WEST SENECA
PLANNING BOARD

1300 Union Road, West Seneca, NY 14224
6:00 PM in the Community Center
May 14, 2026

AGENDA

Meeting # 2026-05

CALL TO ORDER

APPROVAL OF PROOFS OF PUBLICATION

APPROVAL OF MINUTES

1. Minutes of Meeting #2026-03

OLD BUSINESS

NEW BUSINESS

SPR 2026-002
A request of New Leaf Energy, Inc. for site plan approval for property located at 705 Orchard Park Road to permit an EV Parking Station and all associated site work.

2026-002
A request of Held Development and Properties, LLC for rezoning of property located at 1475 Orchard Park Road to allow A Custom Sewing Shop to operate in the existing building.

SPR 2026-003
A request of Home Leasing, for site plan approval for a property located at 2544 Clinton Street to permit a 3-story multi-unit residential building with all associated site work.

ADJOURN

WEST SENECA COMMUNITY CENTER
1300 Union Road
West Seneca, NY 14224

Planning Board PROCEEDINGS
Minutes #
March 12, 2026

ROLL CALL: Present: Chairperson Margaret Bebak
Planning Board Member Eric Sailer
Planning Board Member Jim Frick
Planning Board Member Joseph Sherman
Planning Board Member Tim Hayes
Planning Board Member Mark Beehler
Planning Board Member William Wise

Absent:

CALL TO ORDER

APPROVAL OF PROOFS OF PUBLICATION

APPROVAL OF MINUTES

1. Minutes of Meeting #2026-02

OLD BUSINESS

SPR2026-001
A request from Julius Aebly for property located at 1465 Union Rd. to permit the construction of a +/- 2,500 SF bank with drive-thru.

Anthony Pandolfe the project manager with Carmina Wood Design, stated

-We revised the plan on the corridor overlay and added a bench to the site that is located next to the flagpole.
-The last meeting we were asked to check on the code regarding ATMs. When we looked into it, the code that was brought up was only for freestanding machines. Our machine will be against the wall in the drive-through lane, which is not considered a freestanding machine.
-Engineered plans were submitted to Clark Patterson Lee and given an initial comment letter.
-a sewer profile and minor landscape revisions were done.
-confirmation from the town engineer that the SWIP from the previously approved office building next door, that SWIP is still in place and will resume SWIP inspections until finished.
-Clark Peterson Lee issued an approval letter with a couple recommendations for contingencies of approval
-One of them is the water service. We have submitted it to the water authority, and it is under review.
-questioned if National Fuel was being used or NYSEG. NYSEG would be the provider.
-A ZBA meeting was attended last month for a variance requirement for the drive-through stacking. That variance was granted for 8 cars.
-A letter from Erie County DPW requesting a queuing analysis be done.
-Our traffic engineer consultant will work on that and, if the board sees fit, we will make that a contingency of approval.

Mr. Sherman questioned the environmental assessment comprehensive plan being identified as LOS "E" which F is the highest in volume, and would like another traffic study done.
Mr. Scheiber stated this was approved when a restaurant was going in this location which would have a heavier traffic volume, but we will continue with a traffic study by the county.
Mr. Sherman wants to see another study done by the Department of Public Works in regard to the traffic before he signs off on this.
Mr. Pandolfe mentioned if there were more than 8 vehicles in the drive-thru, they could stack into the parking lot rather than on Union Rd.
Mr. Schieber recapped the landscaping on the plans, with shrubs small enough that will not obstruct the view of the traffic lines.
Mr. Sherman wanted to amend the zoning from a C to an S since this was originally approved for a restaurant, and now it is a bank.
Mr. Scheiber stated it will remain as is.
Mr. Hayes asked if the name of the bank could be disclosed.
Mr. Scheiber announced the name of the bank was Canal Bank.
Mr. Beehler states there is a location in Williamsville on Main St.
Mr. Sherman questioned who the proposed tenant or owner of the building was.
Mrs. Bebak stated it is on the building owner.

The public question by Eric Meinder was why does it matter if it is a bank or restaurant?
Mrs. Bebak answered that it was originally approved to be a restaurant with a drive-thru and now is a bank with a drive-thru.

Motion by Chairperson Bebak, seconded by Planning Board Member Frick,

Ayes: 7 Noes: 0 Abstain: 0 Motion Carried

NEW BUSINESS

ADJOURN

6:21pm Motion by Chairperson Bebak, seconded by Planning Board Member Beehler, to table conditions such as, a letter from the engineers' application from the Water Authority for approval of proposed water services, to coordinate with NYSEG during construction, for final approval of the proposed planting locations and the requirement of the Erie County Department of Public Works approval on the traffic.

Ayes: 0 Noes: 0 Abstain: 0 Motion Carried

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Ayes: 0 Noes: 0 Abstain: 0 Motion Carried

17 Computer Drive West
Albany, NY 12205
518.438.9900

70 Linden Oaks, Third Floor
Rochester, NY 14625
585.866.1100

Via Overnight Delivery
March 26, 2026.

Town of West Seneca
1250 Union Road
West Seneca, NY 14224

Attention: Jeffery Schieber

RE: Application for Site Plan Review
Proposed EV Charging Stations
705 Orchard Park Road \ NYS Route 240
Town of West Seneca, Erie County
Tax Account 143.06-1-16

Dear Mr. Schieber,

On behalf of our client, New Leaf Energy, Inc., we are pleased to submit the application documents enclosed for Planning Board review. Enclosed please find the following items in support of our application:

A. (22) Copies of the Letter of Intent, prepared by Bohler, dated 3/26/26.
B. (22) Copies of the Site Plan Application
C. (22) Copies of the Short Environmental Assessment Form, prepared by Bohler, dated 3/26/26
D. (22) Copies of the Canopy Rendering, prepared by Weston & Sampson design Studio
E. (1) 11x17 Copy of the Boundary & Topographic Map, prepared be Colliers, dated 8/15/25
F. (1) 11x17 Copy of the Site Plan, prepared by Bohler, dated 3/26/26
G. (22) Full-size copies of the Boundary & Topographic Map, prepared by Colliers, dated 8/15/25
H. (22) Full-size copies of the Site Plan, prepared by Bohler, dated 3/26/26
I. Check in the amount of $600 for Planning Board Review Fee
J. Email with a pdf of all submitted documents.

Existing Conditions
The existing 0.143-acre parcel is located between the Mobil gas station and the Wendy's restaurant rear parking area. The site is undeveloped and consists of maintained lawn. There is an existing curb cut with an asphalt driveway apron. The site sheet flows west to east toward Orchard Park Road.

Proposed Project
The applicant is proposing to construct (10) EV charging parking spaces with (5) EV Charging Stations and a canopy. One EV charging station will service two parking spaces. An ADA compliant space is being provided. The project will include associated site improvements consisting of modifying the existing curb cut onto Orchard Park Road, stormwater mitigation, transformer and electrical power equipment.

Zoning
The project site is zoned C-1 commercial where EV charging stations are an allowed use. Given the size of the existing parcel, we anticipate area variances will be required for pavement setbacks (10' required, 3' proposed) and building setbacks (40' front, 5' side and 30' rear required, 6.6' front, 0' side and 22.0' rear proposed). We will make application to the Zoning Board of Appeals to request area variances.

Stormwater
The project will disturb ±0.14 acres of land and substantially decrease green space. To mitigate stormwater runoff, an underground pipe detention system is proposed to reduce post construction discharge rates to pre-existing discharge rate. The intent would be to utilize perforated pipe to allow for infiltration. Infiltration testing will be completed to confirm the design.

Construction Schedule
The intent would be to start construction once all municipal approvals and permits are obtained. It is estimated that the duration of construction will be ±4 weeks.

We look forward to presenting this information at the May 14th Town Planning Board meeting. If you have any questions, please do not hesitate to contact our office.

Sincerely,
BOHLER ENGINEERING NY, PLLC

Randy Bebout

Cc:
James Rambone, New Leaf Energy

TOWN OF WEST SENECA

APPLICATION FOR SITE PLAN REVIEW APPROVAL

TO BE COMPLETED BY APPLICANT

DATE 3/24/26 FILE #

PROJECT NAME PROPOSED EV CHARGING STATIONS

PROJECT LOCATION (Include address and distance to nearest intersection) 705 ORCHARD PARK ROAD (BETWEEN MOBIL & WENDY'S)

APPLICANT NEW LEAF ENERGY, INC. PH/FAX 978-483-0037

ADDRESS 55 TECHNOLOGY DRIVE, SUITE 102,LOWELL, MA 01851

PROPERTY OWNER GLR HOLDINGS, LLC PH/FAX 585-262-3630

ADDRESS 180 Canal View Blvd. Suite 600, Rochester, New York 14623

ENGINEER/ ARCHITECT BOHLER ENGINEERING NY, PLLC PH/ FAX 585.866.1100

ADDRESS 70 LINDEN OAKS, THIRD FLOOR, ROCHESTER, NY 14625

SBL # 143.06-1-16

PROJECT DESCRIPTION (Include all uses and any required construction)

PROPOSED CONST. OF (10) EV CHARGING PARKING SPACES W\CANOPY,(5) CHARGING STATIONS, NEW ACCESS DRIVE AND ASSOCIATED SITE IMPROVEMENTS (STORM DRAINAGE, ELECTRICAL EQUIPMENT, ETC.)

SIZE OF LOT (acres) 0.143 ACREAGE TO BE REZONED N/A

ADJACENT ROAD NAMES AND AMOUNT OF FRONTAGE ON EACH

ORCHARD PARK ROAD, APPROX. 45' OF FRONTAGE

EXISTING ZONING C-1,COMMERCIAL PROPOSED ZONING NO CHANGE

EXISTING USE(S) ON PROPERTY UNDEVELOPED

PROPOSED USE(S) ON PROPERTY EV CHARGING STATIONS

EXISTING USE(S) AND ZONING ON ALL PROPERTY WITHIN 500 FEET COMMERCIAL

PUBLIC SEWER YES ___ NO ___ N/A PUBLIC WATER YES ___ NO ___ N/A

VARIANCES AND OTHER APPROVALS OR PERMITS REQUIRED

AREA VARIANCES WILL BE REQURED FOR PAVEMENT AND STRUCTURE SETBACKS

APPLICATIONS WILL NOT BE ACCEPTED WITHOUT COMPLETION OF ALL REQUIREMENTS LISTED HEREIN

TO BE COMPLETED BY THE TOWN OF WEST SENECA

DATE RECEIVED _____ BY _____

PLANNING BOARD MEETING DATE _____

TOWN BOARD MEETING DATE _____

TOWN BOARD RESOLUTION DATE _____

NON – REFUNDABLE FILING FEE (Payable to the Town Clerk): $

Short Environmental Assessment Form
Part 1 - Project Information

Instructions for Completing

Part 1 – Project Information. The applicant or project sponsor is responsible for the completion of Part 1. 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.

Complete all items in Part 1. You may also provide any additional information which you believe will be needed by or useful to the lead agency; attach additional pages as necessary to supplement any item.

Part 1 – Project and Sponsor Information

Name of Action or Project:
New Leaf West Seneca

Project Location (describe, and attach a location map):
705 Orchard Park Rd, Buffalo, NY 14224

Brief Description of Proposed Action:
The applicant is proposing to construct (10) EV charging parking spaces with (5) EV Charging Stations and a canopy. One EV charging station will service two parking spaces. An ADA compliant space is being provided. The project will include associated site improvements consisting of modifying the existing curb cut onto Orchard Park Road, stormwater mitigation, transformer and electrical power equipment.

Name of Applicant or Sponsor:	Telephone: (802) 233-9811
New Leaf Energy, INC.	E-Mail: jrambone@newleafenergy.com

Address:
55 Technology Drive, Suite 102

City/PO:	State:	Zip Code:
Lowell	MA	01851

	NO	YES
1. Does the proposed action only involve the legislative adoption of a plan, local law, ordinance, administrative rule, or regulation? If Yes, attach a narrative description of the intent of the proposed action and the environmental resources that may be affected in the municipality and proceed to Part 2. If no, continue to question 2.	☑	☐
2. Does the proposed action require a permit, approval or funding from any other government Agency? If Yes, list agency(s) name and permit or approval:	☑	☐

3. a. Total acreage of the site of the proposed action? 0.14 acres
   b. Total acreage to be physically disturbed? 0.14 acres
   c. Total acreage (project site and any contiguous properties) owned or controlled by the applicant or project sponsor? 0.14 acres

4. Check all land uses that occur on, are adjoining or near the proposed action:

5. ☐ Urban ☐ Rural (non-agriculture) ☐ Industrial ☑ Commercial ☐ Residential (suburban)
   ☐ Forest ☐ Agriculture ☐ Aquatic ☐ Other(Specify):
   ☐ Parkland

	NO	YES	N/A
5. Is the proposed action,			
a. A permitted use under the zoning regulations?	☐	✔	☐
b. Consistent with the adopted comprehensive plan?	☐	✔	☐

	NO	YES
6. Is the proposed action consistent with the predominant character of the existing built or natural landscape?	☐	✔
7. Is the site of the proposed action located in, or does it adjoin, a state listed Critical Environmental Area? If Yes, identify: _____	✔	☐
8. a. Will the proposed action result in a substantial increase in traffic above present levels?	✔	☐
b. Are public transportation services available at or near the site of the proposed action?	✔	☐
c. Are any pedestrian accommodations or bicycle routes available on or near the site of the proposed action?	✔	☐
9. Does the proposed action meet or exceed the state energy code requirements? If the proposed action will exceed requirements, describe design features and technologies: _____ _____	✔	☐
10. Will the proposed action connect to an existing public/private water supply? If No, describe method for providing potable water: _____ _____	✔	☐
11. Will the proposed action connect to existing wastewater utilities? If No, describe method for providing wastewater treatment: _____ _____	✔	☐
12. a. Does the project site contain, or is it substantially contiguous to, a building, archaeological site, or district which is listed on the National or State Register of Historic Places, or that has been determined by the Commissioner of the NYS Office of Parks, Recreation and Historic Preservation to be eligible for listing on the State Register of Historic Places?	✔	☐
b. Is the project site, or any portion of it, located in or adjacent to an area designated as sensitive for archaeological sites on the NY State Historic Preservation Office (SHPO) archaeological site inventory?	☐	✔
13. a. Does any portion of the site of the proposed action, or lands adjoining the proposed action, contain wetlands or other waterbodies regulated by a federal, state or local agency?	☐	✔
b. Would the proposed action physically alter, or encroach into, any existing wetland or waterbody?	✔	☐
If Yes, identify the wetland or waterbody and extent of alterations in square feet or acres: _____ _____ _____		

14. Identify the typical habitat types that occur on, or are likely to be found on the project site. Check all that apply:

☐ Shoreline ☐ Forest ☐ Agricultural/grasslands ☐ Early mid-successional

☐ Wetland ☐ Urban ☑ Suburban

	NO	YES
15. Does the site of the proposed action contain any species of animal, or associated habitats, listed by the State or Federal government as threatened or endangered?	☑	☐
16. Is the project site located in the 100-year flood plan?	☑	☐
17. Will the proposed action create storm water discharge, either from point or non-point sources? If Yes,	☐	☑
a. Will storm water discharges flow to adjacent properties?	☑	☐
b. Will storm water discharges be directed to established conveyance systems (runoff and storm drains)?	☑	☐
If Yes, briefly describe: _____		
18. Does the proposed action include construction or other activities that would result in the impoundment of water or other liquids (e.g., retention pond, waste lagoon, dam)? If Yes, explain the purpose and size of the impoundment: _____	☑	☐
19. Has the site of the proposed action or an adjoining property been the location of an active or closed solid waste management facility? If Yes, describe: _____	☑	☐
20. Has the site of the proposed action or an adjoining property been the subject of remediation (ongoing or completed) for hazardous waste? If Yes, describe: _____	☐	☑

I CERTIFY THAT THE INFORMATION PROVIDED ABOVE IS TRUE AND ACCURATE TO THE BEST OF MY KNOWLEDGE

Applicant/sponsor/name: BOHLER ENGINEERING NY, PLLC Date: 3-26-26

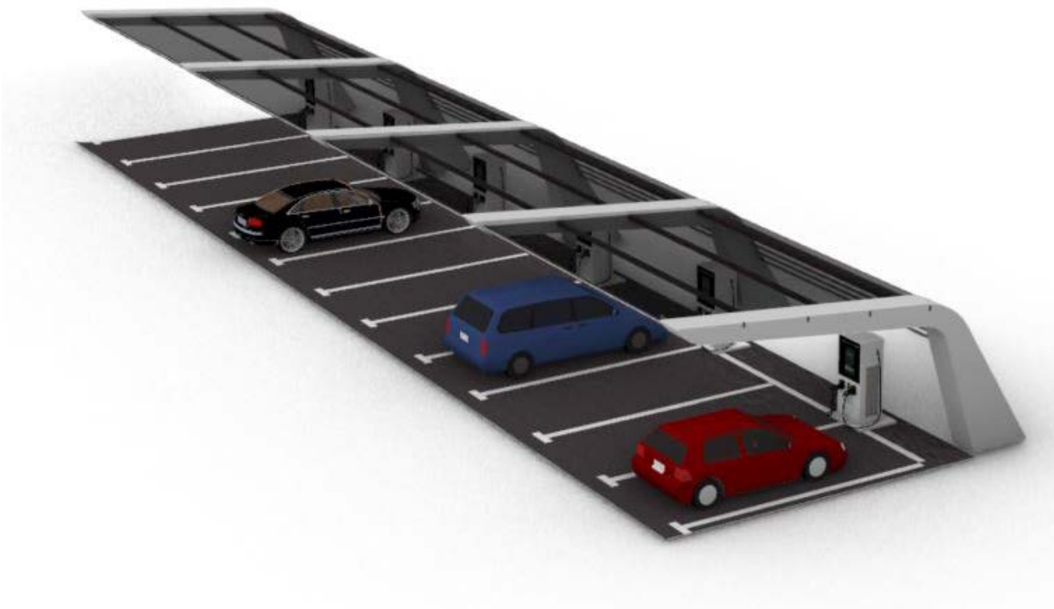
Signature: Garrett Stern Title: Project Engineer

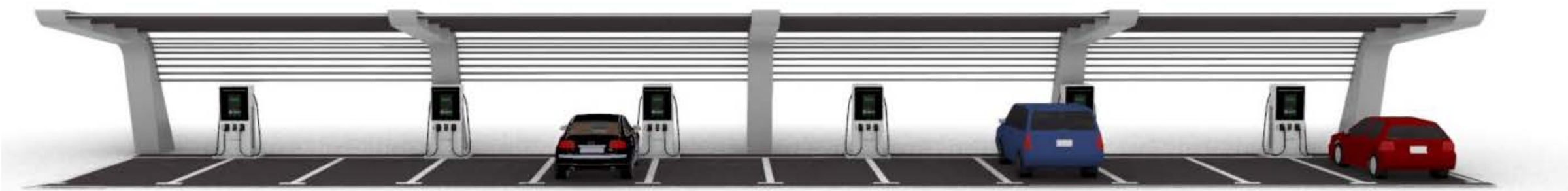
PRINT FORM

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 to confirm data provided by the Mapper or to obtain data not provided by the Mapper.

Part 1 / Question 7 [Critical Environmental Area]	No
Part 1 / Question 12a [National or State Register of Historic Places or State Eligible Sites]	No
Part 1 / Question 12b [Archeological Sites]	Yes
Part 1 / Question 13a [Wetlands or Other Regulated Waterbodies]	Yes - Digital mapping information on local, New York State, and federal wetlands and waterbodies is known to be incomplete. Refer to the EAF Workbook.
Part 1 / Question 15 [Threatened or Endangered Animal]	No
Part 1 / Question 16 [100 Year Flood Plain]	No
Part 1 / Question 20 [Remediation Site]	Yes

OP 1 | PULL-IN PARKING





new leaf energy

Weston & Sampson design studio

OP 1 | BACK-IN PARKING

new leaf energy

Weston & Sampson design studio

1) DESIGN CRITERIA

A. STRUCTURAL DESIGN IS IN ACCORDANCE WITH THE FOLLOWING CODES AND CRITERIA:

1. MASSACHUSETTS BUILDING CODE USED TO ADDRESS SNOW LOAD FOR EXAMPLE PURPOSES. EACH DESIGN WILL BE REFINED PER LOCATION.
2. 10TH EDITION OF THE MASSACHUSETTS BUILDING CODE
   2.1. BASED OFF 2021 INTERNATIONAL BUILDING CODE
3. ASCE 7-16, MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES
4. AISC360-16, AMERICAN INSTITUTE OF STEEL CONSTRUCTION

B. BUILDING CLASSIFICATION

1. BUILDING OCCUPANCY CLASSIFICATION: U

C. DEAD LOADS = 15.0 PSF

D. LIVE LOADS

ROOF = 20.0 PSF
REDUCIBLE PER 780 CMR, 10TH EDITION

E. WIND LOADS DESIGN CRITERIA

DESIGN WIND SPEED, V_{ULT} = 127 MPH
NOMINAL WIND SPEED, V_{ASD} = 97 MPH
RISK CATEGORY = II
EXPOSURE CATEGORY = C
INTERNAL PRESSURE, GC_{pi} = +/- 0.00
VELOCITY PRESSURE, K_d = 0.85

F. SEISMIC DESIGN CRITERIA

DESIGN CATEGORY = B
IMPORTANCE FACTOR, I_e = 1.00
MAPPED SPECTRAL RESPONSE ACCELERATION:
S_S = 0.198 g
S_1 = 0.055 g
SITE CLASS = D
SPECTRAL RESPONSE COEFFICIENTS:
S_{DS} = 0.211 g
S_{D1} = 0.088 g
SEISMIC FORCE RESISTING SYSTEM:
STEEL SYSTEM NOT SPECIFICALLY DETAILED FOR SEISMIC RESISTANCE
R = 3.00
C_S = 0.071

ANALYSIS PROCEDURE USED:
EQUIVALENT LATERAL FORCE

G. SNOW LOADS

GROUND SNOW LOAD, P_g = 30.0 PSF

Note:

Loads from Carver, Massachusetts were chosen for demonstration purposes. Each design will be updated and refined based on the site and final loading criteria

FLAT ROOF SNOW LOAD, P_f = 30.0 PSF
SNOW EXPOSURE FACTOR, C_e = 1.00
THERMAL FACTOR, C_t = 1.20
IMPORTANCE FACTOR, I_S = 1.00

2) STRUCTURAL STEEL

1. ASTM SPECIFICATION AND GRADE. UNLESS NOTED OTHERWISE ON THE DRAWINGS, STRUCTURAL STEEL SHALL BE AS FOLLOWS:
   a) W-SHAPES: A992
   b) HSS, RECTANGULAR: A500, Gr. C - Fy = 50 ksi

3) FOUNDATION NOTES

1. FOUNDATION DESIGNED BASED ON THE FOLLOWING PROPERTIES:
   SOIL BEARING PRESSURE (NET) : 1,500 PSF
   SUBGRADE MODULUS: 100 PCI

NOTE: PROOF ROLL THE EXPOSED SUBGRADE WITH A MEDIUM-WEIGHT ROLLER TO DETERMINE IF ANY POCKETS OF SOFT, UNSUITABLE MATERIAL EXIST BENEATH THE EXPOSED SUBGRADE. REMOVE ANY UNSUITABLE MATERIAL ENCOUNTERED AND REPLACE WITH A PROPERLY COMPACTED GRANULAR MATERIAL

A. OWNER/CONTRACTOR SHALL RETAIN THE SERVICES OF A GEOTECHNICAL ENGINEER TO VERIFY THAT THE ABOVE NOTED FOUNDATION DESIGN PRESSURES AND MODULUS ARE MET

B. OWNER/CONTRACTOR SHALL EMPLOY QUALIFIED INDEPENDENT SOIL-TESTING AGENCY TO VERIFY THAT ALL EXCAVATION AND BACKFILL OPERATIONS MEET THE CRITERIA OF THESE NOTES AND THE SPECIFICATIONS

C. ENGINEERED FILL SHALL BE CLEAN, WELL GRADED, AND FREE DRAINING IN ITS COMPACTED STATE

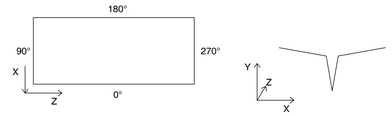
D. GRANULAR FILL MATERIAL SHALL BE A "PIT RUN GRAVEL" AS IT OCCURS IN A NATURAL STATE WITH NO LUMPS OF CLAY OR ROCKS LARGER THAN 2" IN DIAMETER. IT MUST CONFORM TO THE FOLLOWING GRADATIONS: 10 TO 40 PERCENT SAND, 40 TO 80 PERCENT GRAVEL, AND 0 TO 15 PERCENT CLAY. OBTAIN FROM A BORROW PIT APPROVED BY THE OWNER AND THE TESTING AGENCY

E. COMPACT ALL GRANULAR FILL BENEATH SLABS ON GRADE AND OVER FOOTINGS TO 95 PERCENT MODIFIED MAXIMUM DRY DENSITY, ASTM D-1557. INCREASE THE COMPACTION REQUIREMENTS FOR ENGINEERED FILL SUPPORTING FOOTINGS TO 97 PERCENT MODIFIED MAXIMUM DRY DENSITY, ASTM D-1557. COMPACT ALL BACKFILL NOT SUPPORTING SLABS, PAVEMENT, OR FOOTINGS TO 90 PERCENT MODIFIED MAXIMUM DRY DENSITY, ASTM D-1557. PLACEMENT AND COMPACTION OF FILL SHALL BE OVERSEEN BY THE TESTING AGENCY. PLACE ALL GRANULAR FILL MATERIAL IN LAYERS NOT EXCEEDING 6" IN LOOSE THICKNESS. MECHANICALLY COMPACT EACH LAYER TO AT LEAST THE REQUIRED MINIMUM DRY DENSITY

F. ALL BACKFILL PLACED AGAINST CONCRETE WALLS SHALL BE A WELL-GRADED, FREE-DRAINING, GRANULAR MATERIAL APPROVED BY THE TESTING AGENCY

4) CONCRETE

1. ALL CONCRETE SHALL BE MINIMUM 4,000 PSI WITH A MINIMUM AIR ENTRAINMENT OF 6%.
2. ALL STEEL REINFORCEMENT BARS SHALL BE ASTM A615 GRADE 60.
3. ALL STEEL REINFORCEMENT SPLICES SHALL BE LAPPED A MINIMUM OF 42", UNLESS NOTED OTHERWISE.



NOTES:

- ALL REACTIONS ARE SERVICE LEVEL (UNFACTORED)
- NEGATIVE VERTICAL REACTION (Y-AXIS) INDICATES UPLIFT
- ALL WIND AND SEISMIC REACTIONS ARE REVERSIBLE
- ALL WIND REACTIONS ARE PROVIDED AT V_{ULT}
- ALL SEISMIC REACTIONS TO BE MULTIPLIED BY APPROPRIATE Ω_O FACTORS FOR ANCHORAGE AND FOUNDATION DESIGN

FOUNDATION PLAN NOTES:

1. FINAL GRADE ELEVATION: 100'-0"
2. (F#) F# SIGNIFIES FOUNDATION SCHEDULE MARK

COLUMN REACTIONS @ GRIDLINE 1

LOAD CASE	HORIZONTAL REACTION, X-DIR. (KIP)	HORIZONTAL REACTION, Z-DIR. (KIP)	VERTICAL REACTION, Y-DIR. (KIP)	MOMENT REACTION ABOUT X-DIR (KIP-FT)	MOMENT REACTION ABOUT Y-DIR (KIP-FT)	MOMENT REACTION ABOUT Z-DIR (KIP-FT)
SELF-WEIGHT	~	~	4.14	~	~	-34.6
DEAD LOAD	~	~	7.20	~	~	-85.8
SNOW LOAD	~	~	14.4	~	~	-172
ROOF LIVE	~	~	9.60	~	~	-115
WIND 0° A	-4.67	~	-9.14	~	~	164
WIND 0° B	-4.67	~	7.31	~	~	-89.6
WIND 90° A	~	0.96	5.72	-11.5	-11.3	-68.1
WIND 90° B	~	0.96	-5.30	-11.5	-11.3	63.1
WIND 180° A	4.67	~	-9.17	~	~	53.6
WIND 180° B	4.67	~	7.31	~	~	-84.6

Project:

EV CANOPIES

Weston & Sampson Engineers, Inc.
55 Walkers Brook Drive, Suite 100
Reading, MA 01867
978.532.1900 800.SAMPSON
www.westonandsampson.com

Consultants:
Complete Structural Consulting
9880 Westpoint Drive, Suite 100
Indianapolis, IN 46256
317.468.2004

N W E S

20 0 10 20
1" = 20'
(IN FEET)

No.	Description	Date

Revisions

Seal:

DRAFT

Issued For:
REVIEW
(NOT FOR CONSTRUCTION)

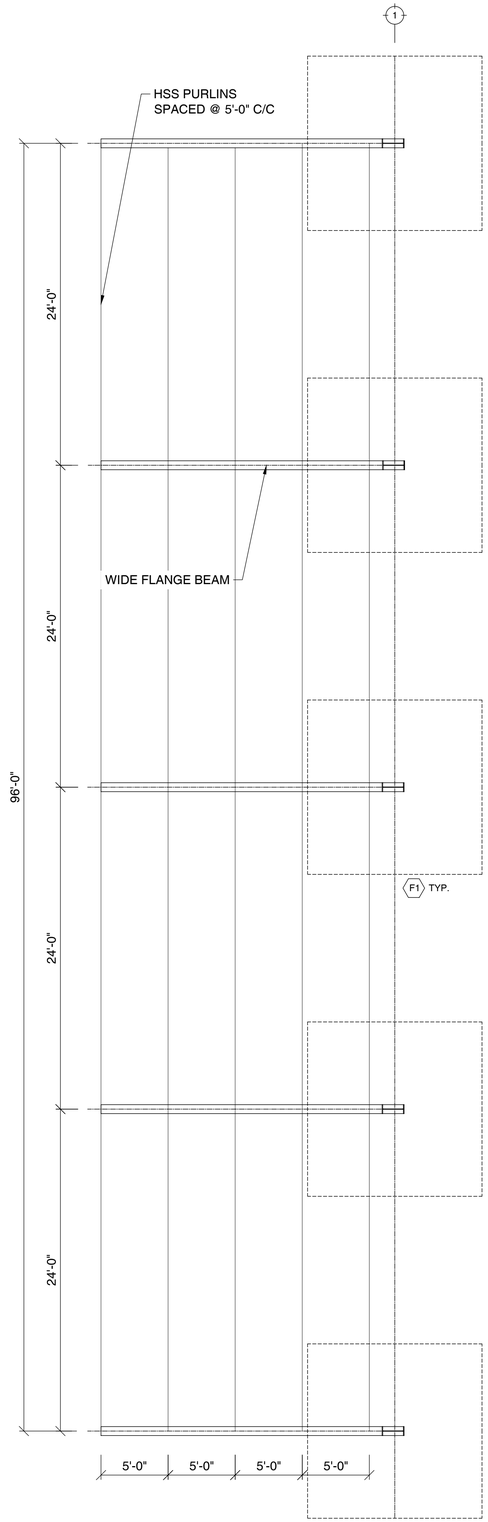
Issued Date:	12/12/2024
Drawn By:	RRK
Reviewed By:	ASK
Approved By:	ASK
W&S Project No.:	

Drawing Title:

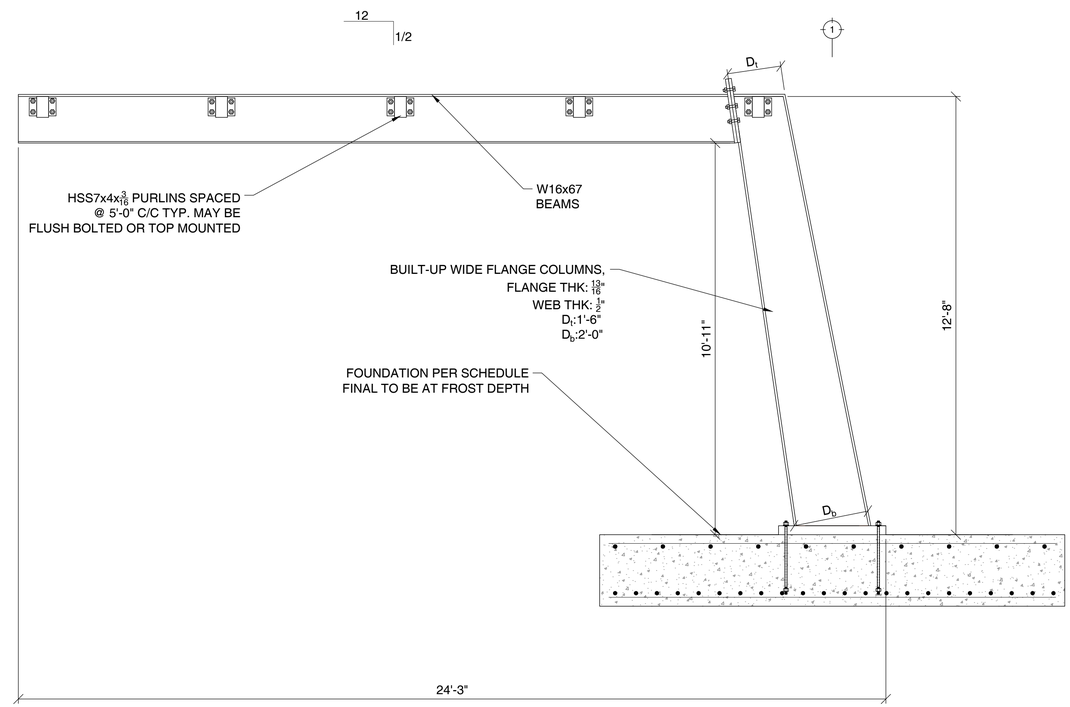
GENERAL NOTES

Sheet Number:

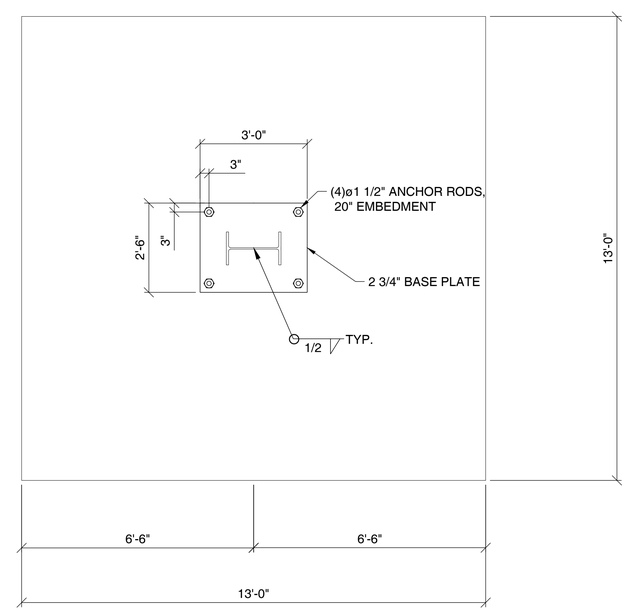
S100



1 PLAN VIEW
SCALE: 3/16" = 1'-0"



2 SECTION CUT
SCALE: 1/2" = 1'-0"



3 FOUNDATION PLAN VIEW
SCALE: N.T.S

STRUCTURAL SCHEDULE						
MARK	STEEL WEIGHT (LBS)	SIZE (L x W x T)	REINFORCING (TOP)	REINFORCING (BOTTOM)	TOP / FTG. ELEVATION	NOTES
F1	4,800 PER BAY (INCLUDES PURLINS)	13'-0" x 13'-0" X 2'-0"	(10) #5 EA. WAY	(22) #5 EA. WAY	100'-0"	FURTHER BORING REQUIRED AND SOIL CONDITIONS TO BE CONFIRMED PER LOCATION

Project:

EV CANOPIES

Weston & Sampson Engineers, Inc.
55 Walkers Brook Drive, Suite 100
Reading, MA 01867
978.532.1900 800.SAMPSON
www.westonandsampson.com

Consultants:

Complete Structural Consulting
9880 Westpoint Drive, Suite 100
Indianapolis, IN 46256
317.468.2004

N W E S

20 0 10 20
1" = 20'
(IN FEET)

No.	Description	Date

Revisions

Seal:

DRAFT

Issued For:

REVIEW
(NOT FOR CONSTRUCTION)

Issued Date:	12/12/2024
Drawn By:	RRK
Reviewed By:	ASK
Approved By:	ASK
W&S Project No.:	

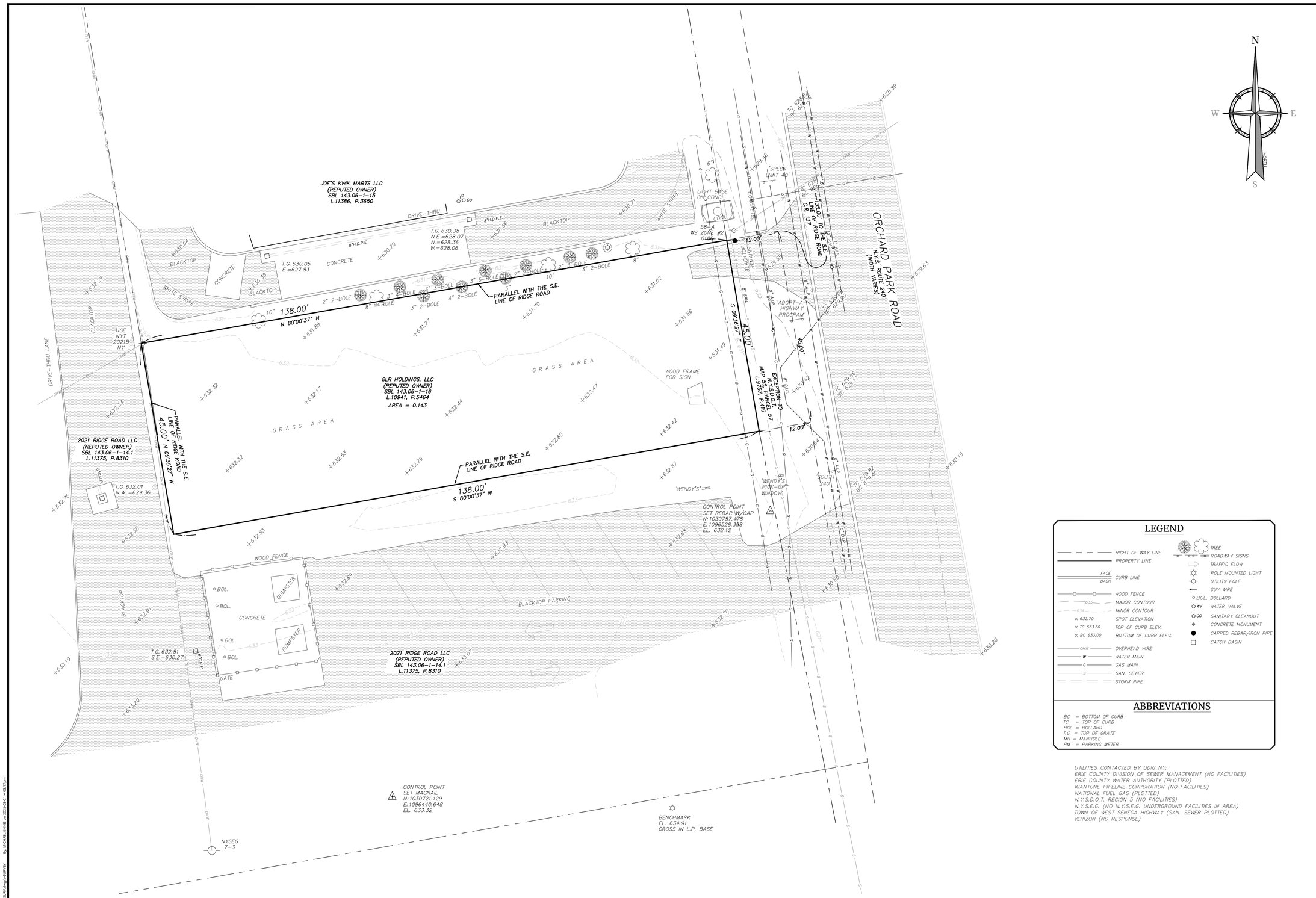
Drawing Title:

PULL IN PARKING

Sheet Number:

S200

P:\34.0612 EV Canopies\WESEQA DWGs & MODELS_CSC DRAWINGS\EV Canopy_Sunesdale.dwg



LEGEND

- RIGHT OF WAY LINE
- PROPERTY LINE
- FACE / BACK — CURB LINE
- WOOD FENCE
- 635 — MAJOR CONTOUR
- 634 — MINOR CONTOUR
- × 632.70 — SPOT ELEVATION
- × TC 633.50 — TOP OF CURB ELEV.
- × BC 633.00 — BOTTOM OF CURB ELEV.
- OHW — OVERHEAD WIRE
- W — WATER MAIN
- G — GAS MAIN
- S — SAN. SEWER
- STORM PIPE
- TREE
- ROADWAY SIGNS
- TRAFFIC FLOW
- POLE MOUNTED LIGHT
- UTILITY POLE
- GUY WIRE
- BOL. — BOLLARD
- WV — WATER VALVE
- CO — SANITARY CLEANOUT
- CONCRETE MONUMENT
- CAPPED REBAR/IRON PIPE
- CATCH BASIN

ABBREVIATIONS

BC = BOTTOM OF CURB
TC = TOP OF CURB
BOL = BOLLARD
T.G. = TOP OF GRATE
MH = MANHOLE
PM = PARKING METER

UTILITIES CONTACTED BY UDIG NY:
ERIE COUNTY DIVISION OF SEWER MANAGEMENT (NO FACILITIES)
ERIE COUNTY WATER AUTHORITY (PLOTTED)
KIANTONE PIPELINE CORPORATION (NO FACILITIES)
NATIONAL FUEL GAS (PLOTTED)
N.Y.S.D.O.T. REGION 5 (NO FACILITIES)
N.Y.S.E.G. (NO N.Y.S.E.G. UNDERGROUND FACILITIES IN AREA)
TOWN OF WEST SENECA HIGHWAY (SAN. SEWER PLOTTED)
VERIZON (NO RESPONSE)

10 0 10 20
SCALE : 1" = 10'
Linear unit of measure: US Survey Foot (1 ft = 1200/3937 m)

Colliers
Engineering & Design

www.colliersengineering.com

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Formerly Known as BERGMANN

REV	DATE	DESCRIPTION

NEW LEAF ENERGY

705 ORCHARD PARK ROAD
TOWN OF WEST SENECA
ERIE COUNTY, N.Y.

Colliers Engineering & Design
BUFFALO (BA)
40 LaRiviere Drive, Suite 200
Buffalo, NY 14202
Phone: 716.852.3211
COLLIERS ENGINEERING & DESIGN, ARCHITECTURE, LANDSCAPE ARCHITECTURE, SURVEYING CT, P.C.

SCALE: AS SHOWN	DRAWN BY: MJE
DESIGNED BY:	REVIEWED BY: MJE
DATE ISSUED: 08/15/25	PROJECT NUMBER: 25903004

SHEET NAME:

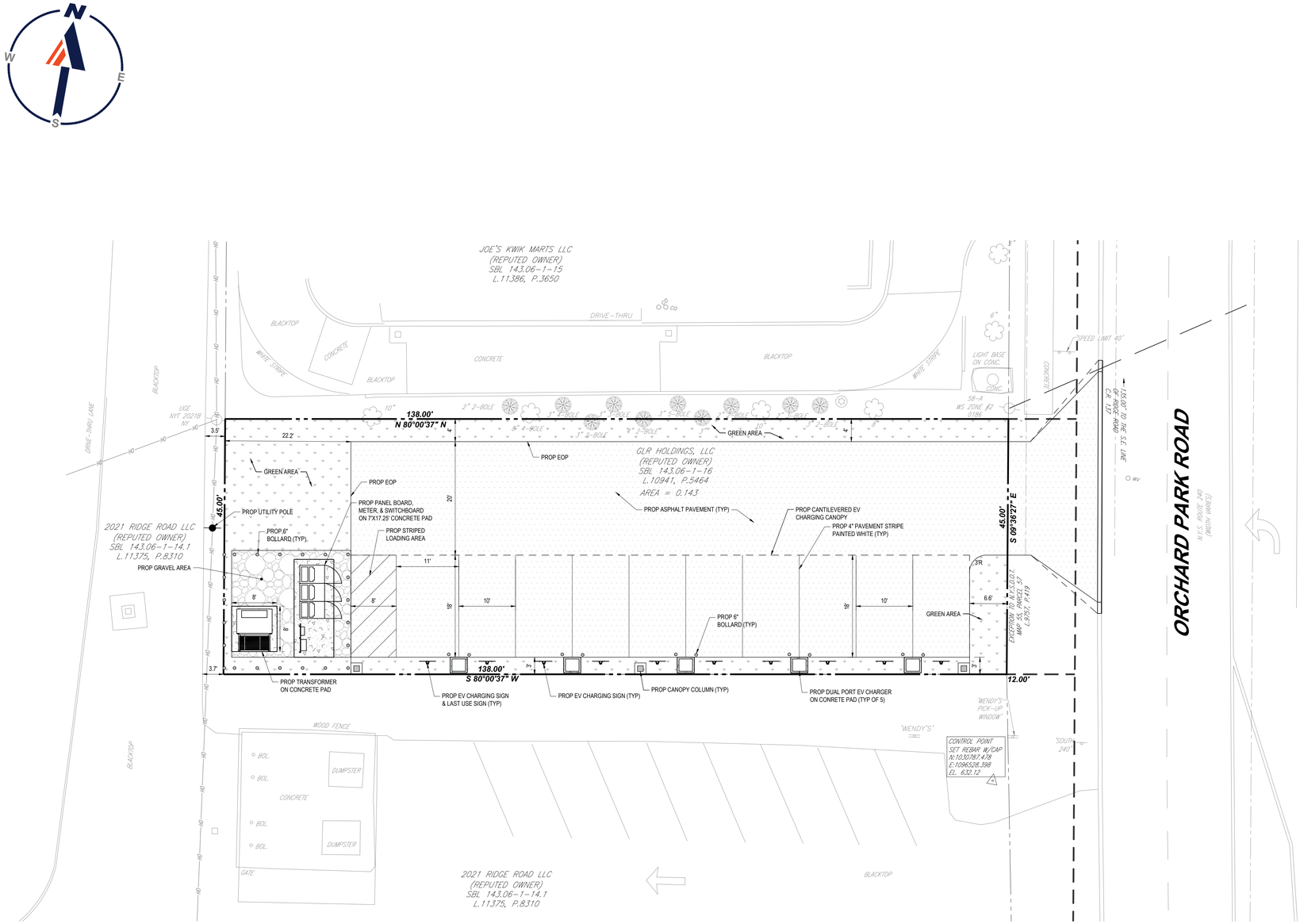
BOUNDARY & TOPOGRAPHIC MAP

DRAWING NUMBER:

1 of 1

UNAUTHORIZED ALTERATION OR ADDITION TO A SURVEY OR ENGINEERING DOCUMENT BEARING A LICENSED LAND SURVEYOR OR PROFESSIONAL ENGINEER'S SEAL IS A VIOLATION OF SECTION 7209, SUB-DIVISION 2, OF THE NEW YORK STATE EDUCATION LAW. ONLY DOCUMENTS WITH THE LAND SURVEYOR OR PROFESSIONAL ENGINEER'S SEAL ARE GENUINE TRUE AND CORRECT COPIES OF THE LAND SURVEYOR OR PROFESSIONAL ENGINEER'S ORIGINAL WORK AND OPINION.

NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.



SITE INFORMATION

APPLICANT:
NEW LEAF ENERGY, INC.
55 TECHNOLOGY DRIVE, SUITE #102 ,
LOWELL, MA 01851

OWNER:
GLR HOLDINGS, LLC
180 CANAL VIEW BLVD, SUITE 600
ROCHESTER, NY 14623

SITE NOTES

(REV. 5/2024)

1. ALL CONCRETE MUST BE AIR ENTRAINED AND INCLUDE THE MINIMUM COMPRESSIVE STRENGTH OF JURISDICTIONAL STANDARD PSI AT 28 DAYS (OR 4,000 PSI) UNLESS OTHERWISE NOTED ON THE PLANS. DETAILS AND/OR GEOTECHNICAL REPORT. IF THERE ARE ANY DISCREPANCIES BETWEEN THE PLANS, DETAILS AND GEOTECHNICAL REPORT THEN THE GEOTECHNICAL REPORT SHALL GOVERN.

2. THE CONTRACTOR MUST REPAIR OR REPLACE, AT THE CONTRACTOR'S SOLE COST AND EXPENSE, ALL SIDEWALKS, CURBS, PAVEMENT MARKINGS, AND PAVEMENT DAMAGED BY CONSTRUCTION ACTIVITIES WHETHER SPECIFIED ON THIS PLAN OR NOT.

3. CONTRACTOR IS CAUTIONED OF EXISTING UTILITY SERVICES TO REMAIN IN PROXIMITY TO PROPOSED BOLLARDS AND SIGNS. CONTRACTOR SHALL PROVIDE FIELD MODIFICATION LOCATIONS OF BOLLARDS AND BOLLARDS WITH SIGNAGE AS NEEDED TO AVOID CONFLICTS WITH EXISTING UTILITY SERVICES TO REMAIN.

UTILITY NOTES

(REV. 7/2024)

1. ALL WORK ASSOCIATED WITH UTILITY POLES, OVERHEAD WIRES AND ANY/ALL APPURTENANCES SHALL BE COORDINATED BY THE GC WITH THE LOCAL UTILITY COMPANIES PRIOR TO THE ORDERING OF ANY MATERIALS. THIS MAY INCLUDE BUT IS NOT LIMITED TO THE REMOVAL, INSTALLATION, RELOCATION OR PROTECTION OF ANY BRACING, GUY WIRES, OVERHEAD WIRES, ETC. AS MAY BE REQUIRED TO ACCOMMODATE THE PROJECT.

2. TRANSFORMERS AND SWITCH GEARS: GC SHALL PROVIDE ALL APPURTENANCES IN ACCORDANCE WITH UTILITY COMPANY SPECIFICATIONS AND CARRY SAME IN BASE BID. APPURTENANCES SHALL INCLUDE, BUT NOT BE LIMITED TO, THE CONCRETE PAD, SECONDARY SPILL CONTAINMENT AREAS (IF REQUIRED), BOLLARD / VEHICULAR PROTECTION, AND OTHER ITEMS AS MAY BE REQUIRED BY THE UTILITY PROVIDER FOR INSTALLATION OF THE TRANSFORMER AND SWITCH GEAR (IF REQUIRED). GC SHALL COORDINATE ALL ASPECTS OF INSTALLATION WITH UTILITY PROVIDER PRIOR TO ORDERING OF MATERIALS AND NOTIFY DESIGN ENGINEER OF ANY CONFLICTS IN WRITING.

Know what's below. Call before you dig.

ALWAYS CALL 811

It's fast. It's free. It's the law.

GENERAL NOTE:
IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW ALL OF THE DRAWINGS AND SPECIFICATIONS ASSOCIATED WITH THIS PROJECT WORK SCOPE PRIOR TO THE INITIATION OF CONSTRUCTION. SHOULD THE CONTRACTOR FIND A CONFLICT WITH THE DOCUMENTS RELATIVE TO THE SPECIFICATIONS OR APPLICABLE CODES, IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE PROJECT ENGINEER OF RECORD IN WRITING PRIOR TO THE START OF CONSTRUCTION. FAILURE BY THE CONTRACTOR TO NOTIFY THE PROJECT ENGINEER SHALL CONSTITUTE ACCEPTANCE OF FULL RESPONSIBILITY BY THE CONTRACTOR TO COMPLETE THE SCOPE OF THE WORK AS DEFINED BY THE DRAWINGS AND IN FULL CONFORMANCE WITH LOCAL REGULATIONS AND CODES.

THIS PLAN TO BE UTILIZED FOR SITE LAYOUT PURPOSES ONLY

10 5 2.5 0 10
1"= 10'

THIS DOCUMENT IS PROVIDED BY NEW LEAF ENERGY, INC. TO FACILITATE THE SALE OF THE ELECTRIC CHARGING STATION PROJECT REPRESENTED HEREIN. REPRODUCTION, RELEASE OR UTILIZATION FOR ANY OTHER PURPOSE, WITHOUT PRIOR WRITTEN CONSENT IS STRICTLY PROHIBITED.

new leaf energy
55 TECHNOLOGY DRIVE, SUITE 102
LOWELL, MA 01851
PHONE: (888) 898-6273
FAX: (888) 843-6778
WWW.NEWLEAFENERGY.COM

NOT FOR CONSTRUCTION

BOHLER
70 LINDEN OAKS
THIRD FLOOR
ROCHESTER, NY 14625
PHONE: (585) 381-9250
www.BohlerEngineering.com

IT IS A VIOLATION OF LAW FOR ANY PERSON TO ALTER ANY DOCUMENT WHICH BEARS THE SEAL OF A PROFESSIONAL ENGINEER, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER.

PROPOSED EV CHARGING STATIONS
705 ORCHARD PARK RD
WEST SENECA, NY 14224

PROJECT NUMBER:
NYB260024

REV	DATE	DRAWN	CHECKED	RELEASE LEVEL

SCALES STATED ON DRAWINGS ARE VALID ONLY WHEN PLOTTED ARCH D 24" X 36"

C-2.1

SITE PLAN

TOWN OF WEST SENECA

CODE ENFORCEMENT OFFICE
"BUILDING SAFETY IS NO ACCIDENT"

TOWN SUPERVISOR
GARY A. DICKSON

TOWN COUNCIL
ROBERT J. BREIDENSTEIN
JEFFREY A. PIEKAREC
SCOTT D. ROBERTSON
MARY T. SHERMAN

March 31, 2026

Town of West Seneca Building Dept.
1250 Union Rd
West Seneca, NY 14224

Re: 705 Orchard Park Road
Site Plan Approval

To Whom It May Concern:

Please find enclosed a submittal for a proposed development of an EV Parking Station and all associated site work. The scheduled Planning Board meeting is set for May 14, 2026.

Pursuant to Article 8 of the Environmental Conservation law, State Environmental Quality Review Act (SEQRA):

The Town of West Seneca is seeking lead agency designation in this matter. The Town of West Seneca will make a determination of its significance. All submitted materials will be posted on Town web site from review and comment. Please return any comments or concerns within 30 days of the date of notification.

If you have any questions, please call our office 716-558-3242.

Yours truly,
Jeffrey A Schieber
Jeffrey A Schieber
Code Enforcement Officer
jschieber@twsny.org

JAS:sl
cc: E. C. Dept of Planning via online submittal
Reserve Fire Dept.
Historical Commission
SHPO via online submittal
NYS DOT
Erie County DOT
NYS DEC via online submittal

TOWN OF WEST SENECA

APPLICATION FOR SITE PLAN REVIEW APPROVAL

TO BE COMPLETED BY APPLICANT

DATE 3/24/26 FILE # 2026-002

PROJECT NAME PROPOSED EV CHARGING STATIONS

PROJECT LOCATION (Include address and distance to nearest intersection) 705 ORCHARD PARK ROAD (BETWEEN MOBIL & WENDY'S)

APPLICANT NEW LEAF ENERGY, INC. PH/FAX 978-483-0037

ADDRESS 55 TECHNOLOGY DRIVE, SUITE 102,LOWELL, MA 01851

PROPERTY OWNER GLR HOLDINGS, LLC PH/FAX 585-262-3630

ADDRESS 180 Canal View Blvd. Suite 600, Rochester, New York 14623

ENGINEER/ ARCHITECT BOHLER ENGINEERING NY, PLLC PH/ FAX 585.866.1100

ADDRESS 70 LINDEN OAKS, THIRD FLOOR, ROCHESTER, NY 14625

SBL # 143.06-1-16

PROJECT DESCRIPTION (Include all uses and any required construction)

PROPOSED CONST. OF (10) EV CHARGING PARKING SPACES W\CANOPY,(5) CHARGING STATIONS, NEW ACCESS DRIVE AND ASSOCIATED SITE IMPROVEMENTS (STORM DRAINAGE, ELECTRICAL EQUIPMENT, ETC.)

SIZE OF LOT (acres) 0.143 ACREAGE TO BE REZONED N/A

ADJACENT ROAD NAMES AND AMOUNT OF FRONTAGE ON EACH

ORCHARD PARK ROAD, APPROX. 45' OF FRONTAGE

EXISTING ZONING C-1,COMMERCIAL PROPOSED ZONING NO CHANGE

EXISTING USE(S) ON PROPERTY UNDEVELOPED

PROPOSED USE(S) ON PROPERTY EV CHARGING STATIONS

EXISTING USE(S) AND ZONING ON ALL PROPERTY WITHIN 500 FEET COMMERCIAL

PUBLIC SEWER YES X NO ___ N/A PUBLIC WATER YES X NO ___ N/A

VARIANCES AND OTHER APPROVALS OR PERMITS REQUIRED

AREA VARIANCES WILL BE REQURED FOR PAVEMENT AND STRUCTURE SETBACKS

APPLICATIONS WILL NOT BE ACCEPTED WITHOUT COMPLETION OF ALL REQUIREMENTS LISTED HEREIN

TO BE COMPLETED BY THE TOWN OF WEST SENECA

DATE RECEIVED ___ BY JKS

PLANNING BOARD MEETING DATE MAY 14, 2026

TOWN BOARD MEETING DATE NA

TOWN BOARD RESOLUTION DATE NA.

