGINEERING, PLLC

8245 Sheridan Drive

Williamsville, New York 14221

Phone: 716-633-2601, Fax: 716-633-2704

Location: Pond A Checked: JCM Date:	
Location:   Pond A   Checked:   JCM   Date:	

### TR-55 Post Development Summary

#### STORM 1-Yr

Area or	Drainage	%	Runoff	Peak Flow			
Reach	Area	of site	Amount, Qd	Rate			
Identifier	(acres)		(in)	(cfs)			
Entire Site	96.50	100		34.58			
This pond	96.50	100.0	0.9	34.58			

#### STORM 10-Yr

[				
Area or	Drainage	%	Runoff	Peak Flow
Reach	Area	of site	Amount, Qd	Rate
Identifier	(acres)		(in)	(cfs)
Entire Site	96.50	100		86.69
This pond	96.5	100.0	2.1	86.69

#### STORM 100-Yr

Drainage	%	Runoff	Peak Flow
Area	of site	Amount, Qd	Rate
(acres)		(in)	(cfs)
96.50	100		189.56
96.5	100.0	4.7	189.56
	Area (acres) 96.50	Area of site (acres) 100	Area of site Amount, Qd (acres) (in) 96.50 100

Storm	Rainfall	Initial	Potential Retention		Runoff Amount, Inches
Event	P, inches	Abstraction	S=(1000/CN)-10	CN .	Qd = <u>(P-Ia)^2</u>
		la = 0.2S, inches	inches		((P-la)+S)
1-yr	1.87	0.25	1.24	89	0.92
10-yr	3.25	0.25	1.24	89	2.13
100-yr	6.00	0.25	1.24	89	4.74

Rainfall Distribution =

TYPE II

Time of Concentration,  $Tc_{(Hours)} = 1.45$ 



8245 Sheridan Drive

Williamsville, New York 14221

Phone: 716-633-2601, Fax: 716-633-2704

Project: Allegany Road, Pembroke.	By: ARH	Date:	11/15/2022
Location: Pond A	Checked: JCM	Date:	

### Storage Volume Estimation

Taken from NYS Stormwater Management Design Manual (NYS-SMDM) Appendix B

Area Final Phase =	96.5 Acres	Channel	
		Protection	ı
		Cp ₀	
		1 YR / 24	-Hour Extended Detention
la / P (From Post Development Sumr	mary Sheet, 1yr storm)	0.13	
Post Development Time of	Concentration,Tc (From TR-55 Calcs)	1.45	hours
Unit Peak Discharge, qu <sub>(fro</sub>	om TR-55 Exhibit 4-lf, attached)	270	cfs/sqmi/inch
	QO/Qİ (NYS-SMDM Figure B.1, attached)	0.063	
Ratio of Storage Volume to	Runoff Volume, vs/vr		
vs/vr = 0.682 - 1.43	3(qo/qi) + 1.64 (qo/qi)^2 - 0.804 (qo/qi)^3 =	0.60	
Pos-Dev Runoff Amount, C	d (From Post Development Summary Sheet)	0.9	inches
Req'd Storage Volume <sub>(acre-f</sub>	feet), $VS = ((V_s/V_f) (Q_{d, inches}) (A_{d, acres})) / 12_{inches/foot}$	4.4	acre-feet
	feet), vs = vs (acre-feet) x 43560 sq.ft./acre	193,041	cubic feet
	ate over 24 hours = vs (cubic feet) / 86400 seconds/24	thrs 2.23	cfs

	Qp	$Q_f$	
	10YR	100 YR	
Pre-Dev Peak Flow Q <sub>O (From TR-55 Output)</sub>	17.51	67.65	cfs
Pos-Dev Peak Flow Q <sub>I (From TR-55 Output)</sub>	86.69	189.56	cfs

Pos-Dev Runoff Amount, Q<sub>d (From Post Development Summary Sheet)</sub>

l	Ratio of Pre-Dev Peak Flow to Pos-Dev Peak Flow,Q <sub>0</sub> /Q <sub>i</sub>						
	Ratio of Storage Volume to Runoff Volume, 'V <sub>S</sub> /V <sub>R (From TR-55 Fig 6-1, Type II, attached)</sub>						
	Req'd Storage Volume <sub>(acre-feet)</sub> , $Vs = [((V_s/V_r) (Q_{d, inches}) (A, acres)) / 12_{in./ft}]$						
l	Req'd Storage Volume <sub>(cubic feet)</sub> , Vs <sub>=</sub> Vs <sub>(acre-feet)</sub> x 43560 <sub>sq.ft./acre</sub>						

2.13	4.74	inches
		_
0.20	0.36	
0.45	0.34	]
7.70	12.95	acre-feet

563,991

cubic feet

Extreme Flood

Overbank

Flood

335,322



# **M**ETZGER

# $\mathbf{C}_{\text{IVIL}}$

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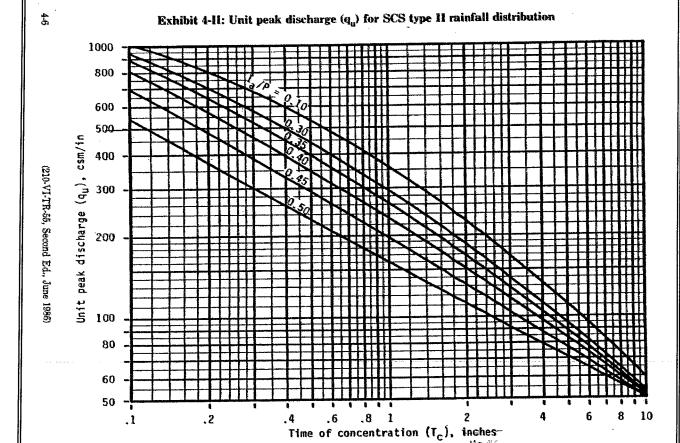
8245 Sheridan Drive

Williamsville, New York 14221

Phone: 716-633-2601, Fax: 716-633-2704

Project:	Allegany Road, Pembroke.	By: ARH	Date:	11/15/2022
Location:	Pond A	Checked: JCM	Date:	

### Storage Volume Estimation - Continued





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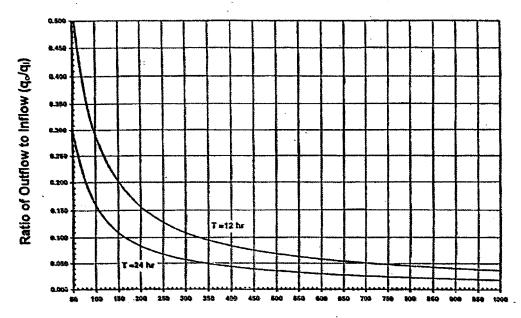
8245 Sheridan Drive

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Project:	Allegany Road, Pembroke.	By: ARH	Date:	11/15/2022
Location:	Pond A	Checked: JCM	Date:	

Figure B.1 Detention Time vs. Discharge Ratios (Source: MDE, 2000)



Unit Peak Discharge (qu), csm/in



### METZGER CIVIL

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Project:	Allegany Road, Pembroke.	By: ARH	Date:	11/15/2022
Location:	Pond A	Checked: JCM	Date:	

#### Storage Volume Estimation - Continued

#### Input requirements and procedures

Use figure 6-1 to estimate storage volume  $(V_s)$  required or peak outflow discharge  $(q_0)$ . The most frequent application is to estimate  $V_s$ , for which the required inputs are runoff volume  $(V_r)$ ,  $q_o$ , and peak inflow discharge  $(q_i)$ . To estimate  $q_o$ , the required inputs are  $V_r$ ,  $V_s$ , and  $q_i$ .

#### Estimating Va

Use worksheet 6a to estimate V<sub>s</sub>, storage volume required, by the following procedure.

- Determine q<sub>0</sub>. Many factors may dictate the selection of peak outflow discharge. The most common is to limit downstream discharges to a desired level, such as predevelopment discharge. Another factor may be that the outflow device has already been selected.
- Estimate q<sub>i</sub> by procedures in chapters 4 or 5. Do not use peak discharges developed by any other procedure. When using the Tabular Hydrograph method to estimate q<sub>i</sub> for a subarea, only use

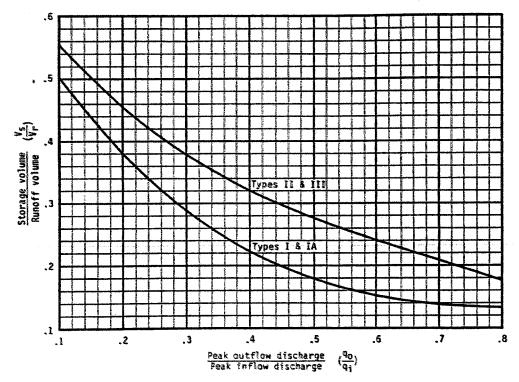


Figure 6-1.-Approximate detention basin routing for rainfall types I, IA, II, and III.