NON – REFUNDABLE FILING FEE (Payable to the Town Clerk): $ 600.00

SITE PLAN OR ZONING REFERRAL TO COUNTY OF ERIE, N.Y. AND REPLY TO MUNICIPALITY

Submit this form with full statement of proposed action (as described in GML 239-m(c)) at www.Erie.gov/IRonline, OR mail a hard copy (retain a copy for your files) to: Erie County Division of Planning, 95 Franklin Street, Room 1053, Buffalo, N.Y., 14202

DO NOT WRITE IN THIS SPACE

Case No.: _____

Postmark/Delivery Date: _____

The proposed action described herein is referred in accordance with the provisions of NYS General Municipal Law §239 l - nn

A Municipal Referral Map is available to help determine whether an applicable action is subject to referral.

Description of Proposed Action

1. Name of Municipality: Town of West Seneca

§239-m(4)(b) provides that the county shall have 30 days after receipt of a full statement of the proposed action to reply. If the county fails to reply within such period, the referring body may take final action. However, any county reply received after 30 days but 2 or more days prior to final action by the referring body shall be subject to §239-m(5) The referring body shall file a report of its final action with the county within 30 days per §239-m(6).

2. Hearing Schedule: **Date** May 14th, 2026 **Time** 6:00pm **Location** 1300 Union Rd West Seneca

3. Action is before: ☐ Legislative Body ☐ Board of Appeals ☑ Planning Board

4. Action consists of: ☐ New Ordinance ☐ Rezone/Map Change ☐ Ordinance Amendment

☑ Site Plan ☐ Variance ☐ Special Use Permit ☐ Other: _____

5. Location of Property: ☐ Entire Municipality ☐ Address: 705 Orchard Park Rd West Seneca, NY ~~14224~~

5a. S.B.L. of Property: 143.06-1-16

6. Referral required as site is within 500' of: ☐ State or County Property/Institution ☐ Municipal Boundary ☐ Farm Operation located in an Agricultural District

☐ Expressway ☐ County Road ☑ State Highway ☐ Proposed State or County Road, Property, Building/Institution, Drainageway

7. Proposed change or use: *(specify the action, such as the scope of variances or site plans)* Develop vacant site for EV charging stations

8. Other remarks: _____

9. Submitted by: Jeffrey Schieber **Email:** jschieber@twsny.org

10. Return Address: 1250 Union Rd West Seneca NY 14224

Reply to Municipality by Erie County Division of Planning

Receipt of the above-described proposed action is acknowledged on _____. The Division herewith submits its review and reply under the provisions of applicable state and local law, based on the information submitted with this referral.

1. ☐ **The proposed action is not subject to review under the law.**
2. ☐ **Comment on proposed action is attached hereto.**
3. ☐ **The proposed action is subject to review; Recommendation on Proposed Action is attached hereto.**
4. ☐ **No Recommendation; proposed action has been reviewed and determined to be of local concern.**

By the Division of Planning: _____ **Date:** _____

TOWN OF WEST SENECA

CODE ENFORCEMENT OFFICE
"BUILDING SAFETY IS NO ACCIDENT"

TOWN SUPERVISOR
GARY A. DICKSON

TOWN COUNCIL
ROBERT J. BREIDENSTEIN
JEFFREY A. PIEKAREC
SCOTT D. ROBERTSON
MARY T. SHERMAN

April 16, 2026

Town of West Seneca Building Dept.
1250 Union Rd
West Seneca, NY 14224

Re: 1475 Orchard Park Road
Rezone Request

To Whom It May Concern:

Please find enclosed a submittal for a rezone request to permit a Custom Sewing Shop to operate out of the existing Church Building. The scheduled Planning Board meeting is set for May 14,2026 with a future Town Board Meeting to follow.

Pursuant to Article 8 of the Environmental Conservation law, State Environmental Quality Review Act (SEQRA):

The Town of West Seneca is seeking lead agency designation in this matter. The Town of West Seneca will make a determination of its significance. All submitted materials will be posted on Town web site from review and comment. Please return any comments or concerns within 30 days of the date of notification.

If you have any questions, please call our office 716-558-3242.

Yours truly,
Jeffrey A Schieber
Jeffrey A Schieber
Code Enforcement Officer
jschieber@twsny.org

JAS:sl
cc: E. C. Dept of Planning via online submittal
Reserve Fire Dept.
Historical Commission
SHPO via online submittal
NYS DOT

SITE PLAN OR ZONING REFERRAL TO COUNTY OF ERIE, N.Y. AND REPLY TO MUNICIPALITY

Submit this form with full statement of proposed action (as described in GML 239-m(c)) at www.Erie.gov/IRonline, OR mail a hard copy (retain a copy for your files) to: Erie County Division of Planning, 95 Franklin Street, Room 1053, Buffalo, N.Y., 14202

DO NOT WRITE IN THIS SPACE

Case No.: _____

Postmark/Delivery Date: _____

The proposed action described herein is referred in accordance with the provisions of NYS General Municipal Law §239 l - nn

A Municipal Referral Map is available to help determine whether an applicable action is subject to referral.

Description of Proposed Action

1. Name of Municipality: Town of West Seneca

§239-m(4)(b) provides that the county shall have 30 days after receipt of a full statement of the proposed action to reply.
If the county fails to reply within such period, the referring body may take final action.
However, any county reply received after 30 days but 2 or more days prior to final action by the referring body shall be subject to §239-m(5)
The referring body shall file a report of its final action with the county within 30 days per §239-m(6).

2. Hearing Schedule: **Date** May 14, 2026 **Time** 6:00pm **Location** 1300 Union Rd W. Seneca NY

3. Action is before: ☐ Legislative Body ☐ Board of Appeals ☑ Planning Board

4. Action consists of: ☐ New Ordinance ☑ Rezone/Map Change ☐ Ordinance Amendment

☐ Site Plan ☐ Variance ☐ Special Use Permit ☐ Other: _____

5. Location of Property: ☐ Entire Municipality ☐ Address: 1475 Orchard Park Rd W. Seneca NY 14224

5a. S.B.L. of Property: 152.07-1-1

6. Referral required as site is within 500' of: ☐ State or County Property/Institution ☐ Municipal Boundary ☐ Farm Operation located in an Agricultural District

☐ Expressway ☐ County Road ☐ State Highway ☐ Proposed State or County Road, Property, Building/Institution, Drainageway

7. Proposed change or use: *(specify the action, such as the scope of variances or site plans)* Requested rezone of the property from R-75 to C-2 to permit a sewing shop in the existing church building

8. Other remarks: _____

9. Submitted by: Jeffrey Schieber **Email:** jschieber@westseneca.gov

10. Return Address: 1250 Union Rd West Seneca NY 14224

Reply to Municipality by Erie County Division of Planning

Receipt of the above-described proposed action is acknowledged on _____. The Division herewith submits its review and reply under the provisions of applicable state and local law, based on the information submitted with this referral.

1. ☐ **The proposed action is not subject to review under the law.**
2. ☐ **Comment on proposed action is attached hereto.**
3. ☐ **The proposed action is subject to review; Recommendation on Proposed Action is attached hereto.**
4. ☐ **No Recommendation; proposed action has been reviewed and determined to be of local concern.**

By the Division of Planning: _____ **Date:** _____

ZR1
Revised 5/22

TOWN OF WEST SENECA

APPLICATION FOR REZONING – SPECIAL PERMIT

TO BE COMPLETED BY APPLICANT

DATE 4-8-26 FILE # 2026-002

PROJECT NAME 1475 ORCHARD PARK RD

PROJECT LOCATION (Include address and distance to nearest intersection)
1475 ORCHARD PARK RD NEAR BERG RD

APPLICANT HELD DEVELOPMENT & PROPERTIES LLC PH/FAX

ADDRESS 44 DYKE RD WEST SENECA N.Y. 14224

PROPERTY OWNER SAME PH/FAX

ADDRESS

ENGINEER/ ARCHITECT PH/ FAX

ADDRESS

SBL # 152.07-1-1

PROJECT DESCRIPTION (Include all uses and any required construction)
CHANGE ZONING FROM RESIDENTIAL (PRESENTLY CHURCH PROPERTY) TO C-2 (1)(C) FOR CUSTOM SEWING SHOP

SIZE OF LOT (acres) 2.8 ACRES ACREAGE TO BE REZONED 2.8 ACRES

ADJACENT ROAD NAMES AND AMOUNT OF FRONTAGE ON EACH
ORCHARD PARK RD - BERG RD
143.' ORCHARD PARK RD. FRONTAGE - SEE SURVEY ATTACHED

EXISTING ZONING R-75 PROPOSED ZONING C-2

EXISTING USE(S) ON PROPERTY CHURCH MEETING ROOMS

PROPOSED USE(S) ON PROPERTY CUSTOM SEWING SHOP

EXISTING USE(S) AND ZONING ON ALL PROPERTY WITHIN 500 FEET
RESIDENTIAL TO NORTH + SOUTH // COMMERCIAL TO EAST //

PUBLIC SEWER YES X NO ___ PUBLIC WATER YES X NO ___

VARIANCES AND OTHER APPROVALS OR PERMITS REQUIRED NONE

APPLICATIONS WILL NOT BE ACCEPTED WITHOUT COMPLETION OF ALL REQUIREMENTS LISTED HEREIN

TO BE COMPLETED BY THE TOWN OF WEST SENECA

DATE RECEIVED 4/15/26 BY JAS.

PLANNING BOARD MEETING DATE 5/14/26

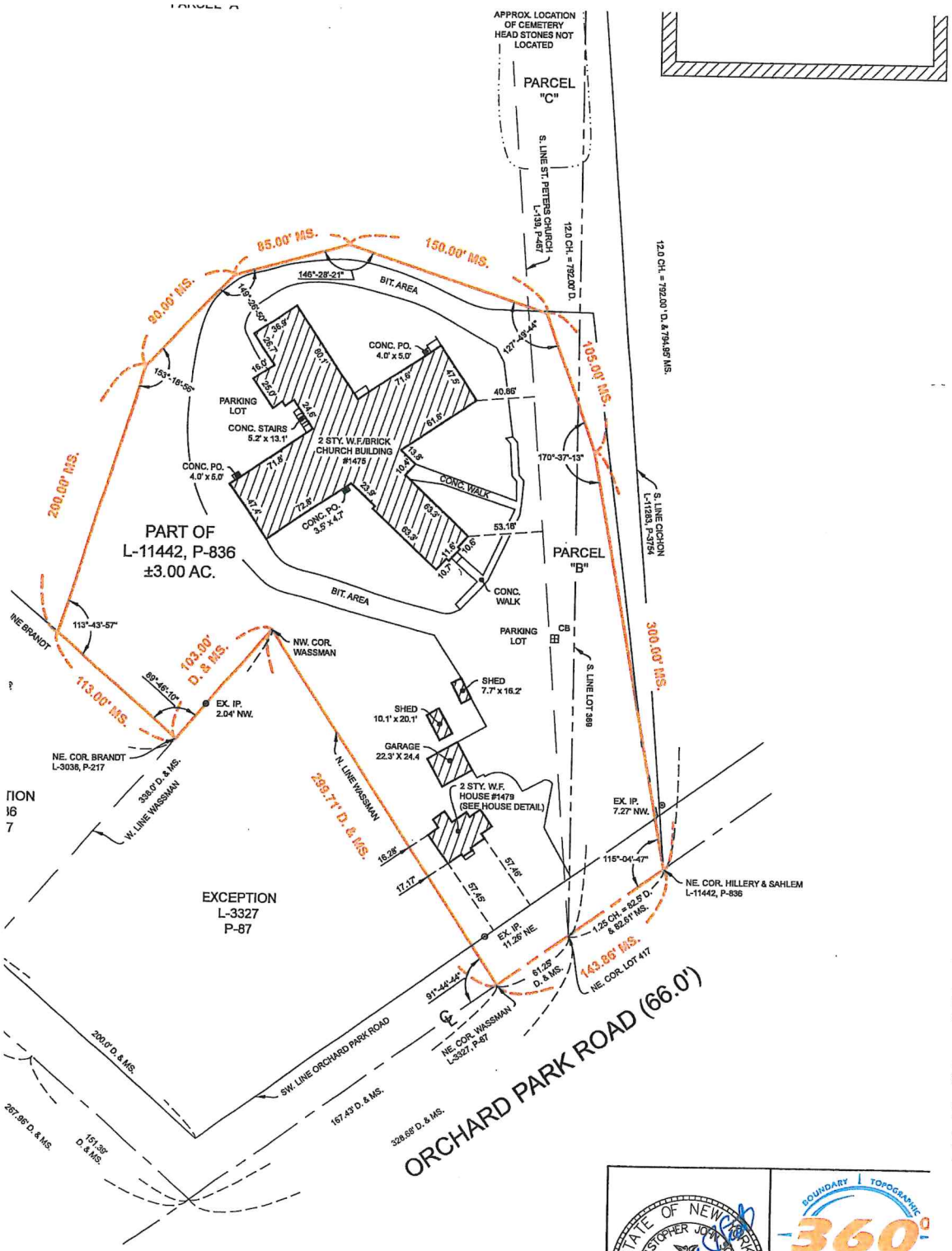
TOWN BOARD MEETING DATE TBD

TOWN BOARD RESOLUTION DATE

NON – REFUNDABLE FILING FEE (Payable to the Town Clerk): $ 400.00

CK# 55130

RECD WS TOWN CLERK '26 APR 15 PM 1:25



REVISED 10/29/2025; PARCEL INFORMATION

IP. = IRON PIPE
JB = JUNCTION BOX
L = LIBER
MH = MANHOLE
MP. = MAP
MS. = MEASURED
N. = NORTH
OH = OVERHEAD
O/L = ON LINE
PP = POWER POLE
P = PAGE
S. = SOUTH
STY. = STORY
TYP. = TYPICAL
W. = WEST
W/ = WITH
WD. = WOOD

MAP REFERENCE:

NOTES:

-ONLY COPIES FROM THE ORIGINAL OF THIS SURVEY MAP MARKED WITH THE SIGNATURE AND AN ORIGINAL OF THE LAND SURVEYOR'S SEAL SHALL BE CONSIDERED TO BE VALID TRUE COPIES

-UNAUTHORIZED ALTERATION OR ADDITION TO THIS SURVEY MAP IS A VIOLATION OF SECTION 7209, PROVISION 2 OF THE NEW YORK STATE EDUCATION LAW

STATE OF NEW YORK
CHRISTOPHER JOHN SCOTT
No. 050708
LICENSED LAND SURVEYOR

BOUNDARY | TOPOGRAPHIC
360° LAND SURVEY
3D MODELING | CONSTRUCTION

PO Box 207
Sanborn, New York 14132
PHONE: (716) 587-8380

ALL THAT TRACT OR PARCEL OF LAND, situate in the Town of ~~Orchard~~ West Seneca ~~Park,~~ County of Erie and State of New York, being part of Lot Numbers 369 ~~and~~ 417, Township 10, Range 5 of the Buffalo Creek Reservation, bounded and described as follows:

BEGINNING at a point in the center line of Orchard Park Road, being 66 feet wide at the northeast corner of lands conveyed to Brian Hillery and William Sahlem by Deed recorded in the Erie County Clerk's Office in Liber 11442 of Deeds at page 836; thence southeasterly along the center line of said road, a distance of 143.86 feet to the northeast corner of lands conveyed to Margaret Wassman by Deed recorded in the Erie County Clerk's Office in Liber 3327 of Deeds at page 87; thence southwesterly along the north line of said lands conveyed to Wassman, a distance of 299.71 feet to the northwest corner of said lands; thence southeasterly along the west line of said lands conveyed to Wassman, a distance of 103 feet to the northeast corner of lands conveyed to Gustave Brandt by Deed recorded in the Erie County Clerk's Office in Liber 3036 of Deeds at page 217; thence southwesterly along the north line of said lands conveyed to Brandt, a distance of 113 feet to a point; thence northwesterly on an interior angle of 113° 43′ 57″, a distance of 200 feet to a point; thence continuing northwesterly on an interior angle of 153° 18′ 56″, a distance of 90 feet to a point; thence northerly on an interior angle of 149° 26′ 50″, a distance of 85 feet to a point; thence northeasterly on an interior angle of 146° 28′ 21″, a distance of 150 feet to a point; thence continuing northeasterly on an interior angle of 127° 49′ 44″, a distance of 105 feet to a point; thence easterly on an interior angle of 170° 37′ 13″, a distance of 300 feet to the point of beginning.

Law Office of

Ralph C. Lorigo

RALPH C. LORIGO
ROBERT R. VARIO
ROBERT BATTISTA
MARY BETH AQUILINE
FRANK J. JACOBSON

PATRICK H. NeMOYER JSC (Ret'd)
(1952-2025)

101 SLADE AVENUE
WEST SENECA, NEW YORK 14224
(716) 824-7200

JON F. MINEAR
KELLY L. KULAKOWSKI
CHELSEA A. MacDONALD
JAMES R. GARDNER

Facsimile No.: (716) 824-8728
(not for service of process)

April 10, 2026

Town of West Seneca
1250 Union Road
West Seneca NY 14224

RE: Application for Rezoning
1475 Orchard Park Road

Dear Town Board & Planning Board Members:

Please be advised that I will be representing Held Development & Properties LLC, the owner of real property at 1475 Orchard Park Road, West Seneca, New York, with regard to their application for a change of zoning from residential (presently church property) to C2 to allow for a custom sewing shop in the rear building located at 1475 Orchard Park Road.

The property was recently purchased by Held Development & Properties LLC and is a portion of real property that includes a single family residence, a church building and what was a rear school building.

The applicant, Held Development & Properties LLC currently has a sewing business in the Town of West Seneca under the name of MTS Sewing located at 44 Dyke Road, West Seneca.

The business is expanding and the Applicant intends to use a portion of the rear building, being approximately three rooms, for a custom sewing shop. These rooms are listed as 1, 2 and 3 on the diagram enclosed.

The purpose would be sewing FR Kansas panels for golf carts. There would be approximately four to eight people involved as employees. The hours of operation would be from 7:00 AM to 3:30 PM Monday through Friday.

The church presently has a lease to occupy the church building and certain rooms in the rear building. There are four bathrooms in the rear building and since it was used as a school, every wall is a concrete block wall separating the rooms contained therein.

I am enclosing a Google Map picture of the property which shows the access and parking. No changes will need to be made.

The church will only operate one hour each Sunday when the sewing business is closed.

The Applicant respectfully requests a change of zoning to C-2.

Very truly yours,

RALPH C. LORIGO

RCL:maw

Held Development & Properties LLC.

44 Dyke Rd.

West Seneca, NY 14224

To whom it may concern,

My name is Michael Held. My company, Held Development & Properties LLC, owns 1475 Orchard Park Road in West Seneca. I would like to occupy 3 rooms for a custom sewing shop. Those rooms are listed as 1, 2, and 3 on the diagram. We would be sewing FR canvas panels for golf carts. I would need approximately 4-8 people. Those people would work 7am-3:30pm, Mon-Fri.

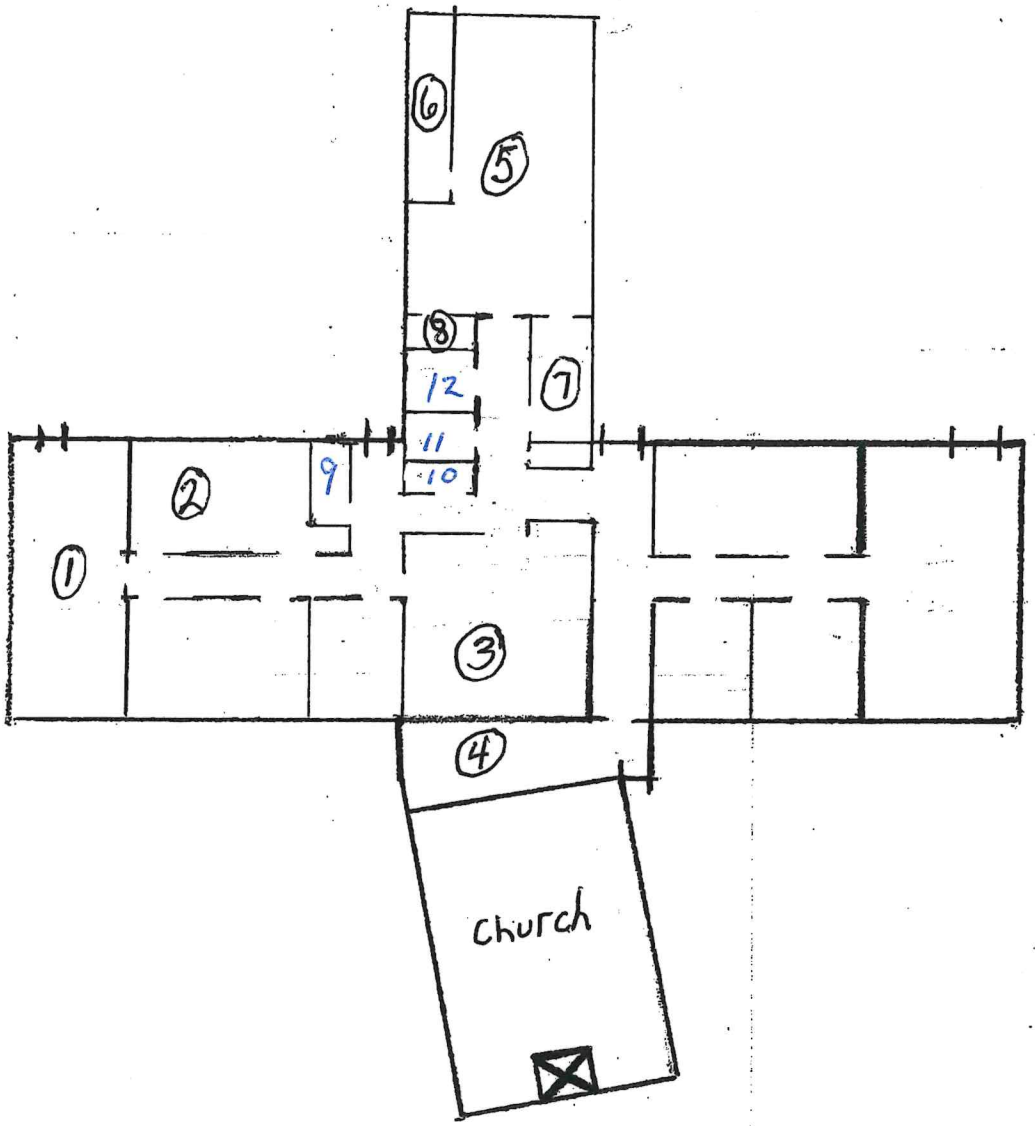
Best Regards,

Michael Held

Michael Held

Untitled Map

Write a description for your map.



1,2,3 - Rooms for Sewing
4 - Glass Foyer
5 - Fellowship Hall
6 - Kitchen
7 - Storage Room
8 - Pantry
9-10-11-12 BATHROOMS

April 20, 2026

Jeffery Schieber
Code Enforcement Officer
1250 Union Road – Room 210
West Seneca, New York 14224

RE: 2544 Clinton Street – Home Leasing Development
Site Plan Review Application Package

Mr. Schieber:

On behalf of Home Leasing Development, I am pleased to submit a Site Plan Review Application Package for the proposed affordable multi-family housing project "West Seneca Apartments", located on one parcel at 2544 Clinton Street.

Home Leasing is seeking Site Plan Approval to develop the project on an approximately 12.7-acre site. (TA#124.00-2-5). The project proposes the construction of 75-units spanning across two buildings – the existing mansion on site (15-units) and a new 3-story multifamily apartment building (60-units) with associated parking, site and drainage improvements.

The original project was approved by the Town Board for Rezoning, Special Use Permit and SEQR Negative Declaration on 1/27/2025. The revised layout for the project was approved by the Town Board for an Amendment to the existing Special Use Permit on 2/9/2026.

This package includes a fully engineered site package for Planning Board Review.

Per Town of West Seneca Code – Site Plan Review Criteria - "Planning Board Actions; project review criteria" (Code Section 102-12 (A & B)), we offer the following responses:

(1) Conformance with this chapter and other adopted Town plans, an approved development plan that includes the subject site, if one exists, and all other applicable laws;

To the best of our knowledge, the project is in compliance with all regulations of the R-50 zoning district and supplemental multifamily housing requirements. Based on the 2016 Comprehensive Plan – Neighborhoods – Section A, B and C – the plan supports continuing to build affordable housing with West Seneca.

(2) Compatibility of the proposed development with the natural features of the land and the environmental attributes of the site;

The project is designed to preserve and avoid disturbance in the environmentally sensitive areas located on the site. There will be no disturbance within the archeological buffer area and 100-year floodplain. All development is located in FEMA Zone X and areas of minimal flood hazard. Development is located away from Cayuga creek to maintaining an existing natural buffer. The site layout is designed to maintain existing trees/vegetation along Clinton Street and along the perimeter of the parcel.

(3) The project's compliance with grading and drainage requirements of the Town;

The project is designed to comply with the town standards. Stormwater is designed to meet NYS Stormwater Design Manual standards, grading and disturbance will be limited to areas as required for installation of stormwater practices and to achieve positive drainage away from buildings/across hardscape areas.

(4) The project's compliance with the Town's Flood Damage Prevention Law;

The project is located partially within FEMA Zone X, with the majority of the development sitting outside of all mapped zones. Per Town Code Section 77-12 – A floodplain development permit is not required for development within Zone X.

(5) The general layout and design of buildings, lighting, signage, open space and development features consistent with reasonable planning principles;

The proposed singular new 3-story building (60-units) along with utilizing the existing mansion for an additional 15-units was chosen to lessen the overall footprint on the property. The existing landscaping and stone wall are being preserved to the greatest extent possible, providing screening of the new building and parking lot from Clinton Street. Roads and parking lots have been designed to meet town standards and allow for proper emergency access.

(6) The location and design of vehicular entrances/exits, including emergency access and fire lanes, in relation to the street system, traffic circulation and control within the site, and coordination of access points and circulation with adjoining properties;

The existing entrance to the property is being utilized with minor widening to allow for adequate space for emergency vehicles. The parking lot and roadways are designed to meet NYS Fire Code including: fire lanes for aerial apparatus access along two sides of building, fire turnarounds, a looped parking lot, and two new private fire hydrants.

(7) The provision and protection of pedestrian movement on the site and coordination of pedestrian movement on adjoining properties and the street system;

Sidewalks are provided throughout the proposed development. All sidewalks (as shown on the plans) are ADA compliant. Sidewalk access is provided out to Clinton Street and a new segment of sidewalk within the ROW and extends to the west to the limits of the existing guardrail, in accordance with previous coordination with NYSDOT.

(8) The location, design, layout and adequacy of parking, loading and stacking areas, including the provision of opportunities for handicapped parking;

The parking lot provides the code required 170 spaces – including 20 visitor spaces. The submitted plans proposes 20-banked parking spaces to be constructed in the future if demand requires it. ADA and EV spaces are provided at both buildings, adjacent to the accessible entrances for the respective buildings.

(9) Provision of landscaping, screening and buffers to complement development and protect adjacent uses and public rights-of-way from unsightliness, noise, glare and other nuisances. Such elements shall also be used to promote the availability of green space in nonresidential development and recreation space in residential development to avoid a continuous paved or built environment;

The project layout was designed to preserve open space. Existing natural buffers will be maintained along the north, east and west boundaries of the site. Trees along the south (Clinton Street) will be maintained – other than removal required for the widening of the driveway. A patio area and playground are provided, along with landscaped islands throughout the parking lot. Trees will be added along the entrance drive to provide additional screening of the new development from Clinton Street.

(10) Adequate provision of drainage and stormwater management facilities;

A Stormwater Pollution Prevention Plan (SWPPP) was prepared for the site and is included in this submission package. The site is designed per the NYS Stormwater Design Manual standards and NYSDEC Standards and Specifications for Erosion and Sediment Control. Several stormwater practices are proposed for the site including bioretention areas, underground stormwater chambers and use of a hydrodynamic separator (water quality unit).

(11) Adequacy of sewer and water facilities, fire protection and conformance with Town regulations for the provision and construction of those services;

A full sewer report (including flow testing) has been completed. Findings of the monitoring was reviewed and approved by Erie County Sewer, concluding that the sewer has sufficient capacity to support the proposed project. Existing flow tests for the watermain on Clinton Street have been reviewed and it was determined that the existing watermain has sufficient pressure to support the proposed project. Both buildings will be designed to meet NYS Fire Code (for rehabilitation of the existing building and new construction).

(12) Where appropriate and applicable, the concurrence of Town agencies, New York State Department of Transportation, New York State Department of Environmental Conservation and other county or state agencies, as appropriate; and

Correspondence with reviewing agencies will be/has been provided to the town as a part of the site plan review. To date NYSDOT and SHPO correspondence was provided as part of SEQR review and issuance of the Special Use Permit.

(13) Meeting the requirements for a site plan, as identified in this chapter.

This application package as submitted meets the requirements of the Town Code, to the best of our knowledge.

Included for your consideration in the Site Plan Review are the following items:

- Site Plan Application
- Civil Plan Set
- Architectural Elevations & Rendering
- Preliminary ALTA
- Engineering Report
- SWPPP
- Check – Review Fee (mailed separately)

We look forward to presenting this project to the Planning Board on May 14th, 2026. If you have any questions or need any additional information, please feel free to contact me at 585-770-2525 or svakiener@labellapc.com.

Respectfully submitted,

LaBella Associates

Shelby Vakiener, Civil Engineer

TOWN OF WEST SENECA

APPLICATION FOR SITE PLAN REVIEW APPROVAL

TO BE COMPLETED BY APPLICANT

DATE 4/20/2026 FILE #_____

PROJECT NAME West Seneca Apartments

PROJECT LOCATION (Include address and distance to nearest intersection)
2544 Clinton Street - Nearest cross street - Lakeside Court (+/- 750 LF to the East)

APPLICANT Home Leasing - (contact - Angela Eicholtz) PH/FAX (248) 978-4420

ADDRESS 45 East Avenue, 2nd Floor, Rochester, NY 14604

PROPERTY OWNER Clinton Street Realty Holdings PH/FAX _____

ADDRESS _____

ENGINEER/ ARCHITECT Labella Associates DPC - (contact - Shelby Vakiener) PH/ FAX (585) 454-6110

ADDRESS 300 Pearl Street, Suite 130, Buffalo, NY 14202

SBL # 124.00-2-5

PROJECT DESCRIPTION (Include all uses and any required construction)

Construction of a new multifamily housing project with 75 total units. Includes a new +/- 75,900 SF building with 60 units and the re-purposing of the existing mansion on site with 15 units. Also includes, driveway, parking, stormwater management facilities

SIZE OF LOT (acres) 12.7 (to creek CL) ACREAGE TO BE REZONED N/A

ADJACENT ROAD NAMES AND AMOUNT OF FRONTAGE ON EACH
Clinton Street: +/- 205 LF of frontage

EXISTING ZONING R-50 PROPOSED ZONING R-50

EXISTING USE(S) ON PROPERTY Commercial

PROPOSED USE(S) ON PROPERTY Residential - Mutlifamily

EXISTING USE(S) AND ZONING ON ALL PROPERTY WITHIN 500 FEET

Zoning: R75(S), R-100 A, R-100A(S), C-2, C-2(S)
Uses include: 1 Family Residential, 2 Family Residential, Residential vacant land, Residential w/ community use, warehouse, converted residential

PUBLIC SEWER YES X NO ___ PUBLIC WATER YES X NO ___

VARIANCES AND OTHER APPROVALS OR PERMITS REQUIRED
Special Use Permit - Issued by Town Board on 2/9/2026

APPLICATIONS WILL NOT BE ACCEPTED WITHOUT COMPLETION OF ALL REQUIREMENTS LISTED HEREIN

TO BE COMPLETED BY THE TOWN OF WEST SENECA

DATE RECEIVED _____ BY _____

PLANNING BOARD MEETING DATE _____

TOWN BOARD MEETING DATE _____

TOWN BOARD RESOLUTION DATE _____

NON – REFUNDABLE FILING FEE (Payable to the Town Clerk): $

TOWN OF WEST SENECA

APPLICANT CHECKLIST FOR SITE PLAN REVIEW

PLEASE REFER TO APPENDICES A, B, & C AND THE TOWN OF WEST SENECA ZONING ORDINANCE FOR ADDITIONAL DESIGN INFORMATION. THE APPLICANT/ AGENT MUST INITIAL EACH ELEMENT AS PROOF THAT ALL REQUIREMENTS HAVE BEEN MET.

I. SITE PLAN All site plan drawings shall be prepared, signed, and sealed by an architect, landscape architect, engineer, or surveyor licensed in the State of New York, drawn to scale, and must include the following elements (also see checklist in Appendix A) :

__SV__ Title of drawing.

__SV__ Name, address, and telephone number of applicant, owner of record, and person who prepared the drawing. If owner of record is different from applicant, a letter of authorization from the owner or a contract of sale is required.

__SV__ North arrow, scale, revisions block and date.

__SV__ Site location map.

__SV__ Name, location, width, and jurisdiction of existing roads and sidewalks.

__SV__ Location of curb cuts on project site and on adjacent properties (including properties across the street).

__SV__ Location of all existing and proposed buildings and structures, paving, curbs, and pedestrian and bicycle facilities with those to be removed clearly identified.

__SV__ Show all zoning district boundaries, zoning classifications for all adjacent properties (including across the street), and zoning setback dimensions. If a portion of the site is proposed to be rezoned, the new zoning district boundaries should be shown.

__SV__ Zoning data block comparing existing and proposed requirements, including greenspace and parking calculations.

__SV__ Location of any areas proposed for outdoor display and sale of merchandise, if applicable.

__SV__ Layout of all off-street parking areas showing access drives, aisles, parking spaces, handicapped accessible spaces, and loading areas (conforming to all requirements of the Town of West Seneca Zoning Ordinance). A cross-section of proposed pavement must be provided.

__SV__ Existing and proposed rights-of-way and easements and location of areas to be in common ownership or to be offered for dedication.

__SV__ Existing and proposed watercourses including wetlands, floodways, and floodplains (this information should also appear in the drainage plan and grading plan).

__SV__ Location of all proposed signage (conforming to all requirements of the Town of West Seneca Zoning Ordinance).

__SV__ Any other information as might be required by the Planning Board.

II. BOUNDARY SURVEY

_SV_ A **topographic boundary survey** and a **written legal description.** (metes and bounds)
Provide in Electronic Form as well as written

III. UTILITY PLAN – to include the following elements (also see checklist in Appendix A)

_SV_ Location of existing water mains, showing main size and material type, o-site and off-site fire hydrant locations, and on-site main line valve locations.

_SV_ Location of proposed water service showing material type and diameter of water main.

_SV_ Location of existing and proposed gas and electric service.

_SV_ Sanitary service showing location, proposed line, and existing main size. Include all manhole rim and invert elevations, pipe slope, and construction materials, if appropriate

_SV_ The estimated daily sanitary sewage flow calculations must be included in the site plan Engineering Report.

_SV_ Written confirmation that the process has been initiated with County or State Highway Departments for sanitary sewer connection, curb cuts, work permits, etc. (Applicant must furnish a letter from the appropriate County or State agency indicating their approval of the proposal prior to issuance of a Building Permit)(if necessary).

IV. GRADING PLAN – To include the following elements (also see checklist in Appendix A).

_SV_ Existing and proposed grade elevation with contour lines at 1-foot intervals.

_SV_ Finished floor elevations for all proposed and adjacent structures.

V. DRAINAGE PLAN – to include the following elements (also see checklist in Appendix A):

_SV_ All catch basins, line size, and proposed construction materials. No stormwater shall drain onto adjoining properties. All downspouts shall be connected to the stormwater collection system.

_SV_ Systems shall be designed for a minimum 10-year storm.

_SV_ Stormwater calculations, prepared by a person licensed to design a storm drainage system in New York State.

_SV_ Site plan Engineering Report (refer to requirements in Appendices A & B).

_SV_ Any proposed project that will involve one or more acres of soil disturbance is required to comply with NYSDEC SPDES General Permit requirements for
stormwater discharges. A copy of the Notice of Intent (NOI) and Stormwater
Pollution Prevention Plan (WPPP) must be provided with the site plan Engineering Report..

VI. LANDSCAPING PLAN – to include the following elements (also see Appendix C).

__SV__ All existing and proposed tree lines.

FUTURE All proposed trees, shrubs, and other plantings with appropriate labeling.

FUTURE Planting schedule data block with legend key, species name (botanical and common names), quantity, size, and spacing.

__SV__ Planting details for trees and evergreens must illustrate the crown of root ball at six (6) inches above finished grade; three (3) inches for shrubs.

__SV__ Refer to the Town of West Seneca Zoning Ordinance for applicable landscaping and screening requirements.

VII. CLEARING 7 SOIL EROSION CONTROL PLAN - to include the following elements:

__SV__ Site preparation and clearing shall be designed to fit with the vegetation, topography, and other natural features of the site and shall preserve as many of these features of the sight and shall preserve as many of these features as possible.

__SV__ Show clearing limits, stock pile area, and all temporary and permanent drainage facilities. Erosion and sediment control facilities must be shown.

__SV__ A time schedule that is keyed to the operation must be provided.

__SV__ Include a note on the plan to indicate that stumps and brush may not be buried in the Town and that topsoil may not be removed from the work site without a permit.

VII. LIGHTING PLAN – to include the following elements:

__SV__ Location of all lighting fixtures and standards on the property and structures, including a fixture schedule.

__SV__ Photometric data for site illumination.

IX. BUILDING HEIGHT AND DESIGN

__SV__ Building elevations and floor plans of all non – residential structures and all residential structures containing three (3) or more dwelling units (including net floor area calculations).

I, Shelby Vakiener - agent for applicant as owner/applicant of West Seneca Apartments, located at 2544 Clinton Street. Town of West Seneca, to the best of my knowledge has submitted a complete application package for a site plan for review.

TOWN OF WEST SENECA

APPENDIX A-SITE PLAN APPLICATION CHECKLIST

I. GENERAL

_SV_ All elevations must reference the actual elevation of the site and proposed building (utilize Town of West Seneca data). Setting a base elevation at the centerline of the road to use as reference is not acceptable.

_SV_ All profiles provided must be drawn so that the horizontal scale is no more than 1" = 10' horizontal, and 1" = 5' vertical.

_SV_ Profiles be provided for utility crossings, the sanitary sewer system, and storm sewer system.

_SV_ Profiles for any utilities as deemed necessary by the engineer for construction.

II. UTILITY PLAN

_SV_ Add a note to the plan that states: "A minimum of 10 feet of horizontal and 18 inches of vertical separation must be maintained between all sanitary sewer and water services".

_SV_ Add a note to the plan that states: "The Erie County Water Authority is to be notified a minimum of 48-hours prior to starting the connection to the new water service.

_SV_ Add a note to the plan that states: "Select backfill is required for all utilities (gas, water, storm, sanitary) that cross through any pavement area." The limits of the select backfill must be shown on the utility plan.

_SV_ The plans must clearly state the type of proposed connection to the existing waterline to be made. Will it saddle with corporation stop or tapping sleeve and valve.

_SV_ All existing utilities, grading, etc. must be shown as a grey line type.

_SV_ All proposed utilities, grading, etc. must be shown as a black line type.

_SV_ Provide a trench detail for the proposed waterline installation. The detail must show the depth of cover, stone bedding, and indicate the use of underground waterline marker tape.

_SV_ Provide a trench detail for the proposed sanitary sewer lateral. The detail must show the depth of cover, stone bedding, and indicate the use of underground waterline marker tape. /when connecting the Erie County Sewer District No. 1 or No. 3 system, their details must be provided.

FUTURE Provide a profile for the proposed sanitary sewer service showing the connection to the existing system and connection at the facility.

III. PAVEMENT

__SV__ Asphalt pavement grades should be at least 1.5%, preferably 2.0% to drain properly, minimize public safety concerns, and avoid liability issues. Theses grades must be shown on the drainage plan with flow arrows showing the direction of water flow.

__SV__ Show on the plans a cross-section of the proposed sidewalk.

__SV__ Show on the plans a cross-section of the proposed asphalt pavement. It is suggested that a thicker asphalt section be used for high traffic travel areas, where the dumpster is located, or where the deliveries will occur.

__SV__ On the asphalt pavement cross-section, show the use of filter fabric (Mirafi 140N, or equal) under the pavement sub-base.

__n/a__ If connections to cross –access driveways are being made with adjacent sites, a detail must be shown on the plans for the proposed connection. The pavement transition detail must include a V-shaped saw cut into the existing pavement and tack coat.

IV. DRAINAGE/GRADING

__SV__ The stockpile area for topsoil and fill must be shown on the design plans.

__SV__ Spot elevations for adjacent properties must be provided on the grading plan.

__SV__ A minimum of 6-nches of cover are required for all storm sewer pipes in grass area. A minimum of 12-inches of cover are required for all storm sewer pipes in pavement. Storm sewer pipe located within the sub-base of the pavement is not allowed.

__SV__ Invert elevations must be shown for all culverts under driveways.

__n/a__ Provide stone rip rap at the pipe outlets from the detention pond.

__n/a__ Provide emergency overflow for the detention pond for the 100-year storm elevation.

__SV__ All culverts under driveways must be shown with galvanized end sections.

__SV__ Diameter, material type, and inverts of all roof leader downspouts must be shown.

__SV__ Diameter, material type, and inverts of all storm sewer pipes must be shown on the plans.

__n/a__ For sites with less than one (1) acre of disturbance, the design engineer is required to detain the difference between the 10-year pre-developed storm and the 25-year post-developed storm.

__SV__ For sites with greater than one (1) acre of disturbance, the design engineer is required to comply with all NYSDEC Stormwater Phase 2 regulations and design guidance.

V. SITE PLAN ENGINEERING REPORT

SV The applicant must provide three (3) copies of the site plan Engineering Report. This report will contain (at a minimum), the following sections:

- General Project Description.
- Project Location Map.
- Water System Calculations.
- Sanitary Sewer System Calculations.
- Stormwater Calculations

SV Provide the following information related to the proposed waterline for the facility in the design report. This would include the following:

- Domestic water demand (include calculations).
- Static waterline pressure (at the water right-of way).

FUTURE Anticipated pressure at the facility (include head loss calculations through the water service and backflow preventer/RPZ and meter); the design engineer must comment on the need to provide a sprinkler system for the facility. Provide fire flow calculation s for the facility (if applicable). Provide the following information related to the proposed sanitary sewer system for the facility in the design report. This would include the following:

- Number of employees at the facility.
- Sanitary sewer demand and lateral pipe sizing (include calculations).

SV Provide the following information related to the stormwater calculations for the facility in the design report. This would include the following:
Soil types of the site.

- Permeability and depth of water table of the soil.
- Description/dialogue on existing grading and stormwater runoff.
- Description/dialogue on proposed grading and stormwater runoff.
- Comment on the presence and show location of any NYSDEC or Federal Wetlands or 100-year Floodplain boundary.
- For sites with less than one (1) acre of disturbance, the design engineer is required to detain the difference between the 10-year pre-developed storm and the 25-year post-developed storm. Calculations must be provided
- For sites with greater than one (1) acre of disturbance, the design engineer is required to comply with all NYSDEC Stormwater Phase 2 regulations. Calculations must be provided.
- Calculations to be provided must include all assumptions, time of concentration, and detention pond sizing, and stormwater pipe sizing.
- All existing headwater and tailwater conditions must be considered for the design calculations.

Refer to APPENDIX B "Design of Stormwater Detention Facilities" for design guidance.

APPENDIX B-DESIGN OF STORMWATER DETENTION FACILITIES

The following method of determining the size of stormwater detention and retention facilities is presented as a guide for engineers, architects, and developers involved with construction projects in the Town of West Seneca.

Detention facilities are those facilities that detain the flow of stormwater runoff and discharge it at a reduced rate from the detention area. /this type of system operates by gravity with a large inlet and a small inlet. Retention facilities retain stormwater runoff, and it is necessary to pump the collected water into the downstream drainage system after peak flows have passed. Normally, detention facilities are installed much more frequently than retention facilities.

The Town of West Seneca requires that the stormwater detention system be designed in accordance with the following documents:

1. NYS Stormwater Design Manual
2. NYSDEC:SPDES General Permit for Stormwater Discharges from Construction Activity (GP-0-10-001)
3. NYSDEC: Standards and Specifications for Erosion and Sediment Control

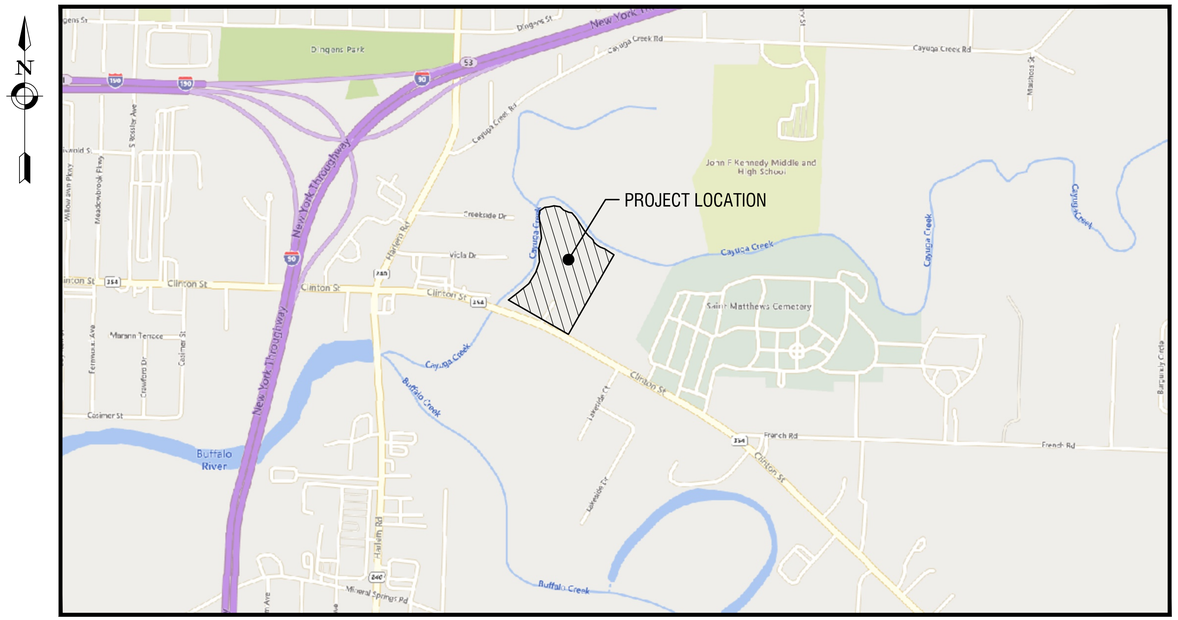
A copy of the Notice of Intent (NOI) and Storm Water Pollution Prevention Plan(SWPPP) as required by the New York State Department of Environmental Conservation SPDES General Permit for Stormwater Discharges from Construction Activity (Permit No. GP-0-10-001) must be received and accepted by the Town prior to construction activities.

- For projects accepted by the town, construction cannot begin until:
  * Five (5) business days from the date the NYSDEC receives a copy of the NOI; or the applicant receives an Acknowledgement Letter from the NYSDEC.

The engineer must provide all calculation and mappings, and state all assumptions necessary for review by the Town of West Seneca.

WEST SENECA APARTMENTS

2544 CLINTON ST,
WEST SENECA, NY 14224



LOCATION MAP
N.T.S.

HOME LEASING

75 S CLINTON AVE SUITE 700,
ROCHESTER, NEW YORK 14604
PROJECT NO: 2241067
APRIL 2026

LaBella
Powered by partnership.

300 Pearl Street, Suite 130
Buffalo, NY 14202
716-551-6281

labellapc.com

ISSUED FOR SITE PLAN APPROVAL
APRIL 2026

HOME LEASING
PROJECT NO: 2241067

WEST SENECA APARTMENTS
2544 CLINTON ST, WEST SENECA, NY 14224

GENERAL NOTES

1. THE CONTRACTOR ALONE SHALL BE RESPONSIBLE TO LOCATE UTILITIES OUTSIDE THE RIGHT-OF-WAY INCLUDING PRIVATE ROADS.
2. SITE DRAINAGE, INCLUDING THE PROJECT SITE AND ADJACENT PRIVATE AND PUBLIC ROADWAYS, DRIVES, PARKING AREAS OR PROPERTIES SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUPPLYING ALL MATERIALS, TOOLS AND EQUIPMENT, INCLUDING SPECIAL CUTTING DEVICES, NECESSARY TO PERFORM THE WORK CONTAINED IN THIS CONTRACT.
4. THE SIZES AND MATERIAL OF CONSTRUCTION OF WATER MAINS, SANITARY SEWERS AND STORM SEWERS TO REMAIN ARE REPUTED. THE CONTRACTOR SHALL VERIFY SIZES OF ALL UTILITIES WHERE CONNECTIONS TO SAID EXISTING UTILITIES ARE REQUIRED. EXCAVATION TO VERIFY THESE UTILITIES SHALL BE MADE AT NO ADDITIONAL COST TO THE OWNER.
5. THE CONTRACTOR SHALL PROTECT ALL EXISTING SITE AMENITIES NOT DESIGNATED FOR REMOVAL.
6. UNLESS OTHERWISE INDICATED ON THE PLANS OR DIRECTED BY THE ARCHITECT/ENGINEER, THE CONTRACTOR IS RESPONSIBLE FOR PRESERVING AND PROTECTING FROM DAMAGE ALL TREES, SHRUBS AND PLANTS IN THE VICINITY OF THE PROPOSED WORK.
7. THE CONTRACTOR SHALL PROTECT AND SUPPORT ALL EXISTING UTILITIES DESIGNATED TO REMAIN FOR THE DURATION OF THE CONTRACT.
8. ANY SITE AMENITY, UTILITY, STREET APPURTENANCE, OR OTHER ITEM WHICH BECOMES DAMAGED AS A RESULT OF THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED OR REPLACED IN-KIND BY THE CONTRACTOR AS DETERMINED BY THE PROJECT MANAGER OR ARCHITECT/ENGINEER AND AT NO ADDITIONAL COST TO THE OWNER.

SURVEY NOTES

1. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO BID. NO ALLOWANCE WILL BE MADE FOR ADDITIONAL COSTS DUE TO CONTRACTOR'S FAILURE TO VERIFY EXISTING CONDITIONS.
2. THE CONTRACTOR SHALL LOCATE, MARK, SAFEGUARD AND PRESERVE ALL SURVEY MARKERS AND RIGHT-OF-WAY MARKERS IN THE AREA OF CONSTRUCTION.
3. ANY IRON PINS, MONUMENTS OR OTHER ITEMS DEFINING PROPERTY LINES WHICH ARE DISTURBED BY CONSTRUCTION OPERATIONS SHALL BE PROPERLY TIED AND ACCURATELY RESET BY A NYS LICENSED SURVEYOR UPON COMPLETION OF THE WORK.
4. HORIZONTAL DATUM BASED OFF NAD83.
5. VERTICAL BASED OFF OF NAVD88.

DEMOLITION NOTES

1. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO BID. NO ALLOWANCE WILL BE MADE FOR ADDITIONAL COSTS DUE TO CONTRACTOR'S FAILURE TO VERIFY EXISTING CONDITIONS AND DIMENSIONS.
2. PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY DIG SAFE NEW YORK AT 811 TO REQUEST UTILITY STAKEOUT OF ALL PUBLIC UTILITIES.
3. WORK ASSOCIATED WITH THIS CONTRACT WILL OCCUR AT AN ACTIVE AND FUNCTIONAL FACILITY. CONTRACTOR SHALL COORDINATE WITH THE OWNER TO MINIMIZE DISRUPTION TO THE OPERATIONS OF THE FACILITY. CONTRACTOR SHALL BE SOLELY RESPONSIBLE TO PROVIDE A SAFE WORK SITE AND TO PROTECT THE PUBLIC, VISITORS AND EMPLOYEES FROM HARM AS A RESULT OF HIS CONSTRUCTION ACTIVITIES.
4. THE HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING ABOVE GROUND AND BELOW GROUND UTILITIES, STRUCTURES, AND APPURTENANCES SHOWN ON THE PLANS ARE APPROXIMATE AND ARE NOT GUARANTEED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT HORIZONTAL AND VERTICAL LOCATION OF ALL UTILITIES, STRUCTURES, AND APPURTENANCES IN THE PATH OF AND ADJACENT TO THE PROPOSED WORK.
5. SITE DRAINAGE, INCLUDING THE PROJECT SITE AND ADJACENT PRIVATE AND PUBLIC ROADWAYS, DRIVES, PARKING AREAS OR PROPERTIES SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD.
6. CONTRACTOR SHALL PROTECT AND SUPPORT ALL EXISTING UTILITIES DESIGNATED TO REMAIN FOR THE DURATION OF THE CONTRACT.
7. THE CONTRACTOR SHALL NOTIFY THE LOCAL GOVERNMENT, LOCAL FIRE DEPARTMENT AND THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION (NYSDEC) AS NECESSARY AND SHALL OBTAIN ANY REQUIRED PERMITS PRIOR TO BEGINNING WORK. COPIES OF ANY REQUIRED PERMITS SHALL BE PROVIDED TO THE OWNER PRIOR TO BEGINNING THE WORK.
8. CONTRACTOR SHALL REMOVE FROM SITE, MATERIALS NOT INDICATED TO BE SALVAGED INCLUDING ALL DEBRIS. ALL REMOVED MATERIALS SHALL BECOME THE PROPERTY OF CONTRACTOR WHO SHALL LEGALLY DISPOSE OF SAME.
9. ALL TREES, SHRUBS AND PLANTS DESIGNATED TO REMAIN AND DISTURBED BY CONSTRUCTION OPERATIONS, SHALL BE REPLACED IN-KIND AS DIRECTED BY THE ARCHITECT/ENGINEER AND/OR OWNER'S DESIGNATED REPRESENTATIVE AT NO ADDITIONAL COST TO THE OWNER.
10. THE CONTRACTOR SHALL MAINTAIN SAFE VEHICULAR AND PEDESTRIAN ACCESS TO THE EXISTING BUILDINGS FOR THE DURATION OF THE CONTRACT.
11. WHEN EXISTING CONSTRUCTION WHICH IS TO REMAIN IS DAMAGED DURING THE COURSE OF CONSTRUCTION AS A RESULT OF CONTRACTORS WORK, IT SHALL BE REPAIRED AND/OR REPLACED WITH SIMILAR OR LIKE MATERIALS AS MUCH AS POSSIBLE, AT NO COST TO THE OWNER. ALL REPAIRS AND/OR REPLACEMENTS WILL BE SUBJECT TO OWNERS APPROVAL.
12. COORDINATE LOCATION OF TEMPORARY CONSTRUCTION FENCE AND TEMPORARY STONE STAGING AREA WITH OWNER

SITE NOTES

1. WELL COMPACTED SUBGRADE SHALL BE UTILIZED UNDERNEATH CONSTRUCTION OF PAVEMENT AND CONCRETE BASES.
2. ALL STAKEOUT FOR THE PROPOSED SITE IMPROVEMENTS SHALL BE COMPLETED BY A NEW YORK STATE LICENSED LAND SURVEYOR.
3. IF ANY DISCREPANCIES ARE NOTED BETWEEN THESE CONSTRUCTION DOCUMENTS AND INFORMATION PROVIDED OR AN ERROR IS SUSPECT, IT SHALL BE IMMEDIATELY REPORTED TO THE CONSTRUCTION MANAGER AND LABELLA ASSOCIATES PROJECT MANAGER IN WRITING.
4. ANY PROOF-ROLLING OF EXPOSED SUBBASE BY A MINIMUM 10 TON SMOOTH DRUM ROLLER SHALL BE DONE UNDER THE GUIDANCE OF, AND OBSERVED BY, QUALIFIED ENGINEERING PERSONNEL PRIOR TO PLACEMENT OF SUBBASE MATERIAL. THE ROLLER SHOULD BE OPERATED IN THE STATIC MODE AND COMPLETE AT LEAST TWO (2) PASSES OVER THE EXPOSED SUBGRADES.
5. EXISTING WETLANDS DELINEATED BY XXXX ON XX/XX/XXXX.
6. PARCEL LINES AS SHOWN BY XXXX COUNTY GIS DATABASE, FOR THE TOWN OF XXXX.

UTILITY NOTES

1. CONTRACTOR SHALL COORDINATE INSTALLATION OF WATER MAIN / WATER SERVICE WITH ERIE COUNTY WATER AUTHORITY AND THE ERIE COUNTY HEALTH DEPARTMENT (ECDOH). NO WORK SHALL BEGIN ON THE WATER MAIN / WATER SERVICE WITHOUT ECWA AND ECDOH SIGNATURES ON THE UTILITY PLAN.
2. CONTRACTOR SHALL COORDINATE INSTALLATION OF SANITARY MAIN / SANITARY SERVICE WITH ERIE COUNTY PURE WATERS (ECPW). NO WORK SHALL BEGIN ON THE SANITARY MAIN / SANITARY SERVICE WITHOUT ECPW SIGNATURE ON THE UTILITY PLAN.

GRADING NOTES

1. THE CONTRACTOR SHALL CONFORM TO THE REQUIREMENTS OF OSHA, AND ANY OTHER AGENCY HAVING JURISDICTION WITH REGARD TO SAFETY PRECAUTIONS WITH TRENCHING OPERATIONS. THE REQUIREMENTS SET FORTH HEREIN ARE INTENDED TO SUPPLEMENT REQUIREMENTS ESTABLISHED BY THESE AGENCIES. IN THE CASE OF A CONFLICT BETWEEN REQUIREMENTS OF OTHER JURISDICTIONAL AGENCIES AND THESE DOCUMENTS, THE MORE STRINGENT REQUIREMENT ON THE CONTRACTOR SHALL APPLY.
2. SHEETING, IF REQUIRED DURING CONSTRUCTION, IS CONSIDERED TO BE PART OF THIS CONTRACT AND SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER.
3. ALL TRENCHES THROUGH PAVEMENT SHALL BE SAW CUT PRIOR TO EXCAVATION AND AGAIN PRIOR TO PAVEMENT RESTORATION.
4. CONTRACTOR SHALL ADJUST THE RIMS OF ALL MANHOLES, CATCH BASINS, VALVE BOXES AND OTHER UTILITY SITE STRUCTURES TO MEET FINISHED GRADE IN AREAS REQUIRING REPAVING OR REGRADING AS PART OF THE WORK, INCLUDING THOSE THAT MAY NOT BE SHOWN ON THE PLANS.
5. VOIDS LEFT BY UTILITY OR STRUCTURE REMOVAL OR GRUBBING OPERATIONS SHALL BE BACKFILLED AND PROPERLY COMPACTED WITH STRUCTURAL FILL (NYSDOT ITEM 304.12) IN AREAS UNDER AND WITHIN 5 FEET HORIZONTALLY OF ALL STRUCTURES, BUILDINGS AND PAVEMENTS. IN GRASSED AREAS, VOIDS LEFT SHALL BE FILLED AND PROPERLY COMPACTED WITH SUITABLE ON-SITE OR IMPORTED EARTHEN BACKFILL. ALL DISTURBED AREAS SHALL BE RESTORED.
6. THE CONTRACTOR SHALL DEWATER ALL EXCAVATIONS TO PREVENT THE INTRODUCTION OF GROUNDWATER INTO THE TRENCHES/EXCAVATIONS. PROVIDE ALL EQUIPMENT NECESSARY TO MAINTAIN THE GROUNDWATER LEVEL AS NECESSARY.
7. THE CONTRACTOR SHALL PLACE AT MINIMUM 6 INCHES OF CLEANED SCREENED TOPSOIL IN ALL DISTURBED AREAS PRIOR TO SEEDING.

EROSION AND SEDIMENT CONTROL NOTES

1. ALL EROSION CONTROL MEASURES SHALL BE IN ACCORDANCE WITH NEW YORK STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL, AND LOCAL GOVERNING SOIL AND WATER CONSERVATION AGENCY RECOMMENDATIONS AND STANDARDS. CONTRACTOR SHALL SUBMIT PROPOSED EROSION CONTROL PLAN INCLUDING SEQUENCING OF WORK TO THE ENGINEER FOR REVIEW PRIOR TO START OF WORK.
2. UTILIZE CONSTRUCTION METHODS/TECHNIQUES, WHICH WILL LIMIT THE EXPOSED EARTHEN AREAS AND MINIMIZE THE EFFECT OF EARTH DISTURBANCE ACTIVITIES ON SOIL EROSION. THE AREA OF DISTURBANCE SHALL BE LIMITED TO A MAXIMUM OF 5 ACRES UNLESS OTHERWISE APPROVED BY THE ENGINEER.
3. ALL SEDIMENTATION BARRIERS AND OTHER TEMPORARY OR PERMANENT MEASURES SHALL BE IN PLACE PRIOR TO THE START OF CONSTRUCTION. PLANS SHOW THE SUGGESTED MINIMUM MEASURES REQUIRED.
4. REMOVAL OF ALL TEMPORARY EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE COMPLETED AT THE APPROVAL OF THE OWNER AND ENGINEER, THE COST OF REMOVING THESE MEASURES SHALL ALSO BE INCLUDED IN THE BID PRICE.
5. FOR THE DURATION OF THE PROJECT, THE CONTRACTOR SHALL PROTECT ALL ON-SITE, ADJACENT AND/OR DOWNSTREAM STORM/SANITARY SEWERS, AND/OR OTHER WATER COURSES FROM CONTAMINATION BY WATER BORNE SILTS, SEDIMENTS, FUELS, SOLVENTS, LUBRICANTS OR OTHER POLLUTANTS ORIGINATING FROM ANY WORK DONE ON, OR IN SUPPORT OF THIS PROJECT.
6. DURING CONSTRUCTION NO WET OR FRESH CONCRETE OR LEACHATE SHALL BE ALLOWED TO ESCAPE INTO STORM/SANITARY SEWERS, DITCHES OR OTHER WATERS OF NEW YORK STATE, NOR SHALL WASHINGS FROM CONCRETE TRUCKS, MIXERS OR OTHER DEVICES BE ALLOWED TO ENTER ANY STORM/SANITARY SEWERS, DITCHES, RIVERS, OR WATER COURSES.
7. ALL EXCAVATED OR IMPORTED EARTHEN STOCKPILES SHALL BE SUITABLY STABILIZED AND PROTECTED BY SILT FENCE SO THAT IT CANNOT REASONABLY ENTER ANY WATER BODY, OR STORM OR SANITARY SEWER.
8. ALL METHODS AND EQUIPMENT PROPOSED BY THE CONTRACTOR TO ACCOMPLISH THE WORK FOR EROSION AND POLLUTION CONTROL SHALL BE SUBJECT TO APPROVAL OF THE ENGINEER.
9. THE CONTRACTOR SHALL BE REQUIRED TO TREAT TRAVELED AREAS TO CONTROL DUST. WATER SHALL BE APPLIED TO SUCH TRAVELED AREAS AS THE ARCHITECT/ENGINEER OR OWNER'S DESIGNATED REPRESENTATIVE MAY DESIGNATE. THE NUMBER OF APPLICATIONS AND THE AMOUNT OF WATER SHALL BE BASED UPON FIELD AND WEATHER CONDITIONS.
10. ALL AREAS OF SOIL DISTURBANCE RESULTING FROM THIS PROJECT WHICH WILL NOT BE SUBJECT TO FURTHER EARTHWORK OR CONSTRUCTION ACTIVITIES SHALL BE PERMANENTLY SEEDED TO ESTABLISH GRASS, AND MULCHED WITH HAY OR STRAW WITHIN ONE WEEK OF FINAL DISTURBANCE. MULCH SHALL BE MAINTAINED UNTIL A SUITABLE VEGETATIVE COVER IS ESTABLISHED.
11. CONTRACTOR STAGING AREAS AND CONSTRUCTION ENTRANCE LOCATIONS SHALL BE COORDINATED WITH THE OWNER PRIOR TO START OF CONSTRUCTION. STABILIZED CONSTRUCTION ENTRANCE(S), AS SHOWN ON THE PLANS SHALL BE PROVIDED. ALL DISTURBED AREAS SHALL BE RESTORED.
12. ALL CATCH BASINS/DRAINAGE INLETS SHALL HAVE STONED INLET PROTECTION AROUND THEM AND GEOTEXTILE FABRIC OVER THE GRATE TO PREVENT SEDIMENTATION FROM ENTERING THE STORM SYSTEM.
13. TILL ALL COMPACTED SOILS LOCATED IN LAWN AREAS TO RESTORE THE ORIGINAL PROPERTIES OF THE SOIL PRIOR TO SEEDING.

LEGEND

EXISTING	PROPOSED	DESCRIPTION	EXISTING	PROPOSED	DESCRIPTION
		FLOODZONE			END SECTION
		ARCHAEOLOGICAL BUFFER			CATCH BASIN
		TREE REMOVAL			DRAIN BASIN
		UTILITY REMOVAL			INLET MANHOLE
		SAWCUT			STORM MANHOLE
		TREE PROTECTION			SANITARY MANHOLE
		CHAIN LINK FENCE			INLET DRYWELL
		BOARD-ON-BOARD FENCE			CLEAN OUT
		GUARD RAIL			DOWN SPOUT
		TREE/VEGETATION LIMIT			HYDRANT
BLDG	BLDG	BUILDING/STRUCTURE	WV		VALVE
		PROPERTY LINE			FLOW ARROW
		EASEMENTS			TELEPHONE LINE
		RIGHT-OF-WAY			OVERHEAD ELECTRIC
		RETAINING WALL			UNDERGROUND ELECTRIC
		BOLLARD			GAS LINE
FLAG POLE		FLAG POLE			SANITARY LINE
		SIGN			STORM LINE
		DECIDUOUS TREE			STORM UNDERDRAIN PIPE
		CONIFEROUS TREE			WATER FIRE SERVICE LINE
		TREE STUMP			WATER LINE
		OUTLET PROTECTION	510	510	MAJOR CONTOUR
		BIORETENTION	509	509	MINOR CONTOUR
		BOLLARD LIGHT POLE			℄ OF DRAINAGE SWALE
		LIGHT POLE SINGLE			EROSION FENCE
		LIGHT POLE DOUBLE			FLOW/SLOPE DIRECTION
		UTILITY POLE			SILT SOCK INLET PROTECTION
HH	HH	HANDHOLE			SILT FENCE INLET PROTECTION
		MANHOLE			CHECK DAM
					STABILIZED CONSTRUCTION ENTRANCE

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C003 TOTAL LAND HOLDINGS
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C102 EXISTING CONDITIONS AND DEMOLITION PLAN
C200 OVERALL SITE PLAN
C201 SITE PLAN
C202 SITE PLAN
C203 FIRE TRUCK AND SITE EMERGENCY ACCESS PLAN
C301 UTILITY PLAN
C302 UTILITY PLAN
C401 GRADING, EROSION, AND SEDIMENT CONTROL PLAN
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C508 CONSTRUCTION DETAILS
L501 LANDSCAPE DETAILS

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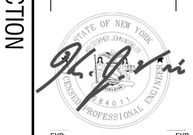

EXP: EXP:

CERTIFICATE OF AUTHORIZATION NUMBER:
PROFESSIONAL ENGINEERING: 0021272
LAND SURVEYING: 0021271
GEOLOGICAL: 0021659

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WEST SENECA APARTMENTS
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Revisions		

PROJECT NUMBER: 2241067
DRAWN BY: EMM / SCB
REVIEWED BY: SRV / DPB
ISSUED FOR: SITE PLAN APPROVAL
DATE: 4/20/2026
DRAWING NAME:

GENERAL NOTES, LEGEND, AND DRAWING INDEX

DRAWING NUMBER:

C001

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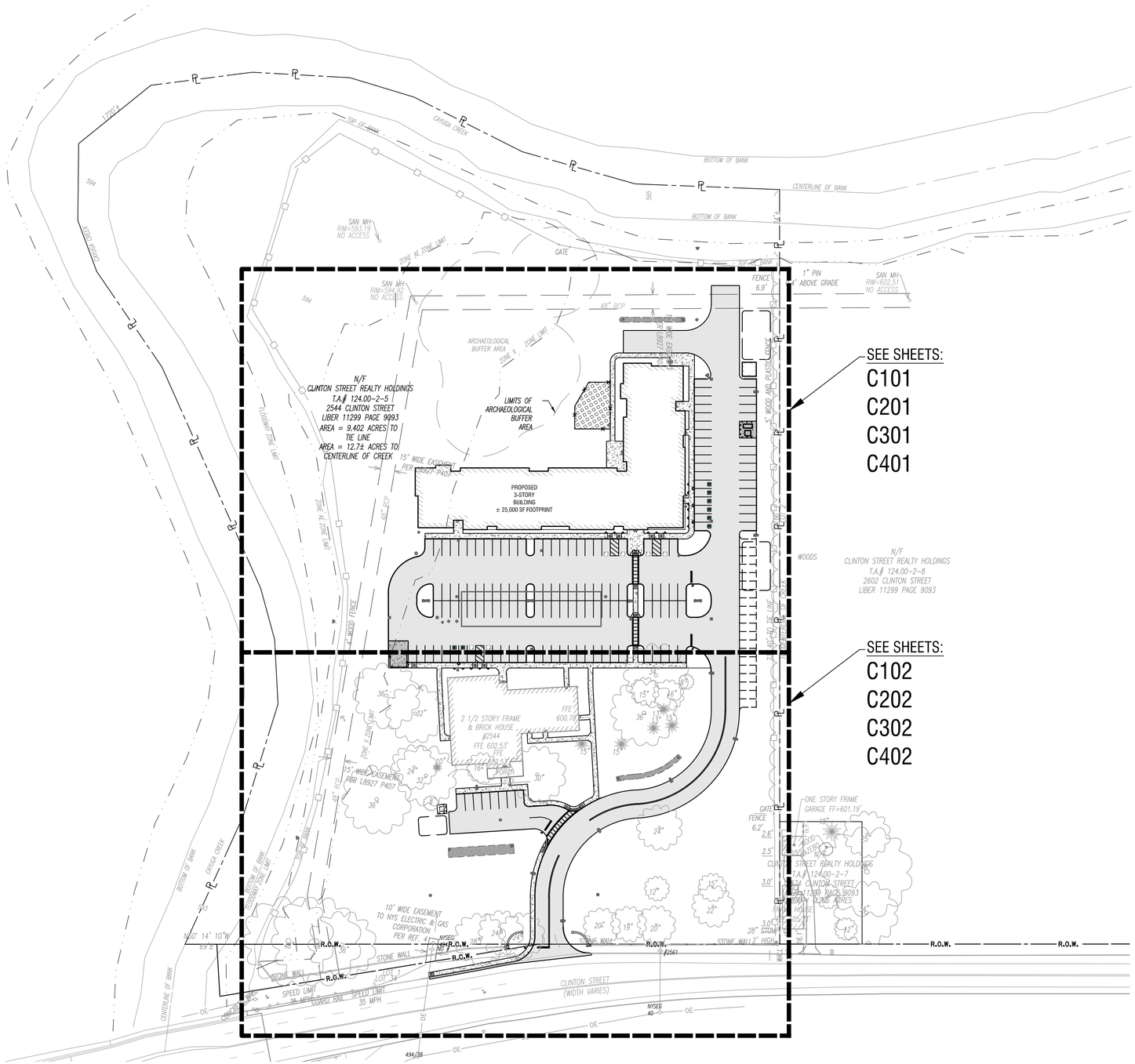

1 / C003 TOTAL LAND HOLDINGS

SCALE: 1" = 60'

0' 60' 120' 180'

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Revisions		

PROJECT NUMBER: 2241067

DRAWN BY: EMM / SCB

REVIEWED BY: SRV / DPB

ISSUED FOR: SITE PLAN APPROVAL

DATE: 4/20/2026

DRAWING NAME:

TOTAL LAND HOLDINGS

DRAWING NUMBER:

C003

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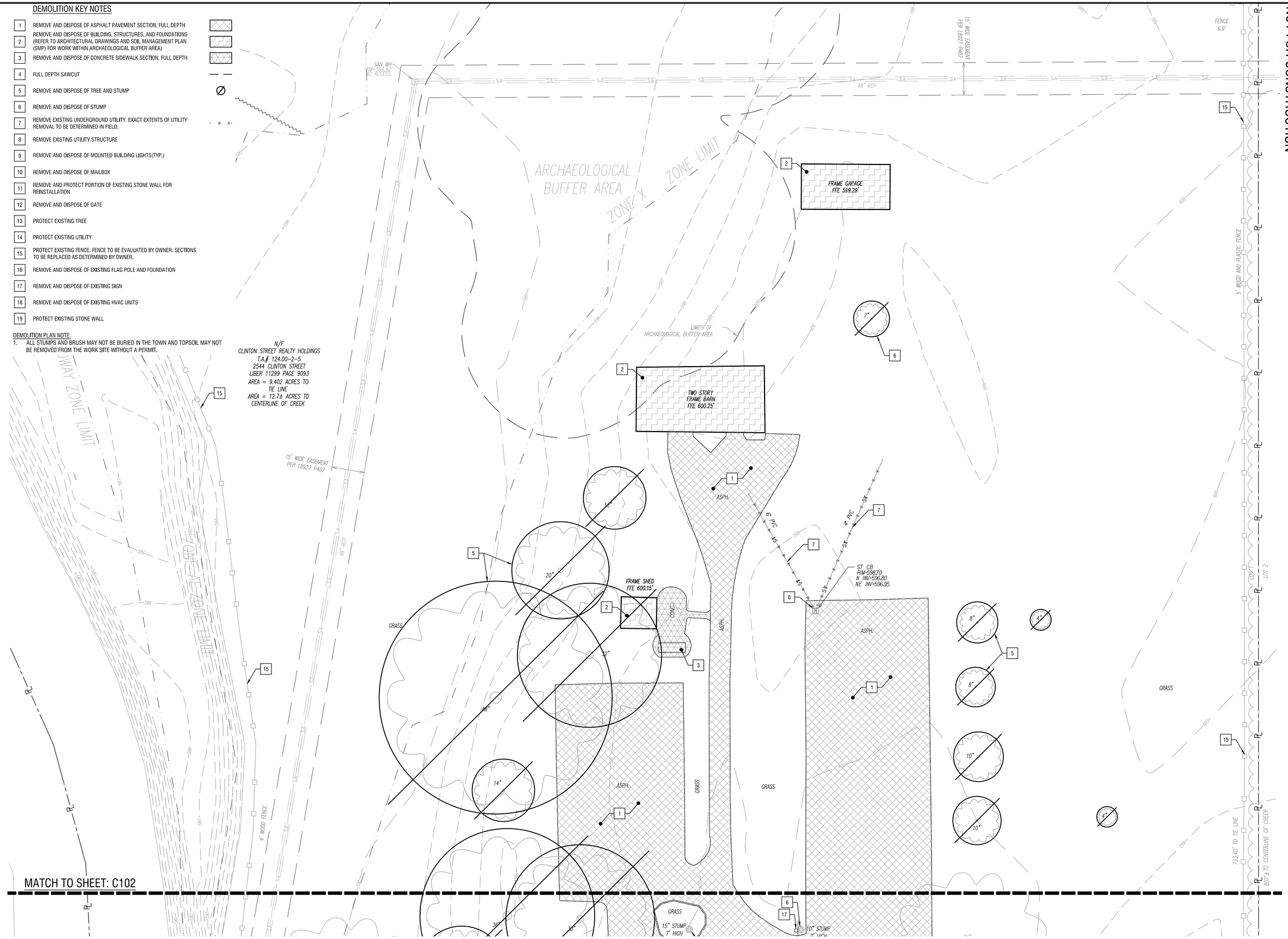
DEMOLITION KEY NOTES

1	REMOVE AND DISPOSE OF ASPHALT PAVEMENT SECTION, FULL DEPTH
2	REMOVE AND DISPOSE OF BUILDING, STRUCTURES, AND FOUNDATIONS (REFER TO ARCHITECTURAL DRAWINGS AND SOIL MANAGEMENT PLAN (SMP) FOR WORK WITHIN ARCHAEOLOGICAL BUFFER AREA)
3	REMOVE AND DISPOSE OF CONCRETE SIDEWALK SECTION, FULL DEPTH
4	FULL DEPTH SAWCUT
5	REMOVE AND DISPOSE OF TREE AND STUMP
6	REMOVE AND DISPOSE OF STUMP
7	REMOVE EXISTING UNDERGROUND UTILITY. EXACT EXTENTS OF UTILITY REMOVAL TO BE DETERMINED IN FIELD.
8	REMOVE EXISTING UTILITY STRUCTURE
9	REMOVE AND DISPOSE OF MOUNTED BUILDING LIGHTS(TYP.)
10	REMOVE AND DISPOSE OF MAILBOX
11	REMOVE AND PROTECT PORTION OF EXISTING STONE WALL FOR REINSTALLATION
12	REMOVE AND DISPOSE OF GATE
13	PROTECT EXISTING TREE
14	PROTECT EXISTING UTILITY
15	PROTECT EXISTING FENCE. FENCE TO BE EVALUATED BY OWNER. SECTIONS TO BE REPLACED AS DETERMINED BY OWNER.
16	REMOVE AND DISPOSE OF EXISTING FLAG POLE AND FOUNDATION
17	REMOVE AND DISPOSE OF EXISTING SIGN
18	REMOVE AND DISPOSE OF EXISTING HVAC UNITS
19	PROTECT EXISTING STONE WALL

DEMOLITION PLAN NOTE:

1. ALL STUMPS AND BRUSH MAY NOT BE BURIED IN THE TOWN AND TOPSOIL MAY NOT BE REMOVED FROM THE WORK SITE WITHOUT A PERMIT.



1 C101 EXISTING CONDITIONS AND DEMOLITION PLAN

SCALE: 1" = 20'

0' 20' 40' 60'

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PROJECT NUMBER: 2241067

DRAWN BY: EMM / SCB

REVIEWED BY: SRV / DPB

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DATE: 4/20/2026

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EXISTING CONDITIONS AND DEMOLITION PLAN

DRAWING NUMBER:

C101

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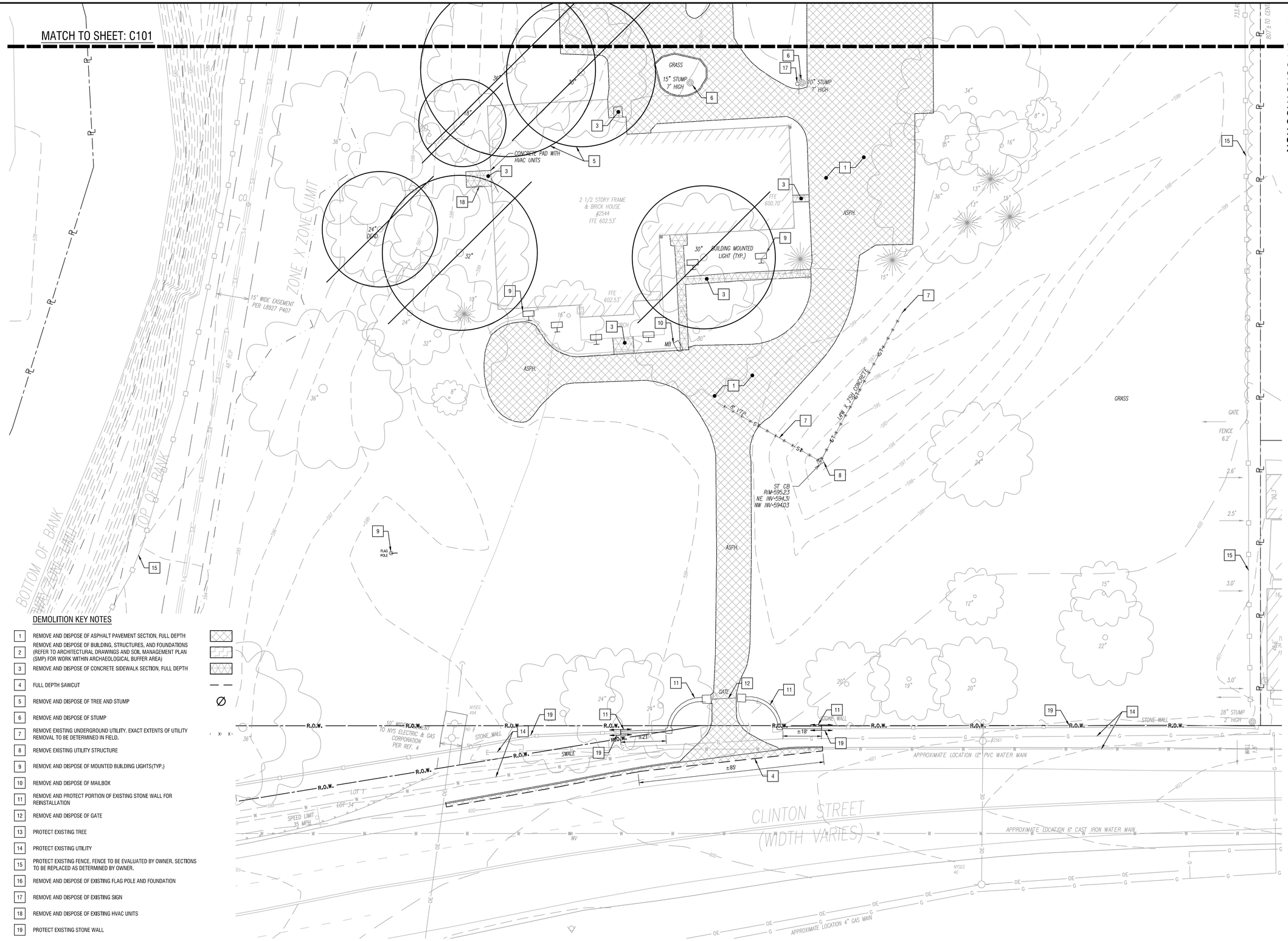

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DEMOLITION PLAN NOTE:

1. ALL STUMPS AND BRUSH MAY NOT BE BURIED IN THE TOWN AND TOPSOIL MAY NOT BE REMOVED FROM THE WORK SITE WITHOUT A PERMIT.

1 / C102 EXISTING CONDITIONS AND DEMOLITION PLAN

SCALE: 1" = 20'

0' 20' 40' 60'

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PROJECT NUMBER: 2241067

DRAWN BY: EMM / SCB

REVIEWED BY: SRV / DPB

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DATE: 4/20/2026

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EXISTING CONDITIONS AND DEMOLITION PLAN

DRAWING NUMBER:

C102

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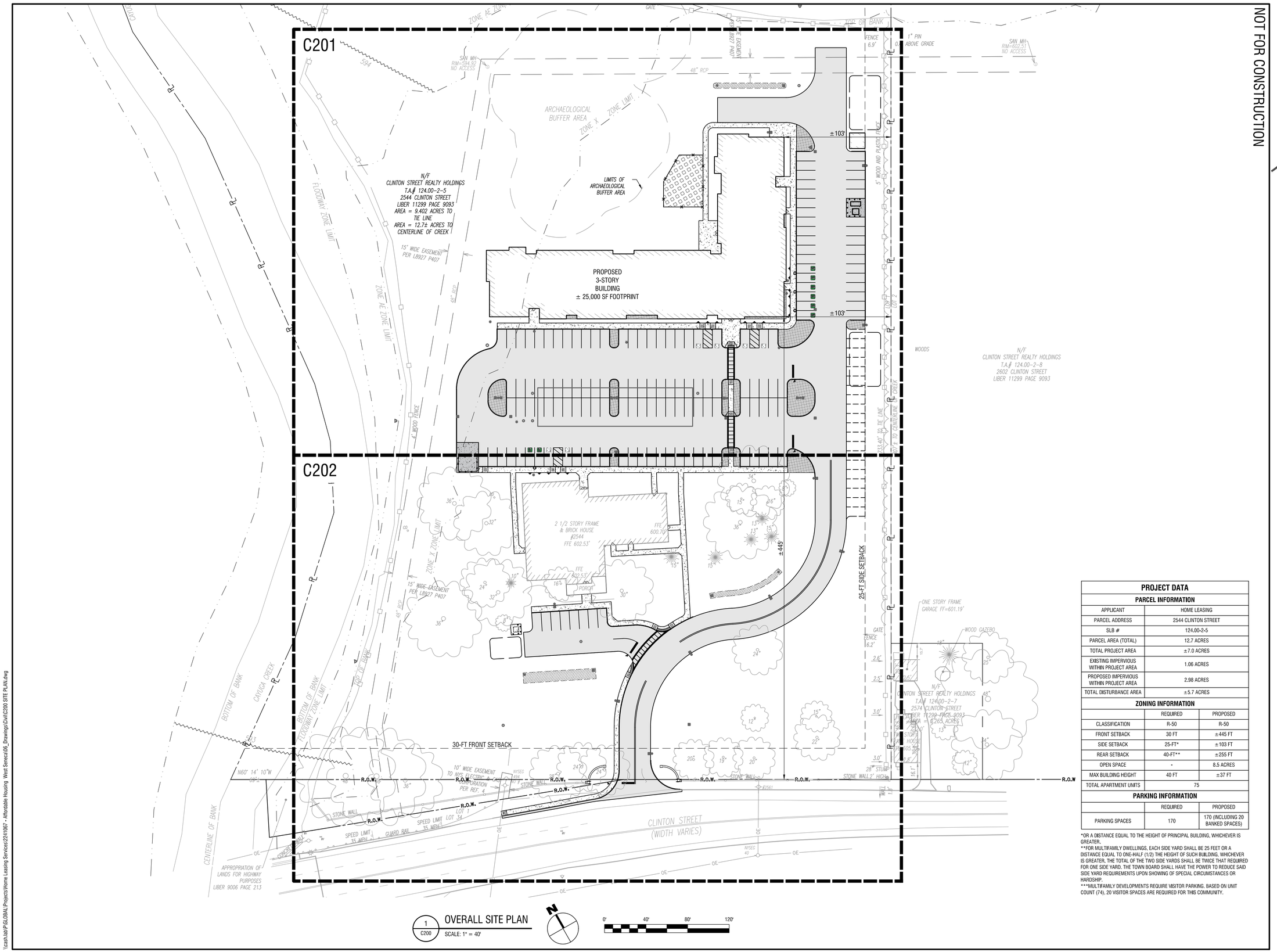

1 C200 OVERALL SITE PLAN

SCALE: 1" = 40'

0' 40' 80' 120'

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LAND SURVEYING: 0021271
GEOLOGICAL: 0021659

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HOME LEASING
75 S CLINTON AVE SUITE 700,
ROCHESTER, NEW YORK 14604

HOME LEASING
DEVELOPMENT | CONSTRUCTION | MANAGEMENT

PROJECT DATA

PARCEL INFORMATION	
APPLICANT	HOME LEASING
PARCEL ADDRESS	2544 CLINTON STREET
SLB #	124.00-2-5
PARCEL AREA (TOTAL)	12.7 ACRES
TOTAL PROJECT AREA	±7.0 ACRES
EXISTING IMPERVIOUS WITHIN PROJECT AREA	1.06 ACRES
PROPOSED IMPERVIOUS WITHIN PROJECT AREA	2.98 ACRES
TOTAL DISTURBANCE AREA	±5.7 ACRES

ZONING INFORMATION	REQUIRED	PROPOSED
CLASSIFICATION	R-50	R-50
FRONT SETBACK	30 FT	±445 FT
SIDE SETBACK	25-FT*	±103 FT
REAR SETBACK	40-FT**	±255 FT
OPEN SPACE	-	8.5 ACRES
MAX BUILDING HEIGHT	40 FT	±37 FT
TOTAL APARTMENT UNITS	75	

PARKING INFORMATION	REQUIRED	PROPOSED
PARKING SPACES	170	170 (INCLUDING 20 BANKED SPACES)

*OR A DISTANCE EQUAL TO THE HEIGHT OF PRINCIPAL BUILDING, WHICHEVER IS GREATER.
**FOR MULTIFAMILY DWELLINGS, EACH SIDE YARD SHALL BE 25 FEET OR A DISTANCE EQUAL TO ONE-HALF (1/2) THE HEIGHT OF SUCH BUILDING, WHICHEVER IS GREATER. THE TOTAL OF THE TWO SIDE YARDS SHALL BE TWICE THAT REQUIRED FOR ONE SIDE YARD. THE TOWN BOARD SHALL HAVE THE POWER TO REDUCE SAID SIDE YARD REQUIREMENTS UPON SHOWING OF SPECIAL CIRCUMSTANCES OR HARDSHIP.
***MULTIFAMILY DEVELOPMENTS REQUIRE VISITOR PARKING. BASED ON UNIT COUNT (74), 20 VISITOR SPACES ARE REQUIRED FOR THIS COMMUNITY.

WEST SENECA APARTMENTS
2544 CLINTON ST,
WEST SENECA, NY 14224

NO:	DATE:	DESCRIPTION:
Revisions		

PROJECT NUMBER: 2241067

DRAWN BY: EMM / SCB

REVIEWED BY: SRV / DPB

ISSUED FOR: SITE PLAN APPROVAL

DATE: 4/20/2026

DRAWING NAME:

OVERALL SITE PLAN

DRAWING NUMBER:

C200

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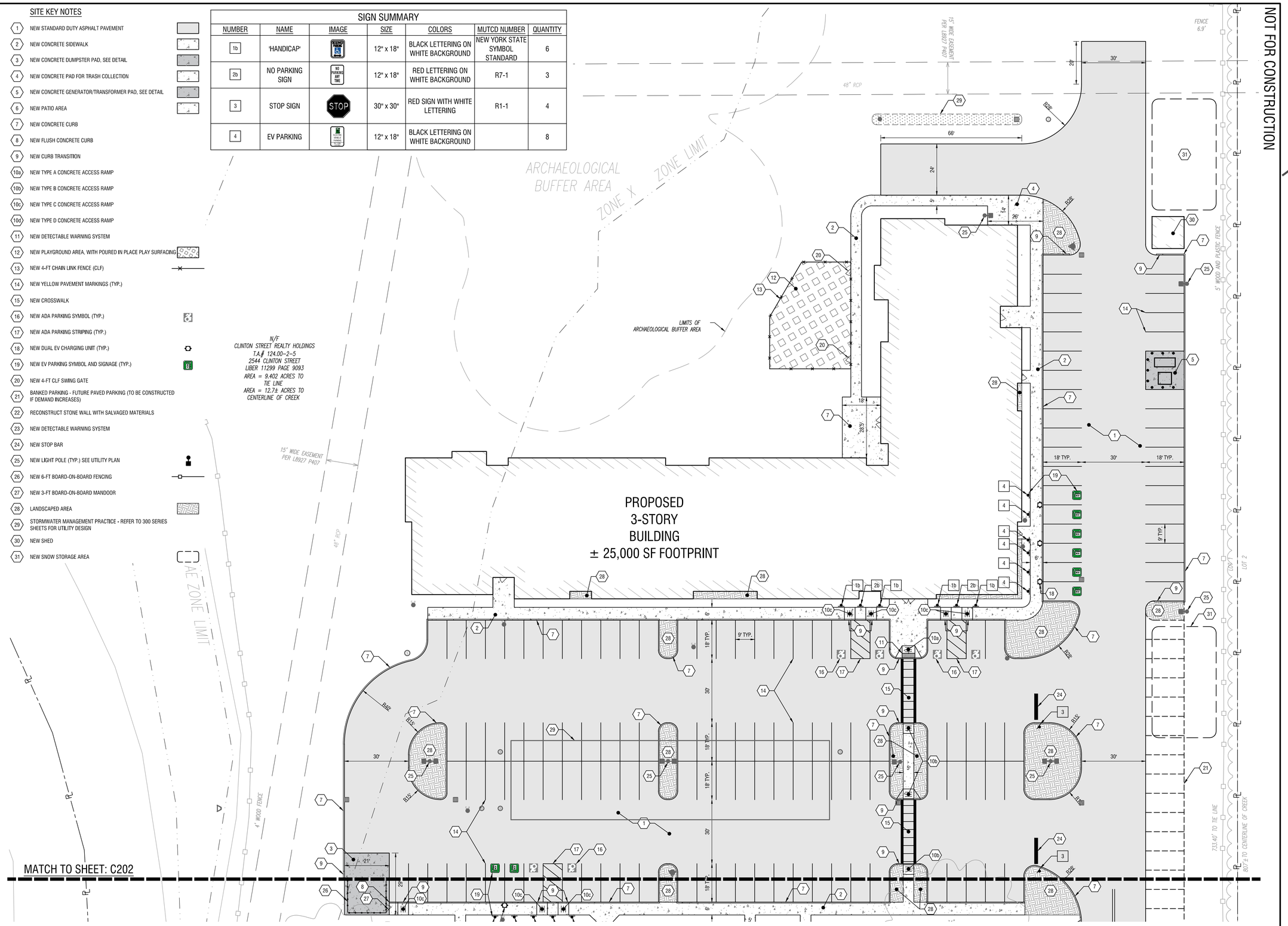
SITE KEY NOTES

1. NEW STANDARD DUTY ASPHALT PAVEMENT
2. NEW CONCRETE SIDEWALK
3. NEW CONCRETE DUMPSTER PAD, SEE DETAIL
4. NEW CONCRETE PAD FOR TRASH COLLECTION
5. NEW CONCRETE GENERATOR/TRANSFORMER PAD, SEE DETAIL
6. NEW PATIO AREA
7. NEW CONCRETE CURB
8. NEW FLUSH CONCRETE CURB
9. NEW CURB TRANSITION
10a. NEW TYPE A CONCRETE ACCESS RAMP
10b. NEW TYPE B CONCRETE ACCESS RAMP
10c. NEW TYPE C CONCRETE ACCESS RAMP
10d. NEW TYPE D CONCRETE ACCESS RAMP
11. NEW DETECTABLE WARNING SYSTEM
12. NEW PLAYGROUND AREA, WITH POURED IN PLACE PLAY SURFACING
13. NEW 4-FT CHAIN LINK FENCE (CLF)
14. NEW YELLOW PAVEMENT MARKINGS (TYP.)
15. NEW CROSSWALK
16. NEW ADA PARKING SYMBOL (TYP.)
17. NEW ADA PARKING STRIPING (TYP.)
18. NEW DUAL EV CHARGING UNIT (TYP.)
19. NEW EV PARKING SYMBOL AND SIGNAGE (TYP.)
20. NEW 4-FT CLF SWING GATE
21. BANKED PARKING - FUTURE PAVED PARKING (TO BE CONSTRUCTED IF DEMAND INCREASES)
22. RECONSTRUCT STONE WALL WITH SALVAGED MATERIALS
23. NEW DETECTABLE WARNING SYSTEM
24. NEW STOP BAR
25. NEW LIGHT POLE (TYP.) SEE UTILITY PLAN
26. NEW 6-FT BOARD-ON-BOARD FENCING
27. NEW 3-FT BOARD-ON-BOARD MANDOOR
28. LANDSCAPED AREA
29. STORMWATER MANAGEMENT PRACTICE - REFER TO 300 SERIES SHEETS FOR UTILITY DESIGN
30. NEW SHED
31. NEW SNOW STORAGE AREA

SIGN SUMMARY

NUMBER	NAME	IMAGE	SIZE	COLORS	MUTCD NUMBER	QUANTITY
1b	'HANDICAP'		12" x 18"	BLACK LETTERING ON WHITE BACKGROUND	NEW YORK STATE SYMBOL STANDARD	6
2b	NO PARKING SIGN		12" x 18"	RED LETTERING ON WHITE BACKGROUND	R7-1	3
3	STOP SIGN		30" x 30"	RED SIGN WITH WHITE LETTERING	R1-1	4
4	EV PARKING		12" x 18"	BLACK LETTERING ON WHITE BACKGROUND		8



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EXP: EXP:

CERTIFICATE OF AUTHORIZATION NUMBER:
PROFESSIONAL ENGINEERING: 0021272
LAND SURVEYING: 0021271
GEOLOGICAL: 0021659

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WEST SENECA APARTMENTS
2544 CLINTON ST,
WEST SENECA, NY 14224

NO:	DATE:	DESCRIPTION:
Revisions		

PROJECT NUMBER: 2241067
DRAWN BY: EMM / SCB
REVIEWED BY: SRV / DPB
ISSUED FOR: SITE PLAN APPROVAL
DATE: 4/20/2026
DRAWING NAME: SITE PLAN
DRAWING NUMBER: C201

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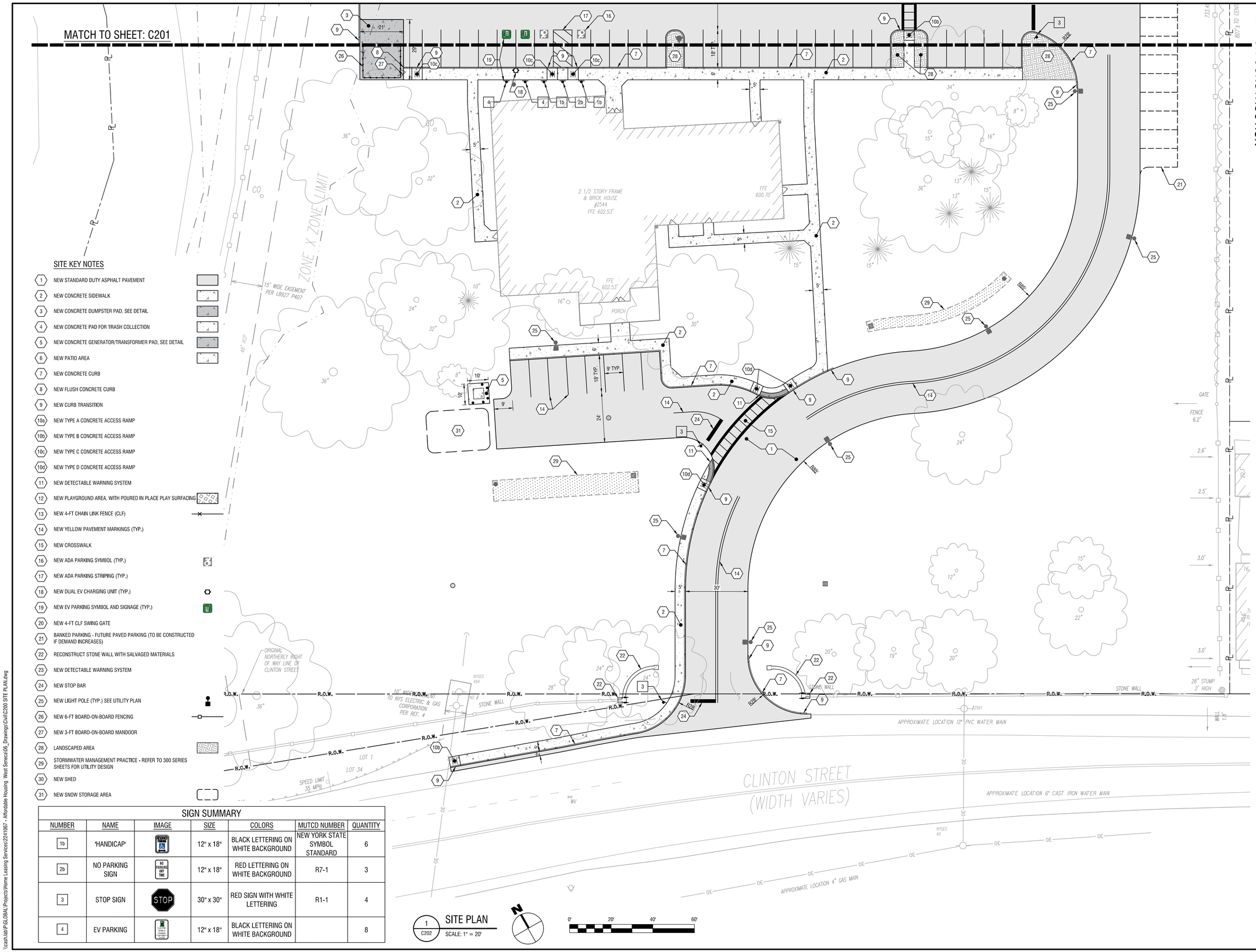

SITE KEY NOTES

1. NEW STANDARD DUTY ASPHALT PAVEMENT
2. NEW CONCRETE SIDEWALK
3. NEW CONCRETE DUMPSTER PAD, SEE DETAIL
4. NEW CONCRETE PAD FOR TRASH COLLECTION
5. NEW CONCRETE GENERATOR/TRANSFORMER PAD, SEE DETAIL
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28. LANDSCAPED AREA
29. STORMWATER MANAGEMENT PRACTICE - REFER TO 300 SERIES SHEETS FOR UTILITY DESIGN
30. NEW SHED
31. NEW SNOW STORAGE AREA

SIGN SUMMARY

NUMBER	NAME	IMAGE	SIZE	COLORS	MUTCD NUMBER	QUANTITY
1b	'HANDICAP'	PARKING ONLY	12" x 18"	BLACK LETTERING ON WHITE BACKGROUND	NEW YORK STATE SYMBOL STANDARD	6
2b	NO PARKING SIGN	NO PARKING ANY TIME	12" x 18"	RED LETTERING ON WHITE BACKGROUND	R7-1	3
3	STOP SIGN	STOP	30" x 30"	RED SIGN WITH WHITE LETTERING	R1-1	4
4	EV PARKING	EV PARKING	12" x 18"	BLACK LETTERING ON WHITE BACKGROUND		8

1 / C202 SITE PLAN
SCALE: 1" = 20'

0' 20' 40' 60'

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EXP: EXP:

CERTIFICATE OF AUTHORIZATION NUMBER:
PROFESSIONAL ENGINEERING: 0021272
LAND SURVEYING: 0021271
GEOLOGICAL: 0021659

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WEST SENECA APARTMENTS
2544 CLINTON ST,
WEST SENECA, NY 14224

NO:	DATE:	DESCRIPTION:
Revisions		

PROJECT NUMBER: 2241067

DRAWN BY: EMM / SCB

REVIEWED BY: SRV / DPB

ISSUED FOR: SITE PLAN APPROVAL

DATE: 4/20/2026

DRAWING NAME:

SITE PLAN

DRAWING NUMBER:

C202

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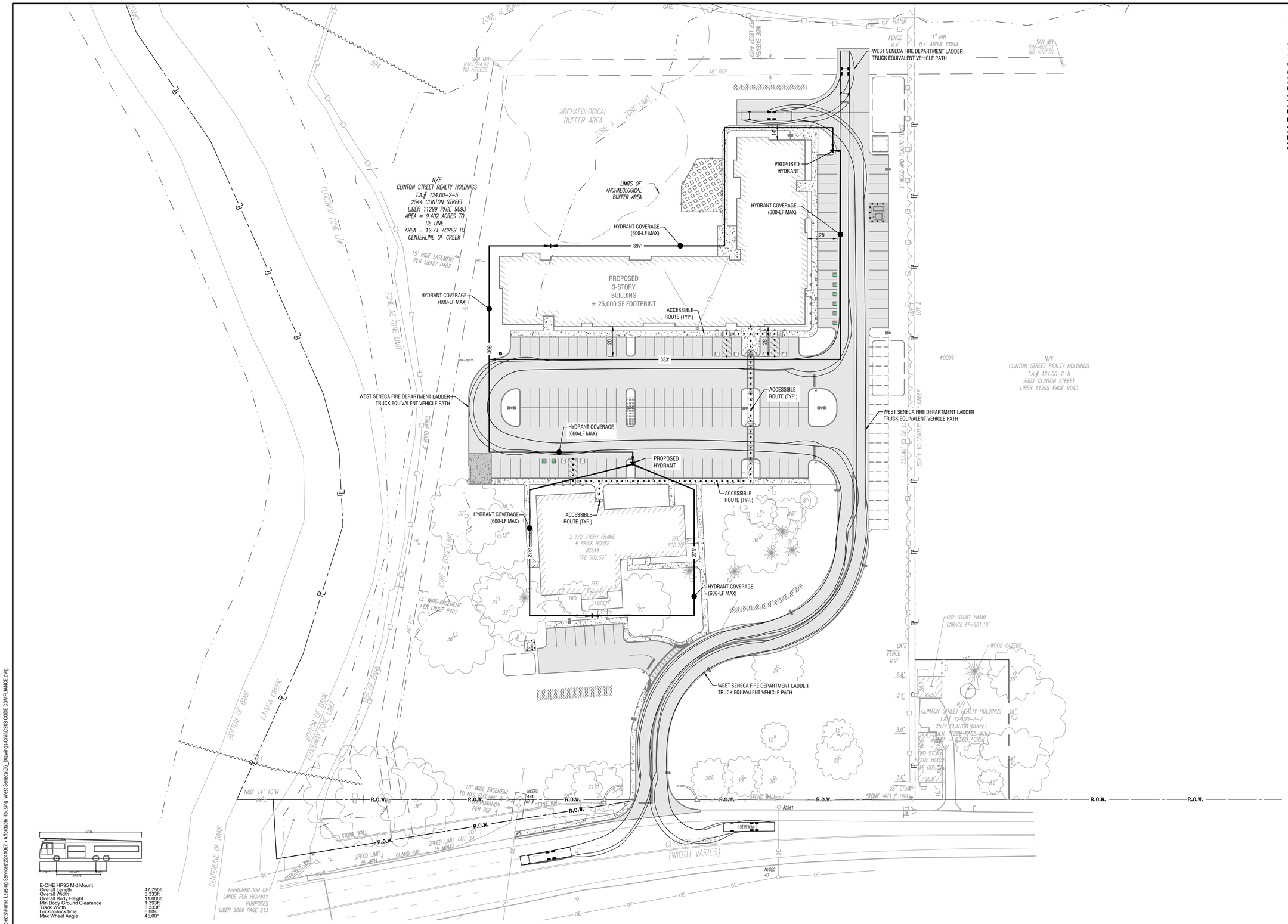

1 C203 FIRE TRUCK AND SITE EMERGENCY ACCESS PLAN

SCALE: 1" = 40'

0' 40' 80' 120'

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2544 CLINTON ST,
WEST SENECA, NY 14224

NO:	DATE:	DESCRIPTION:
Revisions		

PROJECT NUMBER: 2241067

DRAWN BY: EMM / SCB

REVIEWED BY: SRV / DPB

ISSUED FOR: SITE PLAN APPROVAL

DATE: 4/20/2026

DRAWING NAME:

FIRE TRUCK AND SITE EMERGENCY ACCESS PLAN

DRAWING NUMBER:

C203

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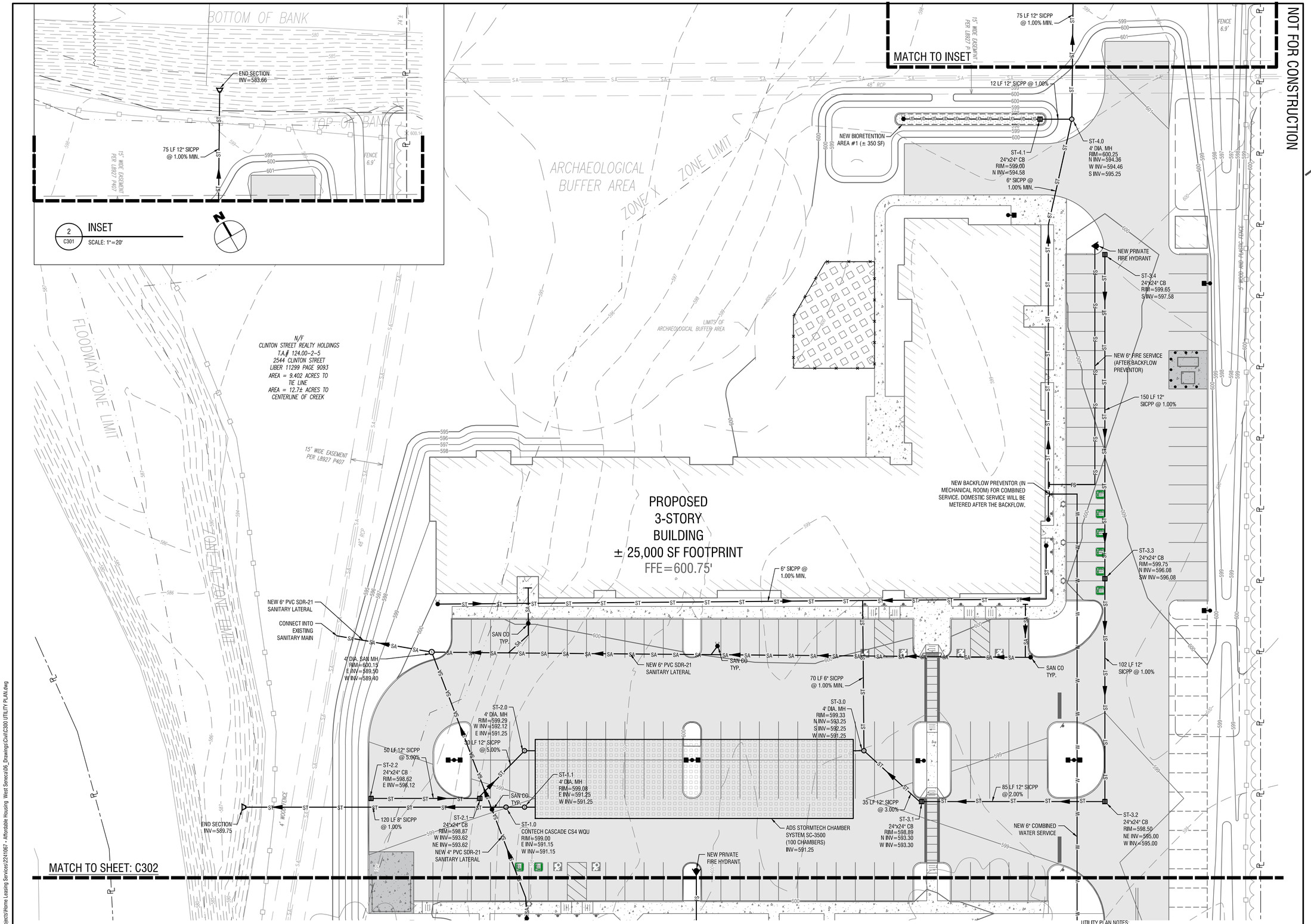

UTILITY PLAN NOTES:

1. A MINIMUM OF 10 FEET OF HORIZONTAL AND 18" OF VERTICAL SEPARATION MUST BE MAINTAINED BETWEEN ALL SANITARY AND WATER SERVICES
2. THE ERIE COUNTY WATER AUTHORITY IS TO BE NOTIFIED A MINIMUM OF 48-HOURS PRIOR TO STARTING THE CONNECTION TO THE NEW WATER SERVICE
3. SELECT BACKFILL IS REQUIRED FOR ALL UTILITIES (GAS, WATER, STORM, SANITARY) THAT CROSS THROUGH ANY PAVEMENT AREA

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WEST SENECA APARTMENTS
2544 CLINTON ST,
WEST SENECA, NY 14224

NO:	DATE:	DESCRIPTION:
Revisions		

PROJECT NUMBER: 2241067

DRAWN BY: EMM / SCB

REVIEWED BY: SRV / DPB

ISSUED FOR: SITE PLAN APPROVAL

DATE: 4/20/2026

DRAWING NAME:

UTILITY PLAN

DRAWING NUMBER:

C301

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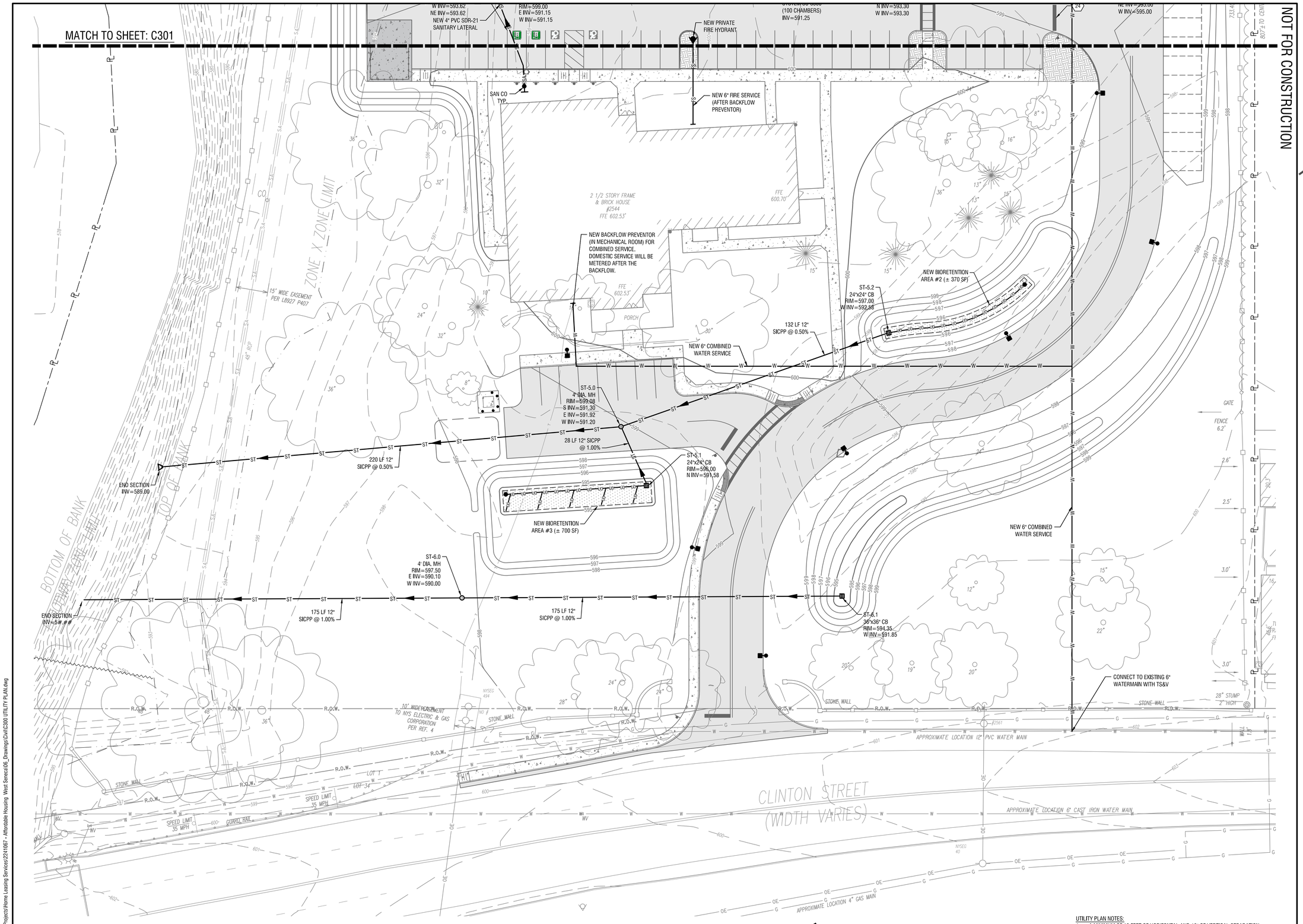