6-2

(210-VI-TR-55, Second Ed., June 1986)



# Metzger

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Project:	Allegany R	oad, Pembroke					ARH	Date:	11/15/22		
Location:	Pond A					Checked:	JCM	Date:			
				Water Qu	ality and P	ond Volume	es				
F \$10/G	0.01		<u> </u>		Quality Vol	ume, WQv					
From NYS	Stormwateι * <b>Rv*Δ) / 12</b>	r Management	Design Man	iual (NYS-SME	OM), Section 4						
<b>WQv = (P*Rv*A) / 12</b> P=90% Rainfall Event No. for WNY 0.85											
I = Impervious cover 75.0 Percent											
Rv = 0.05 + 0.009 * I 0.73											
A = Site area 96.50 acres											
Total WQ	v Required	=						acre-feet =		cf	
Total Minimum Req'd Permanent Pool Volume, PPV = Total WQV x 50%								acre-feet =		cf	
Reg'd Forebay (Pretreatment) Volume = Total WQv x 10% =							acre-feet =		cf		
Req'd Permanent Pool Volume in the "Wet Pool" = Total PPV - Req'd Forebay					Volume =	1.982	acre-feet = [	86,348	cf		
ls "Wet Po	ol" Volume i	Provided = or >	the Total V	VQv Required?	Yes,	100% of WQv F	Provided In Wet	Pool, Therefo	ore, WQv-ED	Not Req'd	
Rea'd WQ	v-ED Volum	e (i.e, volume a	above Norm	al Water I evel	) =Total WQv	c 50% =	<u> </u>	acre-feet = [		cf	
		ase rate over 2						c.f.s.		J	
				,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1	<u> </u>				
				Pond	Levels and	Volumes					
Pond A	HWE, ft	HWE Area, sf	LWE, ft	LW Area, sf	water depth, ft	Avg. Area, sf	Vol. Provided, cf		Vol.Prv acft	Difference	
Wet Pool"	851.00	80,997	845.00	11384	6.00	46,191	277,143	86,348	6.36	190,795	
NQ <sub>v</sub> .ED								None Reg'd			
				PT-7							
Ср₀	853.24	92,664	851.00	80997	2.24	86,831	194,501	193,041	4.47	1,460	
$Q_p$	854.72	100,373	851.00	80997	3.72	90,685	337,349	335,322	7,77	2,026	
$Q_f$	855.70	105,478	851.00	80997	4.70	93,237	438,216	563,991		125,776	
	OB @ EL.	857			(Note: 125,776	volume is provi	ded over the big	oretention are	a)		
Area @ TC	)B	112249 s	sf								
			WQv St	orm Event	Peak Flow (	Calculation (	WQv Qp)				
						f Used In Lie	u Of Pretrea	tment For	ebay		
rom NYS	Stormwater	Management I	Design Man	ual (NYS-SMD	M), Appendix E	3.2					
Post Devel	onment Tim	e of Concentra	tion To			1.45	hr				
							111				
		rom Post Developmen		t)		0.25					
ia/P <sub>(Where</sub>	P=90% Rainfall	Event No. from WQv	calcs above)			0.29					
		U (from TR-55 Exhibi					cfs/sqmi/inch				
		es = [WQv <sub>(acre</sub>	<sub>e-feet)</sub> / Area <sub>(</sub>	<sub>acres)</sub> ] x 12 <sub>inches</sub>	s/foot	0.62	inches				
	square mile					0.1507	sq. miles				
VQv Qp <sub>(cf</sub>	<sub>s)</sub> = qu <sub>(cfs/sq.i</sub>	miles/inch) x A (sq.n	<sub>niles)</sub> x WQv	(inches)							
	Discharge C					22.3	cfs				
Peguirod 5	retreatment	- 100% of total 1	Μαν		Г	2 22	ofo				
redanea b	uired pretreatment = 10% of total Wqv 2.23 cfs										



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Project:	Allegany Road, Pembroke.	By: ARH	Date:	11/15/22	
Location:	Pond A	Checked: JCM	Date:		

#### Outlet Control Structure Design

	Water Elevations	Allowable Discharge R	ates, Qo		
Normal Water Level	851.00				
Water Quality Volume Extended Detention, WQv-ED			cfs	for 24 hour release	< Not Req'd
Stream Channel Protection "Cpv" 1 year storm	853.24	2.23	cfs	for 24 hour release	
Overbank Flood Control Criteria "Qp" 10 year storm	854.72	17.51	cfs		
Extreme Flood Control Criteria "Qf" 100 year storm	855.70	67.65	cfs		
Top of Bank / emergency spillway elevation	857.00				

Heads, h (feet), for Calculating Flows Through Various Orifices							
When Water Elev. Is @	Primary Orifice, h =	Secondary Orifice, h =					
WQv-ED							
Сру	2.12						
Qp	3.60						
Qf	5.88						

Orifice diameter (Note: Minimum per NYS-SMDM = 0.25')

Area of pipe or slot = A Orifice coefficient = C

Acceleration due to gravity = g

No. of Outlet Control	Orifices Provided =	1
Primary	Secondary	
Drawdown Orifice	Drawdown Orifice For	
For	Cpv (as needed)	
WQv and/or Cpv		
0.25	0.25	ft
0.05	0.05	sq ft
0.61	0.61	
32.20	32.20	ft/sec <sup>2</sup>

Torricelli Equation - Orifice Calculations

Orifice Discharge Rates, Q=CA(2gh)^.5 When Water Elevations are at the following stages --->

WQv  $Cp_v$ Qp Actual Discharge Rate Through Primary Orifice For WQv and/or Cpv Drawdown @ Various Heads = 0.58 cfs 0.35 Actual Discharge Rate Through Secondary Orifice For Cpv Drawdown (as needed) @ Various Heads = cfs Actual Cumulative Discharge Rates, Q = 0.58 cfs 0.35

Weir Calculations (TR-55 Ch. 6)

Extreme Flood Qf Outlet Control Weir

Discharge Qo=Qp-(Wqv +Cpv) Qp Lw=Qo/3.2\*Hw<sup>1.5</sup>=

Qf Discharge Qo=Qf-(Wqv +Cpv) Lw=Qo/2.67\*Hw<sup>1.5</sup>=

HW, π	Qo, crs	LW, π	i otal Actual	Discharge Rates_	
1.48	37.51		Qp, cfs =	37.97	
		6.5			
			·		
2.46	67.07		Qf, cfs =	67.65	
		6.5			

851.00

Not Reg'd

853.24

854.72

ft

ft

ft

New Qp based on Weir Lw

0.08

Total Weir Opening at Elevation

Elev 853.32

Outlet Structure Primary Orifice For WQv and/or Cpv Outlet Control 0.25 diameter pipe at inv. elevation Secondary Orifice For Cpv Outlet Control Not Reg'd ft diameter pipe at inv. elevation Total Weir Opening at crest elevation Overbank Flood Qp Outlet Control Weir 6.5 ft

6.5

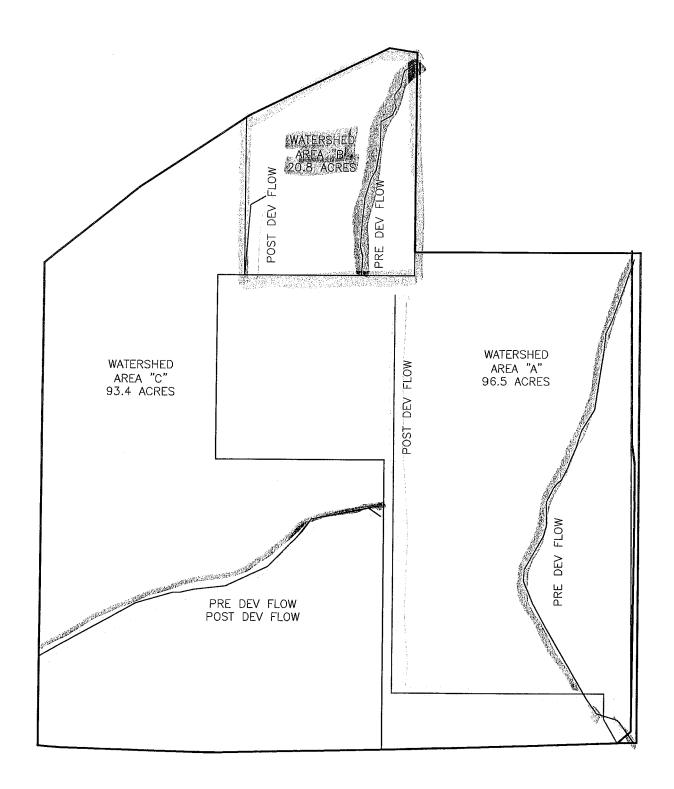
Outlet Pipe Sizing

Actual Qf Coeffic. Total CL Outlet Head Capacity, cfs No. of Diameter Area, A High **Outlet Pipes** Discharge, cfs in Inches Sq ft Water Elev. Elevation in feet С  $Q = C \times A \times (2gh^{0.5})$ Capacity, cfs 3.14 857.00 852.00 5.00 0.60 33.82 67.65 67.65

# **APPENDIX D-4**

# AREA B

Stormwater Calculations - Pre development USDA TR-55 Method



#### WinTR-55 Current Data Description

#### --- Identification Data ---

ARH User:

Date:

Project:

SubTitle: Area B Pre

12/1/2022 English Units:

State: New York

County:

Erie

Filename: \\Stationa\f\MCE\M2220 Alleghany Road (Geis)\DOCS\Area B Pre.w55

Areal Units: Acres

--- Sub-Area Data ---

Name	Description	Reach	Area(ac)	RCN	Tc
Area B Pre		Outlet	20.8	59	.339

Total area: 20.80 (ac)

#### --- Storm Data --

#### Rainfall Depth by Rainfall Return Period

2-Yr	5-Yr	10-Yr	25-Yr	50-Yr	100-Yr	1-Yr
(in)	(in)	(in)	(in)	(in)	(in)	(in)
2.2	2.69	3.25	3.84	4.48	6.0	1.8

Storm Data Source: User-provided custom storm data Rainfall Distribution Type: Type II
Dimensionless Unit Hydrograph: <standard>

#### Area B Pre Erie County, New York

#### Storm Data

#### Rainfall Depth by Rainfall Return Period

2-Yr	5-Yr	10-Yr	25-Yr	50-Yr	100-Yr	1-Yr
(in)	(in)	(in)	(in)	(in)	(in)	(in)
2.2	2.69	3.25	3.84	4.48	6.0	1.8

User-provided custom storm data

Storm Data Source: User-provide Rainfall Distribution Type: Type II Commensionless Unit Hydrograph: <standard>

#### Area B Pre Erie County, New York

#### Watershed Peak Table

Sub-Area or Reach Identifier	Peak 10-Yr (cfs)	Flow by 25-Yr (cfs)	Rainfall 100-Yr (cfs)	Return Period 1-Yr (cfs)	
SUBAREAS Area B Pre	5.49	11.01	39.49	.00	
REACHES					
OUTLET	5.49	11.01	39.49	.00	

#### Area B Pre Erie County, New York

#### Hydrograph Peak/Peak Time Table

Sub-Area or Reach Identifier	10-Yr	25-Yr	100-Yr	(hr) by Rainfall 1-Yr (cfs) (hr)	Return Period
SUBAREAS Area B Pre	5.49 12.16		39.49 12.11	.00 n/a	
REACHES					
OUTLET	5.49	11.01	39.49	.00	

#### Area B Pre Erie County, New York

#### Sub-Area Summary Table

Sub-Area Identifier	Drainage Area (ac)	Time of Concentration (hr)		Receiving Reach	Sub-Area Description
Area B Pre	20.80	0.339	59	Outlet	

Total Area: 20.80 (ac)