1 C302 **UTILITY PLAN**

SCALE: 1" = 20'

0' 20' 40' 60'

UTILITY PLAN NOTES:

1. A MINIMUM OF 10 FEET OF HORIZONTAL AND 18" OF VERTICAL SEPARATION MUST BE MAINTAINED BETWEEN ALL SANITARY AND WATER SERVICES
2. THE ERIE COUNTY WATER AUTHORITY IS TO BE NOTIFIED A MINIMUM OF 48-HOURS PRIOR TO STARTING THE CONNECTION TO THE NEW WATER SERVICE
3. SELECT BACKFILL IS REQUIRED FOR ALL UTILITIES (GAS, WATER, STORM, SANITARY) THAT CROSS THROUGH ANY PAVEMENT AREA

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EXP: EXP:

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LAND SURVEYING: 0021271
GEOLOGICAL: 0021659

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WEST SENECA APARTMENTS
2544 CLINTON ST,
WEST SENECA, NY 14224

NO:	DATE:	DESCRIPTION:
Revisions		

PROJECT NUMBER: 2241067

DRAWN BY: EMM / SCB

REVIEWED BY: SRV / DPB

ISSUED FOR: SITE PLAN APPROVAL

DATE: 4/20/2026

DRAWING NAME:

UTILITY PLAN

DRAWING NUMBER:

C302

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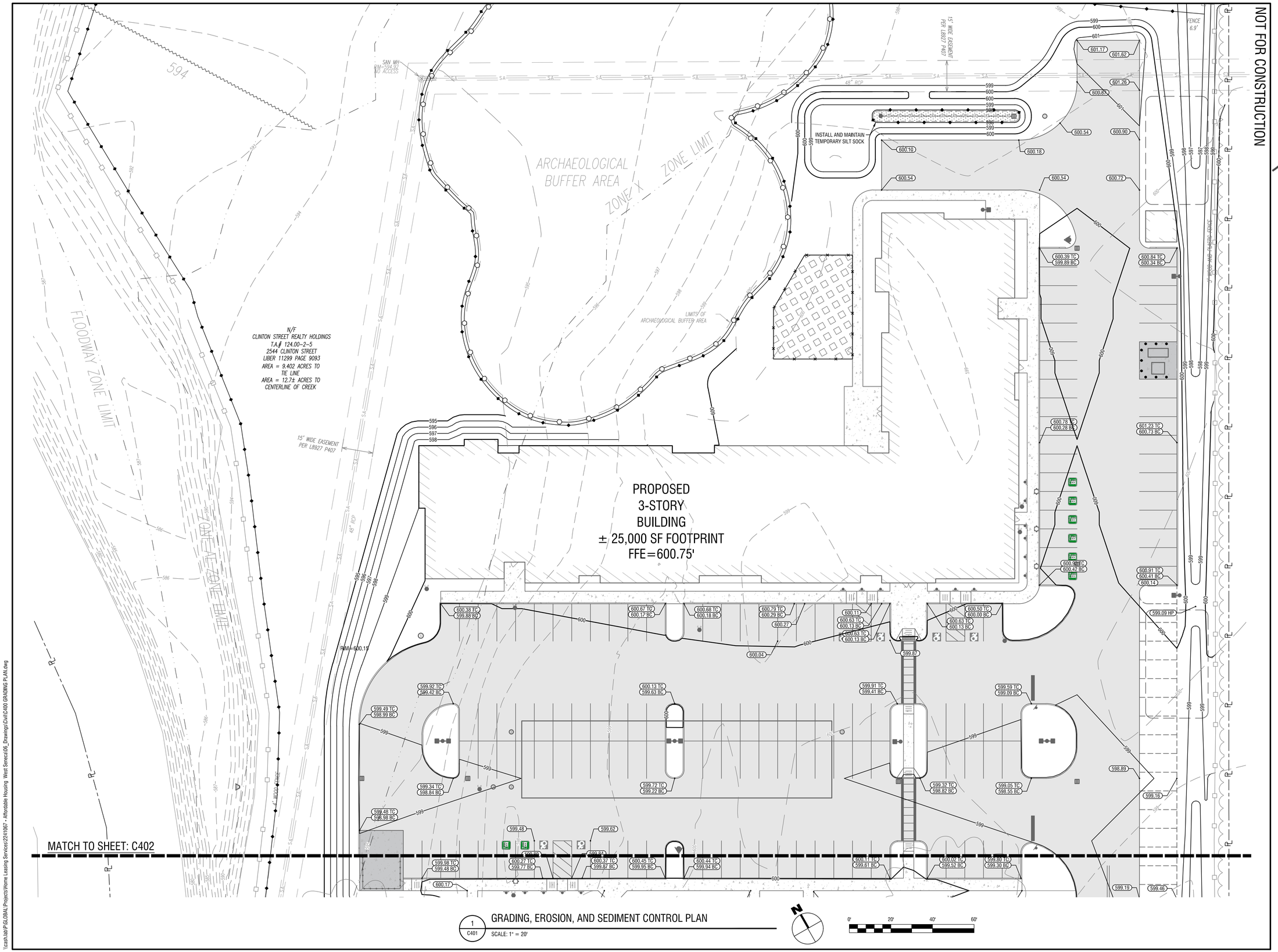

1 C401 GRADING, EROSION, AND SEDIMENT CONTROL PLAN

SCALE: 1" = 20'

0' 20' 40' 60'

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EXP: EXP:

CERTIFICATE OF AUTHORIZATION NUMBER:
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LAND SURVEYING: 0021271
GEOLOGICAL: 0021659

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WEST SENECA APARTMENTS
2544 CLINTON ST,
WEST SENECA, NY 14224

NO:	DATE:	DESCRIPTION:
Revisions		

PROJECT NUMBER: 2241067

DRAWN BY: EMM / SCB

REVIEWED BY: SRV / DPB

ISSUED FOR: SITE PLAN APPROVAL

DATE: 4/20/2026

DRAWING NAME:

GRADING, EROSION, AND SEDIMENT CONTROL PLAN

DRAWING NUMBER:

C401

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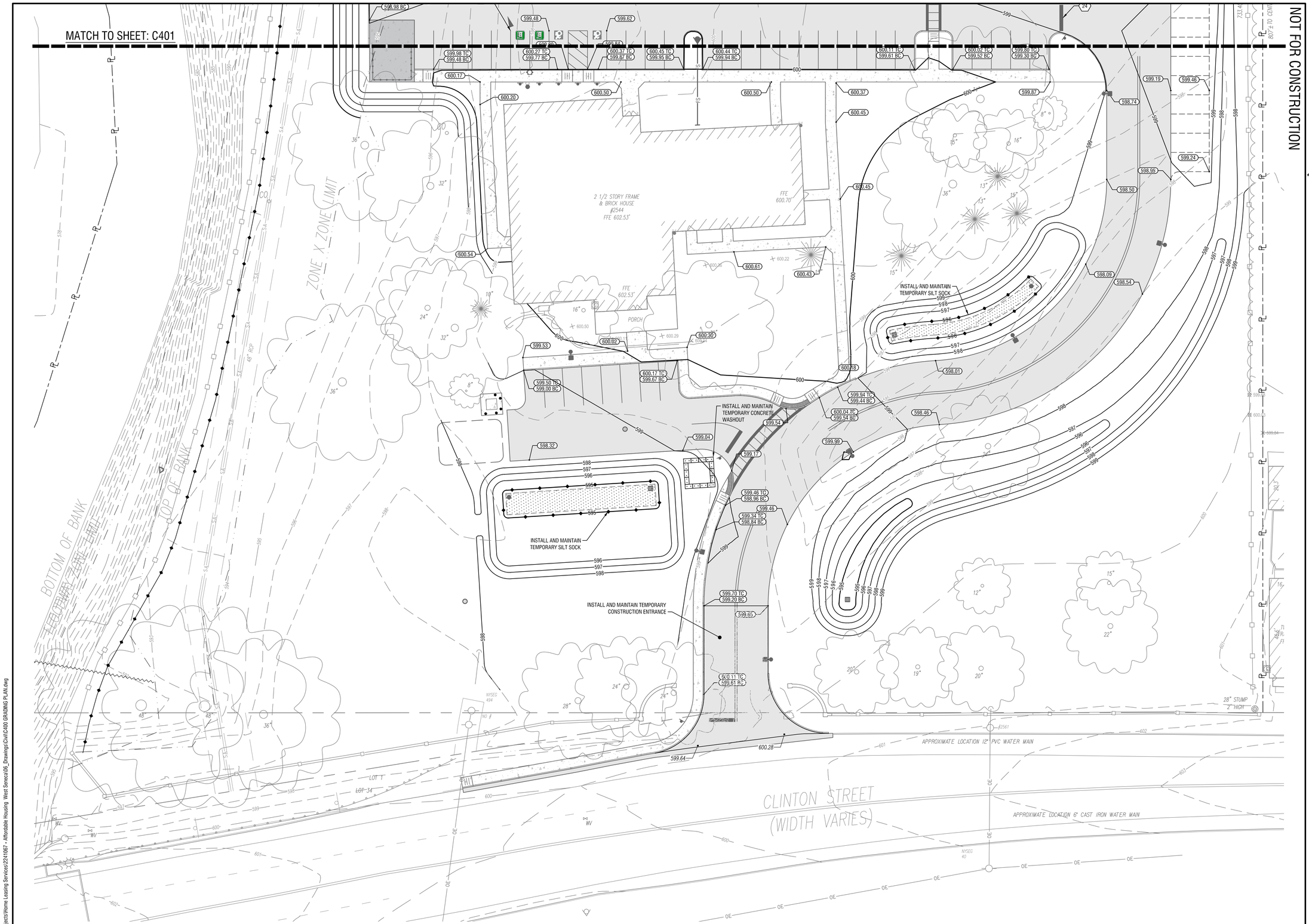

1
C402

GRADING, EROSION, AND SEDIMENT CONTROL PLAN

SCALE: 1" = 20'

0' 20' 40' 60'

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EXP: EXP:

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2544 CLINTON ST,
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NO:	DATE:	DESCRIPTION:
Revisions		

PROJECT NUMBER: 2241067

DRAWN BY: EMM / SCB

REVIEWED BY: SRV / DPB

ISSUED FOR: SITE PLAN APPROVAL

DATE: 4/20/2026

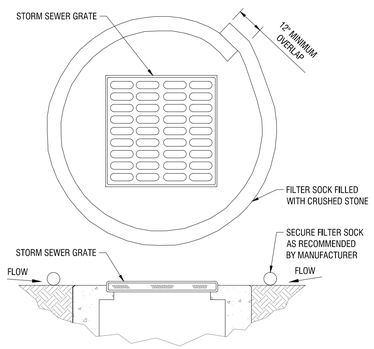
DRAWING NAME:

GRADING, EROSION, AND SEDIMENT CONTROL PLAN

DRAWING NUMBER:

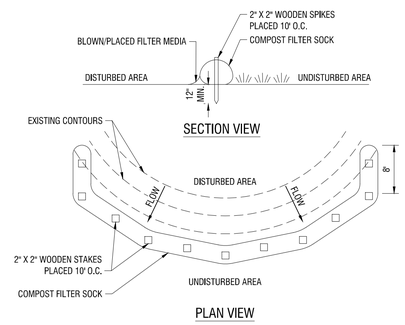
C402

NOT FOR CONSTRUCTION



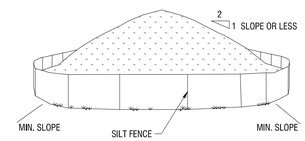
6 C501 INLET PROTECTION IN PAVEMENT

N.T.S.



5 C501 COMPOST FILTER SOCK

NYS DEC DETAIL: COMPOST FILTER SOCK

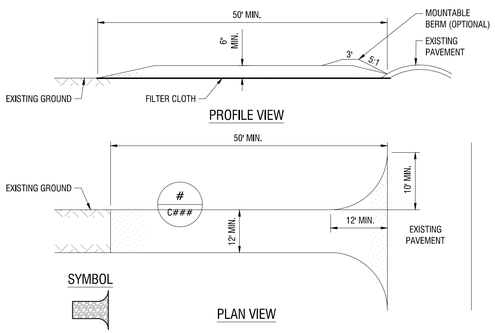


NOTES:

1. AREA CHOSEN FOR STOCKPILING OPERATIONS SHALL BE DRY AND STABLE.
2. MAXIMUM SLOPE OF STOCKPILE SHALL BE 1V:2H.
3. UPON COMPLETION OF SOIL STOCKPILING, EACH PILE SHALL BE SURROUNDED WITH SILT FENCING, THEN STABILIZED WITH VEGETATION OR COVERED.
4. SEE SPECIFICATIONS AND DETAIL FOR INSTALLATION OF SILT FENCE.

4 C501 TEMPORARY SOIL STOCKPILE

N.T.S.

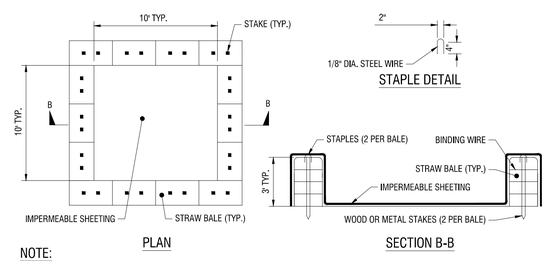


CONSTRUCTION SPECIFICATIONS:

1. STONE SIZE - USE 1-4 INCH STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
2. LENGTH - NOT LESS THAN 50 FEET.
3. THICKNESS - NOT LESS THAN SIX (6) INCHES.
4. WIDTH - TWENTY-FOUR (24) FOOT IF SINGLE ENTRANCE TO SITE.
5. GEOTEXTILE - WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
6. SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ACCESS SHALL BE PIPED BENEATH THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
7. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT OF WAY. ALL SEDIMENT SPILLED, DROPPED, WASHED, OR TRACKED ONTO PUBLIC RIGHTS OF WAY MUST BE REMOVED IMMEDIATELY.
8. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN EVENT.

3 C501 STABILIZED CONSTRUCTION ENTRANCE

N.YS DEC DETAIL: STABILIZED CONSTRUCTION ACCESS



NOTE:

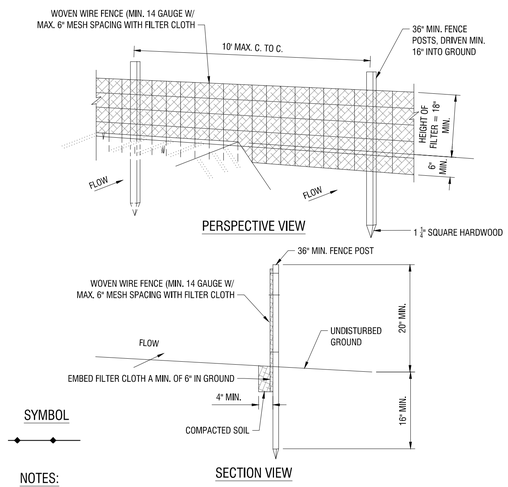
1. CAN BE TWO STACKED BALES OR PARTIALLY EXCAVATED TO REACH 3 FT DEPTH

CONSTRUCTION SPECIFICATIONS

1. LOCATE WASHOUT STRUCTURE A MINIMUM OF 100 FEET AWAY FROM OPEN CHANNELS, STORM DRAIN INLETS, SENSITIVE AREAS, WETLANDS, BUFFERS AND WATER COURSES AND AWAY FROM CONSTRUCTION TRAFFIC.
2. SIZE WASHOUT STRUCTURE FOR VOLUME NECESSARY TO CONTAIN WASH WATER AND SOLIDS AND MAINTAIN AT LEAST 4 INCHES OF FREEBOARD. TYPICAL DIMENSIONS ARE 10 FEET X 10 FEET X 3 FEET DEEP.
3. PREPARE SOIL BASE FREE OF ROCKS OR OTHER DEBRIS THAT MAY CAUSE TEARS OR HOLES IN THE LINER. FOR LINER, USE 10 MIL OR THICKER UV RESISTANT, IMPERMEABLE SHEETING, FREE OF HOLES AND TEARS OR OTHER DEFECTS THAT COMPROMISE IMPERMEABILITY OF THE MATERIAL.
4. PROVIDE A SIGN FOR THE WASHOUT IN CLOSE PROXIMITY TO THE FACILITY.
5. KEEP CONCRETE WASHOUT STRUCTURE WATER TIGHT. REPLACE IMPERMEABLE LINER IF DAMAGED (E.G., RIPPED OR PUNCTURED). EMPTY OR REPLACE WASHOUT STRUCTURE THAT IS 75 PERCENT FULL, AND DISPOSE OF ACCUMULATED MATERIAL PROPERLY. DO NOT REUSE PLASTIC LINER. WET-VACUUM STORED LIQUIDS THAT HAVE NOT EVAPORATED AND DISPOSE OF IN AN APPROVED MANNER. PRIOR TO FORECASTED RAINSTORMS, REMOVE LIQUIDS OR COVER STRUCTURE TO PREVENT OVERFLOWS. REMOVE HARDENED SOLIDS, WHOLE OR BROKEN UP, FOR DISPOSAL OR RECYCLING. MAINTAIN RUNOFF DIVERSION AROUND EXCAVATED WASHOUT STRUCTURE UNTIL STRUCTURE IS REMOVED.

2 C501 CONCRETE WASHOUT AREA WITH STRAW BALES

N.T.S.



NOTES:

1. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES. POSTS SHALL BE STEEL EITHER "T" OR "U" TYPE OR HARDWOOD.
2. FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION. FENCE SHALL BE WOVEN WIRE, 6" MAXIMUM MESH OPENING.
3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVER-LAPPED BY SIX INCHES AND FOLDED. FILTER CLOTH SHALL BE EITHER FILTER X, MIRAFI 100X, STABLINKA 140N, OR APPROVED EQUAL.
4. PREFABRICATED UNITS SHALL BE GEOFAB, ENVIROFENCE, OR APPROVED EQUAL.
5. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.

1 C501 SILT FENCE

NYS DEC DETAIL: SILT FENCE

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EXP: EXP:

CERTIFICATE OF AUTHORIZATION NUMBER:
PROFESSIONAL ENGINEERING: 0021272
LAND SURVEYING: 0021271
GEOLOGICAL: 0021659

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ROCHESTER, NEW YORK 14604

HOME LEASING
DEVELOPMENT | CONSTRUCTION | MANAGEMENT

WEST SENECA APARTMENTS
2544 CLINTON ST,
WEST SENECA, NY 14224

NO:	DATE:	DESCRIPTION:
Revisions		

PROJECT NUMBER: 2241067

DRAWN BY: EMM / SCB

REVIEWED BY: SRV / DPB

ISSUED FOR: SITE PLAN APPROVAL

DATE: 4/20/2026

DRAWING NAME:

CONSTRUCTION DETAILS

DRAWING NUMBER:

C501

4/20/2026 1:17:16 PM
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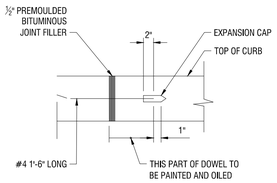
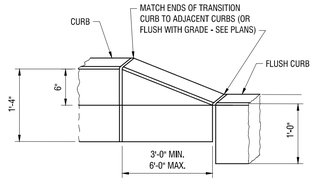
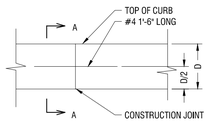
NOT FOR CONSTRUCTION



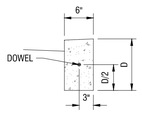
ELEVATION AT EXPANSION JOINT



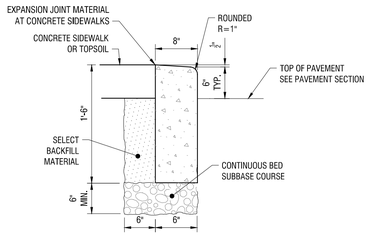
TERMINAL/TRANSITION CURB



ELEVATION AT CONSTRUCTION JOINT



SECTION A-A

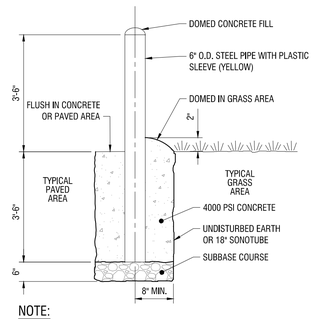


VERTICAL

NOTES:

1. SLOPE TOP OF CURB 1/4" PER FOOT TOWARD PAVEMENT.
2. CONTRACTION JOINTS SHALL BE FORMED OR SAWCUT EVERY 10 FEET TO DEPTHS SLIGHTLY BELOW THE PAVEMENT SURFACE.
3. EXPANSION JOINTS 1/2" IN WIDTH SHALL BE FORMED WITH A PREMOULDED BITUMINOUS JOINT FILLER EVERY 40 FEET.
4. EXPANSIONS JOINTS AND FORMED CONTRACTION JOINTS ARE TO BE EDGED WITH CONCRETE FINISHING TOOLS.
5. CONCRETE SEALING AGENT SHALL BE APPLIED THE SAME DAY THAT CURBS ARE CONSTRUCTED.
6. CONCRETE CURBING WITHIN R.O.W. SHALL CONFORM WITH NYSS M609-2R1.
7. CURB THICKNESS T IS TO BE 5" OR AS INDICATED ON THE DRAWINGS.
8. PROVIDE 0" CURB REVEAL FOR HEADER CURB CURB AT SIDEWALK RAMPS AND 1" CURB REVEAL FOR HEADER CURB AT DRIVEWAYS.
9. ALL CURB, EXCEPT HEADER CURB USED FOR SIDEWALK ACCESS RAMPS, IS TO HAVE THE 1" RADIUS.
10. GRADED STONE BACKING IS TO BE PLACED WHEN SIDEWALK DOES NOT ABUT CURB.
11. USE 5000 PSI CONCRETE FOR CONVENTIONALLY FORMED CURB. AND 5000 PSI CONCRETE FOR MACHINE FORMED CURB.

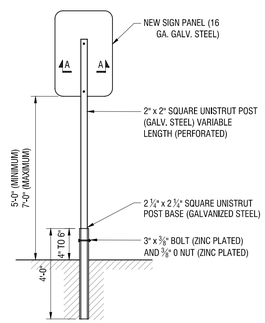
10 C502 CONCRETE CURB
N.T.S.

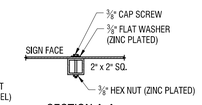


NOTE:

1. FINAL LOCATION OF BOLLARDS SHALL BE APPROVED BY THE OWNER OR ARCHITECT/ENGINEER.

9 C502 BOLLARD
N.T.S.



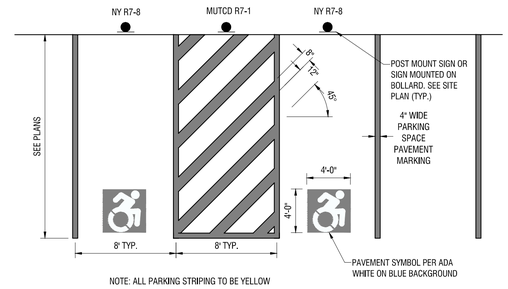


SECTION A-A

NOTES:

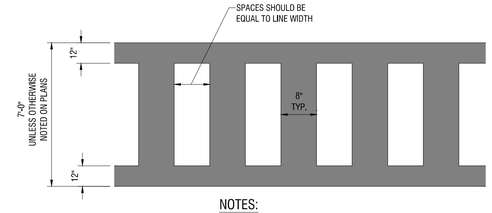
1. MAINTAIN TWO FEET OF CLEARANCE FROM FACE OF CURB TO ANY PART OF SIGN, AS APPLICABLE.
2. SEE PLANS FOR SIGN AND POST LOCATIONS.

8 C502 POST MOUNT SIGN
N.T.S.



NOTE: ALL PARKING STRIPING TO BE YELLOW

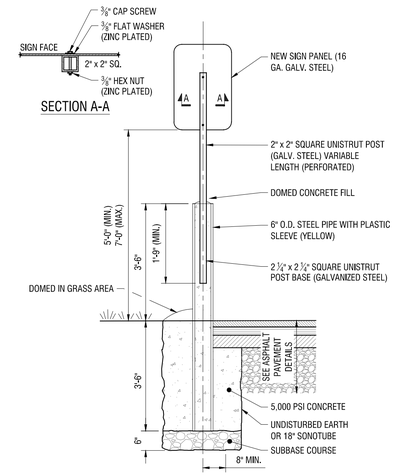
12 C502 ADA PARKING SPACE STRIPING
N.T.S.



NOTES:

1. ALL STRIPING SHALL BE WHITE

11 C502 CROSSWALK
N.T.S.



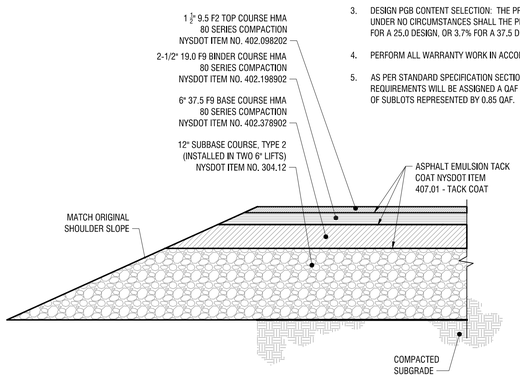
NOTES:

1. FINAL LOCATION OF BOLLARDS SHALL BE APPROVED BY THE OWNER OR ARCHITECT/ENGINEER.

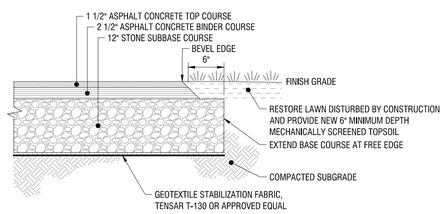
7 C502 BOLLARD MOUNTED SIGN
N.T.S.

ASPHALT PAVEMENT NOTES:

1. HMA ITEMS ARE BASED ON PG 64-22 BINDER, ESALs LESS THAN 30,000,000. TACK COAT IS REQUIRED BETWEEN ALL LIFTS OF ASPHALT. USE OF POLYPHOSPHORIC ACID (PPA) TO MODIFY THE BINDER PROPERTIES IS PROHIBITED. THIS PROHIBITION ALSO APPLIES TO THE USE OF PPA AS A CROSS-LINKING AGENT FOR POLYMER MODIFICATION.
2. BUTT JOINTS, CREATED BY A FULL-DEPTH SAWCUT, SHALL BE USED BETWEEN NEW AND EXISTING PAVEMENTS. THE ASPHALT TOP COURSE SHALL BE LAID SUCH THAT IT UNIFORMLY OVERLAPS THE ADJACENT COLD MAT BY 2"-3". THE THICKNESS OF THE OVERLAP MATERIAL SHALL BE 1/4 THE COMPACTED THICKNESS OF THE COURSE, SO AS TO RESULT IN A SMOOTH AND WELL-COMPACTED JOINT AFTER ROLLING. BROADCASTING OF THE OVERLAP MATERIAL ONTO THE LANE IS NOT ALLOWED. IF THE OVERLAP IS EXCESSIVE, THE EXCESS MATERIAL SHALL BE TRIMMED OFF SO THAT THE MATERIAL ALONG THE JOINT IS UNIFORM. THE COARSE PARTICLES OF AGGREGATE IN THE OVERLAP MATERIAL SHALL BE REMOVED AND WASTED IF DEEMED NECESSARY BY THE INSPECTOR.
3. DESIGN PGB CONTENT SELECTION: THE PRODUCER SELECTS THE DESIGN PGB CONTENT THAT RESULTS IN A COMPACTED DENSITY OF 96.5% Gmm AT THE DESIGN NUMBER OF GYRATIONS (Ndesign). UNDER NO CIRCUMSTANCES SHALL THE PERFORMANCE GRADED BINDER CONTENT IN THE HMA MIXTURE BE LESS THAN 5.8% FOR A 9.5 DESIGN, 5.2% FOR A 12.5 DESIGN, 4.5% FOR A 19.0 DESIGN, 4.2% FOR A 25.0 DESIGN, OR 3.7% FOR A 37.5 DESIGN. ALL VOLUMETRIC AND MECHANICAL PROPERTIES ARE CHECKED AT THIS PGB CONTENT TO ENSURE THAT ALL REQUIREMENTS ARE MET.
4. PERFORM ALL WARRANTY WORK IN ACCORDANCE WITH MATERIALS PROCEDURE (MP) 402-01, WARRANTY REQUIREMENTS FOR HOT MIX ASPHALT (HMA) TOP COURSE.
5. AS PER STANDARD SPECIFICATION SECTION 401-4.01 CERTIFIED PRODUCTION, PRODUCTION LESS THAN 500 TONS, AND HIGHWAY PERMIT PRODUCTION, PRODUCTION MEETING THE SPECIFICATION REQUIREMENTS WILL BE ASSIGNED A QAF OF 1.00. PRODUCTION FAILING TO MEET THE SPECIFICATION REQUIREMENTS WILL BE SUBJECT TO EVALUATION ACCORDING TO SECTION 401-4.03, EVALUATION OF SUBLOTS REPRESENTED BY 0.85 QAF.



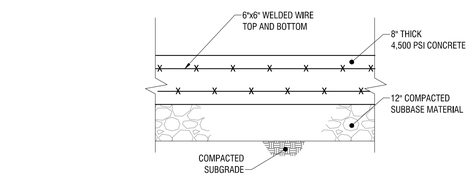
4 C502 PAVEMENT SECTION WITHIN R.O.W.
N.T.S.



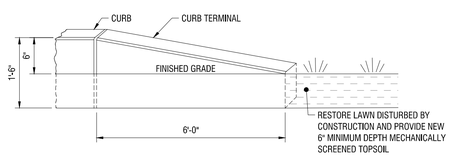
NOTES:

1. PROVIDE ADDITIONAL SUBBASE MATERIAL WHERE FILL IS REQUIRED TO OBTAIN PROPER SUBGRADE ELEVATION, OR TO REPLACE UNSUITABLE SUBGRADE MATERIAL.

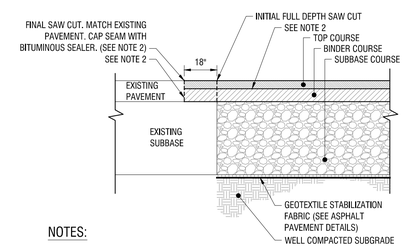
3 C502 ASPHALT PAVEMENT SECTION
N.T.S.



6 C502 CONCRETE PAD
N.T.S.



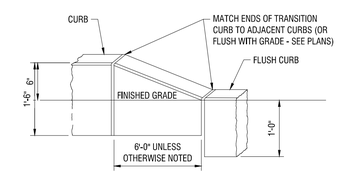
2 C502 CURB TERMINAL
N.T.S.



NOTES:

1. VERTICALLY SAW CUT ALL ASPHALT FULL DEPTH.
2. BLOW CLEAN AND APPLY TACK COAT 0.050 GAL/SY AT ALL ASPHALT TO ASPHALT SURFACES.
3. REFER TO STANDARD DUTY PAVEMENT SECTION DETAIL FOR COURSE THICKNESS.

5 C502 STANDARD DUTY PAVEMENT JOINT
N.T.S.



1 C502 CURB TRANSITION
N.T.S.

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EXP: EXP:

CERTIFICATE OF AUTHORIZATION NUMBER:
PROFESSIONAL ENGINEERING: 0021272
LAND SURVEYING: 0021271
GEOLOGICAL: 0021659

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HOME LEASING
DEVELOPMENT | CONSTRUCTION | MANAGEMENT

WEST SENECA APARTMENTS
2544 CLINTON ST,
WEST SENECA, NY 14224

NO:	DATE:	DESCRIPTION:
Revisions		

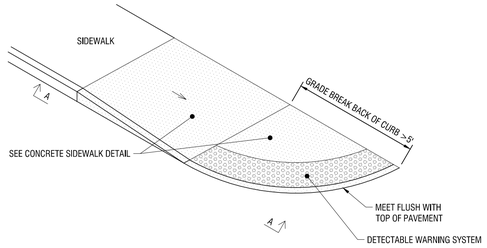
PROJECT NUMBER: 2241067
DRAWN BY: EMM / SCB
REVIEWED BY: SRV / DPB
ISSUED FOR: SITE PLAN APPROVAL
DATE: 4/20/2026
DRAWING NAME:

CONSTRUCTION DETAILS

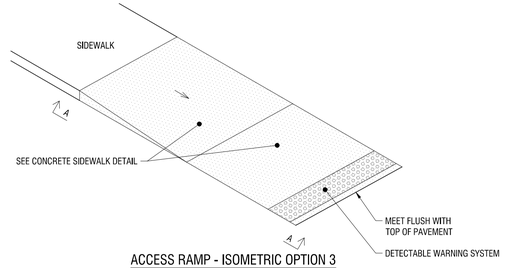
DRAWING NUMBER:

C502

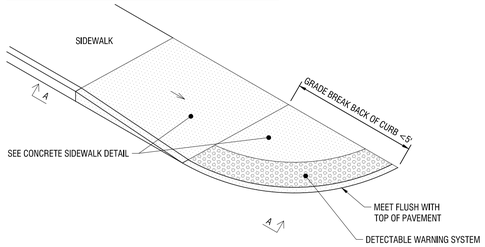
NOT FOR CONSTRUCTION



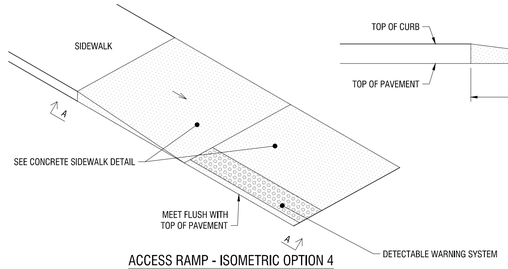
ACCESS RAMP AT CORNER - ISOMETRIC OPTION 1



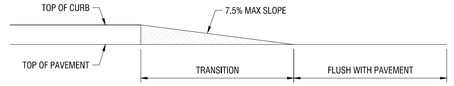
ACCESS RAMP - ISOMETRIC OPTION 3



ACCESS RAMP AT CORNER - ISOMETRIC OPTION 2



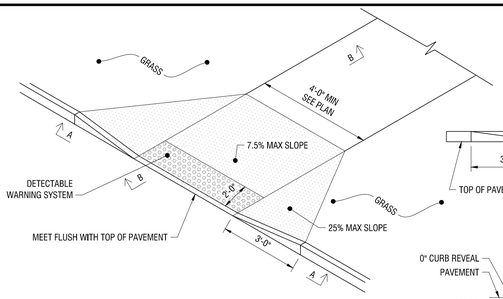
ACCESS RAMP - ISOMETRIC OPTION 4



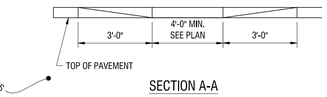
SECTION A-A

8 C503 SIDEWALK RAMP TYPE D

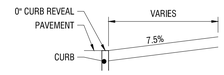
N.T.S.



TYPE "B" RAMP ISOMETRIC



SECTION A-A



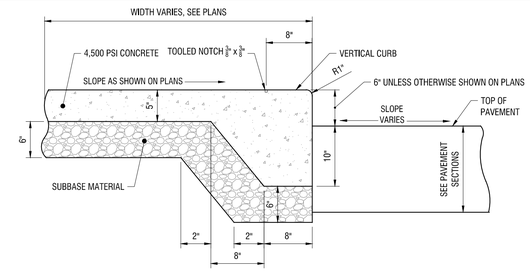
SECTION B-B

NOTES:

1. 7.5% IS MAXIMUM SLOPE OF ACCESS RAMP.
2. SURFACE OF ACCESS RAMP IS TO BE STABLE, FIRM AND SLIP-RESISTANT. TEXTURE SURFACE WITH COARSE BROOM RUNNING TRANSVERSE TO SLOPE OF ACCESS RAMP.
3. ENTIRE AREA OF ACCESS RAMP AND LANDING PAD IS TO BE 7 INCH THICK CONCRETE.

7 C503 SIDEWALK RAMP TYPE B

N.T.S.



6 C503 CONCRETE SIDEWALK AND INTEGRAL VERTICAL CURB SECTION

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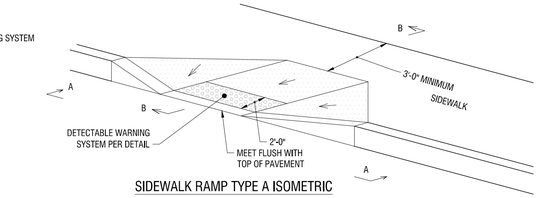
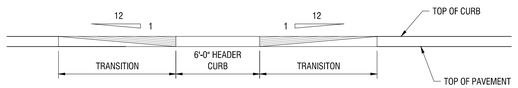


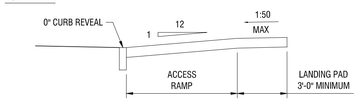
SIDEWALK RAMP TYPE A ISOMETRIC



VIEW A-A

NOTES:

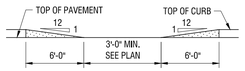
1. 1:12 IS MAXIMUM SLOPE OF ACCESS RAMP AND SIDE FLARE IN PAVED AREA.
2. SURFACE OF ACCESS RAMP IS TO BE STABLE, FIRM AND SLIP-RESISTANT. TEXTURE SURFACE WITH COARSE BROOM RUNNING TRANSVERSE TO SLOPE OF ACCESS RAMP.
3. ENTIRE AREA OF ACCESS RAMP AND LANDING PAD IS TO BE 7 INCH THICK CONCRETE.



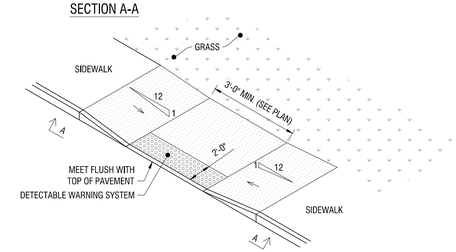
SECTION B-B

5 C503 SIDEWALK RAMP TYPE A

N.T.S.



SECTION A-A



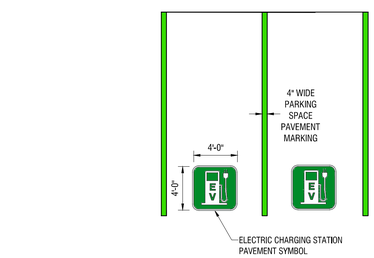
ACCESS RAMP - TYPE C ISOMETRIC

NOTES:

1. 1:12 IS MAXIMUM SLOPE OF ACCESS RAMP.
2. SURFACE OF ACCESS RAMP IS TO BE STABLE, FIRM AND SLIP-RESISTANT. TEXTURE SURFACE WITH COARSE BROOM RUNNING TRANSVERSE TO SLOPE OF ACCESS RAMP.
3. ENTIRE AREA OF ACCESS RAMP AND LANDING PAD IS TO BE 7 INCH THICK CONCRETE.

4 C503 SIDEWALK RAMP TYPE C

N.T.S.



ACCESSIBLE SYMBOL
COLOR WHITE ON BLUE BACKGROUND

12" X 18"
ELECTRIC VEHICLE CHARGING STATION

12" X 18"
NO PARKING
MUTCD R7-1
FEDERAL DESIGNATION

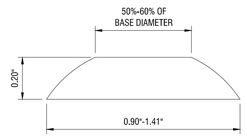
ELECTRIC CHARGING SYMBOL
4'x4', COLOR WHITE ON GREEN BACKGROUND

12" X 18"
RESERVED
NY R7-8
FEDERAL DESIGNATION

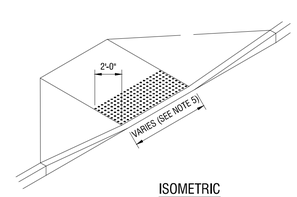
12" X 6"
VAN ACCESSIBLE
MUTCD R7-8a
FEDERAL DESIGNATION

3 C503 PAVEMENT MARKINGS AND SIGNAGE

N.T.S.



DOME SECTION



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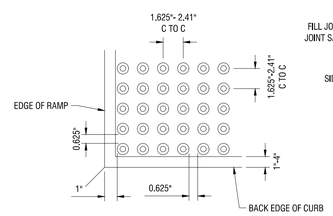
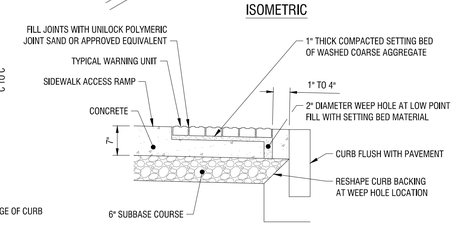


DOME SPACING



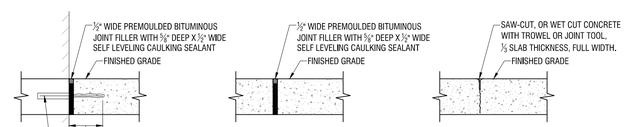
SECTION

NOTES:

1. QUANTITY OF TRUNCATED DOMES SHOWN IS FOR ILLUSTRATIVE PURPOSES ONLY AND TO DEPICT REQUIRED SQUARE GRID PATTERN.
2. TRUNCATED DOMES ARE TO BE ALIGNED ON THE SQUARE GRID PATTERN IN THE PREDOMINANT DIRECTION OF TRAVEL.
3. ENTIRE DETECTABLE WARNING SYSTEM FIELD, INCLUDING TRUNCATED DOMES, IS TO BE DARK GRAY IN COLOR, N7 PER MUNSELL BOOK NOTATION, OR APPROVED EQUIVALENT.
4. OUTER EDGE OF THE DETECTABLE WARNING SYSTEM FIELD IS TO BE LOCATED SO THAT THE EDGE OF THE WARNING FIELD NEAREST TO THE STREET IS 1 TO 4 INCHES BEHIND THE BACK EDGE OF THE CURB SECTION.
5. DETECTABLE WARNING SYSTEM IS TO EXTEND ACROSS THE FULL WIDTH OF A SIDEWALK ACCESS RAMP, BUT NOT UP THE SIDE FLARES.

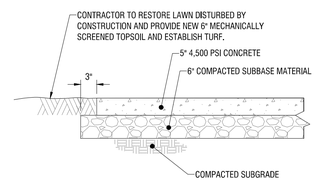
2 C503 BRICK DETECTABLE WARNING SYSTEM AT CURB

N.T.S.



EXPANSION JOINT

CONTROL JOINT



SIDEWALK NOTES:

1. CONCRETE SHALL BE 4,500 PSI AIR ENTRAINED MIX AT 28 DAYS
2. COMPACTED SUBBASE MATERIAL SHALL COMPLY WITH NYSDOT ITEM 304.14, TYPE 4
3. CONCRETE SURFACE SHALL RECEIVE A BROOM FINISH AND TWO COATS OF A MEMBRANE FORMING SEALER AT RATES SPECIFIED BY THE PRODUCT MANUFACTURE.
4. EXPANSION JOINTS SHALL BE PROVIDED AT ALL FITTED STRUCTURES AND AT EVERY 25' ON CENTER.
5. CONTROL JOINTS SHALL BE EVERY 5' OR AS SHOWN ON THE PLANS AND IN ACCORDANCE WITH ACI 330-R92. THESE JOINTS SHALL BE COMPLETED WITHIN 24 HOURS OF CONCRETE PLACEMENT. SCORED JOINTS SHALL BE ¼-INCH WIDTH MINIMUM AND ⅓ OF THE THICKNESS OF THE CONCRETE
6. SIDEWALK ADJACENT TO THE CURB SHALL HAVE A 2.00% CROSS-SLOPE TO THE CURB. OTHER AREA AS INDICATED ON THE GRADING PLAN.
7. ALL JOINTS AND EXPOSED EDGES SHALL BE ROUNDED WITH JOINT TOOL.

1 C503 CONCRETE SIDEWALK

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EXP: EXP:

CERTIFICATE OF AUTHORIZATION NUMBER:
PROFESSIONAL ENGINEERING: 0021272
LAND SURVEYING: 0021271
GEOLOGICAL: 0021659

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HOME LEASING
DEVELOPMENT | CONSTRUCTION | MANAGEMENT

WEST SENECA APARTMENTS
2544 CLINTON ST,
WEST SENECA, NY 14224

NO:	DATE:	DESCRIPTION:
Revisions		

PROJECT NUMBER: 2241067
DRAWN BY: EMM / SCB
REVIEWED BY: SRV / DPB
ISSUED FOR: SITE PLAN APPROVAL
DATE: 4/20/2026
DRAWING NAME:

CONSTRUCTION DETAILS

DRAWING NUMBER:

C503

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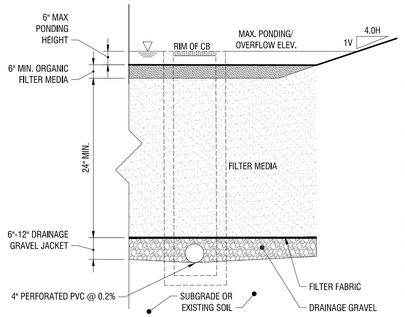

NOTES:

1. CONTRACTOR SHALL INSTALL FILTER MEDIA AFTER SITE HAS BEEN STABILIZED TO MINIMIZE POTENTIAL OF SEDIMENT CONTAMINATION OF MEDIA.
2. FILTER MEDIA SHALL BE LOAM/SAND MIX, NYSDOT BIO SOIL MIX ITEM #208.01030022, CONTAINING A MINIMUM OF 85% TO 88% COARSE/MEDIUM SAND BY VOLUME, 8% TO 12% SOIL FINES, AND 3% TO 5% ORGANIC MATTER.
3. ORGANIC FILTER MEDIA SHALL MEET SAME CRITERIA AS ABOVE WITH THE EXCEPTION OF CONTAINING 10% TO 12% ORGANIC MATTER.
4. SOIL SHOULD FALL WITHIN USCS TYPES SM OR ML WITH PERMEABILITY OF AT LEAST 1.0 FEET PER DAY. SOIL SHOULD BE FREE FROM STONES, STUMPS, ROOTS OR OTHER WOODY MATERIAL OVER 1" IN DIAMETER.
5. PLACEMENT OF THE PLANTING SOIL SHOULD BE IN LIFTS OF 12" TO 18", LOOSELY COMPACTED TO AT MOST 80% PROCTOR TEST. PH RANGE: 5.2 - 7.00.
6. FILTER FABRIC TO BE NON-WOVEN CLASS 'C', MIRAFI 180-N OR APPROVED EQUIVALENT
7. DRAINAGE GRAVEL TO MEET AASHTO M-43. NO.67, SIZE 0.25" TO 0.75"
8. CONTRACTOR TO PROVIDE PLANTING SOIL SUBMITTAL SPECIFICATION FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.
9. WETLAND SEED MIX SHALL BE USED AS INDICATED IN SPECIFICATIONS.
10. CONTRACTOR SHALL PROVIDE AT LEAST TWO PERMEABILITY TESTS FOR EACH FACILITY LOCATED AT OPPOSITE SIDES OF FACILITY.

8 / C504 BIORETENTION

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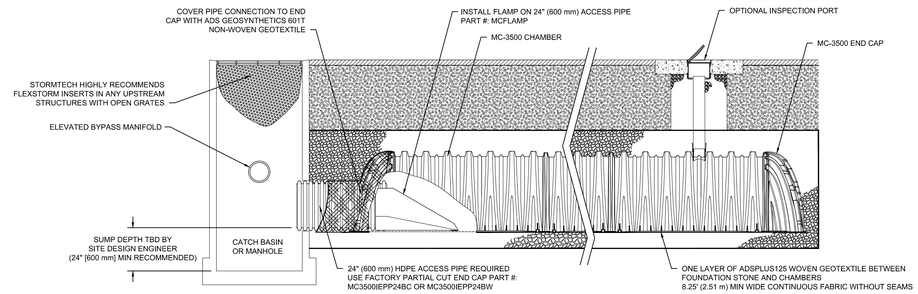

7 / C504 MC-3500 ISOLATOR ROW PLUS DETAIL

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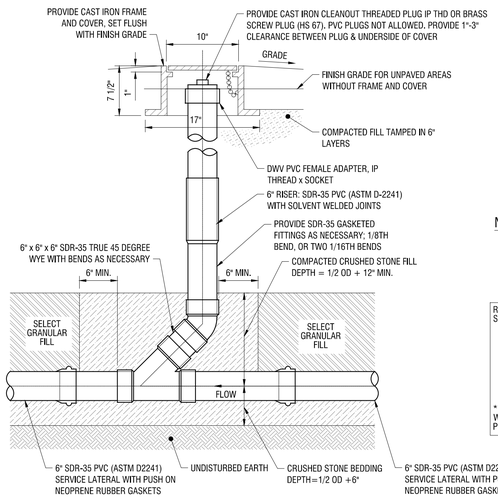


STORM
C.O.
LETTERING ON COVER

NOTES:

1. FRAME AND COVER TO BE USED ONLY IN PAVED AREAS.
2. CRUSHED STONE: NO. 1 WASHED STONE OR A MIX OF NO. 1 AND NO. 2 WASHED STONE

RECOMMENDED METHODS FOR JOINING OF SOLVENT WELD PIPE:

1. CLEAN DRY HUBS & SPIGOTS
2. APPLY PRIMER TO PARTS BEING CONNECTED
3. APPLY PVC SOLVENT WELD CEMENT DIRECTLY OVER PRIMER

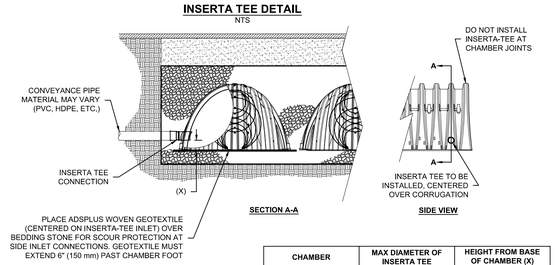
** PVC TYPE IS COMPATIBLE FOR SOLVENT WELDING TO SDR-35 OR ANY OTHER PVC TYPE I PIPE MADE TO STEEL PIPE OUTSIDE DIMENSIONS

6 / C504 CLEANOUT FOR NEW STORM LATERAL

N.T.S.

INSERTA TEE DETAIL

NTS



NOTES:

- PART NUMBERS WILL VARY BASED ON INLET PIPE MATERIALS. CONTACT STORMTECH FOR MORE INFORMATION.
- CONTACT ADS ENGINEERING SERVICES IF INSERTA TEE INLET MUST BE RAISED AS NOT ALL INVERTS ARE POSSIBLE.

CHAMBER	MAX DIAMETER OF INSERTA TEE	HEIGHT FROM BASE OF CHAMBER (X)
SC-310	6" (150 mm)	4" (100 mm)
SC-800	10" (250 mm)	4" (100 mm)
DC-780	10" (250 mm)	4" (100 mm)
MC-3500	12" (300 mm)	6" (150 mm)
MC-4500	12" (300 mm)	8" (200 mm)
MC-7200	12" (300 mm)	8" (200 mm)
INSERTA TEE FITTINGS AVAILABLE FOR SDR 26, SDR 35, SCH 40 IPS GASKETED & SOLVENT WELD, N-12, HP STORM, C-900 OR DUCTILE IRON		

5 / C504 MC-3500 INSERTA-TEE INLET

N.T.S.

UNDERDRAIN DETAIL

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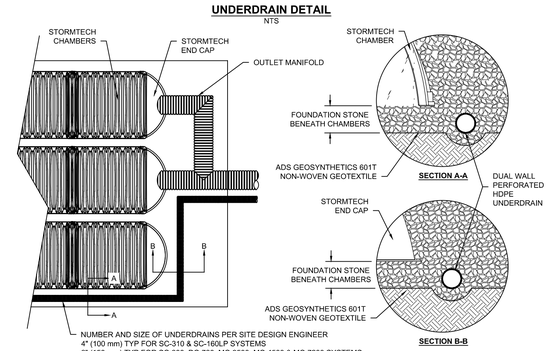


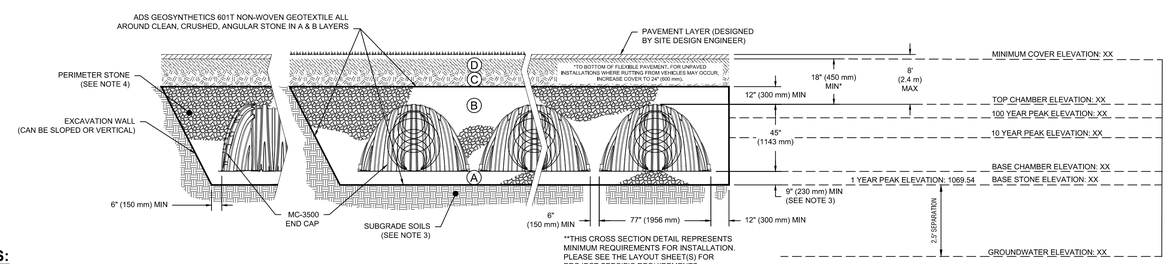
4 / C504 MC-3500 UNDERDRAIN

N.T.S.

ACCEPTABLE FILL MATERIALS: STORMTECH MC-3500 CHAMBER SYSTEMS

	MATERIAL LOCATION	DESCRIPTION	AASHTO MATERIAL CLASSIFICATIONS	COMPACTION / DENSITY REQUIREMENT
D	**FINAL FILL:** FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'D' LAYER	ANY SOIL/ROCK MATERIALS, NATIVE SOILS, OR PER ENGINEER'S PLANS. CHECK PLANS FOR PAVEMENT SUBGRADE REQUIREMENTS.	N/A	PREPARE PER SITE DESIGN ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS.
C	**INITIAL FILL:** FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE ('B' LAYER) TO 18" (450 mm) ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE A PART OF THE 'C' LAYER.	GRANULAR WELL-GRADED SOIL/AGGREGATE MIXTURES, <35% FINES OR PROCESSED AGGREGATE. MOST PAVEMENT SUBBASE MATERIALS CAN BE USED IN LIEU OF THIS LAYER.	AASHTO M145[1] A-1, A-2-4, A-3 OR AASHTO M43[1] 3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10	BEGIN COMPACTIONS AFTER 18" (450 mm) OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 12" (300 mm) MAX LIFTS TO A MIN. 95% PROCTOR DENSITY FOR WELL GRADED MATERIAL AND 95% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIALS.
B	**EMBEDMENT STONE:** FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE ('A' LAYER) TO THE 'C' LAYER ABOVE.	CLEAN, CRUSHED, ANGULAR STONE OR RECYCLED CONCRETE[5]	AASHTO M43[1] 3, 357, 4, 467, 5, 56, 57	NO COMPACTION REQUIRED
A	**FOUNDATION STONE:** FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.	CLEAN, CRUSHED, ANGULAR STONE OR RECYCLED CONCRETE[5]	AASHTO M43[1] 3, 357, 4, 467, 5, 56, 57	PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE.[2,3]

PLEASE NOTE:
1. THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR NO. 4 (AASHTO M43) STONE".
2. STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 9" (230 mm) (MAX) LIFTS USING TWO FULL COVERAGES WITH A VIBRATORY COMPACTOR.
3. WHERE INFILTRATION SURFACES MAY BE COMPROMISED BY COMPACTION, FOR STANDARD DESIGN LOAD CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED BY RAKING OR DRAGGING WITHOUT COMPACTION EQUIPMENT. FOR SPECIAL LOAD DESIGNS, CONTACT STORMTECH FOR COMPACTION REQUIREMENTS.
4. ONCE LAYER 'C' IS PLACED, ANY SOIL/MATERIAL CAN BE PLACED IN LAYER 'D' UP TO THE FINISHED GRADE. MOST PAVEMENT SUBBASE SOILS CAN BE USED TO REPLACE THE MATERIAL REQUIREMENTS OF LAYER 'C' OR 'D' AT THE SITE DESIGN ENGINEER'S DISCRETION.
5. WHERE RECYCLED CONCRETE AGGREGATE IS USED IN LAYERS 'A' OR 'B' THE MATERIAL SHOULD ALSO MEET THE ACCEPTABILITY CRITERIA OUTLINED IN TECHNICAL NOTE 6.20 "RECYCLED CONCRETE STRUCTURAL BACKFILL".



NOTES:

1. CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS" CHAMBER CLASSIFICATION 45x76 DESIGNATION SS.
2. MC-3500 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
3. THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR ASSESSING THE BEARING RESISTANCE (ALLOWABLE BEARING CAPACITY) OF THE SUBGRADE SOILS AND THE DEPTH OF FOUNDATION STONE WITH CONSIDERATION FOR THE RANGE OF EXPECTED SOIL MOISTURE CONDITIONS. REFERENCE STORMTECH DESIGN MANUAL FOR BEARING CAPACITY GUIDANCE.
4. PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.
5. REQUIREMENTS FOR HANDLING AND INSTALLATION:
   - TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LUGS.
   - TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 3" (75 mm).
   - TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, a) THE ARCH STIFFNESS CONSTANT AS DEFINED IN SECTION 6.2.8 OF ASTM F2418 SHALL BE GREATER THAN OR EQUAL TO 500 LBS/FT/%. AND b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.

1 / C504 MC-3500 CROSS SECTION

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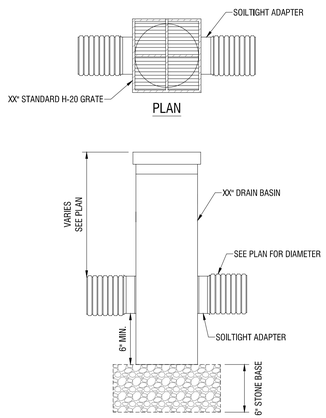

3 / C504 DRAIN BASIN

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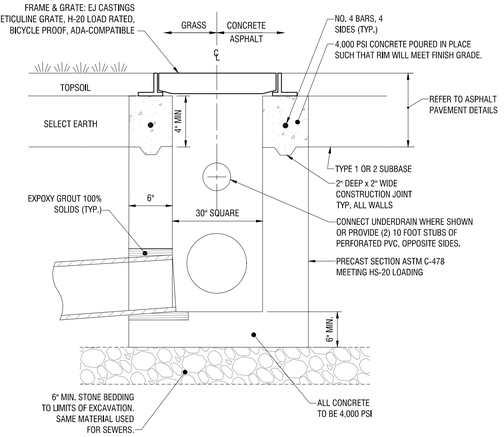

NOTES:

1. THE ENTIRE EXTERIOR & INTERIOR SURFACES OF THE CATCH BASIN SHALL BE PAINTED WITH TWO COATS OF BITUMASTIC COATING.
2. CATCH BASIN SHALL NOT BE CONNECTED TO ANY SANITARY SEWER.
3. PROVIDE FRAMES AND GRATES CONFORMING TO NYSDOT STANDARD SHEETS M655-10R3, M655-6.
4. FRAMES TO HAVE APPROPRIATE STRAP ANCHORS.

2 / C504 CATCH BASIN

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WEST SENECA APARTMENTS
2544 CLINTON ST,
WEST SENECA, NY 14224

NO:	DATE:	DESCRIPTION:
Revisions		

PROJECT NUMBER: 2241067

DRAWN BY: EMM / SCB

REVIEWED BY: SRV / DPB

ISSUED FOR: SITE PLAN APPROVAL

DATE: 4/20/2026

DRAWING NAME:

CONSTRUCTION DETAILS

DRAWING NUMBER:

C504

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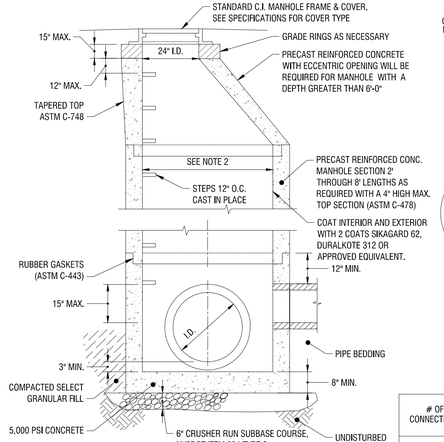
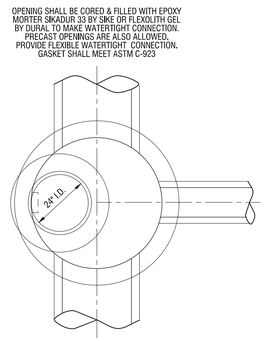


ELEVATION



PLAN

NOTE:

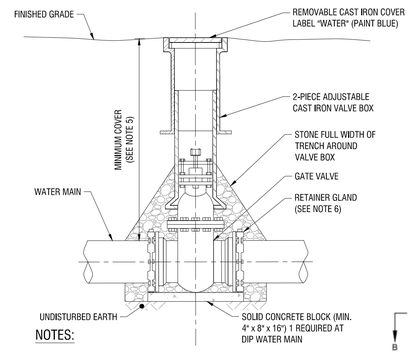
1. PRECAST REINFORCED CONCRETE BASE REQUIRED FOR MANHOLE WITH DEPTH GREATER THAN 6'-0".
2. REFER TO TABLE
3. MANHOLES ARE TO BE FLANGED AND WATER TIGHT IN HIGH WATER TABLE AREAS

MINIMUM MANHOLE DIAMETERS

# OF CONNECTIONS	PIPE DIAMETERS									
	8"	10"	12"	15"	16"	18"	21"	24"	30"	36"	42" & UP
ONE	4'	4'	4'	4'	4'	4'	4'	4'	5'	5'	REQUIRES SPECIAL MANHOLE
TWO	4'	4'	4'	4'	4'	4'	4'	4'	5'	5'	
THREE	4'	4'	4'	4'	4'	4'	5'	5'	5'	5'	
FOUR	4'	4'	4'	5'	5'	5'	5'	5'	5'	5'	

8 C505 CONCENTRIC STORM MANHOLE

N.T.S.



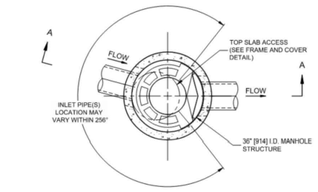
NOTES:

1. VALVE BOXES SHALL BE CENTERED ON VALVE AND SET ON COMPACTED BACKFILL.
2. VALVE SHALL NOT SUPPORT VALVE BOX.
3. BODY AND BONNET BOLTS SHALL BE STAINLESS STEEL.
4. VALVES SHALL BE OPEN RIGHT.
5. MINIMUM COVER SHALL BE AS SHOWN ON WATER MAIN TRENCH DETAIL.
6. RETAINER GLANDS NOT REQUIRED AT HYDRANT GUARD VALVES. GUARD VALVES SHALL BE RESTRAINED WITH ANCHOR PIPE.
7. REFER TO PLANS AND SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

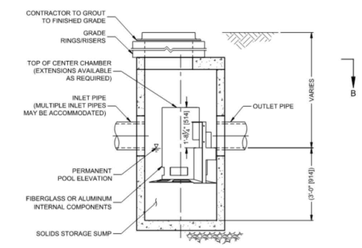
7 C505 MJ GATE VALVE

N.T.S.

NOT FOR CONSTRUCTION



PLAN VIEW B-B
NOT TO SCALE



ELEVATION A-A
NOT TO SCALE

CASCADE separator™

CASCADE SEPARATOR DESIGN NOTES

THE STANDARD CS-3 CONFIGURATION IS SHOWN. ALTERNATE CONFIGURATIONS ARE AVAILABLE AND ARE LISTED BELOW. SOME CONFIGURATIONS MAY BE COMBINED TO SUIT SITE REQUIREMENTS.

CONFIGURATION DESCRIPTION
GRATED INLET ONLY (NO INLET PIPE)
GRATED INLET WITH INLET PIPE OR PIPES
CURB INLET ONLY (NO INLET PIPE)
CURB INLET WITH INLET PIPE OR PIPES

FRAME AND COVER
(DIAMETER VARIES)
NOT TO SCALE

SITE SPECIFIC DATA REQUIREMENTS

STRUCTURE ID			
WATER QUALITY FLOW RATE (cfs [L/s])			
PEAK FLOW RATE (cfs [L/s])			
RETURN PERIOD OF PEAK FLOW (yrs)			
RIM ELEVATION			
PIPE DATA:	INVERT	MATERIAL	DIAMETER
INLET PIPE 1			
INLET PIPE 2			
OUTLET PIPE			
NOTES /SPECIAL REQUIREMENTS:			

GENERAL NOTES

1. CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.
2. FOR SITE SPECIFIC DRAWINGS WITH DETAILED STRUCTURE DIMENSIONS AND WEIGHT, PLEASE CONTACT YOUR CONTECH ENGINEERED SOLUTIONS LLC REPRESENTATIVE. www.ContechES.com
3. CASCADE SEPARATOR WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING. CONTRACTOR TO CONFIRM STRUCTURE MEETS REQUIREMENTS OF PROJECT.
4. CASCADE SEPARATOR STRUCTURE SHALL MEET AASHTO HS20 LOAD RATING, ASSUMING EARTH COVER OF 0' - 2' [610], AND GROUNDWATER ELEVATION AT, OR BELOW, THE OUTLET PIPE INVERT ELEVATION. ENGINEER OF RECORD TO CONFIRM ACTUAL GROUNDWATER ELEVATION. CASTINGS SHALL MEET AASHTO M306 AND BE CAST WITH THE CONTECH LOGO.
5. CASCADE SEPARATOR STRUCTURE SHALL BE PRECAST CONCRETE CONFORMING TO ASTM C478 AND AASHTO LOAD FACTOR DESIGN METHOD.
6. ALTERNATE UNITS ARE SHOWN IN MILLIMETERS [mm].

INSTALLATION NOTES

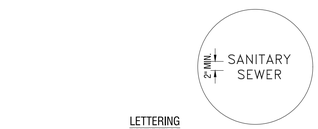
A. ANY SUB-BASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.
B. CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE CASCADE SEPARATOR MANHOLE STRUCTURE.
C. CONTRACTOR TO INSTALL JOINT SEALANT BETWEEN ALL STRUCTURE SECTIONS AND ASSEMBLE STRUCTURE.
D. CONTRACTOR TO PROVIDE, INSTALL, AND GROUT INLET AND OUTLET PIPE(S). MATCH PIPE INVERTS WITH ELEVATIONS SHOWN. ALL PIPE CENTERLINES TO MATCH PIPE OPENING CENTERLINES.
E. CONTRACTOR TO TAKE APPROPRIATE MEASURES TO ASSURE UNIT IS WATER TIGHT, HOLDING WATER TO FLOWLINE INVERT MINIMUM. IT IS SUGGESTED THAT ALL JOINTS BELOW PIPE INVERTS ARE GROUTED.

CONTECH ENGINEERED SOLUTIONS LLC
www.ContechES.com
9025 Centre Pointe Dr., Suite 400, West Chester, OH 45069
800-338-1122 513-645-7000 513-645-7993 FAX

CS-3
CASCADE SEPARATOR
STANDARD DETAIL

6 C505 WATER QUALITY UNIT

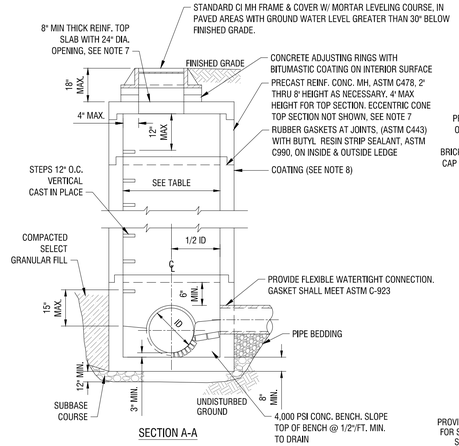
N.T.S.



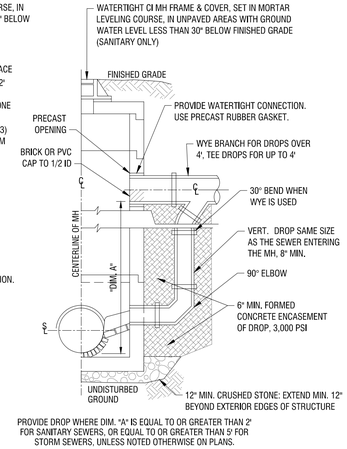
LETTERING ON COVER

MINIMUM MANHOLE DIAMETERS

# OF CONNECTIONS	PIPE DIAMETERS										
	8"	10"	12"	15"	16"	18"	21"	24"	30"	36"	42" & UP
ONE	4'	4'	4'	4'	4'	4'	4'	4'	5'	5'	REQUIRES SPECIAL MANHOLE
TWO	4'	4'	4'	4'	4'	4'	4'	4'	5'	5'	
THREE	4'	4'	4'	4'	4'	4'	5'	5'	5'	5'	
FOUR	4'	4'	4'	5'	5'	5'	5'	5'	5'	5'	



SECTION A-A

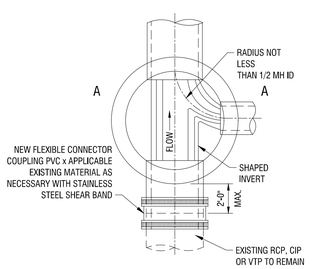


PROVIDE DROP WHERE DIM. "A" IS EQUAL TO OR GREATER THAN 2' FOR SANITARY SEWERS, OR EQUAL TO OR GREATER THAN 5' FOR STORM SEWERS, UNLESS NOTED OTHERWISE ON PLANS.

SECTION A-A
(FOR OUTSIDE DROP CONNECTION & WATERTIGHT MH FRAME & COVER)

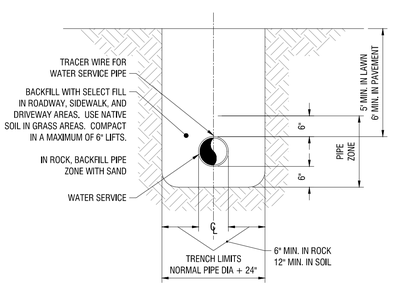
NOTES:

1. IF AN INVERT IS NOT GIVEN, THE CROWN OF THE INFLUENT SEWER(S) SHOULD BE AT THE SAME LEVEL OR ABOVE THE CROWN OF THE OUTLET SEWER.
2. PIPE CONNECTIONS 6" DIAMETER AND SMALLER MAY BE FIELD CORED. CORED OPENINGS IN MANHOLE RISER SECTIONS SHALL BE NOT LESS THAN 6" FROM A RISER JOINT.
3. ALL RISER JOINTS SHALL BE RUBBER RING GASKETS CONFORMING TO ASTM C443 WITH FLEXIBLE JOINT SEALER ON OUTSIDE OF JOINTS.
4. PRECAST BASES, RISER SECTIONS & TOP SLABS SHALL CONFORM WITH ASTM C478, W/ HS-20 LOADING AND 30% IMPACT LOADING DESIGN.
5. CONCRETE FOR STRUCTURE SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 4,000 PSI.
6. INVERT AND BENCH MAY BE CONSTRUCTED WITH BRICK OR POURED CONCRETE. PVC AND/OR ABS PIPE SHALL NOT BE USED WITHIN THE MANHOLE.
7. ECCENTRIC CONE TYPE TOP SECTIONS FOR MANHOLES SHALL BE USED WHERE THE INSIDE HEIGHT DIMENSION FROM THE BENCH WALL TO THE BOTTOM OF THE ECCENTRIC SECTION EXCEEDS 8', OTHERWISE PROVIDE FLAT SLAB TOP SECTIONS.
8. INSIDE AND OUTSIDE OF MANHOLE TO BE EPOXY COATED TO ONE FOOT ABOVE THE HIGHEST PIPE CROWN. AREAS OUTSIDE OF ONE FOOT ABOVE HIGHEST PIPE CROWN TO RECEIVE TWO COATS OF BITUMASTIC COATING ON BOTH THE INSIDE AND OUTSIDE OF MANHOLE.



3 C505 SANITARY MANHOLE

N.T.S.



5 C505 WATER SERVICE TRENCH

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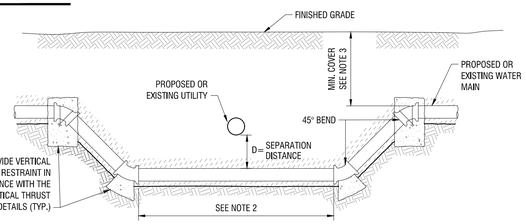
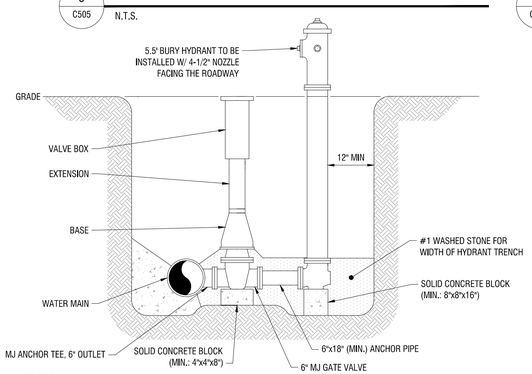


NOTES:

1. SEPARATION DISTANCE DIMENSION D, (OUTSIDE EDGE TO OUTSIDE EDGE) SHALL BE PROVIDED AS FOLLOWS:
   GAS AND WATER LINES D = 12" MIN. SANITARY FORCEMAINS, STORM SEWERS, AND SANITARY SEWERS D = 18" MIN.
2. ONE STANDARD FULL LENGTH OF WATER MAIN SHALL BE CENTERED UNDER THE SEWER SO THAT BOTH JOINTS WILL BE AS FAR FROM THE SEWER AS POSSIBLE.
3. MIN. COVER DEPTH - SEE WATER MAIN TRENCH DETAIL.

4 C505 TYPICAL WATER MAIN VERTICAL TRANSITION

N.T.S.

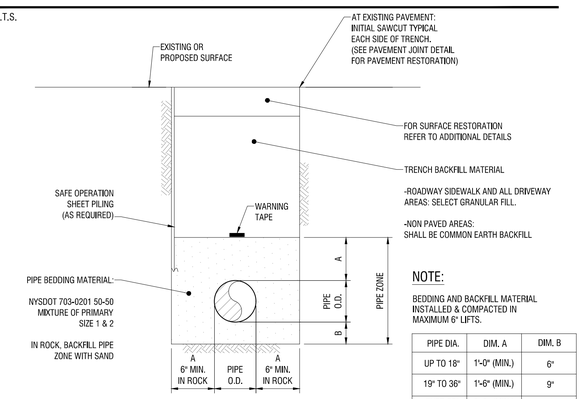


NOTES:

1. HYDRANT TO BE MUELLER SUPER CENTURION 250 - MODEL A-423 OR APPROVED EQUAL.
2. HYDRANT TO BE PAINTED RED.
3. HYDRANT MAIN VALVE SEAT SHALL BE 4 1/2" IN DIAMETER.
4. HYDRANT VALVE TO TURN LEFT.

2 C505 HYDRANT ASSEMBLY

N.T.S.



NOTE:

BEDDING AND BACKFILL MATERIAL INSTALLED & COMPACTED IN MAXIMUM 6" LIFTS.

PIPE DIA.	DIM. A	DIM. B
UP TO 18"	1'-0" (MIN.)	6"
19" TO 36"	1'-6" (MIN.)	9"
OVER 36"	2'-0" (MIN.)	12"

1 C505 STORM/SANITARY SEWER TRENCH AND PIPE BEDDING

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Buffalo, NY 14202
716-551-6281

labellapc.com

EXP: EXP:

CERTIFICATE OF AUTHORIZATION NUMBER:
PROFESSIONAL ENGINEERING: 0021272
LAND SURVEYING: 0021271
GEOLOGICAL: 0021659

It is a violation of New York Education Law Art. 145 Sec. 7209 & Art. 147 Sec. 7307, for any person, unless acting under the direction of a licensed architect, professional engineer, or land surveyor, to alter an item in any way. If an item bearing the seal of an architect, engineer, or land surveyor is altered; the altering architect, engineer, or land surveyor shall affix to the item their seal and notation "altered by" followed by their signature and date of such alteration, and a specific description of the alteration.

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HOME LEASING
75 S CLINTON AVE SUITE 700,
ROCHESTER, NEW YORK 14604

HOME LEASING
DEVELOPMENT | CONSTRUCTION | MANAGEMENT

WEST SENECA APARTMENTS
2544 CLINTON ST,
WEST SENECA, NY 14224

NO:	DATE:	DESCRIPTION:
Revisions		

PROJECT NUMBER: 2241067

DRAWN BY: EMM / SCB

REVIEWED BY: SRV / DPB

ISSUED FOR: SITE PLAN APPROVAL

DATE: 4/20/2026

DRAWING NAME:

CONSTRUCTION DETAILS

DRAWING NUMBER:

C505

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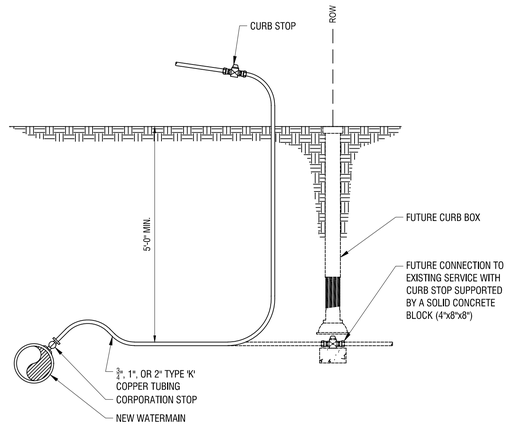
NOT FOR CONSTRUCTION

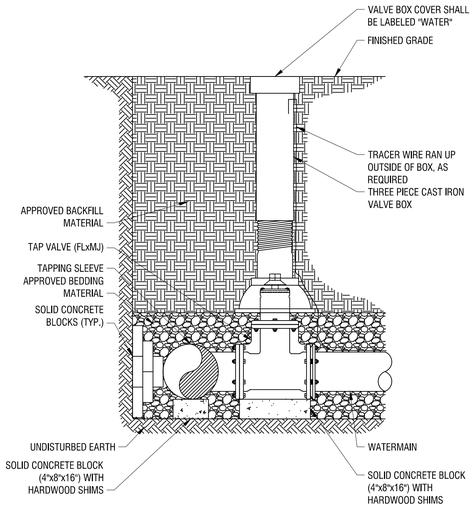


NOTES:

1. AFTER COMPLETION OF TESTING, THE SAMPLE POINT SHALL BE UTILIZED FOR A SERVICE CONNECTION. IF UNABLE TO UTILIZE FOR A SERVICE REPLACE THE CORPORATION STOP IN PIPE WITH A THREADED BRASS PLUG.

5 / C506 TEMPORARY BLOW-OFF / SAMPLE POINT

ECWA STANDARD DETAIL

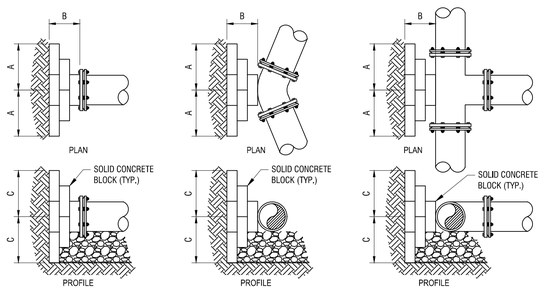


NOTES:

1. VALVE SHALL NOT SUPPORT VALVE BOX.
2. TAP VALVE SHALL BE INSTALLED LEVEL AND VERTICALLY PLUMB.
3. VALVE BOX SHALL BE PLUMB TO GRADE, WITH OPERATING NUT CENTERED IN BOX.

4 / C506 TAPPING SLEEVE AND VALVE

ECWA STANDARD DETAIL

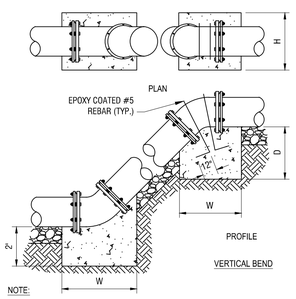


PIPE SIZE	90° BEND, TEE, OR DEAD END			45° BEND		
	A	B	C	A	B	C
6"	1.5'	1.0'	0.5'	0.75'	1.0'	0.5'
8"	1.5'	1.0'	0.75'	1.5'	1.0'	0.5'
10"	1.5'	1.5'	1.0'	1.5'	1.5'	0.75'
12"	2.0'	2.0'	1.0'	1.75'	1.75'	0.75'

PIPE SIZE	22.5° BEND			11.25° BEND		
	A	B	C	A	B	C
6"	0.5'	1.0'	0.5	0.5'	1.0'	0.5
8"	0.75'	1.0'	0.5'	0.5'	1.0'	0.5'
10"	1.0'	1.5'	0.75'	1.0'	1.0'	0.75'
12"	1.25'	1.75'	0.75'	1.25'	1.25'	0.75'

PIPE SIZE	VERTICAL BEND UP			VERTICAL BEND DOWN		
	D	H	W	D	H	W
6"	2.0'	5.0'	3.0'	3.5'	3.5'	3.0'
8"	2.0'	6.0'	4.0'	4.5'	4.5'	4.0'
10"	2.0'	6.25'	4.5'	4.75'	4.75'	4.5'
12"	2.0'	6.5'	5.0'	5.0'	5.0'	5.0'

*LENGTHS SHOWN ARE MINIMUM REQUIREMENTS

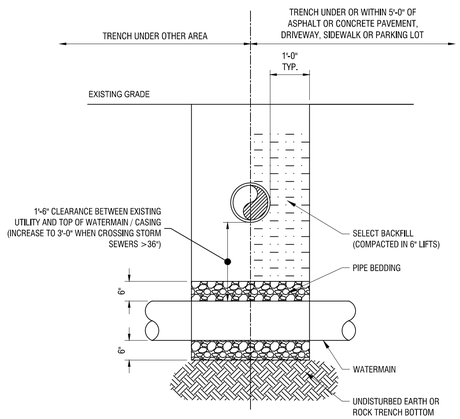


NOTE:

FULL CONCRETE THRUST BLOCKS AS SHOWN ARE REQUIRED WHEN THRUST RESTRAINT IS NOT PROVIDED BY OTHER MEANS SUCH AS MJ RESTRAINTS

3 / C506 THRUST BLOCKS

ECWA STANDARD DETAIL

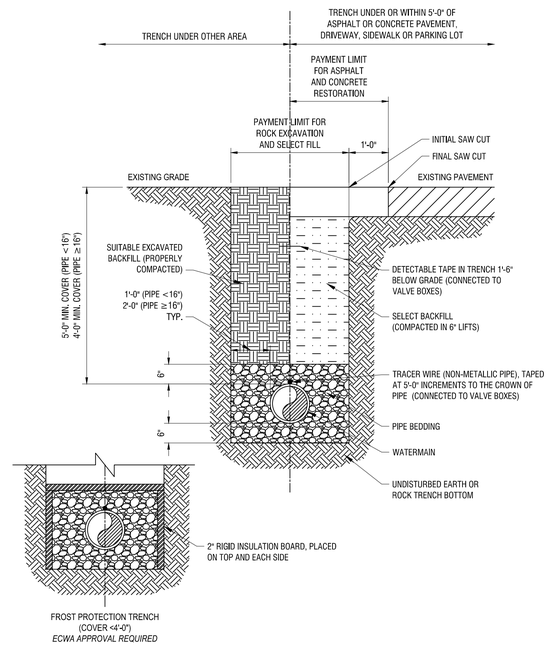


NOTES:

1. ALL EXISTING UTILITIES MUST BE SUPPORTED WITH APPROPRIATE CHAINS / STRAPS DURING CONSTRUCTION OF THE NEW WATERMAIN. CONTRACTOR IS REQUIRED TO COORDINATE WITH THE OWNER FOR THEIR PREFERRED SUPPORT REQUIREMENTS.
2. WHEN CROSSING A SEWER LINE WITH NEW WATERMAIN (AND WITHOUT A CASING PIPE), ONE FULL LENGTH (18'-0" MIN.) SHALL BE USED AT THE POINT OF CROSSING. THE WATERMAIN SHALL BE PLACED SO THAT BOTH JOINT ENDS ARE AS FAR AS POSSIBLE FROM THE EXISTING SEWER.
3. IF CASING PIPE IS USED, IT SHALL EXTEND 5'-0" BEYOND THE EXISTING PIPE OUTER EDGE IN EACH DIRECTION, AND NO WATERMAIN JOINTS OR FITTINGS SHALL BE LOCATED WITHIN 4'-0" FROM THE CASING PIPE EDGE.

2 / C506 PIPE CROSSING DETAIL

ECWA STANDARD DETAIL



1 / C506 TYPICAL TRENCH DETAIL

ECWA STANDARD DETAIL

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EXP: EXP:

CERTIFICATE OF AUTHORIZATION NUMBER:
PROFESSIONAL ENGINEERING: 0021272
LAND SURVEYING: 0021271
GEOLOGICAL: 0021659

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HOME LEASING
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ROCHESTER, NEW YORK 14604

HOME LEASING
DEVELOPMENT | CONSTRUCTION | MANAGEMENT

WEST SENECA APARTMENTS
2544 CLINTON ST,
WEST SENECA, NY 14224

NO:	DATE:	DESCRIPTION:
Revisions		

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CONSTRUCTION DETAILS

DRAWING NUMBER:

C506

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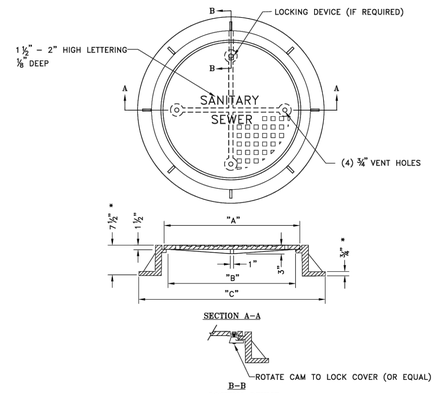
STANDARD FRAME AND COVER (PRIVATE SEWER)
(NOVEMBER 2023)



TABLE

PIPE SIZE	DIMENSION "A"	DIMENSION "B"	DIMENSION "C"	WEIGHT OF COVER
8" THRU 18"	24"	22 1/4"	35"(MAX.)	150 LBS. ± 5%
OVER 18"	32"	30"	46"(MAX.)	200 LBS. ± 5%

STANDARD FRAME AND COVER NOTES

1. MATERIAL: ASTM A48 CLASS 30B CAST IRON CONFORMING TO AASHTO DESIGNATION M105–06.
2. UNIT MUST WITHSTAND H–20 WHEEL LOADING, AND CONFORM TO AASHTO DESIGNATION M306–10.
3. ALL DIMENSIONS ARE TO BE CONSIDERED MINIMUM WITH THE EXCEPTION OF THE COVER, WHICH MUST CONFORM EXACTLY TO MAINTAIN INTERCHANGEABILITY WITHIN THE COUNTY.
4. COVER WEIGHT 210 LBS. (MAX)
5. COATING NOT REQUIRED.
6. FRAMES AND COVERS SHALL HAVE MACHINED BEARING SURFACES.
7. LOCKING DEVICE MUST BE SITUATED TO ALLOW EASY REMOVAL OF COVER.
8. NO COMMERCIAL "BRAND NAME" LETTERING WILL BE ALLOWED ON THE EXPOSED SURFACE OF THE COVER.
9. * 1/2" FLANGE THICKNESS AND 7" HEIGHT ACCEPTABLE IF CLASS 35 CAST IRON MATERIAL PROVIDED.

ERIE COUNTY
DEPT. OF ENVIRONMENT & PLANNING
DIVISION OF SEWERAGE MANAGEMENT

Rev. 1	11/28/13	REVISED NOTES 3 & 2 TO REFERENCE AASHTO STANDARDS & ADDED NOTE 9
Rev. 2		
Rev. 3		
Rev. 4		
File: D–13P	Date: 2/05	

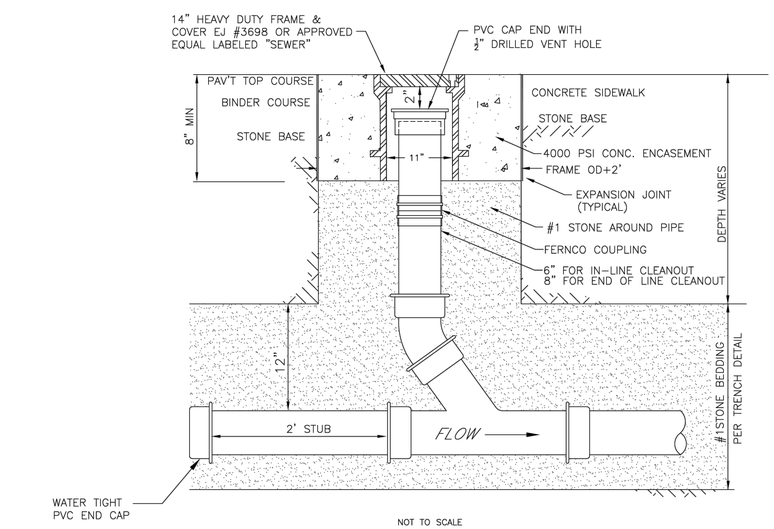
STD.DETAIL 13P

File: V:\DSM\Engineering\CAD\Details\Details November 2023\D–28.dwg, Last saved: 12/6/2023, Plot Date: 2/15/2024, Plot Style: DETAILS.CTB

4 / C507 STANDARD FRAME AND COVER DETAIL

ERIE COUNTY SEWER STANDARD DETAIL

Cleanout in Pavement/Sidewalks
(NOVEMBER 2023)



ERIE COUNTY
DEPT. OF ENVIRONMENT & PLANNING
DIVISION OF SEWERAGE MANAGEMENT

REV 07/99	ADD MIN. DISTANCE AND MARKER	
REV 12/01	ADDED #1 STONE AROUND PIPE	
REV 01/12	REMOVED 2X4 MARKER	
REV 11/23	ADD FERNCO COUPLING & EJ 3698	
File: D–53	Date: 5/13/97	

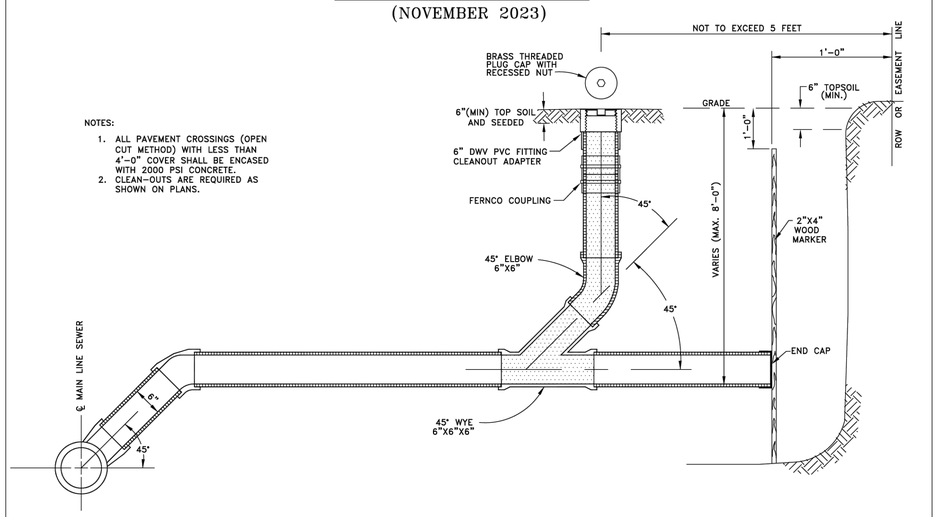
STD. DETAIL 53

File: V:\DSM\Engineering\CAD\Details\Details November 2023\D–53.dwg, Last saved: 12/13/2023, Plot Date: 12/14/2023, Plot Style: DETAILS.CTB

3 / C507 CLEANOUT IN PAVEMENT/SIDEWALK DETAIL

ERIE COUNTY SEWER STANDARD DETAIL

CLEAN–OUT DETAIL FOR SERVICE CONNECTION
(NOVEMBER 2023)



NOTES:

1. ALL PAVEMENT CROSSINGS (OPEN CUT METHOD) WITH LESS THAN 4'–0" COVER SHALL BE ENCASED WITH 2000 PSI CONCRETE.
2. CLEAN–OUTS ARE REQUIRED AS SHOWN ON PLANS.

ERIE COUNTY
DEPT. OF ENVIRONMENT & PLANNING
DIVISION OF SEWERAGE MANAGEMENT

Rev. 1	2/94	CHANGED DIM LINE FOR MAX. DEPTH
Rev. 2	12/01	ADDED NOTE 7
Rev. 3	5/02	CHANGED C.I. CAP TO BRASS
Rev. 4	6/05	1' MIN. FROM EDGE OF WALK NOTE
Rev. 5	1/12	CHANGED C.I. TO BRASS NOTES 1 & 3
Rev. 5	3/24	REVISED NOTES & REMOVED CAST IRON
File: D–28	Date: 3/1/91	

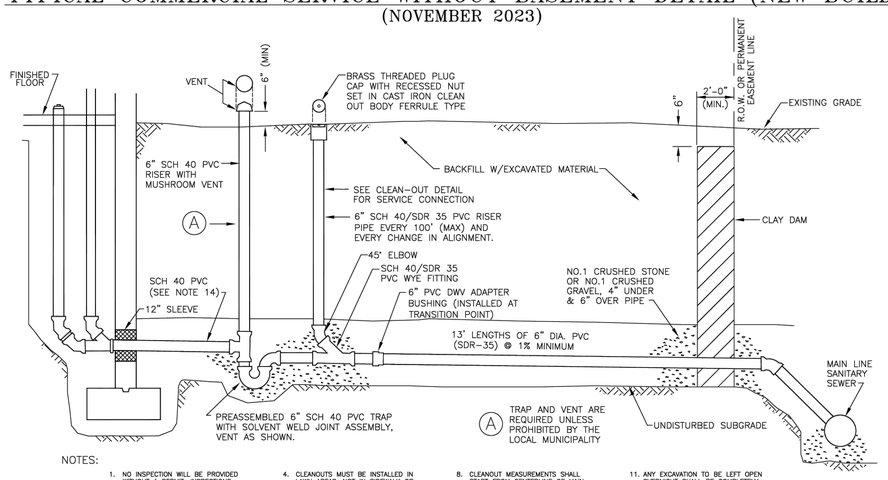
STD. DETAIL 28

File: V:\DSM\Engineering\CAD\Details\Details November 2023\D–28.dwg, Last saved: 3/15/2024, Plot Date: 3/15/2024, Plot Style: DETAILS.CTB

2 / C507 CLEANOUT DETAIL FOR SERVICE CONNECTION

ERIE COUNTY SEWER STANDARD DETAIL

TYPICAL COMMERCIAL SERVICE WITHOUT BASEMENT DETAIL (NEW BUILDS)
(NOVEMBER 2023)



NOTES:

1. NO INSPECTION WILL BE PROVIDED WITHOUT A PERMIT. INSPECTIONS REQUIRE 48 HR. ADVANCE NOTICE FOR SCHEDULING.
2. ALL WORK MUST BE INSPECTED BY A COUNTY INSPECTOR.
3. PVC PIPE MATERIAL SHALL BE MANUFACTURED IN ACCORDANCE WITH THE REQUIREMENTS OF THE LATEST ASTM SPECIFICATION D–3033/D–3034.
4. CLEANOUTS MUST BE INSTALLED IN LAWN AREAS, NOT IN SIDEWALK OR DRIVEWAY AREAS, PREFERABLY BETWEEN THE CURB OR EDGE OF PAVEMENT AND THE SIDEWALK.
5. SELECT BACKFILL REQUIRED UNDER PAVED AREAS.
6. CONCRETE ENCASEMENT IF COVER DEPTH IS LESS THAN 4'–0" UNDER PAVED AREAS.
7. MIN. DEPTH OF COVER 3'–0".
8. CLEANOUT MEASUREMENTS SHALL START FROM CENTERLINE OF MAIN SEWER FOR NEARSIDE LATERALS AND FROM THE 6" CLEANOUT FOR FAR SIDE CONNECTIONS. A CLEANOUT MAY BE REQUIRED FOR ANY ABRUPT CHANGES IN LATERAL DIRECTION FLOW.
9. A 6" CLEANOUT IS REQUIRED AT R.O.W. WHENEVER THE MAIN SEWER IS UNDER THE PAVEMENT LIMITS OR AT FAR SIDE OF PAVEMENT.
10. SEPTIC TANKS MUST BE ABANDONED PER NYSDEC APPROVED METHODS.
11. ANY EXCAVATION TO BE LEFT OPEN OVERNIGHT SHALL BE COMPLETELY ENCLOSED IN FENCING, OR WHERE NECESSARY, COVERED WITH STEEL PLATES.
12. DOWN SPOUTS, SUMP PUMPS, AND FOOTING DRAINS ARE NOT PERMITTED TO BE CONNECTED TO THE LATERAL.
13. NO CONNECTION SHALL BE MADE UNTIL BUILDING ROOF IS ERECTED.
14. IF CAST IRON IS USED EXITING THE BUILDING, A MISSION COUPLING IS REQUIRED BEFORE THE TRAP.

ERIE COUNTY
DEPT. OF ENVIRONMENT & PLANNING
DIVISION OF SEWERAGE MANAGEMENT

Rev. 1/07	REMOVED OLD NOTES 2 AND 18 ADDED 1% MIN. TO SERVICE PIPE DETAIL	
Rev. 11/08	ADDED SLEEVE AND PVC–SDR 35	
Rev. 1/12	REVISED 6" CAST IRON TRAP NOTE	
Rev. 10/21	REMOVED VENT, RISER, AND TRAP ASSEMBLY	
Rev. 11/23	ADDED VENT, RISER, TRAP ASSEMBLY & Ⓐ	
Rev. 3/24	CHANGED VENT, RISER, TRAP ASSEMBLY SCH 40	
File: D–22	Date: 3/1/91	

STD. DETAIL 22

File: V:\DSM\Engineering\CAD\Details\Details November 2023\D–22.dwg, Last saved: 3/15/2024, Plot Date: 3/15/2024, Plot Style: DETAILS.CTB

1 / C507 TYPICAL COMMERCIAL SERVICE WITHOUT BASEMENT DETAIL

ERIE COUNTY SEWER STANDARD DETAIL

NOT FOR CONSTRUCTION

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Buffalo, NY 14202
716-551-6281

labellapc.com

EXP: EXP:

CERTIFICATE OF AUTHORIZATION NUMBER:
PROFESSIONAL ENGINEERING: 0021272
LAND SURVEYING: 0021271
GEOLOGICAL: 0021659

It is a violation of New York Education Law Art. 145 Sec. 7209 & Art. 147 Sec. 7307, for any person, unless acting under the direction of a licensed architect, professional engineer, or land surveyor, to alter an item in any way. If an item bearing the seal of an architect, engineer, or land surveyor is altered; the altering architect, engineer, or land surveyor shall affix to the item their seal and notation "altered by" followed by their signature and date of such alteration, and a specific description of the alteration.

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HOME LEASING
75 S CLINTON AVE SUITE 700,
ROCHESTER, NEW YORK 14604

HOME LEASING
DEVELOPMENT | CONSTRUCTION | MANAGEMENT

WEST SENECA APARTMENTS
2544 CLINTON ST,
WEST SENECA, NY 14224

NO:	DATE:	DESCRIPTION:
Revisions		

PROJECT NUMBER: 2241067

DRAWN BY: EMM / SCB

REVIEWED BY: SRV / DPB

ISSUED FOR: SITE PLAN APPROVAL

DATE: 4/20/2026

DRAWING NAME:

CONSTRUCTION DETAILS

DRAWING NUMBER:

C507

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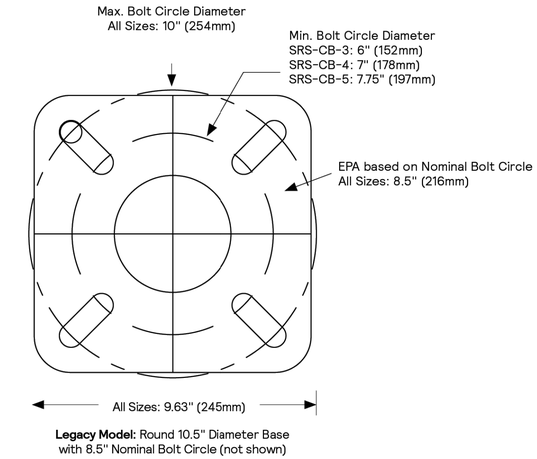
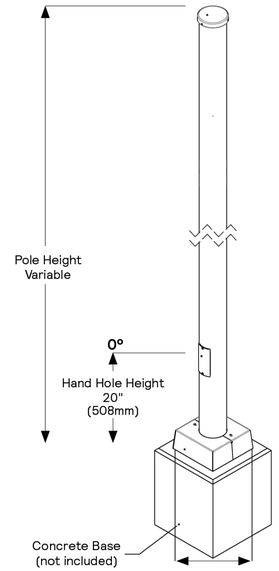


Legacy Model: Round 10.5" Diameter Base with 8.5" Nominal Bolt Circle (not shown)

Section Base



Base Cover Dimensions (L x W x H)
All Sizes: 10.32" x 10.32" x 4.08"
(262mm x 262mm x 104mm)

SRS Legacy Design not shown.
Legacy Base Cover: Round - 10.7" Diameter x 4.5" Height
Hand Hole: 12" Above Base

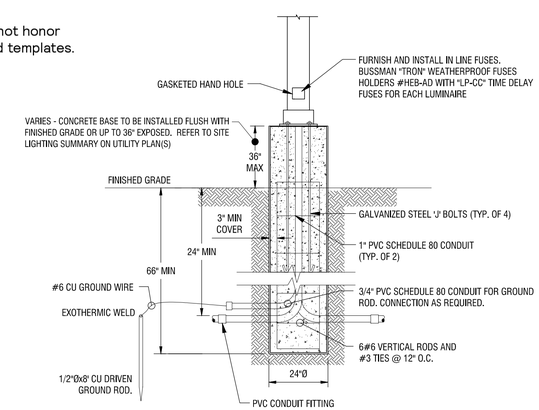
* Anchor Bolt Lock Washers are not normally required and are not included in standard anchor bolt sets. They are available upon request at additional cost.

**Grouting should include a drainage slot or tube (by others) to permit water to drain from the base of the pole. Failure to provide drainage may weaken the pole base structure over time and may result in pole base failure, for which Gardco is not responsible.

NOTE: Factory supplied template must be used when setting anchor bolts. Gardco will not honor any claim for incorrect anchorage placement from failure to use factory supplied templates.

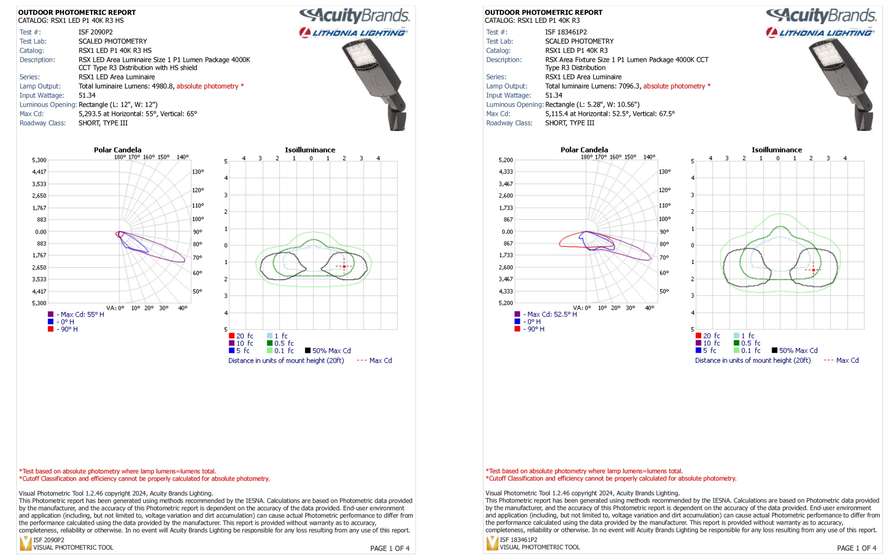
3 / C508 PARKING LOT STEEL POLE (MC-01 POLE)

N.T.S.



2 / C508 TYPICAL SITE LIGHTING POLE BASE DETAIL

N.T.S.



1 / C508 LIGHTING FIXTURES / PHOTO METRICS

N.T.S.

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EXP: EXP:

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HOME LEASING
DEVELOPMENT | CONSTRUCTION | MANAGEMENT

WEST SENECA APARTMENTS
2544 CLINTON ST,
WEST SENECA, NY 14224

NO:	DATE:	DESCRIPTION:
Revisions		

PROJECT NUMBER: 2241067

DRAWN BY: EMM / SCB

REVIEWED BY: SRV / DPB

ISSUED FOR: SITE PLAN APPROVAL

DATE: 4/20/2026

DRAWING NAME:

CONSTRUCTION DETAILS

DRAWING NUMBER:

C508

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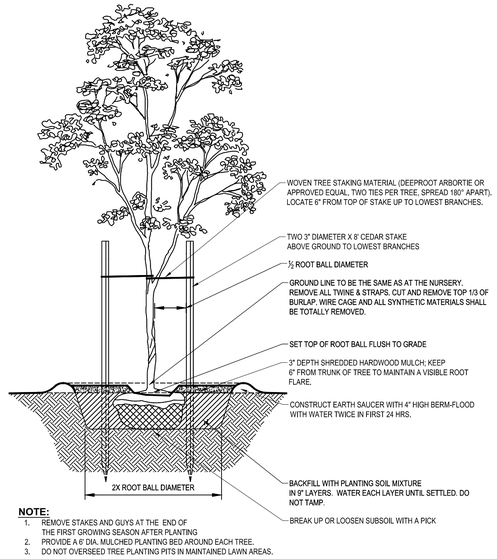
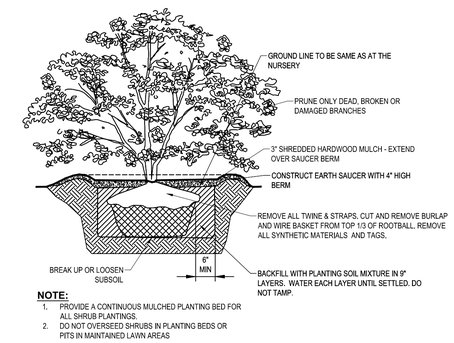
NOT FOR CONSTRUCTION



NOTE:
1. REMOVE STAKES AND GUYS AT THE END OF THE FIRST GROWING SEASON AFTER PLANTING
2. PROVIDE A 6' DIA. MULCHED PLANTING BED AROUND EACH TREE.
3. DO NOT OVERSEED TREE PLANTING PITS IN MAINTAINED LAWN AREAS.

4 / L501 DECIDUOUS TREE PLANTING

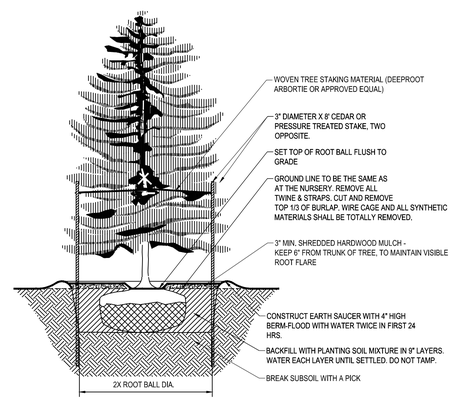
N.T.S.



NOTE:
1. PROVIDE A CONTINUOUS MULCHED PLANTING BED FOR ALL SHRUB PLANTINGS.
2. DO NOT OVERSEED SHRUBS IN PLANTING BEDS OR PITS IN MAINTAINED LAWN AREAS

3 / L501 SHRUB PLANTING

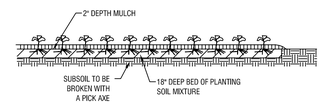
N.T.S.



NOTE:
1. REMOVE STAKES AND GUYS AT THE END OF THE FIRST GROWING SEASON AFTER PLANTING
2. PROVIDE A 8' DIA. MULCHED PLANTING BED AROUND EACH TREE.
3. DO NOT OVERSEED TREE PLANTING PITS IN MAINTAINED LAWN AREAS.

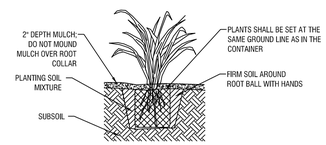
2 / L501 EVERGREEN TREE PLANTING

N.T.S.



NOTE: GROUND COVERS SHALL BE POT OR CONTAINER GROWN.

GROUNDCOVER SECTION



PERENNIAL SECTION

NOTES:
1. PROVIDE 18" DEPTH PLANTING SOIL MIX , ADD FERTILIZER WHEN MIXING. DO NOT COMPACT AFTER PLANTING.
2. WATER THOROUGHLY AFTER PLANTING.
3. PROVIDE WELL DRAINING SUBSOIL WHEN SOIL IS HEAVY OR COMPACTED.
4. PLANTS SHALL BE REMOVED FROM ALL CONTAINERS WHEN PLANTED, UNLESS OTHERWISE STATED IN THE PLANT SCHEDULE.

1 / L501 PERENNIAL - GROUNDCOVER PLANTING

N.T.S.