# Area B Pre Erie County, New York

#### Sub-Area Time of Concentration Details

Sub-Area Identifier/	Flow Length (ft)	Slope (ft/ft)	Mannings's n	End Area (sq ft)	Wetted Perimeter (ft)	Velocity (ft/sec)	Travel Time (hr)
Area B Pre SHEET SHALLOW	100 1230	0.0360 0.0360	0.240 0.050				0.227 0.112
				Ti	me of Conce	ntration =	.339

# Area B Pre Erie County, New York

#### Sub-Area Land Use and Curve Number Details

Sub-Area Identifier	Land Use			Hydrologic Soil Group	Sub-Area Area (ac)	Curve Number
Brush	- brush, weed, - brush, weed, - brush, weed, - brush, weed,	grass mix grass mix	(fair) (fair) (fair) (fair)	) B ) C	7.1 1.9 6.1 5.7	35 56 70 77
Total	Area / Weighted	d Curve Number			20.8	59 ==

# **APPENDIX D-5**

### AREA B

Stormwater Calculations - Post Developement USDA TR-55 Method

#### WinTR-55 Current Data Description

#### --- Identification Data ---

User:

\* (

ARH

Project:

Date: 11/29/2022 Units: English

SubTitle: Area B Post

Areal Units: Acres

New York State:

County:

Erie

Filename: Z:\MCE\M2220 Alleghany Road (Geis)\DOCS\Area B Post.w55

#### --- Sub-Area Data ---

Name	Description	Reach	Area(ac)	RCN	Tc
1104111-	·				
		0 1 1 - 5	20.8	73	0.1
Area B Pos		Outlet	20.8	7.5	0.1

Total area: 20.80 (ac)

#### --- Storm Data --

#### Rainfall Depth by Rainfall Return Period

2-Yr	5-Yr	10-Yr	25-Yr	50-Yr	100-Yr	1-Yr
(in)	(in)	(in)	(in)	(in)	(in)	(in)
2.2	2.69	3.25	3.84	4.48	6.0	1.8

Storm Data Source:

User-provided custom storm data

Rainfall Distribution Type: Type II Dimensionless Unit Hydrograph: <standard>

#### Area B Post Erie County, New York

#### Storm Data

#### Rainfall Depth by Rainfall Return Period

2-Yr	5-Yr	10-Yr	25-Yr	50-Yr	100-Yr	1-Yr
(in)	(in)	(in)	(in)	(in)	(in)	(in)
2.2	2.69	3.25	3.84	4.48	6.0	1.8

Storm Data Source: User-provided custom storm data Rainfall Distribution Type: Type II
Dimensionless Unit Hydrograph: <standard>

#### Area B Post Erie County, New York

#### Watershed Peak Table

Sub-Area or Reach Identifier	Peak 10-Yr (cfs)	Flow by 25-Yr (cfs)	Rainfall 100-Yr (cfs)	Return Period 1-Yr (cfs)	
SUBAREAS Area B Pos	31.09	44.35	99.07	5.95	
REACHES					
OUTLET	31.09	44.35	99.07	5.95	

#### Area B Post Erie County, New York

#### Hydrograph Peak/Peak Time Table

Sub-Area or Reach Identifier	10-Yr (cfs)	25-Yr (cfs)	Peak Time 100-Yr (cfs) (hr)	(cfs)	Return	Period
SUBAREAS Area B Pos	31.09 11.94			5.95 12.02		

REACHES

31.09 44.35 99.07 5.95 OUTLET

# Area B Post Erie County, New York

#### Sub-Area Summary Table

Sub-Area Identifier	Drainage Area (ac)	Time of Concentration (hr)	Curve Number	Receiving Reach	Sub-Area Description
Area B Pos	20.80	0.100	73	Outlet	

Total Area: 20.80 (ac)

#### Area B Post Erie County, New York

#### Sub-Area Time of Concentration Details

Sub-Area Identifier/	Flow Length (ft)	Slope (ft/ft)	Mannings's n	End Area (sq ft)	Wetted Perimeter (ft)	Velocity (ft/sec)	Travel Time (hr)
Area B Pos SHALLOW	449	0.0200	0.025	<del></del>			0.043
				Ti	me of Conce	ntration =	0.1

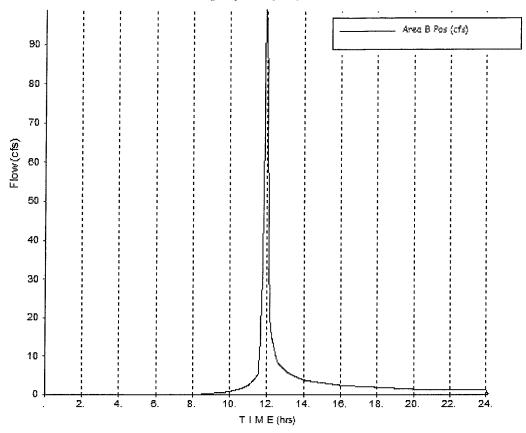
# Area B Post Erie County, New York

#### Sub-Area Land Use and Curve Number Details

Sub-Area Identifier	Land Use		Hydrologic Soil Group	Sub-Area Area (ac)	Curve Number
Area B PosOpen sp	ace; grass cover > 75%	(good)	A	5	39
Open sp	ace; grass cover > 75%	(good)	В	1.9	61
Open sp	ace; grass cover > 75%	(good)	С .	4	74
Open sp	ace; grass cover > 75%	(good)	D	3.7	80
Paved p	arking lots, roofs, driveways		А	2	98
Paved p	arking lots, roofs, driveways		В	.7	98
	arking lots, roofs, driveways		С	1.8	98
Paved p	arking lots, roofs, driveways		D	1.7	98
Total A	rea / Weighted Curve Number			20.8	73
	-				==

11/29/2022

ph **Project:**Subarea: (Area B Pos) Storm: 100-Yr
Z:\MCE\M2220 Alleghany Road (Geis)\DOCS\Area B Post.w55



# **APPENDIX D - 6**

AREA B

Stormwater Calculations

STORMWATER POLLUTION PREVENTION PLAN



# Metzger Civil

# ENGINEERING, PLLC

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Williamsville, New York 14221

Phone: 716-633-2601, Fax: 716-633-2704

Project: Allegany Road, Pembroke. By: ARH Date: 11/15/2022

Location: Pond B Checked: JCM Date:

County:

Genesee

# TR-55 Pre-Development Summary

#### STORM 1-Yr

II			and the second s	
Area or	Drainage	%	Runoff	Peak Flow
Reach	Area	of site	Amount, Qd	Rate
Identifier	(acres)		(in)	(cfs)
Entire Site	20.80	100		0.01
This Pond	20.8	100.0	0.0	0.01

#### STORM 10-Yr

Area or	Drainage	%	Runoff	Peak Flow
Reach	Area	of site	Amount, Qd	Rate
Identifier	(acres)		(in)	(cfs)
Entire Site	20.80	100		5.49
This Pond	20.8	100.0	0.4	5.49

#### STORM 100-Yr

Drainage	%	Runoff	Peak Flow
Area	of site	Amount, Qd	Rate
(acres)		(in)	(cfs)
20.80	100		39.43
20.8	100.0	1.8	39.43
	(acres) 20.80	Area of site (acres) 20.80 100	Area of site Amount, Qd (acres) (in)  20.80 100

Storm Event	Rainfall P, inches		Potential Retention S=(1000/CN)-10 inches	CN	Runoff Amount, Inches Qd = <u>(P-la)^2</u> ((P-la)+S)
		la = 0.2S, inches	6.95	59	0.03
1-yr	1.87	1.39 1.39	6.95	59	0.39
10-yr	3.25 6.00	1.39	6.95	59	1.84

Rainfall Distribution =

TYPE II

Time of Concentration, Tc (Hours) ≠

0.34



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Williamsville, New York 14221

Phone: 716-633-2601, Fax: 716-633-2704

Project: Location:	Allegany Road, Pembroke.	By:	ARH	Date:	11/15/2022
Location:	Pond B	Checked:	JCM	Date:	

### TR-55 Post Development Summary

#### STORM 1-Yr

1				
Area or	Drainage	%	Runoff	Peak Flow
Reach	Area	of site	Amount, Qd	Rate
Identifier	(acres)		(in)	(cfs)
Entire Site	20.80	100		5.95
This pond	20.80	100.0	0.3	5.95

#### STORM 10-Yr

Area or	Drainage	%	Runoff	Peak Flow
Reach	Area	of site	Amount, Qd	Rate
Identifier	(acres)		(in)	(cfs)
Entire Site	20.80	100		31.09
This pond	20.8	100.0	1.0	31.09

#### STORM 100-Yr

Area or	Drainage	%	Runoff	Peak Flow
Reach	Area	of site	Amount, Qd	Rate
Identifier	(acres)		(in)	(cfs)
Entire Site	20.80	100		99.07
This pond	20.8	100.0	3.1	99.07

Storm	Rainfall	Initial	Potential Retention		Runoff Amount, Inches
Event	P, inches	Abstraction	S=(1000/CN)-10	CN	Qd = <u>(P-la)^2</u>
		la = 0.2S, inches	inches		((P-la)+S)
1-yr	1.87	0.74	3.70	73	0.26
10-yr	3.25	0.74	3.70	73	1.01
100-yr	6.00	0.74	3.70	73	3.09

Rainfall Distribution =

TYPE II

Time of Concentration,  $Tc_{(Hours)} = 0.10$ 



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Williamsville, New York 14221

Phone: 716-633-2601, Fax: 716-633-2704

Project:	Allegany Road, Pembroke.	Ву:	ARH	Date:	11/15/2022
Location:	Pond B	Checked:	JCM	Date:	

#### Storage Volume Estimation

Taken from NYS Stormwater Management Design Manual (NYS-SMDM) Appendix B

Channel Area Final Phase = 20.8 Acres Protection Cp v 1 YR / 24-Hour Extended Detention 0.40 la / P (From Post Development Summary Sheet, 1yr storm) 0.10 hours Post Development Time of Concentration, Tc (From TR-55 Calcs) 750 cfs/sqmi/inch Unit Peak Discharge, qu (from TR-55 Exhibit 4-II, attached) 0.023 Ratio of Outflow to Inflow, qo/qi (NYS-SMDM Figure B.1, attached) Ratio of Storage Volume to Runoff Volume, vs/vr 0.65  $vs/vr = 0.682 - 1.43(qo/qi) + 1.64 (qo/qi)^2 - 0.804 (qo/qi)^3 =$ 0.3 inches Pos-Dev Runoff Amount, Qd (From Post Development Summary Sheet) 0.3 acre-feet Req'd Storage Volume<sub>(acre-feet)</sub>,  $vs = ((v_s/v_r) (Q_{d, inches}) (A_{d, acres})) / 12_{inches/foot}$ cubic feet 12,983 Reg'd Storage Volume(cubic feet), vs = vs (acre-feet) x 43560 sq.ft./acre 0.15 cfs Cp.-ED Average release rate over 24 hours = vs (cubic feet) / 86400 seconds/24 hrs

Flood Flood
Q<sub>p</sub> Q<sub>f</sub>
10YR 100 YR
5.49 39.43 cfs
31.09 99.07 cfs

Overbank

1.01 3.09 inches

Extreme

0.18	0.40	
0.47	0.32	
0.83	1.71	acre-feet
36,016	74,625	cubic feet

Pre-Dev Peak Flow Q<sub>O (From TR-55 Output)</sub> Pos-Dev Peak Flow Q<sub>I (From TR-55 Output)</sub>

Pos-Dev Runoff Amount,  $Q_{d \text{ (From Post Development Summary Sheet)}}$ 

Ratio of Pre-Dev Peak Flow to Pos-Dev Peak Flow,  $Q_O/Q_I$ Ratio of Storage Volume to Runoff Volume,  $V_S/V_R$  (From TR-55 Fig 6-1, Type II, attached) Req'd Storage Volume<sub>(acre-feet)</sub>,  $V_S = [((V_S/V_r) (Q_{d, inches}) (A, acres)) / 12_{in./ft.}]$ Req'd Storage Volume<sub>(cubic feet)</sub>,  $V_S = V_S (Acre-feet) \times 43560_{Sq.ft./acre}$ 



Location: Pond B

# **M**ETZGER

# $\mathbf{C}_{\text{IVIL}}$

Allegany Road, Pembroke.

ENGINEERING, PLLC

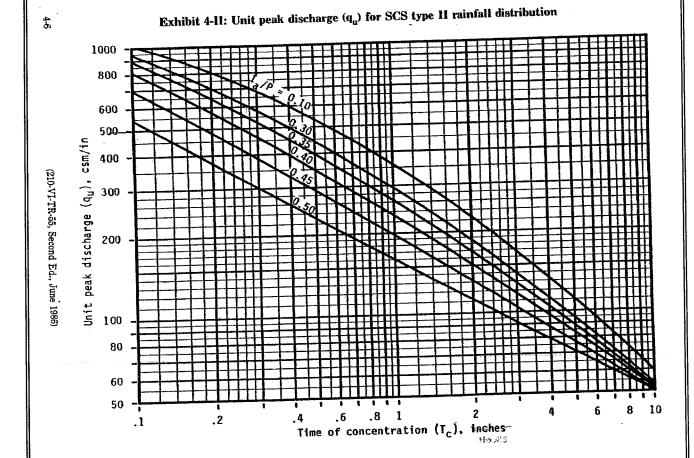
8245 Sheridan Drive

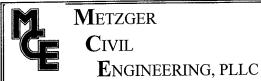
Williamsville, New York 14221

Phone: 716-633-2601, Fax: 716-633-2704

1 110110.			
 By:	ARH	Date:	11/15/2022
Checked:	JCM	Date:	

# Storage Volume Estimation - Continued





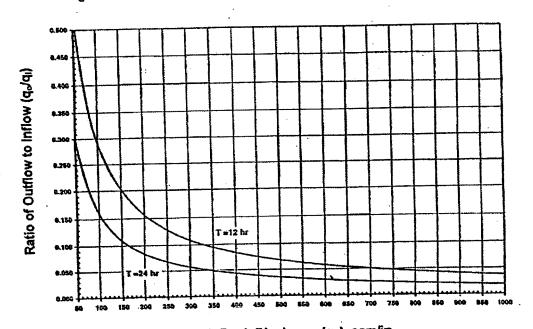
8245 Sheridan Drive

Williamsville, New York 14221

Phone: 716-633-2601, Fax: 716-633-2704

Project:	Allegany Road, Pembroke.	By: ARH	Date:	11/15/2022
Location:	Pond B	Checked: JCM	Date:	

Figure B.1 Detention Time vs. Discharge Ratios (Source: MDE, 2000)



Unit Peak Discharge (qu), csm/in



# Metzger Civil

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Proiect:	Allegany Road, Pembroke.	By: ARH	Date:	11/15/2022
Location:	Pond B	Checked: JCM	Date:	

# Storage Volume Estimation - Continued

#### Input requirements and procedures

Use figure 6-1 to estimate storage volume  $(V_s)$  required or peak outflow discharge  $(q_o)$ . The most frequent application is to estimate  $V_s$ , for which the required inputs are runoff volume  $(V_r)$ ,  $q_o$ , and peak inflow discharge  $(q_i)$ . To estimate  $q_o$ , the required inputs are  $V_r$ ,  $V_s$ , and  $q_i$ .

#### Estimating V<sub>s</sub>

Use worksheet 6a to estimate  $V_a$ , storage volume required, by the following procedure.

- Determine q<sub>0</sub>. Many factors may dictate the selection of peak outflow discharge. The most common is to limit downstream discharges to a desired level, such as predevelopment discharge. Another factor may be that the outflow device has already been selected.
- Estimate q<sub>i</sub> by procedures in chapters 4 or 5. Do not use peak discharges developed by any other procedure. When using the Tabular Hydrograph method to estimate q<sub>i</sub> for a subarea, only use

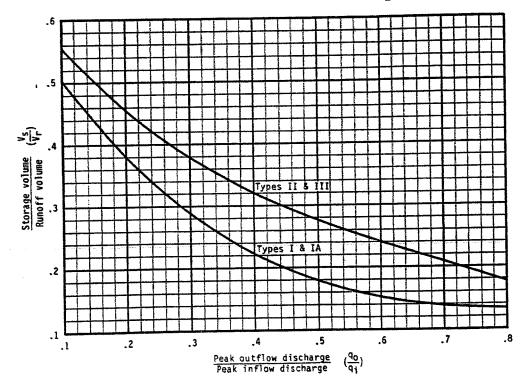


Figure 6-1.-Approximate detention basin routing for rainfall types I, IA, II, and III.

6.2

(210-VI-TR-55, Second Ed., June 1986)



### METZGER $\mathbf{C}$ ivil

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	,				
Project:	Allegany Road, Pembroke.	By:	ARH	Date:	11/15/22
Location:	Pond B	Checked:	JCM	Date:	

#### Water Quality and Pond Volumes

#### Water Quality Volume, WQv From NYS Stormwater Management Design Manual (NYS-SMDM), Section 4 WQv = (P\*Rv\*A) / 12P=90% Rainfall Event No. for WNY 29.0 Percent I = Impervious cover Rv = 0.05 + 0.009 \* I0.31 20.80 acres A = Site area 19,959 Total WQv Required = 0.46 acre-feet = 9,980 Total Minimum Req'd Permanent Pool Volume, PPV = Total WQv x 50% 0.23 acre-feet =

0.046 acre-feet = 1,996 cf Reg'd Forebay (Pretreatment) Volume = Total WQv x 10% = 0.183 acre-feet = Reg'd Permanent Pool Volume in the "Wet Pool" = Total PPV - Reg'd Forebay Volume = 7,984 cf

Is "Wet Pool" Volume Provided = or > the Total WQv Required?

Yes, 100% of WQv Provided In Wet Pool, Therefore, WQv-ED Not Req'd

acre-feet = Reg'd WQv-ED Volume (i.e, volume above Normal Water Level) =Total WQv x 50% = WQv-ED Average release rate over 24 hours = WQv-ED (cubic feet) / 86400 secs/24 hrs = c.f.s.

	Pond Levels and Volumes									
Pond A	HWE, ft	HWE Area, sf	LWE, ft	LW Area, sf	water depth, ft	Avg. Area, sf	Vol. Provided, cf	Vol. Req'd, cf	Vol.Prv acft	Difference
"Wet Pool"	867.00	22,287	861.00	7101	6.00	14,694	88,164	7,984	2.02	80,180
WQ <sub>v-</sub> ED								None Reg'd		
Ср <sub>v</sub>	867.60	23,970	867.00	22287	0.60	23,128	13,877	12,983	0.32	894
$Q_p$	868.50	26,493	867.00	22287	1.50	24,390	36,585	36,016		569
$Q_f$	870.00	30,700	867.00	22287	3.00	26,493	79,480	74,625		4,856
0.1017		074								

Set Pond TOB @ EL. 33504 sf Area @ TOB

#### WQv Storm Event Peak Flow Calculation (WQv Qp)

#### For Sizing Proprietary Pretreatment Structures If Used In Lieu Of Pretreatment Forebay

From NYS Stormwater Management Design Manual (NYS-SMDM), Appendix B.2

0.10 hr Post Development Time of Concentration, Tc (From TR-55 Calcs) Initial Abstraction, Ia (From Post Development Summary Sheet) 0.74 0.87 Ia / P (Where P=90% Rainfall Event No. from WQv calcs above) Unit Peak Discharge, qu (from TR-55 Exhibit 4-II, attached) 500 cfs/sqmi/inch 0.26 inches WQv in watershed inches = [WQv (acre-feet) / Area (acres)] x 12 inches/foot

A = area in square miles WQv Qp (cfs) = qu (cfs/sq.miles/inch) x A (sq.miles) x WQv (inches)

Wqv Peak Discharge Qp =

0.43 Required pretreatment = 10% of total Wqv

4.3

0.0325 sq. miles

cfs



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Location:	Pond B	Checked: JCM	Date:		

#### **Outlet Control Structure Design**

Normal Water Level	Water Elevations 867.00	Allowable Discharge R	ates, Qo		
Water Quality Volume Extended Detention, WQv-ED	007.00		cfs	for 24 hour release	< Not Rea'd
Stream Channel Protection "Cpv" 1 year storm	867.60	0.15	cfs	for 24 hour release	
Overbank Flood Control Criteria "Qp" 10 year storm	868.50	5.49	cfs		
Extreme Flood Control Criteria "Qf" 100 year storm	870.00	39.43	cfs		
Top of Bank / emergency spillway elevation	871.00				

Heads, h (feet), for Calculating Flows Through Various Orifices							
When Water Elev. Is @	Primary Orifice, h =	Secondary Orifice, h =					
WQv-ED							
Cpv	0.48						
Qp	1.38						
Qf	3.88						