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EXP: EXP:

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HOME LEASING
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NO:	DATE:	DESCRIPTION:
Revisions		

PROJECT NUMBER: 2241067
DRAWN BY: EMM / SCB
REVIEWED BY: SRV / DPB
ISSUED FOR: SITE PLAN APPROVAL
DATE: 4/20/2026
DRAWING NAME:

LANDSCAPE DETAILS

DRAWING NUMBER:

L501

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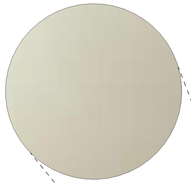
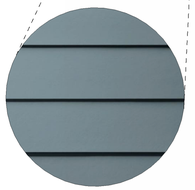
FIBER CEMENT PANEL -
HARDIE "COBBLESTONE"



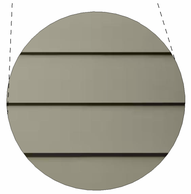
BRICK -
WATSONTOWN "ELK"

FIBER CEMENT BOARD
AND BATTEN -
HARDIE "IRON GRAY"

ALTERNATE MATERIAL:
FIBER CEMENT SIDING
- HARDIE "BOOTHBAY BLUE"



VINYL SIDING - VYTEC
PRESTIGE "LAKESHORE BLUE"



VINYL SIDING - VTEC
PRESTIGE "SPRING MEADOW"

ALTERNATE MATERIAL:
FIBER CEMENT SIDING
- HARDIE "MONTEREY TAUPE"

3D View and Material Palette

Home Leasing - West Seneca

SWBR

4 EXTERIOR ELEVATION - WEST
1/16" = 1'-0"

3 EXTERIOR ELEVATION - NORTH
1/16" = 1'-0"

2 EXTERIOR ELEVATION - EAST
1/16" = 1'-0"

1 EXTERIOR ELEVATION - SOUTH
1/16" = 1'-0"

ELEVATION KEY NOTES

NO.	DESCRIPTION
E1	MASONRY VENEER. COLOR AND PATTERN TBD.
E2	FIBER CEMENT PANEL SYSTEM. COLOR TBD
E3	FIBER CEMENT BOARD AND BATTEN SYSTEM. COLOR TBD
E4	VINYL LAP SIDING, 7" EXPOSURE. COLOR TBD. (ALTERNATE MATERIAL: FIBER CEMENT SIDING)
E5	ALUMINUM STOREFRONT SYSTEM. COLOR AND FINISH TBD.
E6	EXTERIOR WALL SCONCE. FIXTURE TBD.
E7	FRAMED CANOPY W/ GFRC CORNICE
E8	ROOF PARAPET W/ GFRC CORNICE
E9	6" TRIM BOARD
E10	12" TRIM BOARD AND ALUMINUM PARAPET COPING
E11	VINYL DOUBLE HUNG WINDOW. COLOR AND TRIM TBD

Exterior Elevations

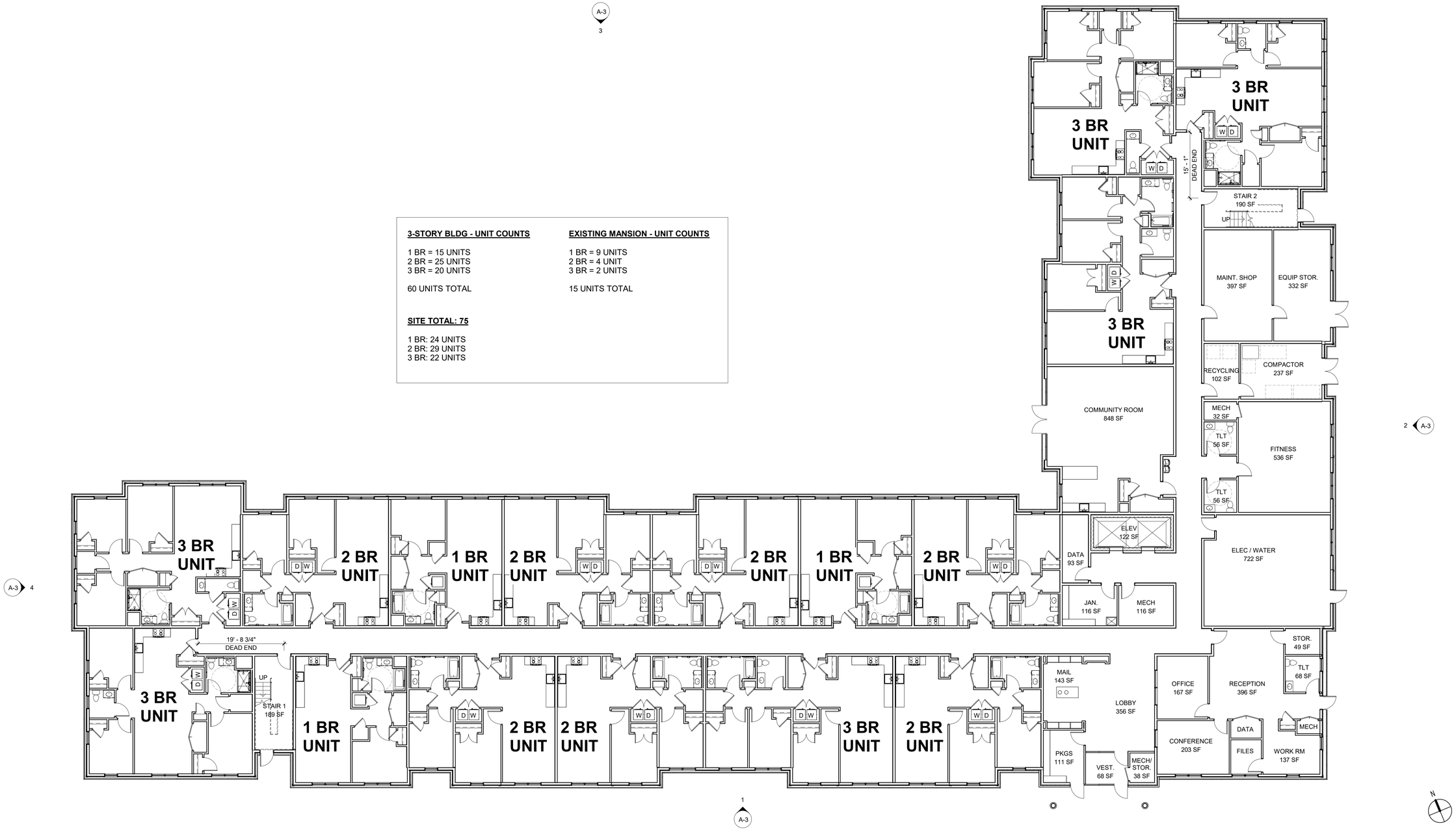
Home Leasing - West Seneca

SWBR

3-STORY BLDG - UNIT COUNTS	EXISTING MANSION - UNIT COUNTS
1 BR = 15 UNITS	1 BR = 9 UNITS
2 BR = 25 UNITS	2 BR = 4 UNIT
3 BR = 20 UNITS	3 BR = 2 UNITS
60 UNITS TOTAL	15 UNITS TOTAL

SITE TOTAL: 75

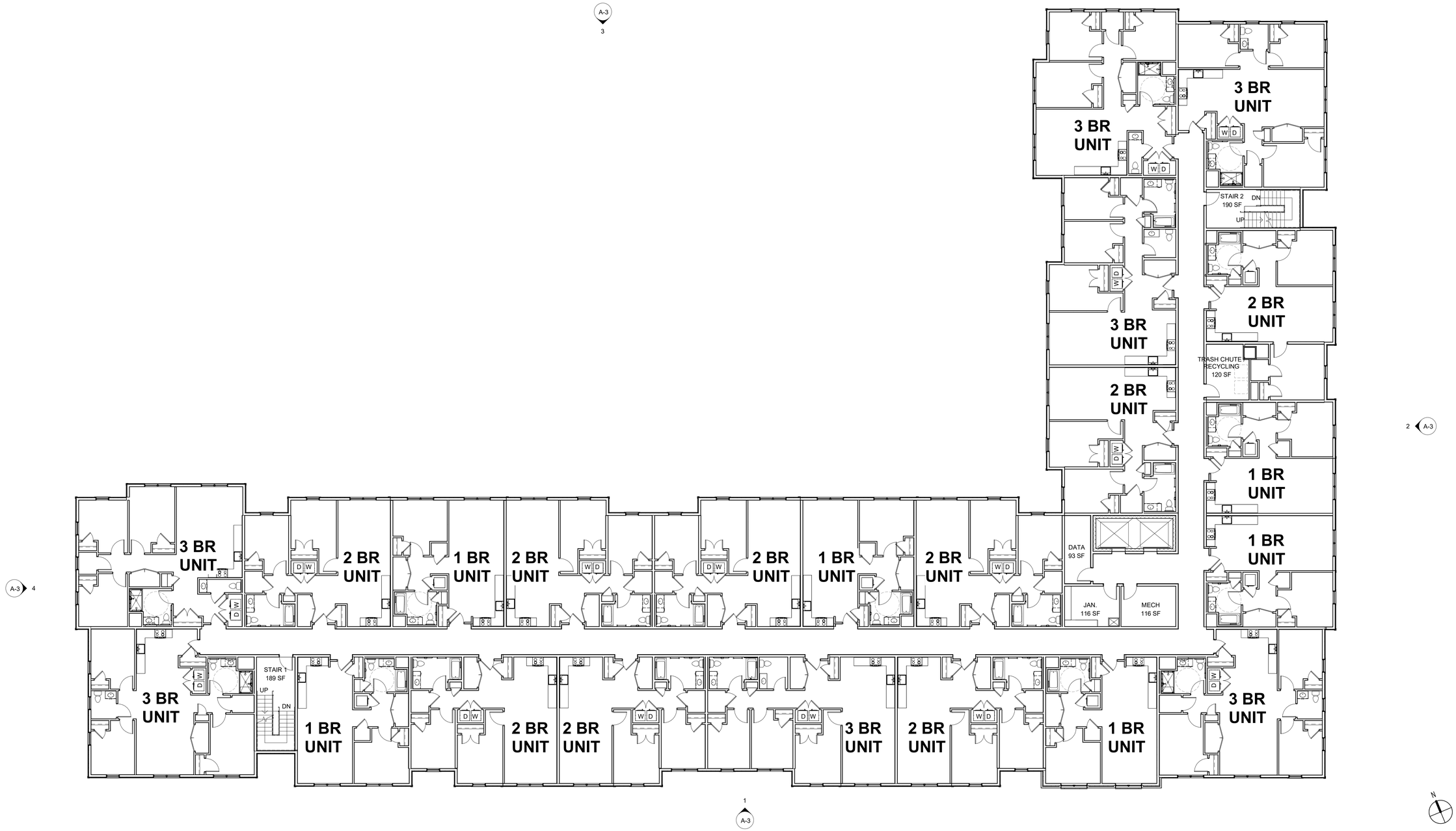
1 BR: 24 UNITS
2 BR: 29 UNITS
3 BR: 22 UNITS



First Floor Plan

Home Leasing - West Seneca

SWBR

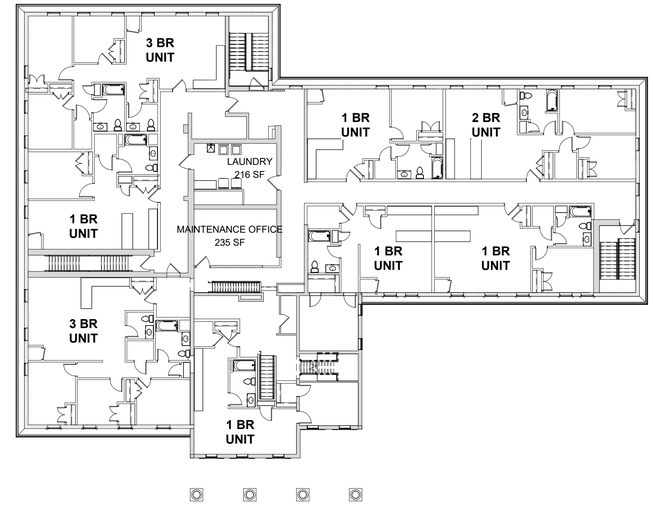


Second and Third Floor Plans

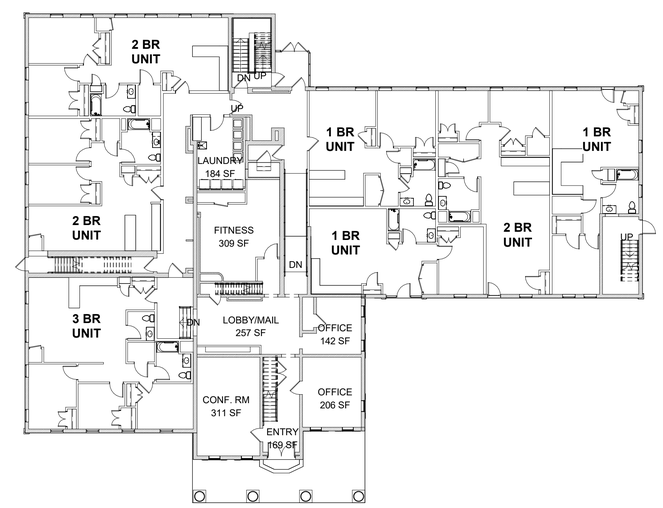
Home Leasing - West Seneca

SWBR

CONCEPTUAL RENDERING



2 SECOND FLOOR PLAN
1/16" = 1'-0"



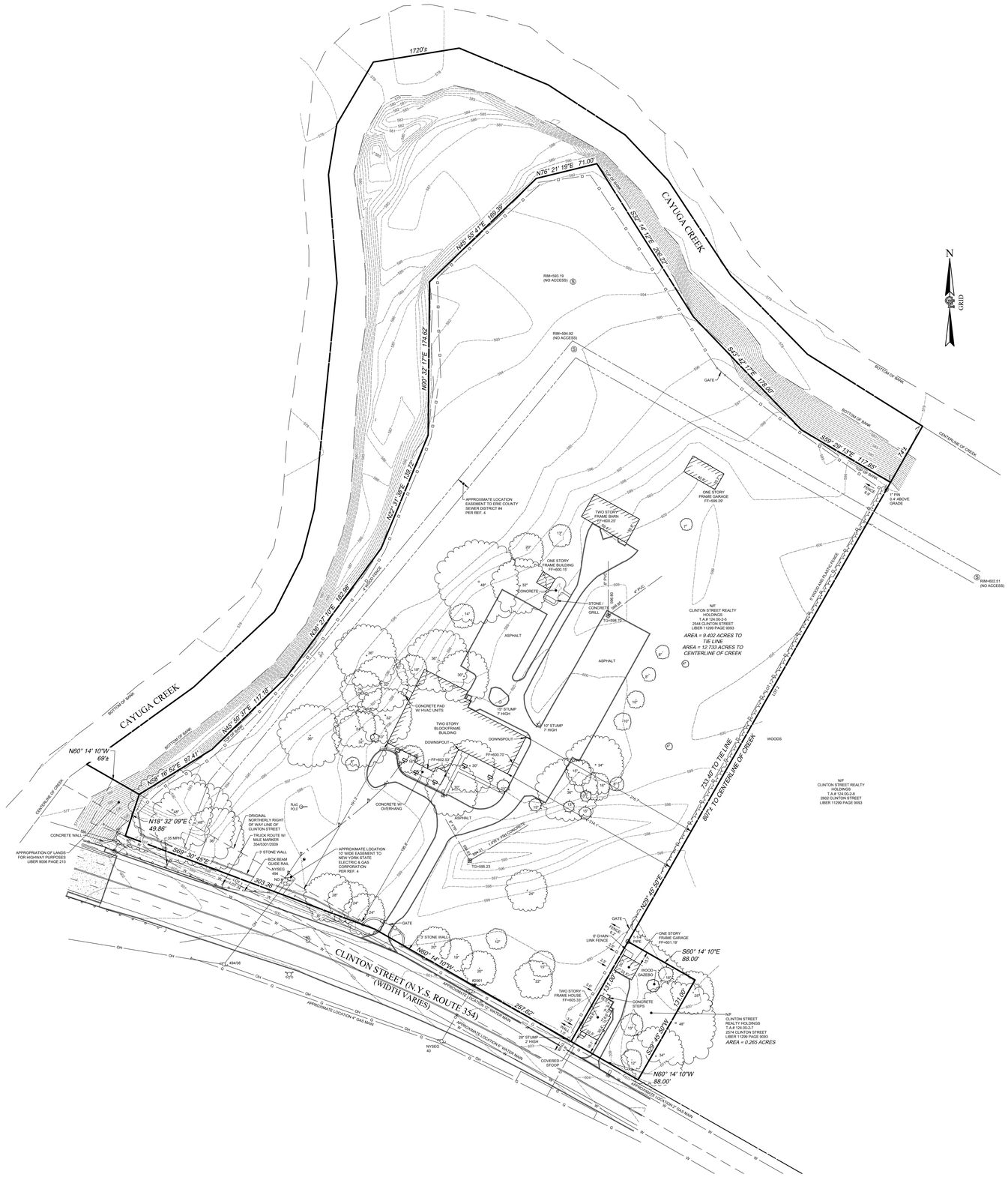
1 FIRST FLOOR PLAN
1/16" = 1'-0"

N

Existing Building Plans and Rendering

Home Leasing - West Seneca

SWBR

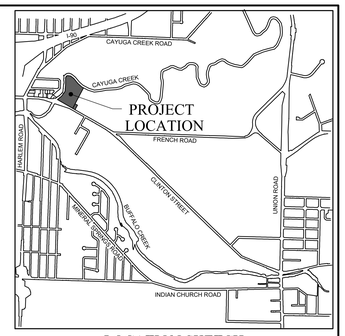


LINE LEGEND

- SECTION/PARCEL BOUNDARY
- MIN. BUILDING SETBACK
- CENTER LINE
- EXIST. EASEMENT LINE
- EXIST. RIGHT-OF-WAY LINE
- EXIST. EDGE OF PAVEMENT
- EXISTING WATER MAIN, VALVE, & HYDRANT.
- EXISTING SANITARY SEWER, & MANHOLE.
- EXISTING DRAINAGE SEWER, FIELD INLET, INLET MANHOLE, MANHOLE, & END SECTION.
- EXISTING OVERHEAD UTILITIES
- EXISTING TELEPHONE
- EXISTING UNDERGROUND UTILITIES
- EXISTING GAS
- EXISTING ELECTRIC
- EXISTING GUARD RAIL
- TREE,HEDGE,EDGE OF WOODS
- EXISTING SWALE
- BARBED WIRE,STOCKADE,CHAIN LINKED FENCE
- 410 — EXISTING CONTOUR
- x 420.4 — EXISTING SPOT ELEVATION @ X
- CONCRETE PAD/ CONCRETE SIDEWALK

SYMBOL LEGEND

- DRAINAGE MANHOLE
- INLET DRAINAGE MANHOLE
- CATCH BASIN
- END SECTION
- END OF PIPE
- MANHOLE
- SANITARY MANHOLE
- C.O. CLEAN OUT
- GAS VALVE
- GAS SERVICE
- GAS METER
- SPRINKLER VALVE
- SPRINKLER HEAD
- WATER VALVE
- WATER SERVICE
- HYDRANT
- WATER METER
- WELL
- BORE
- CABLE TV PEDESTAL
- SIGNAL POLE
- UTILITY POLE
- GUY WIRE
- PULL BOX
- ELEC. ELECTRIC PULL BOX
- TELE. TELEPHONE PULL BOX
- TRAFFIC PULL BOX
- TRANSFORMER
- ELECTRIC MANHOLE
- ELECTRIC METER
- TELEPHONE MANHOLE
- TELEPHONE PEDESTAL
- PEDESTRIAN POLE
- TRAF. SIG. CAB. TRAFFIC CONTROL CABINET
- LAMP POST
- LIGHT POLE
- UTILITY POLE WITH LIGHT
- FLAG POLE FLAG POLE
- MAILBOX
- BOLLARD
- POST
- SIGN
- SIGN
- SIGN
- TURNING ARROW
- HANDICAP
- STOP STOP BAR
- TREE DECIDUOUS
- TREE CONIFEROUS
- BUSH
- AIR CONDITIONING UNIT
- SAN SANITARY UTILITY LATH
- GAS UTILITY LATH
- W WATER UTILITY LATH
- T TELEPHONE UTILITY LATH
- E ELECTRIC UTILITY LATH
- C CABLE UTILITY LATH



LOCATION SKETCH

NOT TO SCALE

UTILITY INFORMATION

UTILITY INFORMATION PER UFPO DESIGN TICKET # 10313-000-071-00
DATED OCTOBER 31, 2023

1.	BUCKEYE PIPELINE COMPANY	610-904-4475
2.	CHARTER COM NORTHEAST WESTERN NY	317-575-7800 x2
3.	ERIE COUNTY DIVISION OF SEWER MANAGEMENT	716-858-8760
4.	ERIE COUNTY WATER AUTHORITY	716-685-8207
5.	NATIONAL FUEL GAS | BUFFALO - NFG101	716-857-7431
6.	NYS THRUWAY AUTHORITY | BUFFALO	716-635-6224
7.	NYSEG LANCASTER ELECTRIC	585-484-5115
8.	TOWN OF CHEEKTOWAGA	716-686-3450
9.	TOWN OF WEST SENECA HIGHWAY	716-674-5600 x261
10.	VERIZON | BUFFALO	315-937-2515

SURVEY NOTES

1. TOPOGRAPHY SHOWN FROM A FIELD SURVEY BY COSTICH ENGINEERING ON 12/8/2023 HORIZONTAL AND VERTICAL DATA OBTAINED THROUGH NYSDOT CORS NETWORK REFERENCED TO THE FOLLOWING MONUMENT

   HAMBURG CORS STATION
   -LATITUDE: 42-43-02.66326 (N) NAD 83 (CORS)
   -LONGITUDE: 078-50-47.27326 (W)
   -ELLIP HEIGHT: 212.494 METERS NAVD 88 (CORS)

SITE DATA

1. EXISTING ZONING: M-1 (MANUFACTURING DISTRICT)
2. BULK REQUIREMENTS:

	REQUIRED
MIN. LOT AREA (SF)	20,000
MAX LOT COVERAGE	N/A
MIN. LOT WIDTH (FT)	100
MAX. BUILDING HEIGHT (FT)	40
MIN. FRONT YARD SETBACK (FT)	50
MIN. SIDE YARD SETBACK (FT)	50
MIN. REAR YARD SETBACK (FT)	10

REFERENCES

1. DEEDS AS SHOWN ON FILE AT THE ERIE COUNTY CLERK'S OFFICE.
2. MAP OF THE EBENEZER LANDS FILED IN THE ERIE COUNTY CLERK'S OFFICE UNDER COVER NO. 58.
3. NEW YORK STATE DEPARTMENT OF TRANSPORTATION ACQUISITION MAP, CLINTON STREET, PART I, S.H. NO. 371, ERIE COUNTY, MAP NO. 44, PARCEL NO. 37., FILED AT LIBER 9006 OF DEEDS, PAGE 213.
4. MAP ENTITLED "BOUNDARY SURVEY OF 2544 CLINTON STREET", PREPARED BY NUSSBAUMER & CLARKE, INC., HAVING JOB NO 15J2-0079, DRAWING NO. SB-2535, DATED 2/4/2015.
5. MAP ENTITLED "BOUNDARY SURVEY OF 2602 CLINTON STREET", PREPARED BY NUSSBAUMER & CLARKE, INC., HAVING JOB NO 15J2-0080, DRAWING NO. SB-2534, DATED 2/4/2015.

CERTIFICATION

WE, COSTICH ENGINEERING, D.P.C., HEREBY CERTIFY TO:

THIS MAP WAS PREPARED FROM NOTES OF AN INSTRUMENT SURVEY COMPLETED ON DECEMBER 8, 2023 AND FROM THE REFERENCE(S) LISTED HEREON. NO SEARCH OF RECORDS, OTHER THAN THOSE REFERENCED, WAS MADE FOR EASEMENTS OR ENCUMBRANCES AFFECTING THIS PARCEL.

PRELIMINARY

By: _____ Date: _____
Daniel T. Hickok, N.Y.S. L.S., No. 050449

FLOOD NOTE:
By graphic plotting only, this property is in Zone X & Zone AE of the Flood Insurance Rate Map No. 36029C0331H Community Panel No. 360262, Town of West Seneca, which bears an effective date of 6/7/2019 and Zone X & Zone AE of the Flood Insurance Rate Map No. 36029C0332H Community Panel No. 360262, Town of West Seneca, which bears an effective date of 6/7/2019, No field surveying was performed to determine this zone and an elevation certificate may be needed to verify this determination or apply for a variance from the Federal Emergency Management Agency.

UDIG-NY

EXISTING UTILITIES (LOCATION, SIZES AND INVERTS) SHOWN ON THE PLANS ARE APPROXIMATE AND ARE NOT CERTIFIED AS TO THE ACCURACY OF THEIR LOCATION OR COMPLETENESS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT LOCATIONS AND DEPTHS OF ALL UTILITIES AND STRUCTURES IN THE PATH OF, OR CLOSELY PARALLEL TO, OR UNDER, THE PROPOSED CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DELAYS OR DAMAGES OCCURRING AS A RESULT OF INCORRECTLY LOCATED UTILITIES. IT IS THE CONTRACTORS RESPONSIBILITY TO NOTIFY THE VARIOUS UTILITY OWNERS IN AMPLE TIME FOR THEM TO LOCATE AND MARK THEIR FACILITIES. THE CONTRACTOR SHALL ALSO NOTIFY UNDERGROUND UTILITY LOCATION SERVICE AT LEAST 48 HOURS IN ADVANCE OF COMMENCING ANY WORK.

GRAPHIC SCALE
50 0 25 50 100 200
(IN FEET)
1 inch = 50 ft.

NO.	DATE	REVISION	BY	CHKD.	APVLS.

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IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, LAND SURVEYOR, ARCHITECT OR LANDSCAPE ARCHITECT, TO ALTER ANY ITEM ON THIS DOCUMENT. IN ADDITION, ANY LICENSEE WHO ALTERS THIS DOCUMENT IS REQUIRED BY LAW TO AFFIX HIS/HER SEAL AND THE NOTATION "ALTERED BY", FOLLOWED BY HIS/HER SIGNATURE AND SPECIFIC DESCRIPTION OF THE ALTERATION TO THE DOCUMENT.

STATE OF NEW YORK · DANIEL T. HICKOK · 050449 · LICENSED LAND SURVEYOR

PROJECT MANAGER	D.T.H.
DRAWN BY	K.E.L.
BOUNDARY	G.M.S.
TOPOGRAPHY	M.G.
DATE	12/18/2023
SCALE	1"=50'

COSTICH ENGINEERING
217 LAKE AVENUE
ROCHESTER, NY 14608
(585) 458-3020

- CIVIL ENGINEERING
- LAND SURVEYING
- LANDSCAPE ARCHITECTURE

TITLE OF PROJECT: 2544 & 2574 CLINTON STREET PROPERTIES
WEST SENECA

TITLE OF DRAWING: EXISTING FEATURES

LOCATION OF PROJECT: TAX PARCEL NO'S 124.00-2-5 & 124.00-2-7
PART OF LOTS 1,2, & 34 OF THE EBENEZER LANDS,
LOT 123, TOWNSHIP 10, RANGE 7, BUFFALO CREEK RESERVATION,
TOWN OF WEST SENECA, COUNTY OF ERIE, STATE OF NEW YORK

CLIENT: LABELLA ASSOCIATES
300 STATE STREET - SUITE 201
ROCHESTER, NEW YORK 14614

DWG. # 9263
VA100
SHEET 1 OF 1

Prepared For:
Home Leasing, LLC
75 South Clinton Avenue, Suite 700
Rochester, NY 14604

Submitted by:
LaBella Associates
300 State Street, Suite 201
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(716) 551-6281

LaBella
Powered by partnership.

ENGINEERING REPORT FOR WEST SENECA

Date: October 2024

Last Revised: April 2026

LBA Project No. 2241067

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Section 1 – Introduction

Home Leasing is proposing the development of a new affordable housing complex on a +/- 12.7-acre parcel in West Seneca, NY. Home Leasing is also seeking Site Plan Approval from West Seneca and HCR 9% funding from New York State. The proposed development includes 75 units split between a repurposing of the existing mansion on site to and a new 3-story apartment building in the rear of the property. The project includes a private road accessing the apartments, parking, sidewalks, playground, landscaping and stormwater management facilities.

1.1 Site Location

The 12.7-acre site is nestled between Clinton Street (State Route 354) to the south and Cayuga Creek to the North and West. Within a quarter mile of the development there are multiple commercial uses and Interstate 90. The neighborhood is predominately comprised of agricultural land, single- and two-family homes and industrial/manufacturing facilities. See appendix A for location site map.

Section 2 – General

2.1 Existing Site Conditions

The existing site includes the above-mentioned mansion, two barns, a stone wall along Clinton Street and parking areas. The barns and parking areas will be demolished, while the existing stone wall will remain, with the entrance being widened to allow for emergency vehicle access to the site.

The site topography is relatively flat with elevations generally ranging from 600 to 580. Storm water runoff from site drains either via sheet flow directly to Cayuga Street, or to drainage inlets that drain to Cayuga Creek. The existing drainage system on site is minimal and consists of a small swale and dry detention basis which collects and re-directs off-site drainage from the east. Drainage is then conveyed to Cayuga Creek via storm pipes and open drainage swales.

2.2 Proposed Site Conditions

The proposed development includes 75 units split between a repurposing of the existing mansion on site to now include apartments and one apartment building in the rear of the property.

Project Data:

Facility Type:	Affordable Housing
No. of Buildings:	2 (Including one existing)

Section 3 – Proposed Sanitary Facilities

3.1 Building Utility Services – Sanitary

The following summarizes the sanitary sewer service sizes for each building.

Table 1: Sanitary Lateral Sizes

Building #	Description	Sanitary Lateral Size
1	Existing Mansion	6"
2	Proposed Building	6"

3.2 Sanitary Sewer

The project requires a Down Stream Sewer Capacity analysis (DSCA) to conform with NYSDEC regulations considering proposed sanitary flows are intended to convey a flow greater than 2,500 gallons per day.

In accordance with Erie County policy a downstream, dry weather sanitary capacity analysis is included. The monitoring report is included in the appendices.

Based on the flow depth measurements recorded the following conclusions are reached:

- At no time did the flow depth exceed pipe diameter at any of the downstream monitoring points during the wet weather events monitored.
- One time during the monitoring period the depth of flow exceeded the diameter of the pipe.

3.3 DSCA Summary

Erie County provided three (3) nodes, described below:

- Flow Monitoring Period: August 13, 2024, to September 18, 2024
- Dry Week Days Monitored: Aug 13-15, Aug 20-23, Aug 26-30, Sept 2-5, Sept 10-13, and Sept 16-18.
- Dry Weekend Days Monitored: Aug 24-25, Sept 8, and Sept 14-15.

Nodes (manholes):

- Node 1 MH BAA8A – 48" RCP (Matthews Cemetery NW Corner)
- Node 2 MH BAA9A – 60" RCP (Casimer Street)
- Node 3 MH BAAA8 – 66" RCP (8 Cable Street)

Design Parameters:

Hydraulic Loading rates per NYS Design Standards for Intermediate Wastewater Treatment Systems, March 5, 2014. Calculations included below:

Apartments – Bedroom Units = 110 gpd/unit
Office Space= 15 gpd / employee

Average Daily Design Flow:

One Bdrm Units:(24 units) x (1 bdrm/unit)x 110gpd/bdrm=2,640 gpd
Two Bdrm Units:(29 units) x (2 bdrm/unit)x110gpd/bdrm=6,380 gpd

Three Bdrm Units:(22 units) x (3 bdrm/unit)x110gpd/bdrm=7,260 gpd
Office Space: 4 Employees x 15 gpd = 60 gpd
Total = 16,340 gpd

Peak Hourly Flow (Sanitary): 16,340 gpd x Peak Factor
Total Population=[(24x1)+(29x2)+(22x3)]x2 people per bedroom=
=148x2= 296People (assume 2 people per bedroom)+4 office employees=300. P = 0.300 (in thousands)
Peaking Factor = (18 + √P) / (4+√P) = (18+0.548)/(4+0.548)=4.08
Peak Sanitary Demand =16,340x 4.08 = 66,667 gpd
0.06667 MGD
(0.10 CFS)

Sanitary Demand Calculations:
Node 1 – Average 16,340 gpd (0.016 MGD)

Entire Site:
110-gal/d/unit x 1bdrmx24 units=2,640 gpd
+ 110-gal/d/unit x 2bdrmx29 units=6,380 gpd
+110-gal/d/unitx3bdrmx22 units=7,260 gpd
4 employees x 15 gpd=60 gpd
Site total= 16,340 gpd

Ave. Total = 16,340 gpd (0.016 MGD)
Assume 2 people per bedroom. 2 x 148 bedrooms = 296 people + 4 office employees = 300 people. P = 0.300 (in thousands)
Peaking Factor = (18 + √P) / (4+√P) = 4.08
Peak Sanitary Demand = 16,340 x 4.08 = 66,667 gpd
0.06667 MGD
(0.10 CFS)

Node 2 – Average 16,340 gpd (0.016 MGD)

Entire Site:
110-gal/d/unit x 1bdrmx24 units=2,640 gpd
+ 110-gal/d/unit x 2bdrmx29 units=6,380 gpd
+110-gal/d/unitx3bdrmx22 units=7,260 gpd
4 employees x 15 gpd=60 gpd
Site total= 16,340 gpd
Ave. Total = 16,340 gpd (0.016 MGD)
Assume 2 people per bedroom. 2 x 148 bedrooms = 296 people + 4 office employees = 300 people. P = 0.300 (in thousands)
Peaking Factor = (18 + √P) / (4+√P) = 4.08
Peak Sanitary Demand = 16,340 x 4.08 = 66,667 gpd
0.06667 MGD
(0.10 CFS)

Node 3 – Average 16,340 gpd (0.016 MGD)

Entire Site:
110-gal/d/unit x 1bdrmx24 units=2,640 gpd
+ 110-gal/d/unit x 2bdrmx29 units=6,380 gpd
+110-gal/d/unitx3bdrmx22 units=7,260 gpd
4 employees x 15 gpd=60 gpd
Site total= 16,340 gpd

Ave. Total = 16,340 gpd (0.017 MGD)
Assume 2 people per bedroom. 2 x 148 bedrooms = 296 people + 4 office employees = 300 people. P = 0.300 (in thousands)
Peaking Factor = (18 + √P) / (4+√P) = 4.08
Peak Sanitary Demand = 16,340 x 4.08 = 66,667 gpd
0.06667 MGD
(0.10 CFS)

Table 2: Dry Weather Peak Weekday

Node	Sewer	Ave. Daily Flow (mgd)	Existing Peak Flow (mgd)	Proposed Peak Sanitary Flow (mgd)	Total Peak Flow (mgd)	Theoretical Capacity (mgd)	Available Capacity (Y/N)
1-MH BAA8A	48" RCP @ 0.41% (Matthews Cemetery NW Corner)	0.016	7.953*	0.067	8.020	59.6	Y
2-MH BAA9A	60" RCP @ 0.042% (Casimer Street)	0.016	11.619**	0.067	11.686	34.6	Y
3-MH BAAA8	66" RCP @ 0.026% (8 Cable Street)	0.016	10.614***	0.067	10.614	35.1	Y

Notes:
***Peak Dry Week Day for Nodes 1 on Aug 27,2024**
****Peak Dry Week Day for Node 2 on Aug 21,2024**
*****Peak Dry Week Day for Node 3 on Aug 21,2024**

Table 3: Dry Weather Peak Weekend Day

Node	Sewer	Ave. Daily Flow (mgd)	Existing Peak Flow (mgd)	Proposed Peak Sanitary Flow (mgd)	Total Peak Flow (mgd)	Theoretical Capacity (mgd)	Available Capacity (Y/N)
1-MH BAA8A	48" RCP @ 0.41% (Matthews Cemetery NW Corner)	0.016	6.070*	0.067	6.137	59.6	Y

2-MH BAA9A	60" RCP @ 0.042% (Casimer Street)	0.016	11.972**	0.067	12.039	34.6	Y
3-MH BAAA8	66" RCP @ 0.026% (8 Cable Street)	0.016	11.615***	0.067	11.682	35.1	Y

Notes:
***Peak Dry Weekend Day for Nodes 1 on Aug 25,2024**
****Peak Dry Weekend Day for Node 2 on Sept 14,2024**
*****Peak Dry Weekend Day for Node 3 on Sept 14,2024**

3.5 DSCA CONCLUSION

Based on the analysis and flow monitoring results the flow depth peak increases are described below. The combined sewer has sufficient capacity to handle projected peak flows.

- Node 1 projected peak 0.067 MGD flow (0.10 CFS) result in approximately a 1.6 inch water level increase within the 48" RCP sewer.
- Node 2 projected peak 0.067 MGD flow (0.10 CFS) result in approximately 2.6 inch water level increase within the 60" RCP sewer.
- Node 3 projected peak 0.067 MGD flow (0.10 CFS) result in approximately 2.9 inch water level increase within the 66" RCP sewer.

Full sewer calculations including – TECsmith Flow Monitoring Data, TECsmith Time Tables, Eire County Flow Monitoring and Erie County Time Tables are included in the Full Sewer Report which was previously provided to the town as a part of the Special Use Permit review process.

Section 4 – Proposed Stormwater Facilities

4.1 Proposed Stormwater Loading

A Stormwater Pollution Prevention Plan (SWPPP) has been developed as part of this project and is included under a separate cover. The proposed on-site storm system will outlet to Cayuga Creek. The stormwater design meets the Town of West Seneca Town Code (2025-09-08) - Chapter 102A Stormwater Management and Erosion and Sediment Control and the NYSDEC 2024 Stormwater Design Manual Regulations. However, pertinent information pertaining to existing and proposed stormwater loading has been included for analysis in the table below.

4.2 Required WQv

Stormwater runoff from impervious surfaces is recognized as a significant contributor of pollution that can adversely affect the quality of receiving water bodies. Therefore, treatment of stormwater runoff is important since most runoff related water quality contaminants are

transported from land, particularly the impervious surfaces, during the initial stages of storm events.

The Design Manual requires that water quality treatment be provided for the initial flush of runoff from every storm. The NYSDEC refers to the amount of runoff to be treated as the "Water Quality Volume" (WQv). Section 4.2 of the Design Manual defines the Water Quality Volume as follows:

$$WQv = \frac{[(P)(R_v)(A)]}{12}$$

Where: P = 90% Rainfall Event Number
R_v = 0.05 + 0.009 (I)
I = Impervious Cover (Percent)
A = Contributing Area in Acres

This definition ensures that, all other things being equal, the Water Quality Volume will increase along with the impervious cover percentage. This redevelopment project is proposing a combination of WQv treatment by standard practice(s) and alternative practice(s) as shown in the following tables:

Table 4: Required WQv Summary

P (inches)	A (Ac)	I (Ac)	Rv	WQv Required (cf)
1.00	5.68	2.98	0.29	8,672

4.3 RRv Requirements

Land use change and development in the watershed increases the volume of runoff. As such, reductions in the amount of runoff from new development, accomplished through the implementation of a stormwater management plan for the site, will play an important role in the success or failure of the watershed-wide stormwater management plan. Runoff reduction techniques can be applied to manage, reduce, and treat stormwater, while maintaining and restoring natural hydrology through infiltration, evapo-transpiration, and the capture and reuse of stormwater. Volume reduction techniques by themselves typically are not sufficient to provide adequate attenuation of stormwater runoff, but they can decrease the size of the peak runoff rate reduction facilities.

Section 9.2.1.B of the 2024 NYSDEC Design Manual indicates, "Although encouraged, meeting the RRv criteria is not required for the redevelopment activity portion of a project. The need to provide RRv shall be considered separately for each design point. For design points with a net increase in impervious area, RRv is required for the increase in impervious area only."
As such, bioretentions and a water quality unit have been applied to the project to meet the WQv objective for the redevelopment activity of the project. The increase in impervious cover will be treated as new development and both the WQv criteria and RRv criteria are met. The table below indicates the required RRv for the site.

Table 5: Required RRv

Total Increase in Impervious Area (Ac)	Soil Group A (%)	Soil Group B (%)	Soil Group C (%)	Soil Group D (%)	Rv	Weighted S Factor	Minimum RRv Required (cf)
1.92	0	0	0	100	0.95	0.20	1,324

4.4 Provided WQv and RRv

The following table summarizes both the water quality volume and reduced runoff volume provided by each practice:

Stormwater Practice	WQv Treated (cf)	RRv Provided (cf)
Bioretention (3 total areas)	3,338	1,337
Water Quality Unit	6,627	0
Total	9,965	1,337

Based on the above table, the WQv and RRv requirements are being met.

4.5 Discharge Rates

A comparison of the pre- and post-development watershed conditions was performed for all Design Points and storm events evaluated. For all Design Points and design storms, this comparison demonstrates that the peak rate of runoff will not be increased. Therefore, the project will not have a significant adverse impact on the adjacent or downstream properties or receiving water courses.

The results of the computer modeling used to analyze the pre- and post-development watersheds are presented in the following table below:

Table 6: Summary of Pre-Development and Post-Development Peak Discharge Rates

Analysis Point (AP)	10-year 24-hour storm event		100-year 24-hour storm event	
	Pre	Post	Pre	Post
1	16.3	13.9	36.8	31.7

Based on the table above, the proposed stormwater flows have been reduced for all storm events to below pre-development conditions.

A full stormwater pollution prevention plan per NYS Stormwater Design Manual, NYSDEC SPDES General Permit for Stormwater Discharge from Construction Activity and NYSDEC

Standards and Specifications for Erosion and Sediment Control has been prepared for this project. The SWPPP is included in the Site Plan Application Package.

Section 5 – Proposed Water Facilities

5.1 Proposed Water Connections

The project is proposing a new water connection to the Eire County Water Authority (EWCA) 12" water main on the north side of Clinton Street.

5.2 Existing Flow Test Data

Existing hydrant flow test data was provided for hydrant J11F55 and completed on 7/15/2019. The existing water line is a 6" cast iron pipe on the south side of Clinton Street. The residual pressure was 54 psi at 872 gpm.

5.3 Proposed Water Demand

The anticipated average daily water demand from the proposed development was calculated using Table B-3 of the NYSDEC Design Standards for Intermediate Sized Wastewater Treatment Systems, dated March 5, 2014. For apartments constructed after 1994, the average daily water demand per bedroom is 110-gallons per day. The proposed project includes updating all water fixtures to modern energy efficient fixtures. Based on this, the anticipated average daily water demand for the proposed development is as follows:

Table 7: Anticipated Water Demand

No. of Bedrooms	No. of Units	Water Demand Per Unit (GPD)	Average Daily Demand (GPD)
1 Bedroom	24	110	2,640
2 Bedroom	29	220	6,380
3 Bedroom	22	330	7,260
		Total Average Daily Demand	16,340
		Maximum Day (2x Average Daily)	32,680
		Peak Hourly (4x Average Daily)	35,360

5.4 Proposed Fire Protection and Backflow

The project is proposing one combined service from Clinton Street, which will split into combined services feeding the existing mansion and new building respectively. New backflow prevention devices are proposed for each of the buildings, splitting into separate domestic and fire services after the backflows. The domestic services will be metered within each building. The private hydrants on site will be fed after the backflow within each building. Refer to the MEP and FP plans for detailed design.

Stormwater Pollution Prevention Plan

Prepared for:
Home Leasing
75 South Clinton Avenue, Suite 700,
Rochester, NY 14604

Submitted by:
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300 Pearl Street, Suite 130
Buffalo, NY 14202
(716) 551-6281

LaBella
Powered by partnership.

West Seneca Apartments

Town of West Seneca, Erie County, New York

DATE: APRIL 2026
LAST REVISED: APRIL 2026
PROJECT NO. 2241067

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PREPARER OF THE SWPPP

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Name and Title[1]: Kristopher Winkler, PE

Date: Issued: April 2026

[1] This is a signature of a New York State licensed Professional Engineer employed by LaBella Associates that is duly authorized to sign and seal Stormwater Pollution Prevention Plans (SWPPPs), NOIs, and NOTs prepared under their direct supervision. Refer to Appendix B for the SWPPP Preparer Certification Form, and Appendix I for the LaBella Certifying Professionals Letter.

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Appendix B: Forms

- Notice of Intent (NOI)
- MS4 SWPPP Acceptance Form
- SWPPP Preparer Certification Form
- Owner/Operator Certification Form
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Appendix C: Project Evaluation and Design Calculations

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Appendix H: NYSDEC "Deep-Ripping and Decompaction," April 2008

Appendix I: LaBella Certifying Professionals Letter

Appendix J: NYSDEC SPDES General Permit GP-0-25-001

1.0 EXECUTIVE SUMMARY

This Stormwater Pollution Prevention Plan (SWPPP) has been prepared for major activities associated with construction of a 75-unit affordable housing complex and related site work in the Town of West Seneca. This SWPPP includes the elements necessary to comply with the national baseline general permit for construction activities enacted by the U.S. Environmental Protection Agency (EPA) under the National Pollutant Discharge Elimination System (NPDES) program and all local governing agency requirements. This SWPPP must be executed, and permit coverage must be obtained prior to the commencement of construction activity.

This SWPPP has been developed in accordance with the "New York State Department of Environmental Conservation (NYSDEC) State Pollutant Discharge Elimination System (SPDES) General Permit for Stormwater Discharges from Construction Activity," Permit No. GP-0-25-001, effective January 29, 2025 through January 28, 2030. The SWPPP and accompanying plans identify and detail stormwater management, pollution prevention, and erosion and sediment control measures necessary during and following completion of construction.

This SWPPP and the accompanying plans entitled "West Seneca Apartments" have been submitted as a set. These engineering drawings are considered an integral part of this SWPPP. Therefore, this SWPPP is not considered complete without them. References made herein to "the plans" or to a specific "sheet" refer to these drawings.

This report considers the impacts associated with the intended development with the purpose of:

1. Maintaining existing drainage patterns as much as possible while continuing the conveyance of upland watershed runoff;
2. Controlling increases in the rate of stormwater runoff resulting from the proposed development so as not to adversely alter downstream conditions; and
3. Mitigating potential stormwater quality impacts and preventing soil erosion and sedimentation resulting from stormwater runoff generated both during and after construction.

The analysis and design completed and documented in this report is intended to be part of the application made for a multi-family residential redevelopment project with an increase in impervious area completed on behalf of the Owner/Operator.

1.1 Project Description

Home Leasing is proposing redevelopment project with an increase in impervious area, to include: 75-unit affordable housing building, associated parking, sidewalks, and landscaping. The total project area of disturbance proposed is 5.7 acres. The project will disturb one (1) or more acres and as such, preparation of this SWPPP is required under GP-0-25-001. A Site Location Map has been provided in Appendix A, as Figure A-1.

This type of project is included in Table 2 of Appendix B of GP-0-25-001; and the project site is not located in one of the watersheds listed in Appendix C of GP-0-25-001. Therefore, this SWPPP includes post-construction stormwater management practices, as well as erosion and sediment controls.

project is located within the Town Of West Seneca regulated, traditional land use control Municipal Separate Stormwater Sewer System (MS4). Therefore, an MS4 SWPPP Acceptance Form is required to accompany NOIs submitted to the NYSDEC.

Runoff from the project site will discharge to the Cayuga Creek, which is not included in the list of Section 303(d) water bodies included in Appendix D of GP-0-25-001.

Project construction activities will consist primarily of site grading, paving, building construction, and the installation of storm drainage, water supply, sanitary sewer, and public utility infrastructure necessary to support the proposed redevelopment project with an increase in impervious area. Construction phase pollutant sources anticipated at the site are disturbed (exposed) soil, vehicle fuels and lubricants, chemicals associated with building construction, and building materials. Without adequate control there is the potential for each type of pollutant to be transported by stormwater.

1.2 Stormwater Pollution Controls

The stormwater pollution controls outlined herein have been designed and evaluated in accordance with the following standards and guidelines:

- New York State Stormwater Management Design Manual, dated July 31, 2024 (Design Manual).
- New York State Standards and Specifications for Erosion and Sediment Control, dated November 2016 (SSESC).
- Town of West Seneca Town Code (2025-09-08) - Chapter 102A Stormwater Management and Erosion and Sediment Control

Stormwater quality will be enhanced through the implementation of temporary and permanent erosion and sediment control measures, the proposed stormwater management practice(s), and other construction-phase pollution controls outlined herein.

The proposed stormwater management approach consisting of pipes, open drainage ways, and on-site stormwater management practices will adequately collect, treat, and convey the stormwater runoff.

Bioretentions and a water quality unit will be used to manage and treat stormwater runoff generated by the proposed redevelopment project with an increase in impervious area.

Pre- and post-development surface runoff rates have been evaluated for the 1-, 10-, and 100-year 24-hour storm events. Comparison of pre- and post-development watershed conditions demonstrates that the peak rate of runoff from the project site will not be increased.

The pollutant loading analysis indicates stormwater quality will be enhanced through the implementation of the proposed stormwater management practices outlined herein.

The post-construction stormwater management practice(s) will be privately owned by Home Leasing. Deed restrictions will be in place, which require operation and maintenance of the practice(s) in accordance with the operation and maintenance plan.

2.0 SITE CHARACTERISTICS

2.1 State Environmental Quality Review

The construction activity is subject to State Environmental Quality Review (SEQR). The project is considered a Unlisted action. As such, SEQR coordination has been completed. Negative Declaration issued on 1/27/2025, amended on 2/9/2026. A copy of the SEQR documentation, in accordance with Part I.A.5. of GP-0-25-001, is provided in Appendix A, as Figure A-5 upon receipt.

2.2 Land Use and Topography

The project site is located within the R-50 zoning district. Multiple-family dwellings is a permitted use subject to a special use permit within this district. Special Use Permit was obtained on 2/9/2026.

The overall site is slightly sloping, with slopes ranging from 1 to 10 percent. Site elevations range from approximately 580 feet above mean sea level (MSL) to 600 feet MSL. The site generally slopes to the north and the west towards Cayuga Creek.

2.3 Soils and Groundwater

The US Department of Agriculture (USDA) Web Soil Survey (http://websoilsurvey.nrcs.usda.gov/app/) was used to obtain surficial soil conditions for the study area, as follows:

Table 1: USDA Soil Data

Map Symbol & Description	Hydrologic Soil Group	Erosion Factor K	Depth to Water Table (feet)	Depth to Bedrock (feet)
Fu - Fluvaquents and Udifluvents, frequently flooded	A/D	0.17	0.50	>6.0
GaA - Galen very fine sandy loam, 0 to 3 percent slopes	A/D	0.37	1.75	>6.0
GaB - Galen very fine sandy loam, 3 to 8 percent slopes	A/D	0.37	1.75	>6.0
Te – Teel silt loam	B/D	0.37	1.75	>6.0

Upon review of the soil data presented in Table 1, the project site does not contain soils with a soil slope phase of D with a map unit name that inclusive of slopes greater than 25%, and does not contain soils with a soil slope phase of E or F.

The project site is composed of HSG A soils, HSG B soils, and HSG D soils, as shown in the table below. For the purposes of this report, HSG X/D soils were modeled as HSG D soils to reflect the undrained condition.

Table 2: Project Site HSG Data

HSG A	HSG B	HSG C	HSG D
0%	0%	0%	100%

The Soil Conservation Service defines the hydrologic soil groups as follows:

- Type A Soils: Soils having a high infiltration rate and low runoff potential when thoroughly wet. These soils consist mainly of deep, well drained to excessively drained sands or gravelly sands. These soils have a moderate rate of water transmission.
- Type B Soils: Soils having a moderate infiltration rate when thoroughly wet and consisting mainly of moderately deep to deep, moderately well to well drained soils with moderately fine to moderately course textures. These soils have a moderate rate of water transmission.
- Type D Soils: Soils having a very low infiltration rate and high runoff potential when thoroughly wet. These soils consist chiefly of clays that have high shrink-swell potential, soils that have a permanent high water table, soils that have a clay pan or clay layer at or near the surface, and soils that are shallow over nearly impervious material. These soils have a very low rate of water transmission.

The soils map for the study area is presented in Appendix A, as Figure A-2.

2.4 Watershed Designation

The project site is not located in a restricted watershed identified in Appendix C of GP-0-25-001.

2.5 Receiving Water Bodies

The nearest natural classified water course into which runoff from the project site will discharge is Cayuga Creek. Cayuga Creek is classified by NYSDEC as a Class C water course, and is not included in the Section 303(d) list of impaired waters found in Appendix D of GP-0-25-001.

2.6 Aquifer Designation

The project site is not located over a US EPA designated Sole Source aquifer; nor is it located over a Primary or Principal aquifer listed in the NYSDEC Technical and Operational Guidance Series (TOGS) 2.1.3 (1980).

2.7 Wetlands

A search on the NYSDEC Environmental Resource Mapper on April 16, 2026, and a review of GIS data, determined that there are no known regulated wetlands located on or in the vicinity of the project site. A wetland delineation is scheduled for Spring 2026 to field verify if there are any wetland on site.

2.8 Flood Plains

According to the National Flood Insurance Program Flood Insurance Rate Map (FIRM), Town of West Seneca, New York, Community, the project site lies within Flood Zone X, areas determined to be outside 500-year floodplain The FEMA Flood Map has been provided in Appendix A, as Figure A-5.

2.9 Listed, Endangered, or Threatened Species

A search was performed on the NYSDEC Environmental Resource Mapper on April 16, 2026, and determined that the project site may contain threatened or endangered species, or critical habitat. An Environmental Resource Map has been provided in Appendix A, as Figure A-4.

2.10 Historic Places

A search on the New York State Cultural Resource Information System (CRIS) database, performed on April 16, 2026, revealed the construction activity is located within an archeologically sensitive area A printout of the historic places screening map is presented in Appendix A, as Figure A-3. As such, NYSOPRHP coordination has been completed and a Phase 1 Archeological Survey was conducted on June 22, 2023 by archeologist. A copy of the NYSOPRHP documentation, in accordance with Part I.A.4. of GP-0-25-001, is provided in Appendix A, as Figure A-3A upon receipt.

2.11 Rainfall Data

Rainfall data utilized in the modeling and analysis was obtained from the Cornell University online Extreme Precipitation in New York & New England website (http://precip.eas.cornell.edu/). A local IDF file was imported, and specific mass curves were generated, in HydroCAD to evaluate the pre- and post-development stormwater runoff characteristics. Rainfall data specific to the portion of Erie County under consideration, for various 24-hour storm events, is presented in the following Table:

Table 3: Rainfall Data

Storm Event Return Period	24-Hour Rainfall (inches)
1-year	1.82
10-year	3.14
100-year	5.22

2.12 Pre-development Watershed Conditions

The pre-development project site is covered predominantly by buildings, pavement, grass, and woods. Analysis of pre-development conditions considered existing drainage patterns, soil types, ground cover, and topography. The Pre-Development Watershed Delineation Map has been provided in Appendix A, as Figure A-5.

The results of the computer modeling used to analyze the overall watershed under pre-development conditions are presented in Appendix D. A summary of the pre-development watershed runoff rates at each Design Point is presented in Table 10.

Subcatchment one is a 3.38± acre watershed consisting of grass and pavement. Runoff flows south overland via sheet and shallow concentrated flow toward a swale and catch basin at the southeast corner of the site. This subcatchment is tributary to Design Point (AP) 1.

Subcatchment two is a 7.74± acre watershed consisting of grass, pavement, and multiple buildings. Runoff flows west overland via sheet and shallow concentrated flow toward Cayuga Creek west of the site. This subcatchment is tributary to Design Point (AP) 1.

2.13 Post-development Watershed Conditions

The post-development project site is covered predominantly by buildings, pavement, sidewalks, grass, and woods. The analysis of post-development conditions considered existing drainage patterns, soil types, ground cover to remain, planned site development, site grading, and stormwater management facilities proposed as part of site improvements. The Post-Development Watershed Delineation Map has been provided in Appendix A, as Figure A-6.

The results of the computer modeling used to analyze the overall watershed under post-development conditions are presented in Appendix D. A summary of the post-development watershed runoff rates at each Design Point is presented in Table 11.

There are numerous locations and methods for providing controls of off-site discharge of stormwater from the project site. Each has been designed to provide the above quantity controls by attenuating stormwater runoff and releasing runoff to off-site locations at a rate equal to or less than that which existed prior to development of the site. Each device is detailed on the accompanying plans. A Post-Development Watershed Delineation Map, with the tributary areas to each stormwater management practice proposed, has been provided in Appendix A, as Figure A-6.

2.14 Description of Design Points

The study area consists of the 11.2 acre project site and 5.7 acre area of disturbance. The overall watershed was broken down into smaller watersheds, or subcatchments, to allow for analysis of runoff conditions at several locations throughout the study area. Each of these locations was defined as a Design Point (DP) in order to compare the effects resulting from stormwater management facilities proposed as part of the project. Descriptions of each of the selected Design Points are provided below.

- Design Point 1: Off-site discharge to Cayuga Creek

3.0 STORMWATER MANAGEMENT PLANNING

Chapter 3 of the Design Manual outlines a six-step planning process for site planning and selection of stormwater management practices that must be implemented for both new development and redevelopment projects. This process is intended to develop a design that maintains pre-construction hydrologic conditions through the application of environmentally sound development principles, as well as treatment and control of runoff discharges from the site. The following sections outline the step-by-step process and how it has been applied to this project.

The goals of this Stormwater Management Plan are to analyze the peak rate of runoff under pre- and post-development conditions, to maintain the pre-development rate of runoff in order to minimize impacts to adjacent or downstream properties, and to minimize the impact to the quality of runoff exiting the site.

The Design Manual provides both water quality and water quantity objectives to be met by projects requiring a “Full SWPPP”. These objectives will be met by applying stormwater control practices to limit peak runoff rates and improve the quality of runoff leaving the developed site.

3.1 STEP 1 – Site Planning

During the Site Planning process, the project site is evaluated for implementation of the green infrastructure planning measures identified in Table 3.1 of the Design Manual, in order to preserve natural resources and reduce impervious cover. Appendix C provides a description of each green infrastructure planning measure, along with a project specific evaluation.

3.2 STEP 2 – Calculate Water Quality Treatment Volume (WQv)

Stormwater runoff from impervious surfaces is recognized as a significant contributor of pollution that can adversely affect the quality of receiving water bodies. Therefore, treatment of stormwater runoff is important since most runoff related water quality contaminants are transported from land, particularly the impervious surfaces, during the initial stages of storm events.

3.2.1 NYSDEC Requirements for Water Quality Volume

The Design Manual requires that water quality treatment be provided for the initial flush of runoff from every storm. The NYSDEC refers to the amount of runoff to be treated as the "Water Quality Volume" (WQv). Section 4.2 of the Design Manual defines the Water Quality Volume as follows:

$$WQv = \frac{[(P)(R_v)(A)]}{12}$$

Where:
- P = 90% Rainfall Event Number
- R_v = 0.05 + 0.009 (I)
- I = Impervious Cover (Percent)
- A = Contributing Area in Acres

This definition ensures that, all other things being equal, the Water Quality Volume will increase along with the impervious cover percentage.

3.2.2 Methodology for Redevelopment Projects

Chapter 9 of the Design Manual outlines alternative WQv treatment objectives for redevelopment projects.

According to Section 9.2.1.B.IV, redevelopment activities can achieve the water quality treatment objective through a combination of impervious cover reduction, standard SMPs, and alternative SMPs that provide a weighted average of at least two of the above methods, calculated as shown below. In this case, 100% of any new increase in impervious area to a given design point must be treated by approved alternate SMPs, standard SMPs, or RR techniques.

$$\%ALT = [25-(\% IC_{RED} + \%SMP + \%RR)] \times 3$$

Where:
- %ALT = Percent of redevelopment impervious area treated by alternative SMP(s)
- $\%IC_{RED}$ = Percent reduction in existing disturbed impervious area
- %SMP = Percent of redevelopment impervious area treated by standard SMP(s)
- %RR = Percent of redevelopment impervious area treated by runoff reduction techniques(s)

This redevelopment project is proposing a combination of WQv treatment by standard practice(s) and alternative practice(s) as shown in the following tables:

Table 4: Required WQv Treatment by Alternative Practice

WQv Treatment by Alternative Practice		Impervious Cover Reduction (IC)		WQv Treatment by Standard Practice		Runoff Reduction	
%	Area (ac)	%	Area (ac)	%	Area (ac)	%	Area (ac)
38	2.13	0	0	34	1.96	0	0

Table 5: WQv Required Summary

P (inches)	A (ac)	I (ac)	Rv	WQv Required	
1.00	5.68	2.98	0.29	8,672 cf	0.20 AF

The Water Quality Volume equation has been applied to the drainage area tributary to each of the stormwater quality practices proposed for this project. The practices have been sized to accommodate the Water Quality Volume, as per the performance criteria presented in Chapter 6 and/or Chapter 9 of the Design Manual. Water quality volume calculations for each of the proposed practices are presented in Appendix C.