Orifice diameter (Note: Minimum per NYS-SMDM = 0.25')

Area of pipe or slot =  $\dot{A}$ Orifice coefficient = C

Acceleration due to gravity = g

No. of Outlet Control Orifices Provided = 1							
Primary Drawdown Orifice For WQv and/or Cpv	Secondary Drawdown Orifice For Cpv (as needed)						
0.25	0.25	ft					
0.05	0.05	sq ft					
0.61	0.61						
32.20	32.20	ft/sec <sup>2</sup>					

Torricelli Equation - Orifice Calculations

Orifice Discharge Rates, Q=CA(2gh)^.5 When Water Elevations are at the following stages ---> WQv Сρν Qр Actual Discharge Rate Through Primary Orifice For WQv and/or Cpv Drawdown @ Various Heads = 0.28 0.17 0.47 cfs Actual Discharge Rate Through Secondary Orifice For Cpv Drawdown (as needed) @ Various Heads = cfs Actual Cumulative Discharge Rates, Q = 0.17 0.28 0.47 cfs

Weir Calculations (TR-55 Ch. 6)

Qр Discharge Qo=Qp-(Wqv +Cpv) Lw=Qo/3.2\*Hw<sup>1.5</sup>= Qf

Discharge Qo=Qf-(Wqv +Cpv) Lw=Qo/2.67\*Hw<sup>1.5</sup>=

Hw, ft	Qo, cfs	Lw, ft	Total Actual Disc	charge Rates
0.90	10.72		Qp, cfs = 11	1.00
		3.9		·
2.40	38.96	3.9	Qf, cfs = 39	9.43

New Qp based on Weir Lw

0.15

867.75

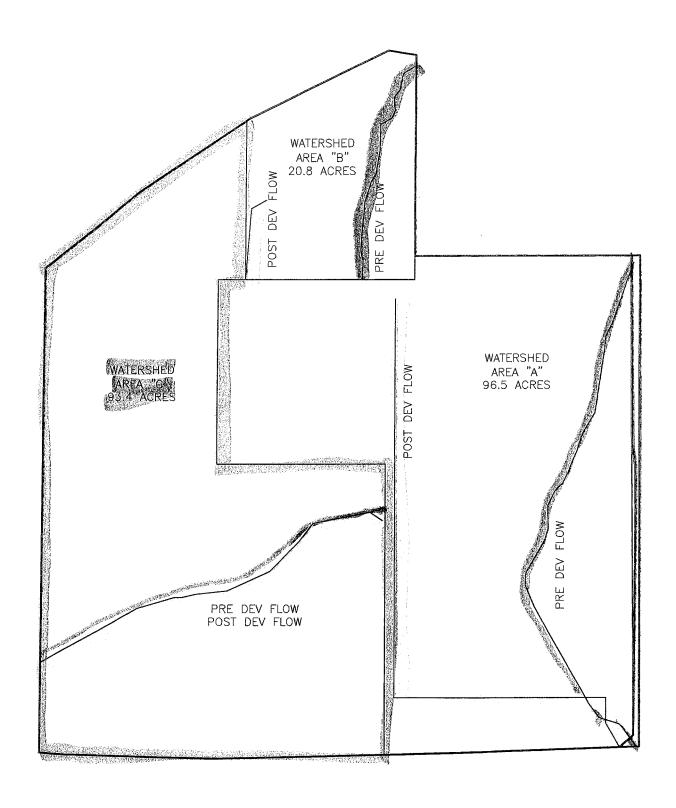
Elev

II.												
Outlet Struc	ture											·· · · · · · · · · · · · · · · · · · ·
Primary Orific	e For WQv	and/or Cpv C	outlet Contro	d	0.25	ft	=	diameter pipe at inv. el	levation	867.00	ft	
Secondary O	rifice For C <sub>I</sub>	ov Outlet Con	trol		Not Req'd	ft	=	diameter pipe at inv. el	levation	Not Req'd	ft	
Overbank Flo	od Qp Outl	et Control We	ir		3.9	ft	=	Total Weir Opening at	crest elevation	867.60	ft	
Extreme Floo	d Qf Outlet	Control Weir			3.9	ft	=	Total Weir Opening at	Elevation	868.50	ft	
Outlet Pipe S	Sizing											
Diameter	Area, A	High	CL Outlet	Head		Co	effic.	Capacity, cfs	No. of	Total		Actual Qf
in Inches	Sq ft	Water Elev.	Elevation	in feet			С	$Q = C \times A \times (2gh^{0.5})$	Outlet Pipes	Capacity, cfs		Discharge, cfs
24	3.14	871.00	868.00	3.00		(	0.60	26.20	2	52.40	1	39.43

### **APPENDIX D-7**

### AREA C

Stormwater Calculations - Pre development USDA TR-55 Method



WinTR-55 Current Data Description

#### --- Identification Data ---

User: ARH Date:

Project:

SubTitle: Area C Pre

1/4/2023 English Units:

Areal Units: Acres

State: New York

County: Erie

Filename: Z:\MCE\M2220 Alleghany Road (Geis)\DOCS\Area C Pre.w55

#### --- Sub-Area Data ---

Name	Description	Reach	Area(ac)	RCN	Tc
			<b></b>		
Area C Pre		Outlet	93.4	54	.468

Total area: 93.40 (ac)

#### --- Storm Data --

#### Rainfall Depth by Rainfall Return Period

2-Yr	5-Yr	10-Yr	25-Yr	50-Yr	100-Yr	1-Yr
(in)	(in)	(in)	(in)	(in)	(in)	(in)
2.2	2.69	3.25	3.84	4.48	6.0	1.8

Storm Data Source:

User-provided custom storm data

Rainfall Distribution Type: Type II
Dimensionless Unit Hydrograph: <standard>

#### Area C Pre Erie County, New York

#### Storm Data

#### Rainfall Depth by Rainfall Return Period

2-Yr	5-Yr	10-Yr	25-Yr	50-Yr	100-Yr	1-Yr
(in)	(in)	(in)	(in)	(in)	(in)	(in)
2.2	2.69	3.25	3.84	4.48	6.0	1.8

User-provided custom storm data

Storm Data Source: User-provide Rainfall Distribution Type: Type II Dimensionless Unit Hydrograph: <standard>

### Area C Pre Erie County, New York

#### Watershed Peak Table

Sub-Area or Reach Identifier	Peak 10-Yr (cfs)	Flow by 25-Yr (cfs)	Rainfall 100-Yr (cfs)	Return Period 1-Yr (cfs)	
SUBAREAS Area C Pre	7.42	20.36	106.35	.00	 
REACHES					
OUTLET	7.42	20.36	106.35	.00	

### Area C Pre Erie County, New York

#### Hydrograph Peak/Peak Time Table

Sub-Area or Reach Identifier	10-Yr	25-Yr		(hr) by Rainfall 1-Yr (cfs) (hr)	Return	Period	
SUBAREAS Area C Pre	7.42 12.31	20.36	106.35 12.18	.00 n/a	<u>,</u>		
REACHES							
OUTLET	7.42	20.36	106.35	.00			

### Area C Pre Erie County, New York

#### Sub-Area Summary Table

Sub-Area Identifier	Drainage Area (ac)	Time of Concentration (hr)		Receiving Reach	Sub-Area Description
Area C Pre	93.40	0.468	54	Outlet	

Total Area: 93.40 (ac)

### Area C Pre Erie County, New York

#### Sub-Area Time of Concentration Details

Sub-Area Identifier/	Flow Length (ft)	Slope (ft/ft)	Mannings's n	End Area (sq ft)	Wetted Perimete (ft)	er Velocity (ft/sec)	Travel Time (hr)
Area C Pre SHEET SHALLOW	100 1912	0.0220 0.0140	0.150 0.050				0.190 0.278
				Tir	me of Co	ncentration	.468

### Area C Pre Erie County, New York

#### Sub-Area Land Use and Curve Number Details

Sub-Area Identifier	Land Use		Hydrologic Soil Group	Sub-Area Area (ac)	Curve Number
Brush Brush	<ul><li>brush, weed, grass mix</li><li>brush, weed, grass mix</li><li>brush, weed, grass mix</li><li>brush, weed, grass mix</li></ul>	(good (good (good	) B ) C	30.8 8.5 28 26.1	30 48 65 73
Total	Area / Weighted Curve Number			93.4	54 ===

#### WinTR-55 Current Data Description

#### --- Identification Data ---

User: ARH

Date: 1/4/2023 Units: English

Project:

. . .

SubTitle: Area C Post

Areal Units: Acres

New York State:

Erie County:

Filename: Z:\MCE\M2220 Alleghany Road (Geis)\DOCS\Area C Post.w55

#### --- Sub-Area Data ---

Name	Description	Reach	Area(ac)	RCN	Tc
	<del></del>		- <b></b>		
Area C Pos		Outlet	93.4	54	.293

Total area: 93.40 (ac)

#### --- Storm Data --

#### Rainfall Depth by Rainfall Return Period

2-Yr	5-Yr	10-Yr	25-Yr	50-Yr	100-Yr	1-Yr
(in)	(in)	(in)	(in)	(in)	(in)	(in)
2.2	2.69	3.25	3.84	4.48	6.0	1.8

Storm Data Source:

User-provided custom storm data

Rainfall Distribution Type: Type II Dimensionless Unit Hydrograph: <standard>

#### Area C Post Erie County, New York

#### Storm Data

#### Rainfall Depth by Rainfall Return Period

2-Yr	5-Yr	10-Yr	25-Yr	50-Yr	100-Yr	l-Yr
(in)	(in)	(in)	(in)	(in)	(in)	(in)
2.2	2.69	3.25	3.84	4.48	6.0	1.8

Storm Data Source:

User-provided custom storm data

Rainfall Distribution Type: Type II
Dimensionless Unit Hydrograph: <standard>

### Area C Post Erie County, New York

#### Watershed Peak Table

Sub-Area or Reach Identifier	Peak 10-Yr (cfs)	25-Yr	100-Yr	Return Period 1-Yr (cfs)	
SUBAREAS Area C Pos	9.72	27.68	140.96	.00	
REACHES					
OUTLET	9.72	27.68	140.96	.00	

#### Area C Post Erie County, New York

#### Hydrograph Peak/Peak Time Table

Sub-Area or Reach Identifier	Peak 10-Yr (cfs) (hr)	Flow and 25-Yr (cfs) (hr)	100-Yr	(hr) by Rainfall 1-Yr (cfs) (hr)	Return	Period
SUBAREAS Area C Pos	9.72 12.16	27.68 12.12	140.96 12.10	.00 n/a		
REACHES						
OUTLET	9.72	27.68	140.96	.00		

### Area C Post Erie County, New York

#### Sub-Area Summary Table

Sub-Area Identifier	Drainage Area (ac)	Time of Concentration (hr)		Receiving Reach	Sub-Area Description
Area C Pos	93.40	0.293	54	Outlet	

Total Area: 93.40 (ac)

#### Area C Post Erie County, New York

#### Sub-Area Time of Concentration Details

Sub-Area Identifier/	Flow Length (ft)	Slope (ft/ft)	Mannings's n	End Area (sq ft)	Wetted Perimeter (ft)	Velocity (ft/sec)	Travel Time (hr)
Area C Pos SHALLOW SHALLOW	15 1997	0.0150 0.0140	0.025 0.050	<b></b>	<b></b>		0.002 0.291
				Ti	me of Conce	ntration =	.293

#### Area C Post Erie County, New York

#### Sub-Area Land Use and Curve Number Details

Sub-Area Identifier	Land Use		Hydrologic Soil Group	Sub-Area Area (ac)	Curve Number
Brush Brush	<ul> <li>brush, weed, grass mix</li> <li>brush, weed, grass mix</li> <li>brush, weed, grass mix</li> <li>brush, weed, grass mix</li> </ul>	(good) (good) (good)	) B ) C	31.2 7.7 28.2 26.3	30 48 65 73
Total	Area / Weighted Curve Number			93.4	54 ==

### APPENDIX E

Green Infrastructure Planning and Design

STORMWATER POLLUTION PREVENTION PLAN

#### GREEN INFRASTRUCTURE PLANNING AND DESIGN

The New York State Stormwater Management Design Manual (January, 2015) outlines a fivestep process that planners and designers must use to address runoff reduction from development sites. This process involves consideration of stormwater management through site planning and consideration of green infrastructure techniques, as well as standard stormwater management practices in an effort to achieve reduction in runoff volumes from the developed site and improve the quality of stormwater discharges from the project site. The five steps include:

- 1. Site Planning to preserve natural features and reduce impervious cover,
- 2. Calculation of the Water Quality Volume (WQv) for the site,
- 3. Incorporation of Green Infrastructure techniques and standard SMP's with Runoff Reduction Volume (RRv) capacity,
- 4. Use of Standard SMP's, where applicable, to treat the portion of water quality volume not addressed by Step 3 (Green Infrastructure techniques and standard SMP's with Runoff Reduction Volume (RRv) capacity); and
- 5. Design of volume and peak rate control practices where required.

The following sections discuss how this five-step process was used for this project.

#### **Step 1: Site Planning**

#### A. Conserve Natural Areas

1. Preservation of Undisturbed Areas

The east end of the site contains wetlands. These areas have been deliberately avoided and will remain as natural areas.

2. Preservation of Buffers

The east end of the site will be avoided which will provide a large buffer.

3. Reduction of Clearing and Grading

The project has been designed to limit clearing and grading to the minimum amount needed for roadways, buildings, utilities and stormwater management facilities.

4. Locating Development in Less Sensitive Areas

The parcel contains a wetlands to the east. This more sensitive area will be left undeveloped.

5. Open Space Design

This is a commercial site and not a candidate for an open space design.

6. Soil Restoration

Restoration of soils for proposed grassed areas, will be as required by the NYS Stormwater Management Design Manual.

#### B. Reduce Impervious Cover

1. Roadway Reduction

The roadways have been design to meet the minimum amount needed for the proposed development and fire codes.

#### 2. Sidewalk Reduction

This project has no proposed sidewalks.

#### 3. Driveway Reduction

The driveways are designed to ensure the driveways are as narrow as possible.

#### 4. Cul-de-sac Reduction

The site has no culs-de-sac.

#### 5. Building Footprint Reduction

The footprints have designed to the minimum size needed for the intended use.

#### 6. Parking Reduction

Parking has been designed to the minimum needed to serve the buildings.

#### **Step 2: Determine Water Quality Volume (WQv)**

The water quality volume of the site has been calculated by the methods specified in the manual: The calculations are provided on the attached spreadsheet.

## Step 3: Runoff Reduction by Applying Green Infrastructure Techniques and Standard SMP's with Runoff Reduction Volume (RRv) capacity

1. Conservation of Natural Areas

The west end of the contains a wetland. These areas have been deliberately avoided and will remain as natural areas.

#### 2. Sheet flow to Riparian Buffers or Filter Strips

A filter strip has been designed to sheet flow onto the bioretention area.

#### 3. Vegetated Open Swales

The site does not lend itself to open swales.

#### 4. Tree Planting / Tree Box

The site has been actively farmed and most of the area to be developed has already been cleared of trees The trees to the west will be preserved.

5. Disconnection of Rooftop Runoff

This is a commercial site. The rainwater from the rooftops will be directed to a bio retention area and then a wet detention area with an outlet control structure.

6. Stream Daylighting

Not Applicable to this project, as there are no piped streams running through the site.

7. Rain Garden

The project is commercial in nature. The use of rain gardens would not be practical.

8. Green Roof

This project consists of commercial structures with traditional roof styling and are not conducive to the use of green roofs.

9. Stormwater Planters

The intended use of this project does not allow for stormwater planters.

10. Rain Tanks / Cisterns

The project is commercial in nature. The use of rain tanks would not be practical.

11. Porous Pavement

Due to the severe weather, frost heave and the need for snow plowing in Western New York, porous pavement is not practical.

12. Standard SMP's with RRv Capacity

Infiltration Practice, Bioretention Practice, Dry Swale (Open Channel Practice)

This site uses a bioretention areas to provide most of the needed Green Infrastructure.

# Step 4: Apply Standard SMP's To Address Remaining WQv and Step 5: Apply Volume and Peak Rate Control Practices

The Standard SMP's from the NYS Stormwater Management Design Manual include: Stormwater Ponds, Stormwater Wetlands, Filters, Infiltration, and Open Channels.

For this project, two wet detention ponds were designed to address the remaining WQv for the site, as well as provide volume and peak rate controls. A complete set of Stormwater Calculations have been prepared. A bioretention area will provide pretreatment and filtration of stormwater prior to discharging the water to the wet ponds. Stormwater will be discharged from the wet pond through an outlet control structure.

The pond will receive and detain flows until the storm subsides and allows the pond to drain through the outlet control structure. The pond has been designed, in accordance with the New York State Stormwater Management Design Manual, to allow for sufficient storage to attenuate and release stormwater from the developed site at discharge rates not exceeding the predeveloped rates for the following conditions:

- <u>Channel Protection Volume Requirements:</u> Attenuate 1-year post development peak discharge to 1-year pre-development peak discharge.
- Overbank Flood Requirements: Attenuate 10-year post development peak discharge to 10-year pre-development peak discharge.
- Extreme Flood Requirements: Attenuate 100-year post development peak discharge to 100-year pre-development peak discharge.

#### **Summary:**

The stormwater management system for this project has been designed to incorporate Green Infrastructure Techniques through planning measures as discussed above.

The RRv achieved by these practices meets the minimum RRv required for the site. Supporting calculations are given on the attached spreadsheets.

Area A - 96.50 acres - Bioretention with wet pond, controlled outlet

Area B - 20.80 acres - Bioretention with wet pond, controlled outlet

Area C - 93.40 acres - Conservation of natural areas (WQV reduced by area reduction)

Total area 210.7 acres

Min RRv required - 99,023 cu.ft.

Area A Bioretenion - RRV provided - 72,271 cu.ft.

Area B Bioretention-RRV provided - 9,800 cu.ft.

Area C Conservation - RRV provided - 16,952 cu.ft.

Total RRV provided

- 99, 023 cuft

The WQv will be treated by two on site stormwater detention ponds, bioretention pretreatment and outlet control structures. Therefore the site complies with the requirements set forth in the New York State Department of Environmental Conservations Stormwater Design Manual.

## Total Water Quality Volume Calculation WQv(acre-feet) = [(P)(Rv)(A)] /12

		All:	Subcatchments			
Catchment	Total Area	Impervious Cover	Percent Impervious	Runoff Coefficient	WQv	Description
	(Acres)	(Acres)			(ft³)	
1	96.50	72.80	0.75	0.73	255352.35	Bioretention
2	20.80	6.20	0.30	0.32	24,031	Bioretention
3	93.40	0.00	0.00	0.05	16952.10	Conservation of
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						

### Minimum RRv

Enter the Soils Da	ta for the site		
Soil Group	Acres	S	
A	69.50	55%	
В	19.00	40%	7
С	63.20	30%	
D	59.00	20%	
Total Area	210.7		
Calculate the Min	imum RRv		
S =	0.36		
Impervious =	79.00	acre	
Precipitation	1	in	
Rv	0.95		
Minimum RRv	99,023	ft3	
	2.27	af	

Total Water Quality Volume Calculation WQv(acre-feet) = [(P)(Rv)(A)] /12

Version 1.8 Last Updated: 11/09/2015

Design Point: Manually enter P, Total Area and Impervious Cover.