3.3 STEP 3 – Apply RR Techniques and Standard SMPs with RRv Capacity to Reduce Total WQv

Land use change and development in the watershed increases the volume of runoff. As such, reductions in the amount of runoff from new development, accomplished through the implementation of a stormwater management plan for the site, will play an important role in the success or failure of the watershed-wide stormwater management plan. Runoff reduction techniques can be applied to manage, reduce, and treat stormwater, while maintaining and restoring natural hydrology through infiltration, evapo-transpiration, and the capture and reuse of stormwater. Volume reduction techniques by themselves typically are not sufficient to provide adequate attenuation of stormwater runoff, but they can decrease the size of the peak runoff rate reduction facilities.

3.3.1 NYSDEC Requirements for Redevelopment

Section 9.2.1.B of the Design Manual indicates, “Although encouraged, meeting the RRv criteria is not required for the redevelopment activity portion of a project. The need to provide RRv shall be considered separately for each design point. For design points with a net increase in impervious area, RRv is required for the increase in impervious area only.”

As such, bioretentions and a water quality unit have been applied to the project to meet the WQv objective for the redevelopment activity of the project. The increase in impervious cover will be treated as new development and both the WQv criteria and RRv criteria are met.

3.3.2 Application of Standard Stormwater Management Practices (SMPs) with RRv Capacity

The following Table demonstrates a summary of the standard SMP(s) with RRv capacity that have been incorporated into the stormwater management plan for this project. The standard SMP(s) with RRv capacity have been designed in accordance with Chapter 6 of the Design Manual. Refer to the contract drawings for practice dimensions, material specifications, and installation details. Practice specific calculations are presented in Appendix C.

Table 6: Summary of Standard SMPs with RRv Capacity being Applied

Standard SMP with RRv Capacity	Design Variant	Pretreatment Volume Required (% of WQv)	Pretreatment Volume Provided (CF)	RRv Capacity	WQv Required (CF)	WQv Reduced /RRv Provided (CF)	WQv Treated[1] (CF)	Total WQv Provided[2] (CF)
Filtration Bioretention	F-5	25	835	40%	8,672	1,337	2,001	3,338

Footnotes:
[1]*WQv Treated = WQV Required - RRv Provided*
[2]*Total WQv Provided = WQV Treated + RRv Provided*

3.3.3 RRv Performance Summary

A summary of the RRv provided is presented in the following table:

Table 7: RRv Summary

WQv Required (CF)	RRv Provided WQv Reduced (CF)	% RRv Provided/ WQv Reduced
8,672	1,337	>100%

As indicated in the above table, the RRv provided is greater than the RRv required for the project site. As such, the RRv criteria has been met and the designer can proceed to Step 6.

3.4 STEP 4 – Calculate the Minimum RRv Required

As indicated above, Section 9.2.1.B of the Design Manual indicates, "Although encouraged, meeting the RRv criteria is not required for the redevelopment activity portion of a project."

3.5 STEP 5 – Apply Standard SMPs to Address Remaining Water Quality Volume

If the entire Water Quality Volume is not treated through implementation of RR techniques and standard SMPs with RRv capacity, then the design must achieve the remaining WQv through the standard SMPs listed in Table 3.3 of the Design Manual or the Alternative Practices outlined in Section 9.4 of the Design Manual.

Table 8: Summary of WQv Provided

Step 2 WQv Required (CF)	Step 3 WQv Reduction by Standard SMPs w/ RRv Capacity (CF)[1]	Step 5 Reduced WQv to be Treated by Standard SMPs or Alternative Practices (CF)[2]
8,672	3,338	6,627

Footnotes:
[1]*Step 3: WQv Reduction = RRv Provided + WQv Treated by Standard SMP with RRv Capacity*
[2]*Step 5: Reduced WQv to be Treated = WQv Required – WQv Reduced*

Based upon the results listed in the above Table, the entire WQv has not been treated by application of RR techniques and standard SMPs with RRv capacity. As such, the standard SMPs or the Alternative Practices (without RRv capacity) described in the following sections, have been incorporated into the stormwater management plan for this project, to meet the WQv objective. Practice-specific calculations are presented in Appendix C.

3.5.1 Underground Stormwater Detention System

Underground stormwater detention systems store and detain stormwater runoff in order to meet water quantity control requirements. Stormwater is stored in subsurface vaults and/or a system of large diameter interconnected storage pipes. Stored water is then released at rates designed to reduce peak run-off flows during post-development storms. Underground stormwater storage provides minimal stormwater quality benefits, but can be an effective component of a development's overall stormwater management plan.

3.5.2 Hydrodynamic Separators

Hydrodynamic separators accelerate the separation of floating and settling pollutants from stormwater through the use of a vortex. These pre-fabricated devices come in the form of an underground manhole or vault. The devices have no moving parts and are typically fabricated from concrete and marine grade aluminum.

During operation, stormwater runoff enters the unit tangentially to promote a gentle swirling motion in a treatment chamber. As stormwater circles within the chamber, settable solids fall into a sump and are retained. Buoyant debris, oil, and grease rise to the surface and are separated from the water as it flows under a baffle wall. Finally, treated water exits the treatment chamber through a flow control orifice located behind the baffle wall.

During low-flow conditions all runoff is diverted into the treatment chamber by a flow partition. At higher flow rates, a portion of the runoff spills over the flow partition and is diverted around the treatment chamber to prevent re-suspension and washout of previously trapped pollutants. Water that spills over the partition flows into a head equalization chamber above the treatment chamber outlet. As the head equalization chamber fills, the head differential driving flow through the treatment chamber collapses. The result is that flow rates in the treatment chamber remain relatively constant even as total flow rates increase substantially. This configuration further reduces the potential for re-suspension or washout.

According to Chapter 9 of the Design Manual, hydrodynamic separators of the type proposed for this project have been approved for use as a pretreatment system in new and redevelopment projects or as a primary treatment system on redevelopment projects.

According to Chapter 9 of the Design Manual, membrane filtration, of the type proposed for this project, has been approved for use as a primary treatment system on redevelopment projects.

The following Table summarizes both the Water Quality Volume requirements and the treatment volumes provided.

Table 9: Summary of Hydrodynamic Unit(s)

SWM Practice ID	NYSDEC Design Variant	Required WQv (CF)	Required WQv Flow Rate (CFS)	Approved Manufactured Treatment Flow Rate (MTFR) (CFS)	Product Name and Manufacturer
HYD-1	ALT	6,627	1.88	2.00	Contech Cascade CS4

3.6 STEP 6 - Apply Volume and Peak Rate Control

This report presents the pre-development and post-development features and conditions associated with the rate of surface water runoff within the study area. For both cases, the drainage patterns, drainage structures, soil types, and ground cover types are considered in this study.

3.6.1 NYSDEC Requirements for New Development

Chapter 4 of the Design Manual requires that projects meet three separate stormwater quantity criteria:

1. The Channel Protection (CPv) requirement is designed to protect stream channels from erosion. This is accomplished by providing 24 hours of extended detention for the 1-year, 24-hour storm event. The Manual defines the CPv detention time as the center of mass detention time through each stormwater management practice.

2. The Overbank Flood Control (Qp) requirement is designed to prevent an increase in the frequency and magnitude of flow events that exceed the bank-full capacity of a channel, and therefore must spill over into the floodplain. This is accomplished by providing detention storage to ensure that, at each Design Point, the post-development 10-year 24-hour peak discharge rate does not exceed the corresponding pre-development rate.

3. The Extreme Flood Control (Qf) requirement is designed to prevent the increased risk of flood damage from large storm events, to maintain the boundaries of the pre-development 100-year floodplain, and to protect the physical integrity of stormwater management practices. This is accomplished by providing detention storage to ensure that, at each Design Point, the post-development 100-year 24-hour peak discharge rate does not exceed the corresponding pre-development rate.

3.6.2 Methodology

In order to demonstrate that the NYSDEC detention requirements are being met, the Design Manual requires that a hydrologic and hydraulic analysis of the pre- and post-development conditions be performed using the Natural Resources Conservation Service Technical Release 20 (TR-20) and Technical Release 55 (TR-55) methodologies. HydroCAD, developed by HydroCAD Software Solutions LLC of Tamworth, New Hampshire, is a Computer-Aided-Design (CAD) program for analyzing the hydrologic and hydraulic characteristics of a given watershed and associated stormwater management facilities. HydroCAD uses the TR-20 algorithms and TR-55 methods to create and route runoff hydrographs.

HydroCAD has the capability of computing hydrographs (which represent discharge rates characteristic of specified watershed conditions, precipitation, and geologic factors) combining hydrographs and routing flows though pipes, streams and ponds. HydroCAD can also calculate the center of mass detention time for various hydraulic features. Documentation for HydroCAD can be found on their website: http://www.hydrocad.net/.

For this analysis, the watershed and drainage system was broken down into a network consisting of three types of components as described below:

1. Subcatchment: A relatively homogeneous area of land, which produces a volume and rate of runoff unique to that area.
2. Reach: Uniform streams, channels, or pipes that convey stormwater from one point to another.
3. Pond: Natural or man-made impoundment, which temporarily stores stormwater runoff and empties in a manner determined by its geometry and the hydraulic structure located at its outlets.

Subcatchments, reaches, and ponds are represented by hexagons, squares, and triangles, respectively, on the watershed routing diagrams provided with the computations included in Appendix D and Appendix E.

The analysis of hydrologic and hydraulic conditions and proposed stormwater management facilities, servicing the study area, was performed by dividing the tributary watershed into relatively homogeneous subcatchments. The separation of the watershed into subcatchments was dictated by watershed conditions, methods of collection, conveyance, and points of discharge. Watershed characteristics for each subcatchment were then assessed from United States Geological Service (USGS) 7.5-minute topographic maps, aerial photographs, a topographical survey, soil surveys, site investigations, and land use maps.

Proposed stormwater management practices were designed and evaluated in accordance with the Design Manual and local regulatory requirements. A local IDF file was imported, and specific mass curves were generated, in HydroCAD to evaluate the pre- and post-development stormwater runoff characteristics for various 24-hour storm events identified in the following Table.

Table 10: Design Events

Facility	24-hour Storm Event
Storm Sewer	10-year
Stormwater Management Practice(s)	1-year
	10-year
	100-year
Flood Conditions	100-year

3.6.3 Performance Summary

A comparison of the total required and provided CPv for the 1-year 24-hour storm event is shown in the following table:

Table 11: CPv Summary

Design Point (DP)	Required CPv (af)	Provided CPv (af)
1	0.20	0.36

A comparison of the pre- and post-development watershed conditions was performed for all Design Points and storm events evaluated herein. For all Design Points and design storms, this comparison demonstrates that the peak rate of runoff will not be increased. Therefore, the project will not have a significant adverse impact on the adjacent or downstream properties or receiving water courses.

The results of the computer modeling used to analyze the pre- and post-development watersheds are presented in Appendix D and Appendix E, respectively. The following Table summarizes the results of this analysis.

Table 12: Summary of Pre- and Post-Development Peak Discharge Rates

Pre- vs. Post-Development Discharge Rate (cfs)				
Design Point (DP)	10-year 24-hour storm event		100-year 24-hour storm event	
	Pre	Post	Pre	Post
1	16.3	13.9	36.8	31.7

3.7 Climate Change Consideration

This report presents the consideration for future physical risks due to climate change, in accordance with Part III.A.2 of the permit. Overall site planning, control measures and practices, conveyance systems and detention systems were evaluated against the seven (7) physical risks identified by NYSDEC due to climate change pursuant to the Community Risk and Resiliency Act (CRRA), 6 NYCRR 490, and associated guidance. Appendix C provides a description of each consideration, specific to the project.

4.0 CONSTRUCTION SEQUENCE

This project has not received written approval from the Town of West Seneca allowing the disturbance of more than five acres of land at any one time. Therefore, if the Contractor's construction sequence requires the disturbance of more than five acres at any one time, written approval must be obtained from written approval from the Town of West Seneca prior to disturbing more than five acres at once.

The "Erosion and Sediment Control Plan" and the "Erosion and Sediment Control Plan Prior to Construction" in the accompanying drawings and waiver request identifies the major construction activities that are the subject of this SWPPP. The order (or sequence) in which the major activities are expected to begin is presented on the accompanying drawings, though each activity will not necessarily be completed before the next begins. In addition, these activities could occur in a different order if necessary to maintain adequate erosion and sediment control. If this is the case, the contractor shall notify the Owner's/Operator's Engineer overseeing the implementation of the SWPPP.

The Contractor will be responsible for implementing the erosion and sediment control measures identified on the plans. The Contractor may designate these tasks to certain subcontractors as they see fit, but the ultimate responsibility for implementing these controls and ensuring their proper function remains with the Contractor.

In accordance with Part III.B.c.iv. a phasing plan for the project and sequencing plans for all phases have been provided. The plans address clearing and grubbing, excavation and grading, utility and infrastructure installation, final stabilization, and any other construction activity at the site that will result in soil disturbance. Refer to the plans for further information on the project phasing and sequencing.

5.0 CONSTRUCTION-PHASE POLLUTION CONTROL

The SWPPP and accompanying plans identify the temporary and permanent erosion and sediment control measures that have been incorporated into the design of this project. These measures will be implemented during construction, to minimize soil erosion and control sediment transport off-site, and after construction, to control the quality and quantity of stormwater runoff from the developed site.

Erosion control measures, designed to minimize soil loss, and sediment control measures, intended to retain eroded soil and prevent it from reaching water bodies or adjoining properties, have been developed in accordance with the following documents:

- NYSDEC SPDES General Permit for Stormwater Discharges From Construction Activity, Permit No. GP-0-25-001 (effective January 29, 2025 through January 28, 2030)
- New York State Standards and Specifications for Erosion and Sediment Control, NYSDEC (November 2016)

The SWPPP and accompanying plans outline the construction scheduling for implementing the erosion and sediment control measures. These documents include limitations on the duration of soil exposure, criteria and specifications for placement and installation of the erosion and sediment control measures, a maintenance schedule, and specifications for the implementation of erosion and sediment control practices and procedures.

Temporary and permanent erosion and sediment control measures that shall be applied during construction generally include:

1. Minimizing soil erosion and sedimentation by stabilization of disturbed areas and by removing sediment from construction site discharges.
2. Preservation of existing vegetation to the greatest extent practical. Following the completion of construction activities in any portion of the site, permanent vegetation shall be established on all exposed soils.
3. Site preparation activities to minimize the area and duration of soil disruption.
4. Establishment of permanent traffic corridors to ensure that "routes of convenience" are avoided.

5.1 Temporary Erosion and Sediment Control Measures

The temporary erosion and sediment control measures described in the following sections are included as part of the construction documents.

5.1.1 Stabilized Construction Access

Prior to construction, stabilized construction access(es) will be installed, per accompanying plans, to reduce the tracking of sediment onto public roadways.

Construction traffic must enter and exit the site at the stabilized construction access(es). The intent is to trap dust and mud that would otherwise be carried off-site by construction traffic.

The access(es) shall be maintained in a condition, which will control tracking of sediment onto public rights-of-way or streets. When necessary, additional aggregate will be placed atop the filter fabric to assure the minimum thickness is maintained. All sediment and/or soil spilled, dropped, or washed onto public rights-of-way must be removed immediately. Periodic inspection and needed maintenance shall be provided after each substantial rainfall event.

5.1.2 Dust Control

Water trucks shall be used as needed during construction to reduce dust generated on-site. Dust control must be provided by the Contractor(s) to a degree that is acceptable to the Owner, and in compliance with the applicable local and state dust control requirements.

5.1.3 Temporary Soil Stockpile

Materials, such as topsoil, will be temporarily stockpiled (if necessary) on the site during the construction process. Stockpiles shall be located in an area away from storm drainage, water bodies and/or courses, and will be properly protected from erosion by a surrounding silt fence barrier.

5.1.4 Silt Fencing

Prior to the initiation of and during construction activities, a geotextile filter fabric (or silt fence) will be established downgradient of all disturbed areas. These barriers may extend into non-impact areas to provide adequate protection of adjacent lands.

Clearing and grubbing will be performed only as necessary for the installation of the sediment control barrier. To facilitate effectiveness of the silt fencing, daily inspections and inspections immediately after significant storm events will be performed by the Contractor(s). Maintenance of the fence will be performed as needed.

5.1.5 Temporary Seeding

For areas undergoing clearing, grading, and disturbance as part of construction activities, where work has temporarily ceased, temporary soil stabilization measures must be initiated by the end of the next business day and completed within fourteen (14) days from the date the soil disturbance activity has temporarily ceased.

5.1.6 Manufactured Insert Inlet Protection

Install insert inlet protection beneath the grate of all catch basins, to prevent sediment from entering the catch basins and storm sewer system. Remove sediment accumulation and repair or replace insert as necessary to ensure proper function.

5.1.7 Filter Fabric Drop Inlet Protection

Install filter fabric or silt fence with wooden stakes at the perimeter of existing or proposed catch basins located in lawn areas, to prevent sediment from entering the catch basins and storm sewer system. Remove sediment accumulation and repair or replace fabric as necessary to ensure proper function.

5.1.8 Erosion Control Blanket

Erosion control blankets shall be installed in accordance with manufacturer's requirements on all slopes exceeding 3:1. Erosion control blankets provide temporary erosion protection, rapid vegetative establishment, and long-term erosion resistance to shear stresses generated by high runoff flow velocities associated with steep slopes.

5.1.9 Stone Check Dams

Stone check dams will be installed within drainage ditches to reduce the velocity of stormwater runoff, promote settling of sediment, and reduce sediment transport off-site.

Sediment accumulated behind the stone check dam will be removed as needed to maintain flow through the stone check dam and prevent large flows from carrying sediment over or around the dam. Stones shall be replaced as needed to maintain the design cross section of the structures.

5.1.10 Temporary Sediment Trap

Temporary sediment traps shall be constructed to intercept sediment-laden runoff, reduce the amount of sediment leaving the disturbed areas, and protect drainage ways, properties, and rights-of-way.

Accumulated sediment shall be removed from the trap when it reaches no greater than 50 percent of the design capacity. Sediment shall not be placed downstream from the embankment, adjacent to a stream, or floodplain.

Temporary sediment traps depicted on the accompanying plans have been designed to provide 3,600 CF of storage per acre of tributary watershed.

5.1.11 Temporary Diversion Swales

Temporary diversion swales shall be used to divert off-site runoff around the construction site and divert runoff from stabilized areas around disturbed areas.

5.1.12 Dewatering Operations

Dewatering will be used to intercept sediment-laden stormwater or pumped groundwater and allow it to settle out of the pumped discharge prior to being discharged from the site. Water from dewatering

operations shall be treated to eliminate the discharge of sediment and other pollutants. Water resulting from dewatering operations shall be directed to temporary sediment traps or dewatering devices. Temporary sediment traps and dewatering bags will be provided, installed, and maintained at downgradient locations to control sediment deposits to downstream surfaces.

5.1.13 Fiber Roll

Prior to the initiation of and during construction activities, fiber rolls (12" minimum diameter) will be established downgradient of all disturbed areas to reduce sheet flow on slopes. These rolls may extend into non-impact areas to provide adequate protection of adjacent lands. Spacing will conform to NYSDEC specification for straw bale dike.

Clearing and grubbing will be performed only as necessary for the installation of the fiber rolls. To facilitate effectiveness, daily inspections and inspections immediately after significant storm events will be performed by the Contractor(s) and maintenance will be performed as needed.

5.2 Permanent Erosion and Sediment Control Measures

The permanent erosion and sediment control measures described in the following sections are included as part of the construction documents.

5.2.1 Establishment of Permanent Vegetation

Disturbed areas that will be vegetated must be seeded in accordance with the contract documents. The type of seed, mulch, and maintenance measures as described in the contract documents shall also be followed.

Permanent soil stabilization measures must be initiated by the end of the next business day and completed within fourteen (14) days from the date the soil disturbance activity has permanently ceased.

Final site stabilization is achieved when all soil-disturbing activities at the site have been completed and a uniform, perennial vegetative cover with a density of 80 percent has been established or equivalent stabilization measures (such as the use of mulches or geotextiles) have been employed on all unpaved areas and areas not covered by permanent structures.

5.2.2 Rock Outlet Protection

Rock outlet protection shall be installed at the locations as indicated and detailed on the accompanying plans. The installation of rock outlet protection will reduce the velocity and energy of water, such that the flow will not erode downstream surfaces.

5.3 Implementation Schedule for Erosion and Sediment Control Measures

Proper implementation of the outlined erosion and sediment control measures is critical to minimizing soil erosion and controlling off-site sediment transport during construction, as well as controlling the quality and quantity of stormwater runoff from the developed site after construction. The following table outlines the implementation schedule for initial placement of these measures, and the duration for which they should remain in place.

Table 13: Implementation Schedule for Erosion and Sediment Control Measures

Erosion and Sediment Control Measure	Initial Placement	Duration to Remain In-Place
Stabilized Construction Access	Upon mobilizing to site	Until construction is complete
Dust Control	As needed	As needed
Temporary Soil Stockpile	Upon delivery of materials to the site or excavation of on-site materials for reuse	Until materials have been placed or removed from the site
Silt Fencing	Prior to upgradient soil disturbance	Until upgradient area has achieved permanent stabilization
Temporary Seeding	Apply to any disturbed soil that will remain exposed for more than 14 days	Apply additional seed as needed for temporary stabilization
Manufactured Insert Inlet Protection	*Existing structures:* prior to upgradient soil disturbance *New structures:* upon installation of structure/grate	Until upgradient area has achieved permanent stabilization
Erosion Control Blanket	Upon completion of slope grading operations	Prior to final grading, or kept in place permanently
Stone Check Dams	*Existing swales:* upon completion of swale reshaping *New swales:* upon completion of swale excavation	Permanent
Temporary Sediment Trap	As needed during grading operations	Until final grading of tributary area is complete
Temporary Diversion Swales	As needed to divert flow around work area	Until permanent drainage methods are established (i.e. closed storm sewer, open conveyance swales, etc.)
Dewatering Operations	As needed during excavation	Until excavation/backfilling is complete
Fiber Roll	Prior to upgradient soil disturbance	Until upgradient area has achieved permanent stabilization
Establishment of Permanent Vegetation	As soon as possible after completion of final grading	Permanent, apply additional seed as needed to achieve 80% minimum uniform coverage
Rock Outlet Protection	During installation of tributary culverts/pipes	Permanent

5.4 Other Pollutant Controls

Part I.C.1 of GP-0-25-001 prohibits discharges from construction material wastewater, pollutants used in vehicle and equipment operation and maintenance, vehicle and equipment washing and toxic or hazardous substances.

The following table identifies materials and/or chemicals commonly used and/or stored on construction sites and should be addressed in the site-specific spill prevention and response plan:

Table 14: Common Construction Pollutants

Material/Chemical	Physical Description	Stormwater Pollutants	Location*
Pesticides (insecticides, fungicides, herbicides, rodenticides)	Various colored to colorless liquid, powder, pellets, or grains	Chlorinated hydrocarbons, organophosphates, carbamates, arsenic	Herbicides used for noxious weed control
Fertilizer	Liquid or solid grains	Nitrogen, phosphorous	Newly seeded areas
Cleaning solvents	Colorless, blue, or yellow-green liquid	Perchloroethylene, methylene chloride, trichloroethylene, petroleum distillates	No equipment cleaning allowed in project limits
Asphalt	Black solid	Oil, petroleum distillates	Streets and roofing
Concrete	White solid/grey liquid	Limestone, sand, pH, chromium	Curb and gutter, building construction
Curing compounds	Creamy white liquid	Naphtha	Curb and gutter
Hydraulic oil/fluids	Brown oily petroleum hydrocarbon	Mineral oil	Leaks or broken hoses from equipment
Gasoline	Colorless, pale brown or pink petroleum hydrocarbon	Benzene, ethyl benzene, toluene, xylene, MTBE	Secondary containment / staging area
Diesel Fuel	Clear, blue-green to yellow liquid	Petroleum distillate, oil & grease, naphthalene, xylenes	Secondary containment / staging area
Kerosene	Pale yellow liquid petroleum hydrocarbon	Coal oil, petroleum distillates	Secondary containment / staging area
Antifreeze/coolant	Clear green/yellow liquid	Ethylene glycol, propylene glycol, heavy metals (copper, lead, zinc)	Leaks or broken hoses from equipment
Sanitary toilets	Various colored liquid	Bacteria, parasites, and viruses	Staging area
Construction materials			
Granular fill	Various colored solids	Sediment	Stockpile / fill areas
Subbase course	Gray/brown solid	Sediment, dust	Stockpile
Topsoil	Brown solid	Sediment	Stockpile
Mulch	Various colored solid	Sediment, debris	Staging area
Seed	Brown/yellow solid	Nutrients, debris	Staging area
HDPE Storm Pipe	Black solid		Staging area
SDR-35, SDR-21 PVC Pipe	Various colored solid		Staging area
Metals Frames and Grates	Gray solid		Staging area
Joint Sealant	Light gray viscous solid	Polyurethane	Staging area

*(Area where material/chemical is used on-site)

5.5 Construction Housekeeping Practices

During the construction phase, the Contractor(s) will implement the following measures:

5.5.1 Sediment Sweeping/Vacuuming

Any sediment that is tracked by construction vehicles or erosion onto adjacent public or private impervious surfaces must be swept or vacuumed, utilizing self-propelled and/or walk-behind equipment, and removed on a daily basis. Kick brooms and sweeper attachments are not an acceptable means of sweeping. Sweeping or vacuuming should not take place while tracked sediment is wet. If tracked sediment is compacted, the sediment must be scraped loose prior to sweeping or vacuuming.

5.5.2 Material Stockpiles

Material resulting from clearing and grubbing operations that will be stockpiled on-site, must be adequately protected with downgradient erosion and sediment controls.

5.5.3 Equipment Cleaning and Maintenance

The Contractor(s) will designate areas for equipment cleaning, maintenance, and repair. The Contractor(s) and subcontractor(s) will utilize those areas. The areas will be protected by a temporary perimeter berm.

5.5.4 Detergents

The use of detergents for large-scale washing is prohibited (i.e., vehicles, buildings, pavement surfaces, etc.)

5.5.5 Spill Prevention and Response

A Spill Prevention and Response Plan shall be developed, for the pollutants identified in Section 5.3, for the site by the Contractor(s) that addresses the following:

1. Reducing chance of spills
2. Stopping the source of spills
3. Containing and cleaning up spills
4. Disposing of materials contaminated by spills
5. Training personnel responsible for spill prevention/response
6. Material handling procedures
7. Material storage requirements

The plan shall detail the steps required in the event of an accidental spill and shall identify contact names and phone numbers of people and agencies that must be notified.

The plan shall include Safety Data Sheets (SDS) for all materials to be stored on-site. All workers on-site will be required to be trained on safe handling and spill prevention procedures for all materials used during construction. Regular tailgate safety meetings shall be held and all workers that are expected on the site during the week shall be required to attend.

5.5.6 Concrete Washout Areas

A temporary concrete washout area shall be provided for every project where concrete will be poured or otherwise formed on-site and shall consist of an excavated or above-ground lined construction pit

where concrete trucks or equipment can be washed out after their loads have been discharged. Waste generated from concrete wash water that shall not be allowed to flow into drainage ways, inlets, receiving waters, highway right-of-way, or any location other than the designated concrete washout area(s). Proper signage shall be placed adjacent to the facility to designate the "Concrete Washout Area". Locate the facility a minimum of 100-feet from drainage swales, storm drain inlets, wetlands, streams, and other surface waters. Prevent surface water from entering the washout area.

The hardened residue from the concrete wash areas will be disposed of in the same manner as other non-hazardous construction waste materials. Maintenance of the washout area shall include removal of hardened material when 75% of the storage capacity is filled, and a minimum freeboard of 12 inches shall be maintained. The Contractor will be responsible for seeing that these procedures are followed. The project may require the use of multiple concrete washout areas based on the frequency of concrete pours.

5.5.7 Material Storage

Construction materials shall be stored in a dedicated staging area. The staging area shall be located in an area that prevents negative impacts of construction materials on stormwater quality.

Chemicals, paints, solvents, fertilizers, and other toxic material must be stored in waterproof containers. Except during application, the contents must be kept in trucks or within storage facilities. Runoff containing such material must be collected, removed from the site, treated, and disposed of at an approved solid waste or chemical disposal facility.

6.0 INSPECTIONS, MAINTENANCE, AND REPORTING

6.1 Inspection and Maintenance Requirements

6.1.1 Pre-Construction Inspection and Certification

Prior to the commencement of construction, the Qualified Inspector/Qualified Professional shall conduct an assessment of the site and certify that the appropriate erosion and sediment control measures have been adequately installed and implemented. The Contractor shall contact the Qualified Inspector/Qualified Professional once the erosion and sediment control measures have been installed.

6.1.2 Construction Phase Inspections and Maintenance

A Qualified Inspector/Qualified Professional, as defined in Appendix A of the General Permit GP-0-25-001, shall conduct regular site inspections between the time this SWPPP is implemented and final site stabilization. Site inspections shall occur at an interval of at least once every seven (7) calendar days.

The purpose of site inspections is to assess performance of pollutant controls. Based on these inspections, the Qualified Inspector/Qualified Professional will decide whether it is necessary to modify this SWPPP, add or relocate sediment barriers, or whatever else may be needed in order to prevent pollutants from leaving the site via stormwater runoff. The general contractor has the duty to cause pollutant control measures to be repaired, modified, maintained, supplemented, or whatever else is necessary in order to achieve effective pollutant control.

Examples of particular items to evaluate during site inspections are listed below. This list is not intended to be comprehensive. During each inspection the inspector must evaluate overall pollutant

control system performance as well as particular details of individual system components. Additional factors should be considered as appropriate to the circumstances.

1. Locations where vehicles enter and exit the site must be inspected for evidence of off-site sediment tracking. A stabilized construction access will be constructed where vehicles enter and exit. This access will be maintained or supplemented as necessary to prevent sediment from leaving the site on vehicles.
2. Sediment barriers must be inspected and, if necessary, they must be enlarged or cleaned in order to provide additional capacity. All material from behind sediment barriers will be stockpiled on the up slope side. Additional sediment barriers must be constructed as needed.
3. Inspections will evaluate disturbed areas and areas used for storing materials that are exposed to rainfall for evidence of, or the potential for, pollutants entering the drainage system. If necessary, the materials must be covered or original covers must be repaired or supplemented. Also, protective berms must be constructed, if needed, in order to contain runoff from material storage areas.
4. Grassed areas will be inspected to confirm that a healthy stand of grass is maintained. The site has achieved final stabilization once all areas are covered with building foundation or pavement, or have a stand of grass with at least 80 percent density. The density of 80 percent or greater must be maintained to be considered as stabilized. Areas must be watered, fertilized, and reseeded as needed to achieve this goal.
5. All discharge points must be inspected to determine whether erosion control measures are effective in preventing significant impacts to receiving waters.

The inspection reports must be completed entirely and additional remarks should be included if needed to fully describe a situation. An important aspect of the inspection report is the description of additional measures that need to be taken to enhance plan effectiveness. The inspection report must identify whether the site was in compliance with the SWPPP at the time of inspection and specifically identify all incidents of non-compliance.

Within one (1) business day of the completion of an inspection, the *Qualified Inspector/Qualified Professional* shall notify the Owner/Operator and appropriate contractor or subcontractor of any corrective actions that need to be taken. For corrective actions not requiring engineering design, the contractor must begin implementing corrective actions within one business day and complete the corrective actions within five business days. For corrective actions requiring engineering design, the engineering design process must begin within five business days and the contractor must complete the corrective action in a reasonable time frame but no later than 60 calendar days.

In addition to the inspections performed by the *Qualified Inspector/Qualified Professional*, the Contractor shall perform routine inspections that include a visual check of all erosion and sediment control measures. All inspections and maintenance shall be performed in accordance with the inspection and maintenance schedule provided on the accompanying plans. Sediment removed from erosion and sediment control measures will be exported from the site, stockpiled for later use, or used immediately for general non-structural fill.

It is the responsibility of the general contractor to assure the adequacy of site pollutant discharge controls. Actual physical site conditions or contractor practices could make it necessary to install more structural controls than are shown on the accompanying plans. (For example, localized concentrations of runoff could make it necessary to install additional sediment barriers, sediment traps, etc.) Assessing the need for additional controls and implementing them or adjusting existing controls will be a continuing aspect of this SWPPP until the site achieves final stabilization.

6.1.3 Temporary Suspension of Construction Activities

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 frequency of Qualified Inspector/Qualified Professional inspections can be reduced to once every 30 calendar days. Prior to reducing the frequency of inspections, the Owner/Operator shall notify the NYSDEC Region 9 stormwater contact person and the Town of West Seneca in writing.

6.1.4 Partial Project Completion

For construction sites where soil disturbance activities have been shut down with partial project completion, 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 inspections by the Qualified Inspector/Qualified Professional can stop. Prior to the shutdown, the Owner/Operator shall notify the NYSDEC Region 9 stormwater contact person and the Town of West Seneca in writing.

If soil disturbance activities have not resumed within two years from the date of shutdown, a Notice of Termination (NOT) shall be properly completed and submitted to the NYSDEC.

6.1.5 Post-Construction Inspections and Maintenance

Inspections and maintenance of final stabilization measures and post-construction stormwater management practices shall be performed in accordance with Appendix G, once all disturbed areas are stabilized and all stormwater management systems are in place and operable.

6.2 Reporting Requirements

6.2.1 Inspection Reports

Pursuant to Part IV.C of GP-0-25-001, inspection reports shall be prepared for the duration of construction, as outlined herein, and shall be signed by the *Qualified Inspector* or *Qualified Professional*. A sample inspection form is provided in Appendix F.

At a minimum, each inspection report shall record the following information:

1. Permit identification number; and
2. Date and time of inspection; and
3. Name and title of person(s) performing inspection; and
4. A description of the weather and soil conditions (e.g. dry, wet, saturated) at the time of the inspection, including the temperature at the time of the inspection; and
5. A description of the condition of the runoff at all points of discharge from the construction site. This must 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; and
6. A description of the condition of all surface waters of the State located within, or immediately adjacent to, the property boundaries of the construction site which receive runoff from disturbed areas. This must include identification of any discharges of sediment to the surface waters of the State; and

7. Identification of all erosion and sediment control practices and pollution prevention measures that need repair or maintenance; and
8. 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; and
9. Description and sketch (map) 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; and
10. Estimates, in square feet or acres, of the following areas:
    a. Total area with active soil disturbance (not requiring either temporary stabilization or final stabilization); and
    b. Total area with inactive soil disturbance (requiring either temporary stabilization or final stabilization); and
    c. Total area that has achieved temporary stabilization; and
    d. Total area that has achieved final stabilization; and
11. Current stage of construction of all SMPs and identification of all construction activity on site that is not in conformance with the SWPPP and technical standards; and
12. 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 SMP(s); and
13. Identification and status of all corrective actions that were required by previous inspection; and
14. Digital photographs, with date stamp, that clearly show the condition of all practices that have been identified as needing corrective actions. The qualified inspector must attach 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 must 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 must 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.

6.2.2 Site Log Book

Pursuant to Part I.E.3 of GP-0-25-001, the Owner/Operator shall retain a copy of the General Permit, NOI, NOI Acknowledgment Letter, MS4 SWPPP Acceptance Form (if applicable), inspection reports, contractor and subcontractor certification forms, and all documentation necessary to demonstrate eligibility under the permit, at the construction site from commencement of construction activity until the date that all areas of disturbance have achieved final stabilization and the Notice of Termination has been submitted to the NYSDEC.

The Site Log Book shall be maintained on-site in a secure location (i.e. job trailer, on-site construction office, or mailbox with lock) and must be accessible during normal business hours to an individual performing a compliance inspection.

6.2.3 Post Construction Records and Archiving

Following construction, the Owner/Operator shall retain copies of the SWPPP, the complete construction Site Log Book, and records of all data used to complete the NOI to be covered by this permit, for a period of at least five years from the date that the site is finally stabilized. This period may be extended by the NYSDEC, at its sole discretion, at any time upon written notification.

Records shall be maintained of all post construction inspections and maintenance work performed in accordance with the requirements outlined in Appendix G.

7.0 SWPPP IMPLEMENTATION RESPONSIBILITIES

A summary of the responsibilities and obligations of all parties involved with compliance with the NYSDEC SPDES General Permit GP-0-25-001 conditions is outlined in the subsequent sections. For a complete listing of the definitions, responsibilities, and obligations, refer to the SPDES General Permit GP-0-25-001 presented in Appendix J.

7.1 Owner's/Operator's Responsibilities

1. Ensure that control measures are selected, designed, installed, implemented and maintained to minimize the discharge of pollutants and prevent a violation of the water quality standards, meeting the non-numeric effluent limitations in Part II.B.1.(a)-(e) of the SPDES General Permit and in accordance with the New York State Standards and Specifications for Erosion and Sediment Control, dated November 2016.

2. Ensure that practices are selected, designed, installed, and maintained to meet the performance criteria in the Design Manual. Practices must be designed to meet the applicable sizing criteria in Part II.C.2.a., b., c. or d. of GP-0-25-001.

3. Retain the services of a "Qualified Inspector" or "Qualified Professional" as defined under GP-0-25-001, to provide the services outlined in Section 7.5 "Qualified Inspector's/Qualified Professional's Responsibilities."

4. Retain the services of a "Qualified Professional," as defined under GP-0-25-001, to provide the services outlined in Section 2.3 "Owner's/Operator's Engineers Responsibilities."

5. Have an authorized corporate officer sign the Owner/Operator Certification Form to accompany the eNOI. A copy of the completed NOI is included in Appendix B.

6. Submit the electronic version of the NOI (eNOI) along with the MS4 SWPPP acceptance form using the NYSDEC's website (http://www.dec.ny.gov/chemical/43133.html).

7. Pay the required initial and annual fees upon receipt of invoices from NYSDEC. These invoices are generally issued in the fall of each year. The initial fee is calculated as $110.00 per acre disturbed plus $675.00 per acre of net increase in impervious cover, and the annual fee is $110.00.

8. Prior to the commencement of construction activity, identify the contractor(s) and subcontractor(s) that will be responsible for installing, constructing, repairing, replacing, inspecting, and maintaining the erosion control practices included in the SWPPP and the

contractor(s) and subcontractor(s) that will be responsible for constructing the SMPs included in the SWPPP. Each of the contractors and subcontractors must identify at least one person from their company to be the trained contractor that will be responsible for implementation of the SWPPP. Ensure that at least one trained contractor is on site daily when soil disturbance activities are being performed.

9. Schedule a pre-construction meeting which shall include the Town of West Seneca representative, Owner's/Operator's Engineer, Qualified Inspector, Contractor, and their sub-contractors to discuss responsibilities as they relate to the implementation of this SWPPP.

10. Retain the services of an independent certified materials testing and inspection firm operating under the direction of a licensed Professional Engineer to perform regular tests, inspections, and certifications of the construction materials used in the construction of all post-construction stormwater management practices.

11. Retain the services of a NYS licensed land surveyor to perform an as-built topographic survey of the completed post-construction stormwater management facilities.

12. Require the Contractor to fully implement the SWPPP prepared for the site by the Owner/Operator's Engineer to 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 NYSDEC.

13. The Owner/Operator is authorized to commence construction activity as of the authorization date indicated in the Letter of Authorization (LOA), which is sent by NYSDEC after a complete eNOI is submitted.

14. Within five (5) business days of receipt of the LOA, send an electronic copy of the LOA to the MS4 operator(s) with review authority.

15. Forward a copy of the LOA received from DEC to the Owner's/Operator's Engineer for project records, and to the Contractor for display at the construction site.

16. As of the date the LOA is received, the Owner/Operator must make the eNOI, SWPPP and LOA available for review and copying in accordance with the requirements in Part VII.H. of GP-0-25-001. When applicable, as of the date an updated LOA is received, the Owner/Operator must make the updated LOA available for review and copying in accordance with the requirements in Part VII.H.

17. The Owner/Operator must ensure compliance with all requirements of GP-0-25-001 and that the provisions of the SWPPP, including any changes made to the SWPPP in accordance with Part III.A.5., are properly implemented and maintained from the commencement of construction activity until all area of disturbance have achieved final stabilization; and the Owner/Operator's coverage under the permit is terminated in accordance with Part V.A.5.a.

18. As of the date of the commencement of construction activities until Part I.E.2.a. and b. have been met, the Owner/Operator must maintain at the construction site, a copy of all documentation necessary to demonstrate eligibility with GP-0-25-001, a copy of GP-0-25-001, the SWPPP, the signed SWPPP Preparer Certification Form, the signed MS4 SWPPP Acceptance Form, signed Owner/Operator Certification Form, eNOI, and LOA, and LOA transmittal to the MS4 Operator in accordance with Part I.D.3.c.

19. The Owner/Operator must maintain at the construction site, until Part I.E.2.a and b. have been met, as of the date the documents become final or are received, a copy of the responsible contractor's or subcontractor's certification statement(s) in accordance with Part III.A.7, and inspection reports in accordance with Part IV.C.4. and 6.

20. The Owner/Operator must maintain the documents 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. The documents must be paper documents unless electronic documents are accessible to the inspector during an inspection to the same extent as a paper copy stored at the site would be. If electronic documents are kept on site, the Owner/Operator must maintain functional equipment on site available to an inspector during normal hours of operation such that an inspector may view the electronic documents in a format that can be read in a similar manner as a paper record and in a legally dependable format with no less evidentiary value than their paper equivalent.

21. Upon finding a significant non-compliance with the practices described in the SWPPP or violation of GP-0-25-001, NYSDEC may order an immediate stop to all construction activity at the site until the non-compliance is remedied. The stop work order must be in writing, describe the non-compliance in detail, and be sent to the Owner/Operator. Forward a copy of any stop work order received immediately to the Owner's/Operator's Engineer and to the Contractor.

22. If any human remains or archaeological remains are encountered during excavation, the Owner/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.

23. To be authorized to implement modifications to the information previously submitted in the eNOI, the Owner/Operator must notify NYSDEC via email at Stormwater_info@dec.ny.gov requesting access to update the eNOI, update the eNOI to reflect the modifications and resubmit the eNOI in accordance with Part I.D., and receive an updated LOA.

24. The eNOI, SWPPP, LOA, updated LOAs, and inspection reports required by GP-0-25-001 are public documents that the Owner/Operator must make available for review and copying by any person within five (5) business days of the Owner/Operator receiving a written request by any such person to review these documents. Copying of documents will be done at the requester's expense.

25. The Owner/Operator must terminate coverage when the project reaches total project completion, has a planned shutdown with partial project completion, is changing Owner/Operator or has obtained coverage under an alternative general SPDES permit or an individual SPDES permit.

26. Have a qualified inspector perform a final site inspection prior to submitting the eNOT.

27. Have the MS4 sign the MS4 Acceptance statement on the eNOT in accordance with the requirements in Part VII.J.

28. Prior to submitting a Notice of Termination, ensure for SMP(s) that are privately owned, the Owner/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/Operator's deed of record.

29. Submit a complete Notice of Termination form electronically using the NYSDEC eNOT. Coverage is terminated as of the termination date indicated in the Letter of Termination (LOT), which is sent by NYSDEC after a complete eNOT is submitted.

30. Request and receive all SWPPP records from the Owner's/Operator's Engineer and archive those records, along with the LOT, for a period of at least five (5) years from the date that NYSDEC accepts a complete NOT submitted.

31. Implement the Post-Construction Inspections and Maintenance procedures outlined in Appendix G.

32. The Owner/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/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 project 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; and

    c) To address issues or deficiencies identified during an inspection by the "Qualified Inspector," the Department, or other Regulatory Authority.

    d) To document the final construction conditions.

33. 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, in conformance with Part I.G.. 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.

7.2 Owner's/Operator's Engineer's Responsibilities

1. Prepare the SWPPP using good engineering practices, best management practices, and in compliance with all federal, state, and local regulatory requirements.

2. Prepare the electronic Notice of Intent (eNOI) (see Appendix B) and sign the "SWPPP Preparer Certification Form." Forward the Owner/Operator Certification Form to the Owner/Operator for signature.

3. Provide copies of the SWPPP to the Town of West Seneca once all signatures and attachments are complete.

4. Enter Contractor's information in Section 7.5 "SWPPP Participants" once a Contractor is selected by the Owner/Operator.

5. Participate in a pre-construction meeting which shall include the Town of West Seneca representative, Owner/Operator, Qualified Inspector, Contractor, and all subcontractors to discuss responsibilities as they relate to the implementation of this SWPPP.

6. Update the SWPPP each time there is a significant modification to the pollution prevention measures or a change of the principal Contractor working on the project who may disturb site soil.

7.3 Contractor's Responsibilities

1. Sign the SWPPP Contractor's Certification Form contained within Appendix B and forward to the Owner's/Operator's Engineer for inclusion in the Site Log Book.

2. Identify at least one Trained Contractor that will be responsible for implementation of this SWPPP. Ensure that at least one Trained Contractor is on site on a daily basis when soil disturbance activities are being performed. The Trained Contractor shall 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 conditions at all times. For corrective actions not requiring engineering design, the contractor must begin implementing corrective actions within one business day and complete the corrective actions within five business days. For corrective actions requiring engineering design, the engineering design process must begin within five business days and the contractor must complete the corrective action in a reasonable time frame but no later than 60 calendar days.

3. Provide the names and addresses of all subcontractors working on the project site. Require all subcontractors who will be involved with construction activities that will result in soil disturbance to identify at least one Trained Contractor that will be on site on a daily basis when soil disturbance activities are being performed; and to sign a copy of the Subcontractor's Certification Form contained within Appendix B, then forward to the Owner's/Operator's Engineer for inclusion into the Site Log Book. This information must be retained as part of the Site Log Book.

4. Maintain a Spill Prevention and Response Plan in accordance with requirements outlined in Section 5 of this SWPPP. This plan shall be provided to the Owner's/Operator's Engineer for inclusion in the Site Log Book, prior to mobilization on-site.

5. Participate in a pre-construction meeting which shall include the Town of West Seneca representative, Owner/Operator, Owner's/Operator's Engineer, Qualified Inspector, and all subcontractors to discuss responsibilities as they relate to the implementation of this SWPPP.

6. If Contractor plans on utilizing adjacent properties for material, waste, borrow, or equipment storage areas, or if Contractor plans to engage in industrial activity other than construction (such as operating asphalt and/or concrete plants) at the site, Contractor shall submit appropriate documentation to the Owner's/Operator's Engineer so that the SWPPP can be modified accordingly.

7. Implement site stabilization, erosion and sediment control measures, and other requirements of the SWPPP.

8. In accordance with the requirements in the most current version of the NYS Standards and Specifications for Erosion and Sediment Control, conduct inspections of erosion and sediment control measures installed at the site to ensure that they remain in effective operating condition at all times. Prepare and retain written documentation of inspections as well as of

all repairs/maintenance activities performed. This information must be retained as part of the Site Log Book.

9. Begin implementing corrective actions within one (1) business day of receipt of notification by the Qualified Inspector/Qualified Professional of any corrective actions. For corrective actions not requiring engineering design, the contractor must begin implementing corrective actions within one business day and complete the corrective actions within five business days. For corrective actions requiring engineering design, the engineering design process must begin within five business days and the contractor must complete the corrective action in a reasonable time frame but no later than 60 calendar days.

10. Maintain a record of the date(s) and location(s) that soil restoration is performed in accordance with the accompanying plans and NYSDEC Division of Water's publication "Deep-Ripping and Decompaction," dated April 2008. A copy of this publication is provided in Appendix H. The record that is to be maintained shall be a copy of the overall site grading plan delineating the area(s) and date(s) that the soil was restored.

11. Upon completion of all construction at the site, the contractor responsible for overall SWPPP Compliance shall sign the certification on their Contractor Certification Form indicating that: a.) all temporary erosion and sediment control measures have been removed from the site, b.) the on-site soils disturbed by construction activity have been restored in accordance with the SWPPP and the NYSDEC Division of Water's publication "Deep-Ripping and Decompaction," and c.) all permanent stormwater management practices required by the SWPPP have been installed in accordance with the contract documents.

7.4 Qualified Inspector's/Qualified Professional's Responsibilities

1. Participate in a pre-construction meeting with the Town of West Seneca representative, Owner/Operator, Owner/Operator's Engineer, Contractor, and their subcontractors to discuss responsibilities as they relate to the implementation of this SWPPP.

2. Conduct an initial assessment of the site prior to the commencement of construction and certify in an inspection report that the appropriate erosion and sediment control measures described within this SWPPP have been adequately installed and implemented to ensure overall preparedness of the site.

3. Provide on-site inspections to determine compliance with the SWPPP. Site inspections shall occur at an interval of at least once every seven calendar days. A written inspection report shall be provided to the Owner/Operator and general contractor within one business day of the completion of the inspection, with any deficiencies identified. A sample inspection form is provided in Appendix F.

4. Prepare an inspection report subsequent to each and every inspection that shall include/address the items listed in Part IV.C.4 of GP-0-25-001. Sign all inspection reports and maintain on site with the SWPPP.

5. Notify the owner/operator and appropriate contractor or subcontractor of any corrective actions that need to be taken.

6. Prepare a construction Site Log Book to be used as a record of all inspection reports generated throughout the duration of construction. Ensure that the construction Site Log Book is maintained and kept up-to-date throughout the duration of construction.

7. Review the Contractor's SWPPP records on a periodic basis to ensure compliance with the requirements for daily reports, soil restoration, inspections, and maintenance logs.

8. Based on the as-built survey and material testing certifications performed by others, the Qualified Professional shall perform evaluations of the completed stormwater management practices to determine whether they were constructed in accordance with this SWPPP.

9. The Qualified Professional shall conduct a final site assessment and prepare a certification letter to the Owner/Operator indicating that, upon review of the material testing and inspection reports prepared by the firm retained by the Owner/Operator, review of the completed topographic survey, and evaluation of the completed stormwater management facilities, the stormwater management facilities have been constructed substantially in accordance with the contract documents and should function as designed.

10. Prepare the Notice of Termination (NOT). The Qualified Professional shall sign the NOT Certifications VI (Final Stabilization) and VII (Post-construction Stormwater Management Practices) and forward the NOT to the Owner/Operator for signature on Certification VIII (Owner/Operator Certification).

11. The owner's or operator's coverage is terminated as of the termination date indicated in the Letter of Termination (LOT), which is sent by NYSDEC after a complete eNOT is submitted.

12. Transfer the SWPPP documents, along with all NOI's, LOA, permit certificates, NOT's, LOT, construction Site Log Book, and written records required by the General Permit to the Owner/Operator for archiving.

7.5 SWPPP Participants

1. Owner's/Operator's Engineer [3]: Kristopher Winkler, PE
   LaBella Associates, DPC
   300 Pearl Street, Suite 130
   Buffalo, NY 14202
   Phone: (716) 483-3153

2. Owner/Operator [4]: Home Leasing
   75 South Clinton Avenue, Suite 700,
   Rochester, NY 14604
   Phone: 585-262-6210

3. Contractor[5,6]:

   Name and Title: _____

   Company Name: _____

   Mailing Address: _____

   _____

   Phone: _____

   Fax: _____

[3] *Refer to Appendix B for the SWPPP Preparer Certification Form.*
[4] *Refer to Appendix B for the Owner/Operator Certification Form.*
[5] *Refer to Appendix B for Contractor and Subcontractor Certification Form.*
[6] *Contractor's information to be entered once the Contractor has been selected.*

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APPENDIX A: FIGURES

A-1: Site Location Map
A-2: Soils Map
A-3: Historic Places Screening Map
A-4: Environmental Resource Map
A-5: Environmental Review Documentation
A-6: FEMA Firm Map
A-7: Pre-Development Watershed Delineation Map
A-8: Post-Development Watershed Delineation Map

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ISSUED FOR: SWPPP FIGURE - NOT FOR CONSTRUCTION

DRAWING NAME: **SITE LOCATION MAP**

DRAWN BY:	DATE:	PROJECT NO.:
--	04/20/2026	2241067

PROJECT NAME: **WEST SENECA APARTMENTS**
2544 CLINTON ST, WEST SENECA, NY 14224

DRAWING NUMBER: **A-1**

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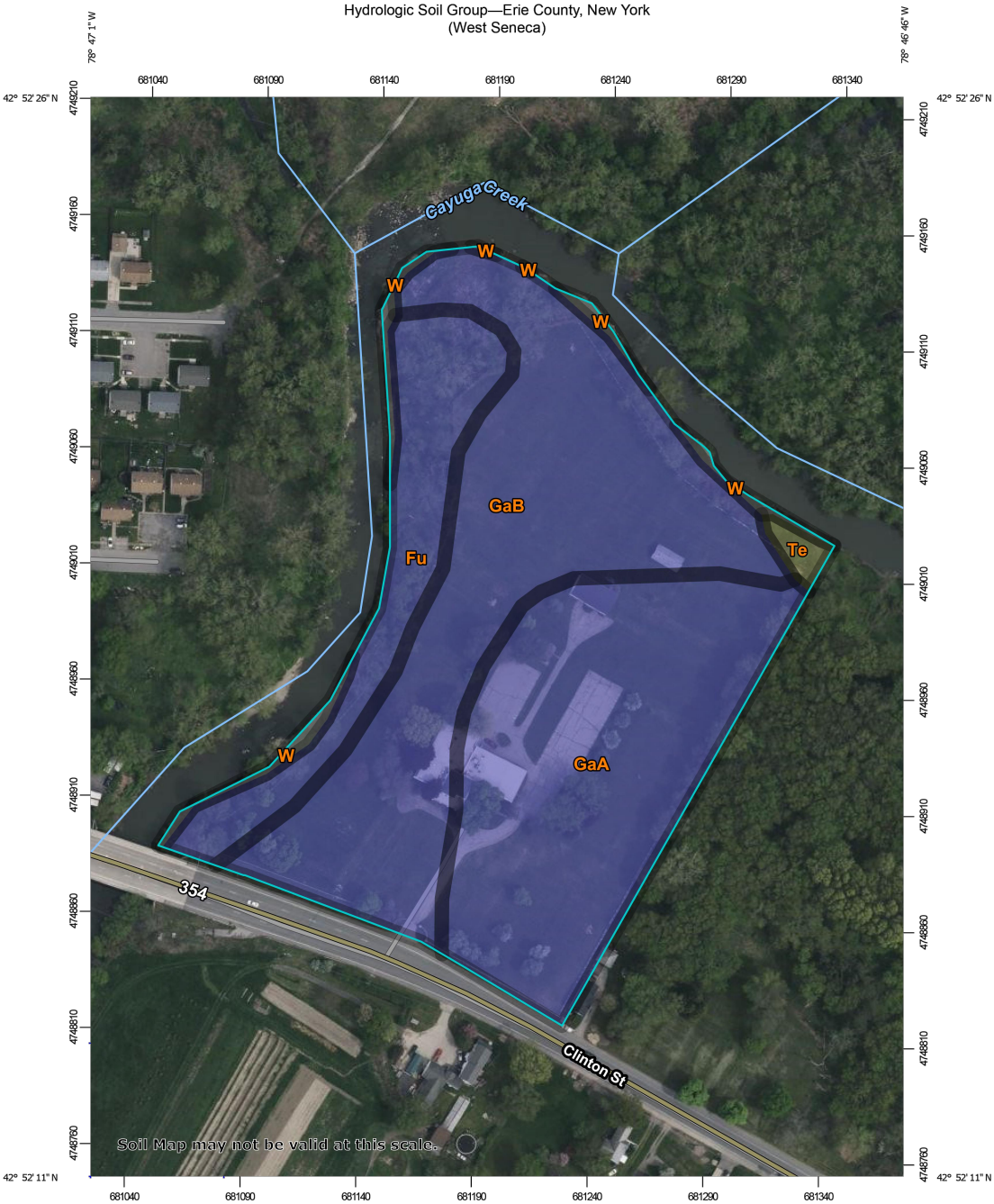
Hydrologic Soil Group—Erie County, New York
(West Seneca)



Natural Resources Conservation Service | Web Soil Survey National Cooperative Soil Survey | 4/13/2026 Page 1 of 4

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ISSUED FOR: SWPPP FIGURE - NOT FOR CONSTRUCTION

DRAWING NAME: **SOILS MAP**

DRAWN BY:

DATE: 04/20/2026

PROJECT NO.: 2241067

PROJECT NAME: **WEST SENECA APARTMENTS**
2544 CLINTON ST, WEST SENECA, NY 14224

DRAWING NUMBER: **A-2a**

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MAP LEGEND

Area of Interest (AOI)
- Area of Interest (AOI)

Soils

Soil Rating Polygons
- A
- A/D
- B
- B/D
- C
- C/D
- D
- Not rated or not available

Soil Rating Lines
- A
- A/D
- B
- B/D
- C
- C/D
- D
- Not rated or not available

Soil Rating Points
- A
- A/D
- B
- B/D
- C
- C/D
- D
- Not rated or not available

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 1:15,800.

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 scale.

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: Erie County, New York
Survey Area Data: Version 25, Sep 4, 2025

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: May 13, 2023—May 27, 2023

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.