P= 1.00 inch

	the desired by a sixty as parties and a second control of	32				the reservoir and the reservoir section of the	
		Breakdow	n of Subcatchme	nts		1 V V	
Catchment Number	Total Area (Acres)	Impervious Area (Acres)	impervious		WQv (ft³)	Description	
1	96.50	72.80	75%	0.73	255,352	Bioretention	
2	20.80	6.20	30%	0.32	24,031	Bioretention:	
3	93.40	0.00	0%	0.05	16,952	Conservation of Natural Areas	
4							
5							
6						1.00	
7							
8							
9							
10							
Subtotal (1-30)	210.70	79.00	37%	0.39	296,335	Subtotal 1	
Total	210.70	79.00	37%	0.39	296,335	Initial WQv	

	identify Runori Reduction Techniques by Alea						
Technique	Total Contributing Area	Contributing Impervious Area	Notes				
	(Acre)	(Acre)					
Conservation of Natural Areas	93.40	0.00	minimum 10,000 sf				
Riparian Buffers	0.00	0.00	maximum contributing length 75 feet to 150 feet				
Filter Strips	0.00	0.00					
Tree Planting	0.00	0.00	Up to 100 sf directly connected impervious area may be subtracted per tree				
Total	93.40	0.00					

Recalci	ulate WQv after app	lication of Area Re	eduction Tech	niques		•	
	Total Area (Acres)	Impervious Area (Acres)	Percent	Runoff	WQv (ft.³)		
"< <initial th="" wqv"<=""><th>210.70</th><th>79.00</th><th>37%</th><th>0.39</th><th>296,335</th><th></th><th></th></initial>	210.70	79.00	37%	0.39	296,335		
Subtract Area	-93.40	0.00					
WQv adjusted after Area Reductions	117.30	79.00	67%	0.66	279,383		
Disconnection of Rooftops		0.00			Proposition of		
Adjusted WQv after Area Reduction and Rooftop Disconnect	117.30	79.00	67%	0.66	279,383	6.41	af
WQv reduced by Area Reduction techniques					16,952	0.39	af

### **Conservation of Natural Areas**

Design Point:						
F	Er	nter Site Data	For Drainage	e Area to	be Treated I	oy Practice
Catchment Number	Total Area (Acres)	Impervious Area (Acres)	Percent Impervious %	Rv	<b>W</b> Qv (ft <sup>3</sup> )	Precipitation (in)
3	93.40	0.00	0.00	0.05	16952.10	#NAME?

Design Elements	
Is Contiguous Area ≥ 10,000 ft2?	Yes
Will limits of disturbance be clearly shown on all construction drawings and marked in field/project development site with structural barriers?	Yes
Is the Conservation area located in an acceptable conservation easement instrument that ensures perpetual protection of proposed area?	Yes
Does the easement specify how the natural area vegetation will be managed and boundaries will be marked?	Yes
Does the conservation area receive runoff from other contributing areas?	No :
Does Conservation Area drain to a Design Point?	No
Is Sheet Flow to Riparian Buffer or another area based practice already being Used for this area?	No

Are All Criteria in Section 5.3.1 Met?	Yes			
	Area Reduction Adjustments			
Subtract 93.40	Acres from Total Area			
Subtract 0.00	Acres from Total Impervious Area			

	Runoff Reductio	n Volun	ie and freated	Lyolumes	
	Runoff Reduction Techiques/Standard SMPs		Total Contributing Area	Total Contributing Impervious Area	WQv Reduced (RRv)
			(acres)	(acres)	cf
	Conservation of Natural Areas	RR-1	93.40	0.00	
ion	Sheetflow to Riparian Buffers/Filter Strips	RR-2	0.00	0.00	
Area/Volume Reduction	Tree Planting/Tree Pit	RR-3	0.00	0.00	
Red	Disconnection of Rooftop Runoff	RR-4		0.00	
l e l	Vegetated Swale	RR-5	0.00	0.00	0
l j	Rain Garden	RR-6	0.00	0.00	0
	Stormwater Planter	RR-7	0.00	0.00	0
rea	Rain Barrel/Cistern	RR-8	0.00	0.00	0
	Porous Pavement	RR-9	0.00	0.00	0
	Green Roof (Intensive & Extensive)	RR-10	0.00	0.00	0
2	Infiltration Trench	I-1	0.00	0.00	0
Ki	Infiltration Basin	I-2	0.00	0.00	0
\ \frac{2}{5} \	Dry Well	I-3	0.00	0.00	0
rd SMPs Capacity	Underground Infiltration System	1-4			
Standard SMPs w/RRv Capacity	Bioretention & Infiltration Bioretention	F-5	117.30	79.00	83720
Sta	Dry swale	0-1	0.00	0.00	0
	Micropool Extended Detention (P-1)	P-1		200	
	Wet Pond (P-2)	P-2	34.	12 (12 (12 (12 (12 (12 (12 (12 (12 (12 (	
	Wet Extended Detention (P-3)	P-3			
	Multiple Pond system (P-4)	P-4			
أ م ا	Pocket Pond (p-5)	P-5		The second secon	
Standard SMPs	Surface Sand filter (F-1)	F-1			
lS b	Underground Sand filter (F-2)	F-2			
dar	Perimeter Sand Filter (F-3)	F-3		10.00	
tan	Organic Filter (F-4	F-4			
	Shallow Wetland (W-1)	W-1	unit de la companya de la companya de la companya de la companya de la companya de la companya de la companya	81	
	Extended Detention Wetland (W-2	W-2			
	Pond/Wetland System (W-3)	W-3		35	
	Pocket Wetland (W-4)	W-4		and the second s	
<u> </u>	Wet Swale (O-2)	0-2			
	Totals by Area Reduction	$\rightarrow$	93.40	0.00	16952
	Totals by Volume Reduction		0.00	0.00	0
	Totals by Standard SMP w/RRV		117.30	79.00	83720
	Totals by Standard SMP	$\rightarrow$	0.00	0.00	

### **Bioretention Worksheet**

## (For use on HSG C or D Soils with underdrains) Af=WQv\*(df)/[k\*(hf+df)(tf)]

Af WQv df	Required Surface Area (ft2) Water Quality Volume (ft3) Depth of the Soil Medium (feet)	k	The hydraulic conductivity [ft/day], can be varied depending on the properties of the soil media. Some reported conductivity values are: <b>Sand</b> - 3.5 ft/day (City of Austin 1988); <b>Peat</b> - 2.0 ft/day (Galli 1990); <b>Leaf Compost</b> -
hf	Average height of water above the planter bed		8.7 ft/day (Claytor and Schueler, 1996); Bioretention Soil
tf	Volume Through the Filter Media (days)		(0.5 ft/day (Claytor & Schueler, 1996)

y volume imough	Tere Friter Wiedi	a (aaya)				
Design Politic	7					
CONTRACTOR OF THE PROPERTY OF	ran/Site Daire E	or Dialinage /	Ayrejar ko lb	e Jingerikeri jeyyr:	linoites :	
	เสบอไฟลเรตุเกไ	Perdent		(,//,G)y		
cardimieni liotali/Area	/\/\text{text}	Hangistaviterus	RW		Bedigication	्षे <b>)</b> लब्द्य( <b>)</b> हार)।
Mumbjer (Acres)	((Axires))	1/2/		f(t)	((11)	
96.50	72.80	0.75	0.73	255352.35	1.00	Bioretention
Enter Impervious Area Reduced	0.00	75%	0.73	255,352	< <wqv ad<="" after="" td=""><td>, ,</td></wqv>	, ,
by Disconnection of Rooftops	J J J J	73/8	0.73	233,332	Disconnected R	ooftops
Enter the portion of the WQv t	hat is not redu	ced for all pr	actices	0	ft <sup>3</sup>	
routed to this practice.			water contract the contract of			
	may make the state of the state	Soillinto	rmation			
Soil Group	A A		Т			
Soil Infiltration Rate	2.00	in/hour	Design a	is an infiltration	bioretention pra	ctice
Using Underdrains?	Yes Y	Okay				
	(03][6]	ularterili a (Mili	ATT CONTRACTOR OF THE PARTY OF	The second of the second secon	Unitis (1907)	ika a
		I	WATER STREET, CHEAD WAS ASSESSED.	Valuer: "The	Participation of the Company of the	Moldais,
WQv	#	-J.C	4	255,352 2,5	ft <sup>3</sup>	2.5-4 ft
Enter Depth of Soil N		df '		0.5	ft/day	2.5-4 Jt
Enter Hydraulic Condu		k hf		: 0.5	ft	6 inches max.
Enter Average Height of Enter Filter Time		tf	0.000	2,5	days	o menes max.
Required Filter Ar		Af		170235	ft <sup>2</sup>	
Required Filter Al		mine Actual I			Νç	
Filter Width	140	ft				
Filter Length	880	ft				
Filter Area	123200	ft <sup>2</sup>				
Actual Volume Provided	184800	ft <sup>3</sup>				
	D.	etermine Rui	noff Redu	uction	and the second second	a Balanca con can be a
Is the Bioretention contributing	g flow to		C-1-	-+ D+:		
another practice?		Yes	Sele	ct Practice	Other/s	tandard SMP - Mail
RRv	73,920					
RRv applied	73,920	ft <sup>3</sup>	This is 4 is less.	10% of the sto	rage provided o	r WQv whichever
Volume Treated	0	ft <sup>3</sup>	This is t	•	he WQv that is	not reduced in the
Volume Directed	181,432	ft <sup>3</sup>	This vol	ume is directe	d another pract	ice
Sizing <b>√</b>	Error		Check to	be sure Area p	rovided ≥ Af	

### **Bioretention Worksheet**

## (For use on HSG C or D Soils with underdrains) Af=WQv\*(df)/[k\*(hf+df)(tf)]

Af	Required Surface Area (ft2)		The hydraulic conductivity [ft/day], can be varied
WQv	Water Quality Volume (ft3)		depending on the properties of the soil media. Some reported conductivity values are: <b>Sand</b> - 3.5 ft/day (City of
df	Depth of the Soil Medium (feet)	k	Austin 1988); Peat - 2.0 ft/day (Galli 1990); Leaf Compost -
hf	Average height of water above the planter bed		8.7 ft/day (Claytor and Schueler, 1996); Bioretention Soil
tf	Volume Through the Filter Media (days)		(0.5 ft/day (Claytor & Schueler, 1996)

tf Volume Inrougr	the Fliter Media	a (uays)		, , , , ,		
:•Design®Roint			TO SECURE OF THE PARTY OF THE P			
in the state of the state of the state of the state of the state of the state of the state of the state of the	ter Site Data i R	Course Company of the	rea to b	e Treated by P	radice - ·	
Catchment Total Area	ामिश्रिक्ष्य्राविक	Reveent		WOV	Precipitation.	
Mumber - (Acres) a.	Arreia	સંગળપુત્ર ભાગ	RV	(11.1)	((n)	Description :
	Parare II					Ī
20.80	6.20	0.30	0.32	24030.60	1.00	Bioretention
Enter Impervious Area Reduced	0.00	30%	0.32	24,031	< <wqv ad<="" after="" td=""><td>- "</td></wqv>	- "
by Disconnection of Rooftops					Disconnected R	ooπops T
Enter the portion of the WQv 1	that is not redu	ced for all pra	actices	0.44	ft <sup>3</sup>	
routed to this practice.	**************************************			300206		
		Solklin <mark>i</mark> ë	rmation			
Soil Group	G. P.		D i	infilteration	bioretention pra	ctica
Soil Infiltration Rate	2.00	in/hour	Design o	is an injiitration	bioretention pru	cince
Using Underdrains?	yese a	Okay	e e			
	(Calid	ilate the Min	(mum F)	Her Area Value	Unitis	in en
				WHISTON CHOOSE SERVING MICHAEL	STORES OF STREET, STORE	1777-53
WQv		16		24,031	ft <sup>3</sup>	2.5-4 ft
Enter Depth of Soil N		df		0.5		2.5-4 jt
Enter Hydraulic Condu		k		THE RESERVE AND THE PARTY AND	ft/day ft	6 inches max.
Enter Average Height of		hf	2012101	0.5	<del>}</del>	o menes max.
Enter Filter Time		tf of		2 19224	days	
Required Filter A		Af mine Actual E	l n		ft <sup>2</sup>	
		in the state of th	oio-kete T	iltioji Alea		
Filter Width	140	ft	1		· · · · · · · · · · · · · · · · · · ·	
Filter Length	140	ft	-			<u> </u>
Filter Area	19600	ft <sup>2</sup>	<del> </del>			
Actual Volume Provided	24500	ft <sup>3</sup> etermine Rur	See Dad			
	ע	eremine vui	ion keu	uction	1.772.1746	
Is the Bioretention contributin	ig flow to	Yes	Sele	ect Practice	Other/s	Standard SMP 📲 😁
another practice?	T 0.000					
RRv	9,800		Think	ADD of the ste	rasa provided i	or WQv whichever
RRv applied	9,800	ft <sup>3</sup>	is less.			
Volume Treated	0	ft <sup>3</sup>	This is to	•	the WQv that is	not reduced in the
Volume Directed	14,231	ft <sup>3</sup>	This vo	lume is directe	ed another prac	tice
Sizing V	ОК	1	Check to	be sure Area p	rovided ≥ Af	
		<u> </u>				

### **NOI QUESTIONS**

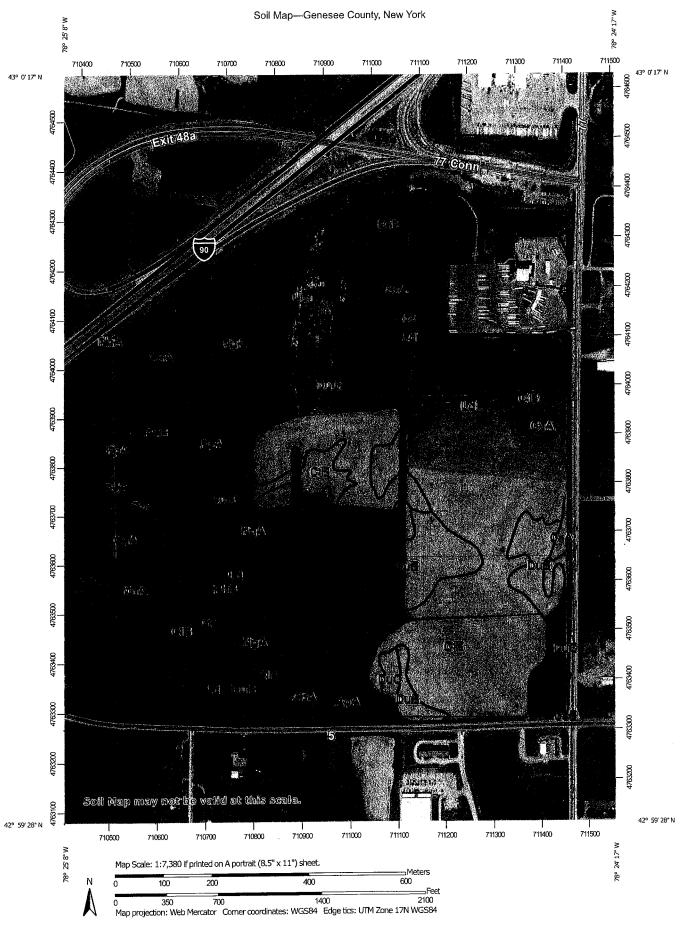
# *	NOI Question:	Reporte	d Value
		cf	af
28	Total Water Quality Volume (WQv) Required	296335	6.803
30	Total RRV Provided	100672	2.311
31	Is RRv Provided ≥WQv Required?	N/	)
32	Minimum RRv	99023	2.273
32a	Is RRv Provided ≥ Minimum RRv Required?	Ye	S
33a	Total WQv Treated	0	0.000
34	Sum of Volume Reduced & Treated	100672	2.311
34	Sum of Volume Reduced and Treated	100672	2.311
35	Is Sum RRv Provided and WQv Provided ≥WQv Required?	N	0 1

### **Contact Regional Office**

	Apoly Peak Flow Atte	nuation :	
36	Channel Protection	Сри	
37	Overbank	Qp	
37	Extreme Flood Control	Qf	
8881 WINDS	Are Quantity Control requirements met?	Yes	Plan Completed

### **APPENDIX F**

Site Soils Map Data
STORMWATER POLLUTION PREVENTION PLAN



#### MAP LEGEND

#### Area of Interest (AOI)

Area of Interest (AOI)

#### Soils

Soil Map Unit Polygons

Soil Map Unit Lines

Soil Map Unit Points

#### **Special Point Features**

Blowout (0)

Borrow Pit

Clay Spot 美

Closed Depression

Gravel Pit

Gravelly Spot

Landfill

Lava Flow

Marsh or swamp

Mine or Quarry

Miscellaneous Water

Perennial Water

Rock Outcrop

Saline Spot

Sandy Spot

Severely Eroded Spot

Sinkhole

Slide or Slip

Sodic Spot

Spoil Area

Stony Spot

Very Stony Spot

Wet Spot

Other Δ

Special Line Features

#### **Water Features**

Streams and Canals

#### Transportation

Rails +++

Interstate Highways

**US Routes** 

Major Roads

Local Roads

#### Background

Aerial Photography

#### MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:24,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Genesee County, New York Survey Area Data: Version 23, Sep 10, 2022

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Jun 15, 2020—Jun 17, 2020

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

### **Map Unit Legend**

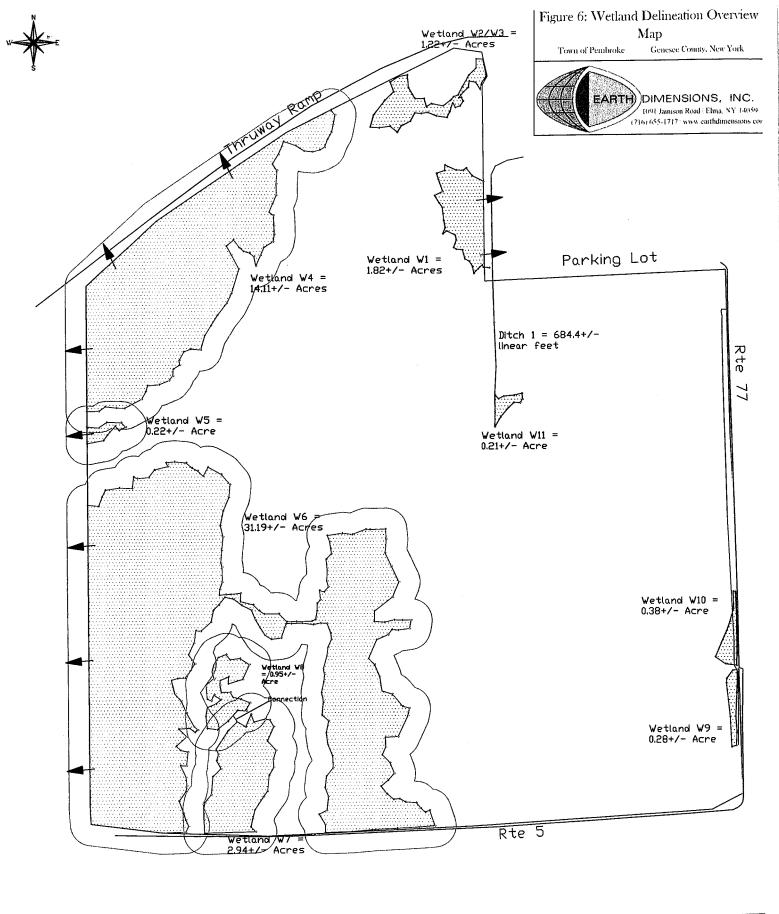
map om Logona					
Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of	AOI	PARIMANI
ApA	Appleton silt loam, 0 to 3 percent slopes	1.5	C	0.8%	Prime
СаА	Canandaigua silt loam, 0 to 2 percent slopes	16.9	D	8.5%	STATEWORE
CbA	Canandiagua mucky silt loam, 0 to 2 percent slopes	1.0	c	0.5%	Mar
СеВ	Cazenovia silt loam, 3 to 8 percent slopes	0.0	B	0.0%	1 1 1 m 1 0 m 1 C
CIB	Collamer silt loam, 2 to 6 percent slopes	62.1	A	31.2%	PRIME
DuB	Dunkirk silt loam, 2 to 6 percent slopes	17.3	C	8.7%	PRIME
DuC	Dunkirk silt loam, 6 to 12 percent slopes	21.3	C	10.7%	STATEUDO
FpA	Fredon gravelly loam, 0 to 3 percent slopes	4.5	B	2.2%	Prime
GP	Gravel pits	1.6		0.8%	NOT
Ld	Lamson very fine sandy loam	31.6	P	15.9%	NOT
MnA	Minoa very fine sandy loam, 0 to 2 percent slopes	2.8	C	1.4%	Prince
NgA	Niagara silt loam, 0 to 2 percent slopes	13.1	C	6.6%	PRIME
PhB	Palmyra gravelly loam, 3 to 8 percent slopes	4.2	В	2.1%	PRIME
PsB	Phelps gravelly loam, 3 to 8 percent slopes	5.7	В	2.8%	PRIME PRIME HOT
Um	Udorthents, smoothed	15.6		7.8%	MOT
Totals for Area of Interest		199.1		100.0%	•

1+96	Acres		
A-33%	69.5		
B-910	19.0		
	63,2		
C - 30 10			
1 - 28%	59.0		

### **APPENDIX G**

Wetland Map

STORMWATER POLLUTION PREVENTION PLAN



Scale: 0 200' 400'

Map Date: September 2, 2022/ TJS for EDI Revised: November 8, 2022

Base Map Provided By: Trimble Geo 7X

File Name: Delineation map.dwg

EDI Project Code: W29I08c