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ISSUED FOR: SWPPP FIGURE - NOT FOR CONSTRUCTION

DRAWING NAME: **SOILS LEGEND**

DRAWN BY: --
DATE: 04/20/2026
PROJECT NO.: 2241067

PROJECT NAME: **WEST SENECA APARTMENTS**
2544 CLINTON ST, WEST SENECA, NY 14224

DRAWING NUMBER: **A-2b**

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Hydrologic Soil Group

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
Fu	Fluvaquents and Udifluvents, frequently flooded	A/D	1.7	14.7%
GaA	Galen very fine sandy loam, 0 to 3 percent slopes	A/D	4.4	37.9%
GaB	Galen very fine sandy loam, 3 to 8 percent slopes	A/D	5.2	44.5%
Te	Teel silt loam	B/D	0.1	1.1%
W	Water		0.2	1.8%
Totals for Area of Interest			**11.7**	**100.0%**

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ISSUED FOR: SWPPP FIGURE - NOT FOR CONSTRUCTION

DRAWING NAME: **SOILS TABLE**

DRAWN BY: -- | DATE: 04/20/2026 | PROJECT NO.: 2241067

PROJECT NAME: **WEST SENECA APARTMENTS**
2544 CLINTON ST, WEST SENECA, NY 14224

DRAWING NUMBER: **A-2c**

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Consultation Projects (View)

Survey Archaeology Areas (View)

Survey Building Areas (View)

LPC Historic Districts

Archeologically Sensitive Areas

National Register Building Sites (View)

USN Building Districts (View)

LPC Landmarks

USN Building Points (View)

- Eligible
- Listed
- Not Eligible
- Not Eligible - Demolished
- Undetermined

Cemeteries

Missing or invalid reference

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ISSUED FOR:	SWPPP FIGURE - NOT FOR CONSTRUCTION
DRAWING NAME:	HISTORIC PLACES SCREENING MAP
DRAWN BY:	--
DATE:	04/20/2026
PROJECT NO.:	2241067
PROJECT NAME:	WEST SENECA APARTMENTS 2544 CLINTON ST, WEST SENECA, NY 14224
DRAWING NUMBER:	A-3

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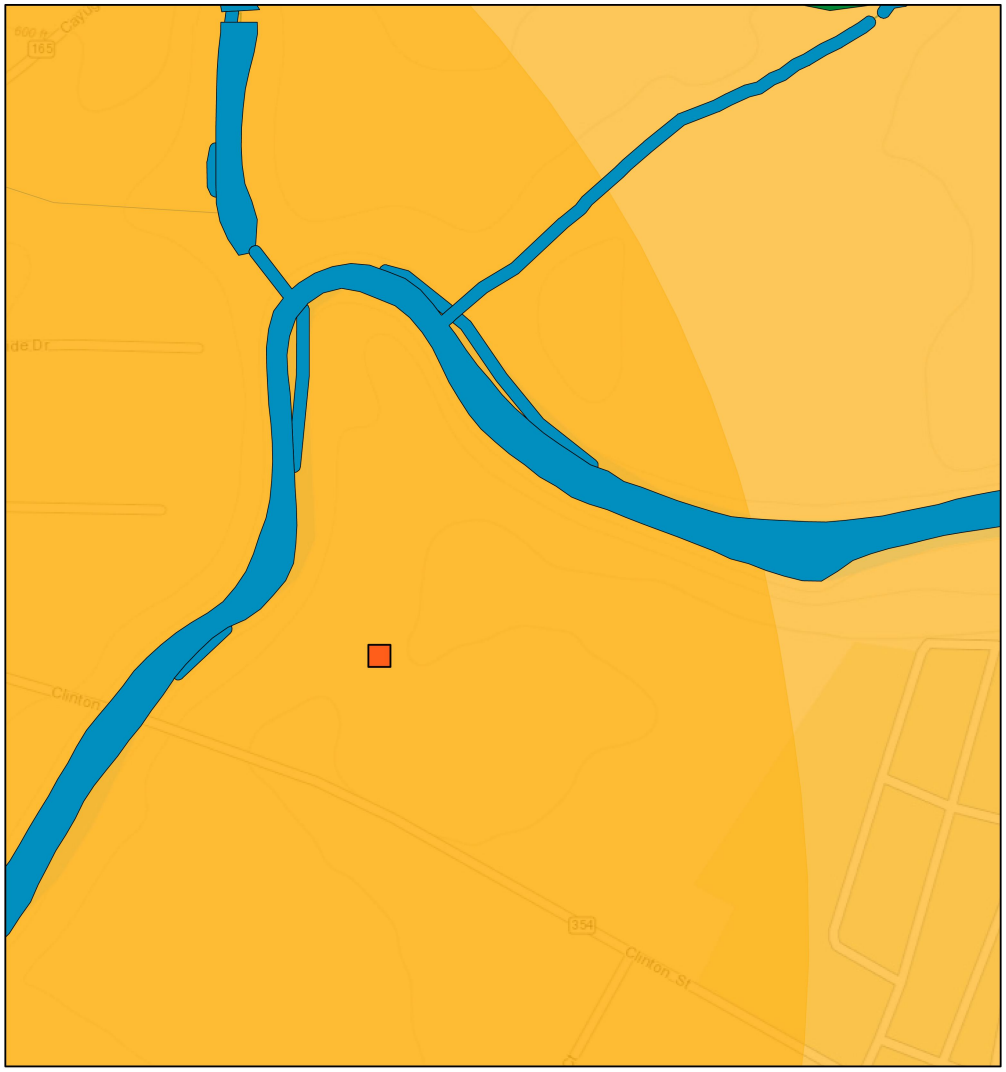
Environmental Resource Mapper



April 16, 2026

1:4,514

0 0.03 0.06 0.11 mi

0 0.04 0.09 0.17 km

- Unique Geological Features
- Waterbody Classifications for Rivers/Streams
- Waterbody Classifications for Lakes

Waterbody Inventory/Priority Waterbodies List
- Lakes and Reservoirs
- Estuaries
- Rivers and Streams
- Shorelines

- State Regulated Freshwater Wetlands (Outside of the Adirondack Park)
- State Regulated Wetland Checkzone
- Significant Natural Communities
- Natural Communities Near This Location
- Rare Plants or Animals

National Wetlands Inventory
- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine

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ISSUED FOR: SWPPP FIGURE - NOT FOR CONSTRUCTION

DRAWING NAME: **ENVIRONMENTAL RESOURCE MAP**

DRAWN BY: --

DATE: 04/20/2026

PROJECT NO.: 2241067

PROJECT NAME: **WEST SENECA APARTMENTS**
2544 CLINTON ST, WEST SENECA, NY 14224

DRAWING NUMBER: **A-4**

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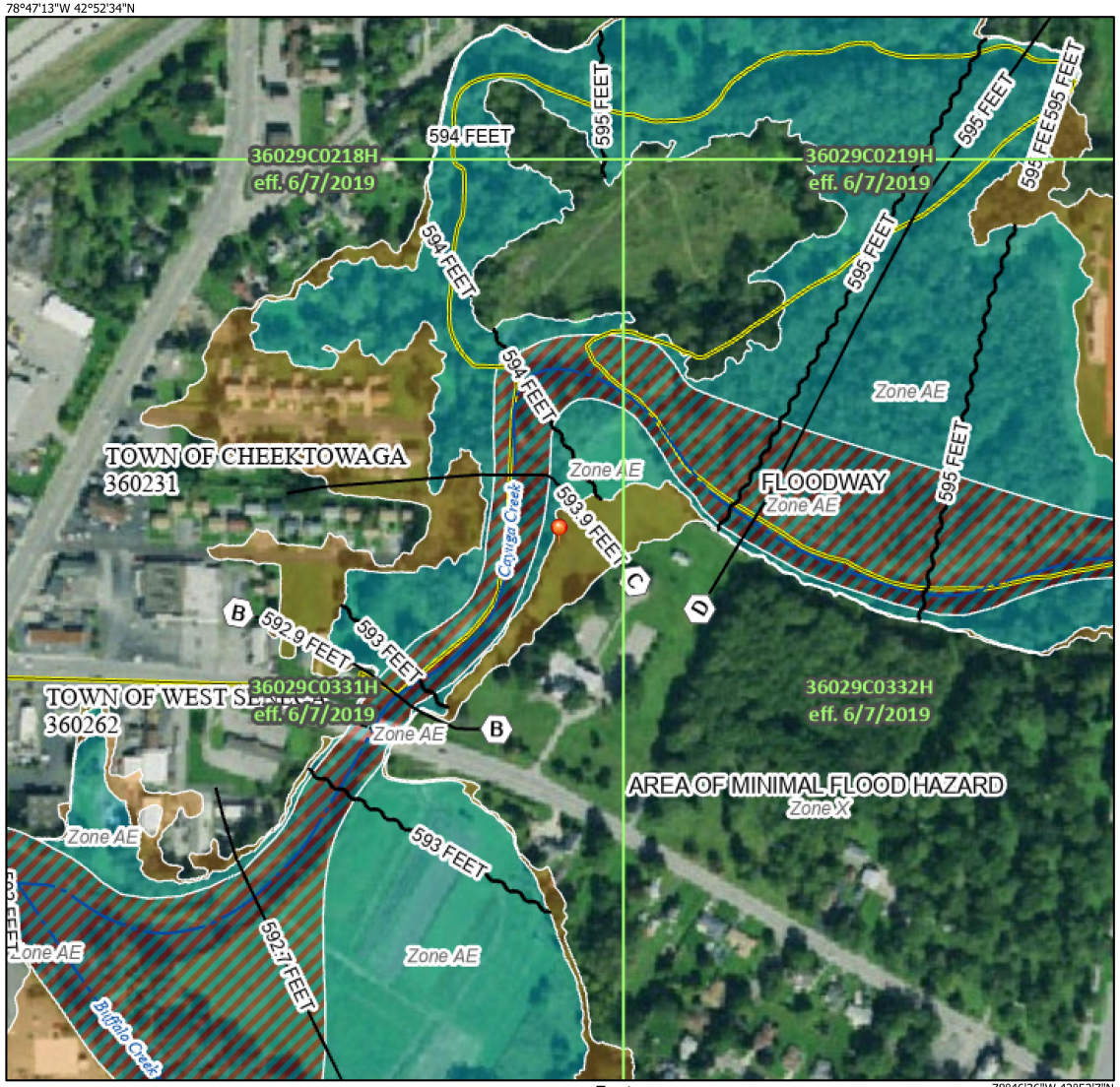
National Flood Hazard Layer FIRMette

FEMA

78°47'13"W 42°52'34"N



Feet

0 250 500 1,000 1,500 2,000

1:6,000

78°46'36"W 42°52'7"N

Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS
- Without Base Flood Elevation (BFE) *Zone A, V, A99*
- With BFE or Depth *Zone AE, AO, AH, VE, AR*
- Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD
- 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile *Zone X*
- Future Conditions 1% Annual Chance Flood Hazard *Zone X*
- Area with Reduced Flood Risk due to Levee. See Notes. *Zone X*
- Area with Flood Risk due to Levee *Zone D*

OTHER AREAS
- NO SCREEN Area of Minimal Flood Hazard *Zone X*
- Effective LOMRs
- Area of Undetermined Flood Hazard *Zone D*

GENERAL STRUCTURES
- Channel, Culvert, or Storm Sewer
- Levee, Dike, or Floodwall

OTHER FEATURES
- B 20.2 17.5 Cross Sections with 1% Annual Chance Water Surface Elevation
- Coastal Transect
- 513 Base Flood Elevation Line (BFE)
- Limit of Study
- Jurisdiction Boundary
- Coastal Transect Baseline
- Profile Baseline
- Hydrographic Feature

MAP PANELS
- Digital Data Available
- No Digital Data Available
- Unmapped

N

The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 4/6/2026 at 2:34 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

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ISSUED FOR:		
SWPPP FIGURE - NOT FOR CONSTRUCTION		
DRAWN BY: --	DATE: 04/20/2026	PROJECT NO.: 2241067

DRAWING NAME: **FEMA FIRM MAP**

PROJECT NAME: **WEST SENECA APARTMENTS**
2544 CLINTON ST, WEST SENECA, NY 14224

DRAWING NUMBER: **A-5**

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WEST SENECA COURT ROOM
1250 Union Road
West Seneca, NY 14224

TOWN BOARD PROCEEDINGS
Minutes #2025-02
January 27, 2025

ROLL CALL: Present Supervisor Dickson
Councilmember Breidenstein
Councilmember Kims
Councilmember Piekarec
Councilmember Robertson

Absent None

Supervisor Dickson read the Fire Prevention Code instructing the public where to exit in case of a fire, or an emergency was stated.

APPROVAL OF AGENDA
1. Town Clerk re Approval of Agenda as submitted

Motion by Supervisor Dickson, seconded by Councilmember Piekarec, to approve the agenda with the additional item from the Director of Senior Services.

Ayes: All Noes: None Motion Carried

MINUTES TO BE APPROVED
1. Town Clerk Newton re Reorganizational Meeting Minutes from January 13, 2025

Motion by Supervisor Dickson, seconded by Councilmember Robertson, to approve the Reorganizational Meeting Minutes from January 13, 2025.

Ayes: All Noes: None Motion Carried

2. Town Clerk re Meeting Minutes 2025-01 of January 13, 2025

Motion by Supervisor Dickson, seconded by Councilmember Kims, to approve Meeting Minutes 2025-01 of January 13, 2025.

Ayes: All Noes: None Motion Carried

PUBLIC COMMENTS
Courtney Fallon, Treehaven Road, referred to Communications Item No. 10, Summer employee bonus:
- ✓ Requested the Town Board not to approve the item and in her opinion the bonus should be higher for water safety instructors
- ✓ Recommended terms to better accommodate pool staff, specifically college students
- ✓ Qualification 4.d in her opinion does not accommodate employees' scheduling challenges, for example, summer school

Mary Jane Held, 1442 Orchard Park Road, referred to the proposed project at 1425 Orchard Park Road:
- ✓ Is opposed to the project and suggested a dog park instead – Supervisor Dickson stated the town is reviewing adding a dog park and NYS is planning to add sidewalks along Orchard Park Road.
- ✓ Is concerned about additional traffic

TABLED ITEM
1. Code Enforcement re Request for special use permit – 1850 Union Road

The item remained tabled.

OLD BUSINESS

1. Code Enforcement re Rezone & Special Use Permit – 1425 Orchard Park Road

Code Enforcement Officer Schieber stated the following information has been received:

- ✓ Fully coordinated SEQR
- ✓ SHPO clearance regarding a full investigation of the archeologically sensitive area near cemetery
- ✓ NYSDOT have no objections to the traffic generated by the project

Town Engineer Foote stated the lining of the trunk sewers is reducing overflow occurrences.

Councilmember Breidenstein questioned Mr. Foote on the completion date of the Phase 8 project. Mr. Foote stated he anticipates the project will be completed this summer noting the lining will be completed this spring.

Councilmember Piekarec stated he is in favor of the project and noted he does not agree with the Town Board having tabled the project last year.

Councilmember Kims stated in her opinion it was prudent of the town to address the downstream sewer problems before approving the project.

Motion by Supervisor Dickson, seconded by Councilmember Breidenstein, to approve the request for rezoning and special use permit for property located at 1425 Orchard Park Road, changing its classification from C- 1 and R-75 to C-1(S) for construction of a multi-unit residential development.

On the question, Councilmember Breidenstein recognized the Engineering Departments efforts to clear the sewer lines and acknowledged the concerns of residents whose basements have flooded on a routine basis. Furthermore, Councilmember Breidenstein stated that sometimes government takes time, however we have a responsibility to the residents and developers to get it right.

Supervisor Dickson further advised there is a playground for children at the school and would support a town shared playground for the neighborhood.

Ayes: All Noes: None Motion Carried

Motion by Supervisor Dickson, seconded by Councilmember Piekarec, to adopt the following resolution:

WHEREAS, the Town Board of the Town of West Seneca, as lead agency acting pursuant to the State Environmental Quality Review Act, Article 8 of the New York State Environmental Conservation Law, has reviewed Part I of the Short Environmental Assessment Form ("EAF") prepared by the applicant for property located at 1425 Orchard Park Road ("Subject Property"), for construction of a new 30 unit multi-family residential development and associated site work and parking (the "Project"), and reviewed the draft completed Part II and Part III of the EAF analyzing the potential for the Project to result in any significant adverse environmental impacts and has otherwise taken a hard look at the identified potential environmental impacts utilizing the criteria specified in 6 NYCRR 617.7(c); and

WHEREAS, the Erie County Division of Planning, after carefully and fully reviewing a description of the proposed project, along with the application and other documents as submitted to the Town of West Seneca, replied in writing that the project was to be of local concern; and

WHEREAS, the Town Board held a public hearing which was properly noticed to the public wherein the project was discussed; and

WHEREAS, the Town Board herein determines that it shall act as lead agency for such purposes and there has been no opposition thereto by any other interested agency; and

WHEREAS, the Town Board, carefully and fully reviewed the application including the following documents submitted by the applicant and other interested entities: Response from DEC, SHPO, NYSDOT, Army Corp of Engineers, and the reports of Powers Archaeology, LLC; and

WHEREAS, the Town Board, upon taking an independent hard look and reasoned evaluation of all of the above-referenced information, comments and written documentation with regard to the project;

WHEREAS, upon review of Parts I, II, and III of the EAF and documentation and plans submitted by the applicant in connection with the review of the Project, the Town Board has not identified any potentially significant adverse environmental impacts associated with the proposed use of the Subject Property, has determined that this is an unlisted action and preparation of a Full Environmental Impact Statement is not necessary and that the issuance of a Negative Declaration is therefore appropriate; now, therefore, be it

RESOLVED that pursuant to 6 NYCRR 617.7(a) the Town Board hereby accepts its designation as lead agency and does hereby adopt a Negative Declaration with respect to the Project based on its determination that the Project will not result in any potentially significant adverse environmental impacts.

Ayes: All Noes: None Motion Carried

2. Code Enforcement re Rezone & Special Use Permit – 2544 Clinton Street

Mr. Schieber stated the applicant has provided the following:

- ✓ Adjusted conceptual plan for the addition of parking spaces
- ✓ Information and schematics for the existing mansion building to temporarily house residents in the event of emergencies
- ✓ Cover letter

Town Attorney Trapp stated he sent letters to the Seneca Nation and received no response which can be interpreted as agreement with SHPO. The West Seneca Central School District indicated that they have sufficient capacity for the program. The SEQR documents are in front of the Town Board and a full EAF for the site was completed.

Supervisor Dickson stated he received a letter from the West Seneca Superintendent indicating her full support of the project.

Councilmember Breidenstein addressed the concerns he expressed about the project:

- ✓ Lack of a response from Seneca Nation – Councilmember Breidenstein's own correspondence went unanswered
- ✓ Parking spaces – Questioned the number of handicapped spaces required in the town code. Mr. Schieber stated the number is determined by the overall quantity of the site and 2-3 handicapped spaces are required per 100; the applicant exceeds this amount.

- ✓ Sidewalks – NYS has indicated sidewalks will not be added to Clinton Street and questioned if sidewalks have been added by the developer. Mr. Schieber referred to the drawing and stated sidewalks are included in the interior of the development. Additionally, NYS requested the development carry the sidewalk out of the property west on Clinton Street up to the bridge area.
- ✓ Did not see elevators or lifts in the plans of the 3-story buildings and questioned how individuals with mobility issues will be accommodated – Mr. Schieber stated the applicant will address the question.
- ✓ Concerned that the dumpster site is inadequate for the property – Supervisor Dickson stated he understands the Planning Board can review and recommend changes or additions.
- ✓ How many electric car charging stations will be installed accommodated – Mr. Schieber stated the applicant will address the question.
- ✓ Is the entire parcel being rezoned – Mr. Schieber stated the entire parcel and noted the remainder is not suitable for development.

Councilmember Piekarec questioned if the current M-1 zoning allows manufacturing businesses. Mr. Schieber confirmed this. Councilmember Piekarec questioned if the town requires any new projects to include electric car charging stations. Mr. Schieber stated the requirement is not in the town code but is regularly discussed at the Planning Board meetings. Councilmember Piekarec stated in his opinion most of the residents will have gasoline powered vehicles.

Dan Brock of LaBella Associates made the following comments:

- ✓ Handicap parking spaces were addressed
- ✓ ADA compliant units are located on the ground floors of buildings and the plans meet all NYS requirements
- ✓ Dumpsters are for garbage overflow, each unit will have a tote – Councilmember Breidenstein questioned what party will be responsible for garbage collection and mentioned a concern with the garbage generated by parties moving in and out of the development. Mr. Brock understands it will be the developer's responsibility and will investigate the particulars of collection.
- ✓ NYS guidelines require a certain number of electric vehicle charging stations and the plans accommodate 5 stations

Councilmember Piekarec asked if the sidewalks are ADA compliant along the length of the property. Mr. Brock confirmed the development must be ADA compliant. Councilmember Piekarec asked if the community mansion can accommodate all residents. Mr. Brock stated that there will be enough room to accommodate 200 people and noted there are office spaces that will be on a generator and can accommodate additional people.

Councilmember Robertson asked which power company will service the development. Mr. Brock stated NYSEG will supply electricity. Councilmember Robertson stated he does not believe the location is right for an all-electric community and added the condition that the applicant must provide the development plans to NYSEG for the utility company's review and approval. NYSEG's report will be submitted to the town.

Councilmember Piekarec asked Mr. Schieber and Mr. Foote if the applicant is required as a part of the site plan process to obtain approval from the electric company for hook-ups. Mr. Schieber stated in this instance, he will reach out to his contacts to facilitate this request.

Councilmember Breidenstein questioned if school buses will be able to navigate the site. Mr. Brock stated buses are generally provided with a central loop and accessible areas for the students.

Motion by Supervisor Dickson, seconded by Councilmember Piekarec, to approve the request for rezoning and special use permit for property located at 2544 Clinton Street changing its classification from M-1 to R-

50(S) for construction of multiple family dwelling with all related site improvements with the condition that the applicant contact NYSEG and receive approval for the electrical development and that the report will be sent to the Town Board and Planning Board.

Ayes: All Noes: None Motion Carried

Motion by Supervisor Dickson, seconded by Councilmember Piekarec, to adopt the following resolution:

WHEREAS, the Town Board of the Town of West Seneca, as lead agency acting pursuant to the State Environmental Quality Review Act, Article 8 of the New York State Environmental Conservation Law, has reviewed Part I of the Full Environmental Assessment Form ("FEAF") prepared by the applicant for property located at 2544 Clinton Street ("Subject Property"), for development of affordable housing multi-family residential units and associated site work and parking (the "Project"), and reviewed the draft completed Part II and Part III of the EAF analyzing the potential for the Project to result in any significant adverse environmental impacts and has otherwise taken a hard look at the identified potential environmental impacts utilizing the criteria specified in 6 NYCRR 617.7(c); and

WHEREAS, the Erie County Division of Planning, after carefully and fully reviewing a description of the proposed project, along with the application and other documents as submitted to the Town of West Seneca, replied in writing that the project was to be of local concern; and

WHEREAS, the Town Board held a public hearing which was properly noticed to the public wherein the project was discussed; and

WHEREAS, the Town Board herein determines that it shall act as lead agency for such purposes and there has been no opposition thereto by any other interested agency; and

WHEREAS, the Town Board, carefully and fully reviewed the application including the following documents submitted by the applicant and other interested entities: Response from DEC, SHPO, NYSDOT, West Seneca Central School District, and the reports and submissions from LaBella, PC; and

WHEREAS, the Town Board, upon taking an independent hard look and reasoned evaluation of all of the above-referenced information, comments and written documentation with regard to the project;

WHEREAS, upon review of Parts I, II, and III of the FEAF and documentation and plans submitted by the applicant in connection with the review of the Project, the Town Board has not identified any potentially significant adverse environmental impacts associated with the proposed use of the Subject Property, has determined that this is an unlisted action and preparation of a Full Environmental Impact Statement is not necessary and that the issuance of a Negative Declaration is therefore appropriate; now, therefore, be it

RESOLVED that pursuant to 6 NYCRR 617.7(a) the Town Board hereby accepts its designation as lead agency and does hereby adopt a Negative Declaration with respect to the Project based on its determination that the Project will not result in any potentially significant adverse environmental impacts.

Councilmember Breidenstein noted that he experienced internet issues today and was unable to download and view the materials that were sent to him today and will be abstaining for that reason.

Ayes: 4 (Dickson, Kims, Piekarec, Robertson) Abstain: 1 (Breidenstein) Noes: None Motion Carried

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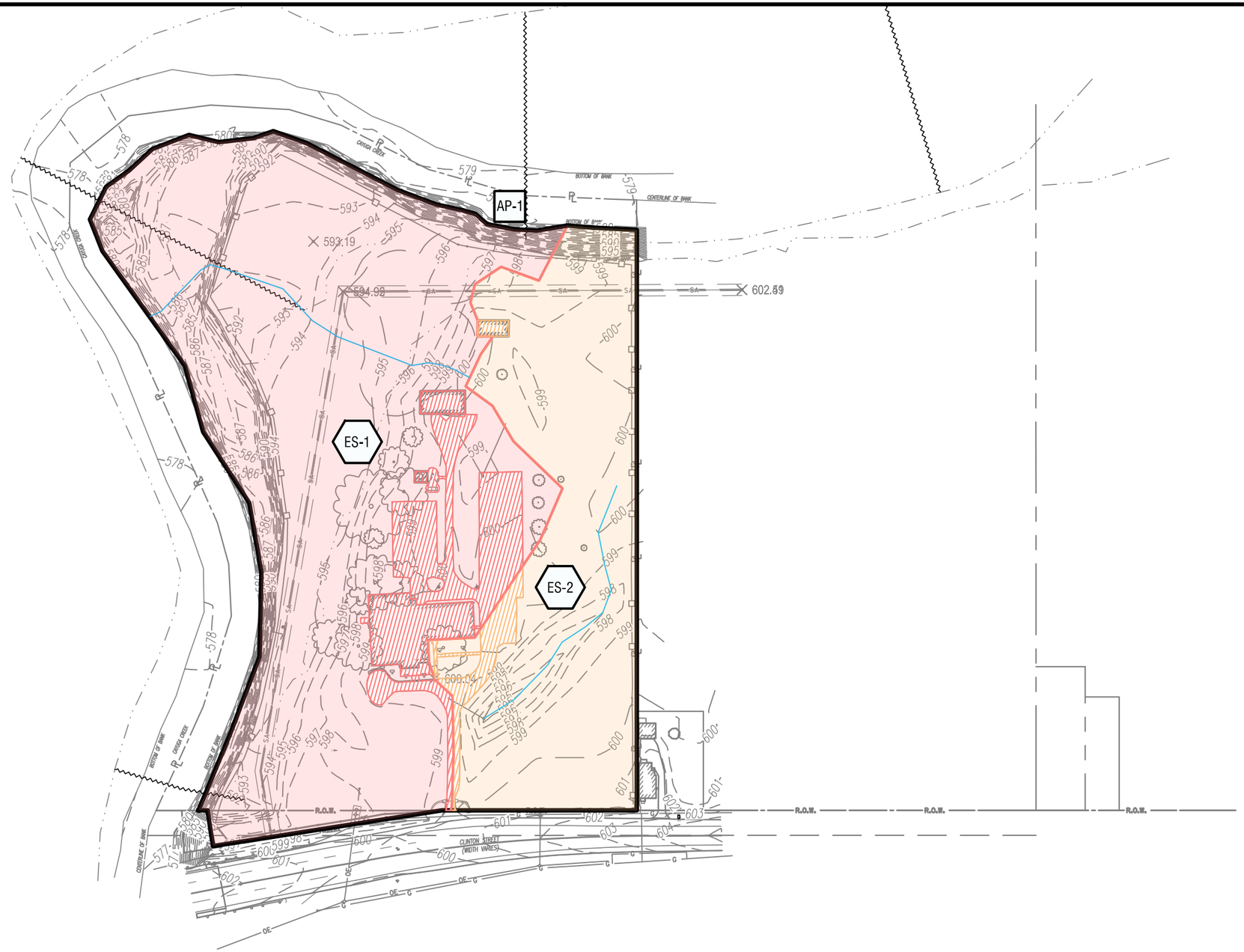

LEGEND

- SUBCATCHMENT BOUNDARY
- Tc PATH
- # SUBCATCHMENT
- # REACH

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It is a violation of New York Education Law Article 145 Sec.7209, for any person, unless acting under the direction of a licensed architect, professional engineer, or land surveyor, to alter an item in any way. If an item bearing the seal of an architect, engineer, or land surveyor is altered; the altering architect, engineer, or land surveyor shall affix to the item their seal and notation "altered by" followed by their signature and date of such alteration, and a specific description of the alteration.

ISSUED FOR: SWPPP FIGURE - NOT FOR CONSTRUCTION

DRAWING NAME: **PRE-DEVELOPMENT WATERSHED DELINEATION MAP**

DRAWN BY:

DATE: 04/20/2026

PROJECT NO.: 2241067

PROJECT NAME: **WEST SENECA APARTMENTS**
2544 CLINTON STREET, BUFFALO, NY 14224

DRAWING NUMBER: **A-6**

VERSION 21.1
4/20/2026 10:59:33 AM

LEGEND

- SUBCATCHMENT BOUNDARY
- Tc PATH
- # SUBCATCHMENT
- # REACH
- # POND

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It is a violation of New York Education Law Article 145 Sec.7209, for any person, unless acting under the direction of a licensed architect, professional engineer, or land surveyor, to alter an item in any way. If an item bearing the seal of an architect, engineer, or land surveyor is altered; the altering architect, engineer, or land surveyor shall affix to the item their seal and notation "altered by" followed by their signature and date of such alteration, and a specific description of the alteration.

ISSUED FOR: SWPPP FIGURE - NOT FOR CONSTRUCTION

DRAWING NAME: **POST-DEVELOPMENT WATERSHED DELINEATION MAP**

DRAWN BY:

DATE: 04/20/2026

PROJECT NO.: 2241067

PROJECT NAME: **WEST SENECA APARTMENTS**
2544 CLINTON STREET, BUFFALO, NY 14224

DRAWING NUMBER: **A-7**

VERSION 21.1
4/20/2026 11:02:52 AM

APPENDIX B: FORMS

Notice of Intent (NOI) Draft
MS4 SWPPP Acceptance Form
SWPPP Preparer Certification Form
Owner/Operator Certification Form
Contractor and Subcontractor Certification Forms
Notice of Termination (NOT)

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MS4 SWPPP Acceptance Form

for construction activities seeking authorization under the

SPDES General Permit for Stormwater Discharges from Construction Activity, GP-0-25-001 (CGP)

(In accordance with CGP Part I.D.2.b., the completed form must be attached to the eNOI and submitted to NYSDEC electronically.)

I. Project Owner/Operator Information
1. Owner/Operator Name:
2. Contact Person:
3. Street Address:
4. City/State/Zip:
II. Project Site Information
5. Project/Site Name:
6. Street Address:
7. City/State/Zip:
III. Stormwater Pollution Prevention Plan (SWPPP) Review and Acceptance Information
8. SWPPP Reviewed by:
9. Title/Position:
10. Date Final SWPPP Reviewed and Accepted:
IV. Regulated MS4 Information
11. Name of MS4 Operator:
12. MS4 SPDES Permit Identification Number: NYR20A
13. Street Address:
14. City/State/Zip:
15. Telephone Number:

MS4 SWPPP Acceptance Form - continued

V. Certification Statement - MS4 Official (principal executive officer or ranking elected official) or Duly Authorized Representative

I hereby certify that the final Stormwater Pollution Prevention Plan (SWPPP) for the construction project identified in section II. of this form has been reviewed and meets the substantive requirements in the SPDES General Permit for Stormwater Discharges from Construction Activity, GP-0-25-001 (CGP). Note: The MS4 Operator, through the acceptance of the SWPPP, assumes no responsibility for the accuracy and adequacy of the design included in the SWPPP. In addition, review and acceptance of the SWPPP by the MS4 Operator does not relieve the owner/operator or their SWPPP preparer of responsibility or liability for errors or omissions in the plan.

Printed Name[1]:

Title/Position:

Signature:

Date:

VI. Additional Information

[1] Printed name of the principal executive officer or ranking elected official for the MS4 Operator or their duly authorized representative in accordance with CGP Part VII.J.2.

SWPPP Preparer Certification Form

SPDES General Permit for Stormwater Discharges from Construction Activity, GP-0-25-001 (CGP)

(In accordance with CGP Part I.D.2.b., the completed form must be attached to the eNOI and submitted to NYSDEC electronically.)

Project/Site Name:

eNOI Submission ID:

Owner/Operator Name:

Certification Statement – SWPPP Preparer

I hereby certify that the Stormwater Pollution Prevention Plan (SWPPP) has been prepared in accordance with the requirements of GP-0-25-001. I certify under penalty of law that the SWPPP and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

SWPPP Preparer First Name | MI | SWPPP Preparer Last Name

Signature | Date

Revised: January 2025

Owner/Operator Certification Form

SPDES General Permit for Stormwater Discharges from Construction Activity, GP-0-25-001 (CGP)

(In accordance with CGP Part I.D.2.b. or Part I.F.2. and 3., the completed form must be attached to the eNOI or the Request to Continue Coverage, and submitted to NYSDEC electronically.

Project/Site Name: _____

eNOI Submission ID: _____

eNOI Submitted by: ☐ **Owner/Operator** ☐ **SWPPP Preparer** ☐ **Other**

Certification Statement - Owner/Operator

I hereby certify that I read, and will comply with, the GP-0-25-001 permit requirements. I understand that authorization to discharge under the permit for the project/site named above is dependent on receipt of a Letter of Authorization (LOA) or a Letter of Continued Coverage (LOCC) from the New York State Department of Environmental Conservation (NYSDEC) in accordance with CGP Part I.D.3.b. or Part I.F.4. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Owner/Operator First Name MI Owner/Operator Last Name

_____

Signature

_____

Date

Revised: January 2025

Stormwater Pollution Prevention Plan
Contractor Certification Statement
(Responsible for overall SWPPP Compliance)

West Seneca
Town of West Seneca, Erie County, New York

This is to certify that the following contracting firm will be responsible for installing, constructing, repairing, inspecting and/or maintaining the erosion and sediment control practices and post-construction stormwater management control practices required by the SWPPP.

Contracting Firm Information

Name: _____

Address: _____

Telephone & Fax: _____

Trained Contractor(s)[1] Responsible for SWPPP Implementation (Provide name, title, and date of last training)

_____

_____

Prior to commencement of construction activity, the following certification shall be issued:

I hereby certify under penalty of law that I understand and agree to comply with the requirements 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 requirements of the most current version of the New York State Pollutant Discharge Elimination System (SPDES) Construction General Permit (CGP) 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

Printed Name: _____

Title/Position: _____

Signature: _____ Date: _____

Upon completion of construction activities, the following certification shall be issued, prior to issuance of the NOT:

I hereby certify that that all permanent stormwater management practices required by the SWPPP have been installed in accordance with the contract documents. I further certify that all temporary erosion and sediment control measures have been removed from the site, and that the on-site soils disturbed by construction activity have been restored in accordance with the SWPPP and the NYSDEC Division of Water's publication "Deep-Ripping and Decompaction".

Printed Name: _____

Title/Position: _____

Signature: _____ Date: _____

[1] "Trained Contractor" means an employee from a contracting (construction) company 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 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" will be responsible for the day to day implementation of the SWPPP.

Stormwater Pollution Prevention Plan
Subcontractor Certification Statement
(whose work involves soil disturbance)

West Seneca
Town of West Seneca, Erie County, New York

Each Subcontractor whose work will involve soil disturbance of any kind is required to complete and sign this Certification Statement before commencing any construction activity at the site. This completed Certification Statement(s) shall be maintained at the construction site in the Site Log Book.

Subcontracting Firm Information

Name: _____

Address: _____

_____

Telephone & Fax: _____

Trained Contractor(s)[2] Responsible for SWPPP Implementation (Provide name, title, and date of last training)

_____

_____

Prior to commencement of construction activities, the following certification shall be issued:

I hereby certify under penalty of law that I understand and agree to comply with the requirements 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 requirements of the most current version of the New York State Pollutant Discharge Elimination System (SPDES) Construction General Permit (CGP) 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

Printed Name: _____

Title/Position: _____

Signature: _____ Date: _____

[2] "Trained Contractor" means an employee from a contracting (construction) company 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 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" will be responsible for the day to day implementation of the SWPPP.

eNOT Owner or Operator Certification

for construction activities seeking termination from the

SPDES General Permit for Stormwater Discharges from Construction Activity, GP-0-25-001 (CGP)

(The completed form must be attached to the eNOT, which must be submitted to NYSDEC electronically in accordance with CGP Part V.A.5.)

I. Project Owner/Operator Information

a. Owner/Operator Name:

b. Contact Person:

c. Street Address:

d. City/State/Zip:

II. Project Site Information

a. Project/Site Name:

b. Street Address:

c. City/State/Zip:

d. CGP SPDES Permit ID:

III. Certification Statement

I certify that I have met the requirements of CGP Part V.A.1., 2., 3., and 4. I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

a. Printed name of the Owner or Operator:

b. Title/Position:

c. Signature:

d. Date:

eNOT Qualified Inspector Certification – Final Stabilization

for construction activities seeking termination from the

SPDES General Permit for Stormwater Discharges from Construction Activity, GP-0-25-001 (CGP)

(The completed form must be attached to the eNOT, which must be submitted to NYSDEC electronically in accordance with CGP Part V.A.5.)

I. Project Owner/Operator Information

a. Owner/Operator Name:

b. Contact Person:

c. Street Address:

d. City/State/Zip:

II. Project Site Information

a. Project/Site Name:

b. Street Address:

c. City/State/Zip:

d. CGP SPDES Permit ID:

III. Certification Statement

I hereby certify that all the requirements in CGP Part V.A.1.a.i., ii., and iii. or CGP Part V.A.1.b.i., ii., and iii. have been achieved. I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

a. Printed name of the Qualified Inspector:

b. Title/Position:

c. Signature:

d. Date:

eNOT Qualified Inspector Certification – SMPs

for construction activities seeking termination from the

SPDES General Permit for Stormwater Discharges from Construction Activity, GP-0-25-001 (CGP)

(The completed form must be attached to the eNOT, which must be submitted to NYSDEC electronically in accordance with CGP Part V.A.5.)

I. Project Owner/Operator Information

a. Owner/Operator Name:

b. Contact Person:

c. Street Address:

d. City/State/Zip:

II. Project Site Information

a. Project/Site Name:

b. Street Address:

c. City/State/Zip:

d. CGP SPDES Permit ID:

III. Certification Statement

I hereby certify that all the requirements in CGP Part V.A.1.a.iv. or CGP Part V.A.1.b.iv. have been achieved. I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

a. Printed name of the Qualified Inspector:

b. Title/Position:

c. Signature:

d. Date:

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APPENDIX C: PROJECT EVALUATION AND DESIGN CALCULATIONS

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P=	1.00	*inch*

AREA	Total Area *(Acres)*	Existing Imperv *(Acres)*	Proposed Imperv *(Acres)*	Existing Disturbed Imperv Area *(Acres)*	Imperv Reduction *(Acres)*
TO ALTERNATIVE PRACTICES	2.13	0.47	1.91	0.47	0%
TO AREA REDUCTION SMPS					
SITE REMAINING AREA	3.55	0.59	1.07	0.35	0%
TOTAL SITE	5.68	1.06	2.98	0.82	0%

Water Quality Volume Calculation

New Development / Redevelopment	WQv Treatment %	Total Area *(Acres)*	Exist Disturbed Imperv Area (REDEVELOPMENT) (Acres)	Imperv Area (NEW DEVELOPMENT) *(Acres)*	Percent Impervious *%*	Rv	WQv *(ft^3)*	WQv Adjusted *(ft^3)*	TOTAL WQV REQUIRED *(ft^3)*	System Generated Notes
REDEVELOPMENT ALTERNATIVE	75%	0.47	0.47	-	100%	0.95	1,621	1,216	8,672	
NEW DEVELOPMENT ALTERNATIVE	100%	1.66	-	1.44	87%	0.83	5,006	5,006		
REDEVELOPMENT REMAINING AREA	25%	0.35	0.35	-	100%	0.95	1,207	302		
NEW DEVELOPMENT REMAINING AREA	100%	3.20	-	0.48	15%	0.19	2,149	2,149		

Minimum Runoff Reduction Volume Calculation

AREA	Total Impervious Area Added (NEW DEVELOPMENT) *(Acres)*	Soil Group A *%*	Soil Group B *%*	Soil Group C *%*	Soil Group D *%*	Percent Impervious *%*	Rv	Weighted S Factor	MINIMUM RRv REQUIRED *(ft^3)*	System Generated Notes
TOTAL SITE	1.92	0%	0%	0%	100%	100%	0.95	0.20	1,324	

Step 2 - Calculate Water Quality Volume

Is this project subject to Section 4.3 of the NYS Design Manual for Enhanced Phosphorus Removal?	No
What is the nature of this construction project?	Redevelopment with increase in impervious area

Design Point:	1		*Enter 90% Rainfall Event as P*
P=	1.00	inches	

Calculate Required WQv

Drainage Area Number	Contributing Area (Acres)	Impervious Area (Acres)	Percent Impervious %	Rv	WQv (cf)	SMP Description
1	0.63	0.22	34	0.36	817	Filtration Bioretention
2	1.70	1.48	87	0.83	5,144	Flow Based Alternative Practice
3	0.65	0.22	33	0.35	829	Filtration Bioretention
4	0.68	0.48	71	0.69	1,692	Filtration Bioretention
5	0.43	0.43	100	0.95	1,483	Flow Based Alternative Practice
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						
Total	4.09	2.82	69	0.67	**9964**	**Required WQv**

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Filtration Bioretention (F-5)

Design Point:	1

Enter Site Data For Drainage Area to be Treated by Practice							
Drainage Area Number	**Contributing Area** (Acres)	**Impervious Area** (Acres)	**Percent Impervious** %	**Rv**	**WQv** (cf)	**Precipitation** (in)	**Description**
1	0.63	0.22	34	0.36	817	1.00	Filtration Bioretention

Design Criteria		
Enter underlying soil infiltration rate (based on geotechnical testing, refer to Appendix D)	0	Underdrains required
Is the contributing area to the practice a stormwater hotspot?	No	
Is the practice the first in series for treatment of a Level 1 (Infiltration Restricted) hotspot?	No	
Is contributing area greater than max. contributing area?	No	
Enter depth to seasonal high water table (ft)	6	
Enter depth to bedrock (ft)	6	
Is pretreatment provided, in conformance with Section 6.4.3.1	Yes	
Enter average height of ponding (ft)	0.5	
Enter depth of surface layer (inches)	3	
Enter depth of filter media (ft)	2.5	
Enter depth of drainage layer (inches)	10	
Enter slope of maintenance access (%)	1	
Enter width of maintenance access (ft)	12	

Sizing Criteria				
		Value	Units	Notes
Permeability Flow Rate	k	1	ft/day	
Filter Time	tf	2	days	
Required Filter Area	Af	340	sf	
Enter Provided Filter Area	Af	340	sf	
Recalculated Water Quality Volume (based on provided filter area)	WQv calc	816	cf	

Calculate Runoff Reduction			
RRv Provided	**326**	***cf***	
WQv Treated	491	cf	This is the portion of the WQv that is not reduced in the practice.

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Filtration Bioretention (F-5)

Design Point:	1

Enter Site Data For Drainage Area to be Treated by Practice							
Drainage Area Number	**Contributing Area** (Acres)	**Impervious Area** (Acres)	**Percent Impervious** %	**Rv**	**WQv** (cf)	**Precipitation** (in)	**Description**
3	0.65	0.22	33	0.35	829	1.00	Filtration Bioretention

Design Criteria		
Enter underlying soil infiltration rate (based on geotechnical testing, refer to Appendix D)	0	Underdrains required
Is the contributing area to the practice a stormwater hotspot?	No	
Is the practice the first in series for treatment of a Level 1 (Infiltration Restricted) hotspot?	No	
Is contributing area greater than max. contributing area?	No	
Enter depth to seasonal high water table (ft)	6	
Enter depth to bedrock (ft)	6	
Is pretreatment provided, in conformance with Section 6.4.3.1	Yes	
Enter average height of ponding (ft)	0.5	
Enter depth of surface layer (inches)	3	
Enter depth of filter media (ft)	2.5	
Enter depth of drainage layer (inches)	10	
Enter slope of maintenance access (%)	1	
Enter width of maintenance access (ft)	12	

Sizing Criteria				
		Value	Units	Notes
Permeability Flow Rate	k	1	ft/day	
Filter Time	tf	2	days	
Required Filter Area	Af	345	sf	
Enter Provided Filter Area	Af	348	sf	
Recalculated Water Quality Volume (based on provided filter area)	WQv calc	835.2	cf	

Calculate Runoff Reduction			
RRv Provided	**334**	***cf***	
WQv Treated	495	cf	This is the portion of the WQv that is not reduced in the practice.

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Filtration Bioretention (F-5)

Design Point:	1

Enter Site Data For Drainage Area to be Treated by Practice							
Drainage Area Number	**Contributing Area** (Acres)	**Impervious Area** (Acres)	**Percent Impervious** %	**Rv**	**WQv** (cf)	**Precipitation** (in)	**Description**
4	0.68	0.48	71	0.69	1,692	1.00	Filtration Bioretention

Design Criteria		
Enter underlying soil infiltration rate (based on geotechnical testing, refer to Appendix D)	0	Underdrains required
Is the contributing area to the practice a stormwater hotspot?	No	
Is the practice the first in series for treatment of a Level 1 (Infiltration Restricted) hotspot?	No	
Is contributing area greater than max. contributing area?	No	
Enter depth to seasonal high water table (ft)	6	
Enter depth to bedrock (ft)	6	
Is pretreatment provided, in conformance with Section 6.4.3.1	Yes	
Enter average height of ponding (ft)	0.5	
Enter depth of surface layer (inches)	3	
Enter depth of filter media (ft)	2.5	
Enter depth of drainage layer (inches)	10	
Enter slope of maintenance access (%)	1	
Enter width of maintenance access (ft)	12	

Sizing Criteria				
		Value	Units	Notes
Permeability Flow Rate	k	1	ft/day	
Filter Time	tf	2	days	
Required Filter Area	Af	705	sf	
Enter Provided Filter Area	Af	705	sf	
Recalculated Water Quality Volume (based on provided filter area)	WQv calc	1692	cf	

Calculate Runoff Reduction			
RRv Provided	**677**	***cf***	
WQv Treated	1015	cf	This is the portion of the WQv that is not reduced in the practice.

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Water Quality Peak Flow Calclations

NYSDEC Water Quality Volume (WQv) & Water Quality Peak Flow (Qp) Calculation Worksheet (REQUIRED Qp)

PROJECT INFORMATION			
Total Drainage Area	**A:**	2.09	**ac**
Impervious Area	**I:**	1.90	**ac**
Percent Impervious		90.9	**%**
NYSDEC 90% Rainfall	**P:**	1.00	**in.**
Time of Concentration	**T_c:**	0.27	**hrs**
	Rv:	0.87	
WATER QUALITY VOLUME			
Water Quality Volume WQ_v=([(P)*(Rv)*(A)]/12)*43560	WQv:	6,587	cf
WATER QUALITY PEAK FLOW (NEW DEVELOPMENT)			
Runoff Volume Q=WQ_v/(A*3600)	Q:	0.87	in.
CN=1000/(10+5*P+10*Q-10(Q^2+1.25*Q*P)^{½})	CN:	98.80	
CN Rounded	CN:	99	
CN < or = 98	CN:	98	
Initial Abstraction (I_a=200/CN-2)	Ia:	0.04	in.
RATIO R=I_a/P	R:	0.04	
C_0 = A*R^2 +B*R +C	C_0:	2.54	
C_1 = A*R^2 +B*R +C	C_1:	-0.58	
C_2 = A*R^2 +B*R +C	C_2:	-0.17	
Unit Peak Discharge qu=10^(C_0+C_1*Log(T_c)+C_2*(log(T_c))^2)	qu:	663.03	cfs/mi^2/in
Water Quality Peak Flow Q_p=qu*A*Q/640 (100%)	**Qp:**	**1.88**	**cfs**
REDVELOPMENT			
Impeverious Area Reduction	IC	0.00	%
WQv Treatment by Standard Practice	SP	0.00	%
Runoff Reduction	RR	0.00	%
Req. WQv% By Alt. Practice AP=(25-(% IC+%SP+%RR))*3:	AP	75.0	%
Required Water Quality Peak Flow RD QP=(Qp*AP):	**RD Qp:**	**1.41**	**cfs**

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APPENDIX D:
PRE-DEVELOPMENT STORMWATER MODELING

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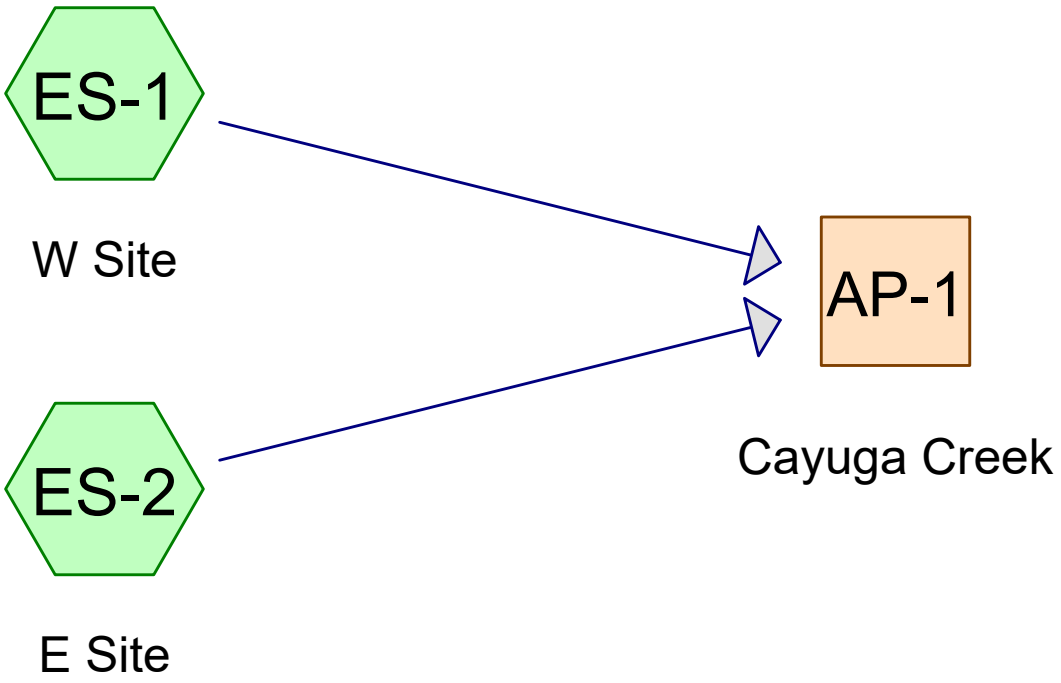

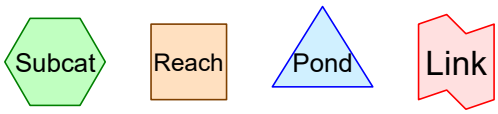

Routing Diagram for D_App D_Pre-Development Model
Prepared by Labella Associates, Printed 4/17/2026
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Rainfall Events Listing (selected events)

Event#	Event Name	Storm Type	Curve	Mode	Duration (hours)	B/B	Depth (inches)	AMC
1	1-yr	NY-West Seneca 24-hr S1	1-yr	Default	24.00	1	1.82	2
2	10-yr	NY-West Seneca 24-hr S1	10-yr	Default	24.00	1	3.14	2
3	100-yr	NY-West Seneca 24-hr S1	100-yr	Default	24.00	1	5.22	2

Area Listing (selected nodes)

Area (acres)	CN	Description (subcatchment-numbers)
10.061	80	>75% Grass cover, Good, HSG D (ES-1, ES-2)
1.056	98	Paved parking, HSG D (ES-1, ES-2)
11.117	**82**	**TOTAL AREA**

Soil Listing (selected nodes)

Area (acres)	Soil Group	Subcatchment Numbers
0.000	HSG A	
0.000	HSG B	
0.000	HSG C	
11.117	HSG D	ES-1, ES-2
0.000	Other	
11.117		**TOTAL AREA**

Time span=0.00-72.00 hrs, dt=0.01 hrs, 7201 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method

SubcatchmentES-1: W Site Runoff Area=337,194 sf 11.34% Impervious Runoff Depth=0.53"
Flow Length=391' Tc=14.0 min CN=82 Runoff=4.22 cfs 0.344 af

SubcatchmentES-2: E Site Runoff Area=147,058 sf 5.28% Impervious Runoff Depth=0.49"
Flow Length=390' Tc=19.4 min CN=81 Runoff=1.42 cfs 0.139 af

Reach AP-1: Cayuga Creek Inflow=5.48 cfs 0.483 af
Outflow=5.48 cfs 0.483 af

Total Runoff Area = 11.117 ac Runoff Volume = 0.483 af Average Runoff Depth = 0.52"
90.50% Pervious = 10.061 ac 9.50% Impervious = 1.056 ac

Summary for Subcatchment ES-1: W Site

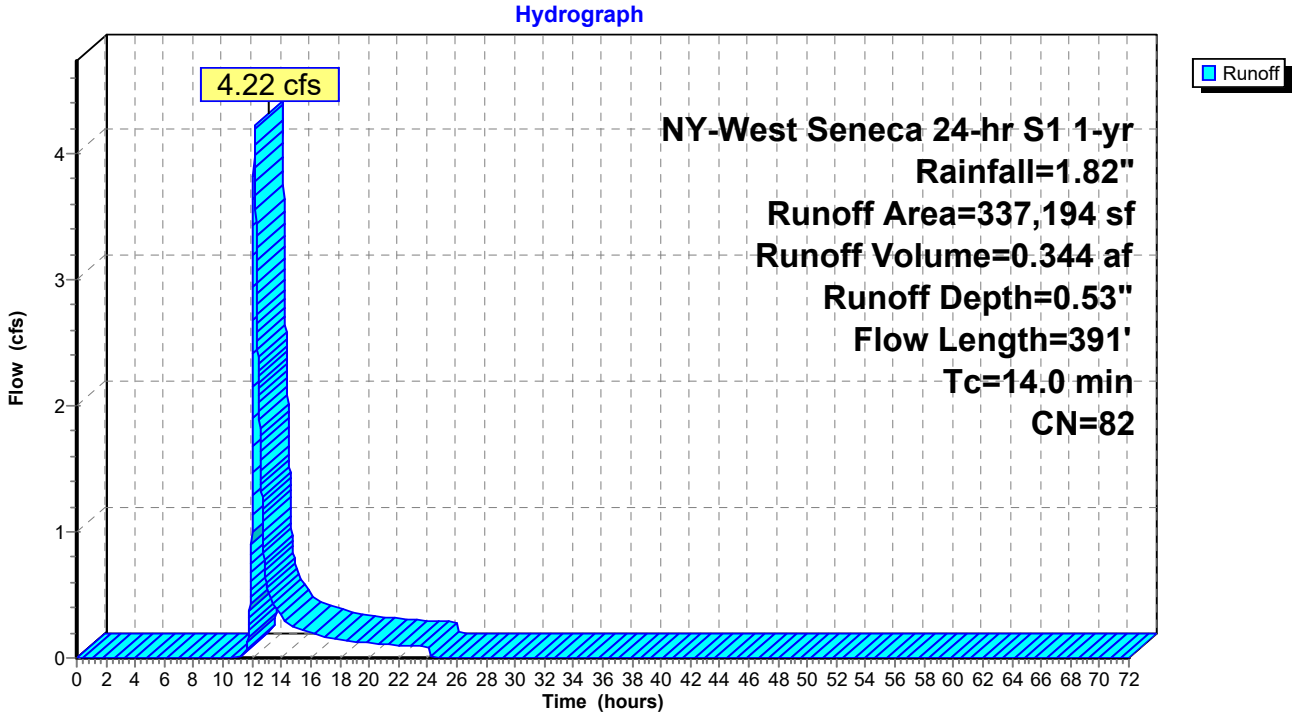
Runoff = 4.22 cfs @ 12.16 hrs, Volume= 0.344 af, Depth= 0.53"
Routed to Reach AP-1 : Cayuga Creek

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NY-West Seneca 24-hr S1 1-yr Rainfall=1.82"

Area (sf)	CN	Description
38,223	98	Paved parking, HSG D
298,971	80	>75% Grass cover, Good, HSG D
337,194	82	Weighted Average
298,971		88.66% Pervious Area
38,223		11.34% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.5	100	0.0450	0.20		**Sheet Flow, SF** Grass: Short n= 0.150 P2= 2.20"
5.3	271	0.0148	0.85		**Shallow Concentrated Flow, SCF** Short Grass Pasture Kv= 7.0 fps
0.2	20	0.1500	1.94		**Shallow Concentrated Flow, SCF** Woodland Kv= 5.0 fps
14.0	391	Total			

Subcatchment ES-1: W Site



Summary for Subcatchment ES-2: E Site

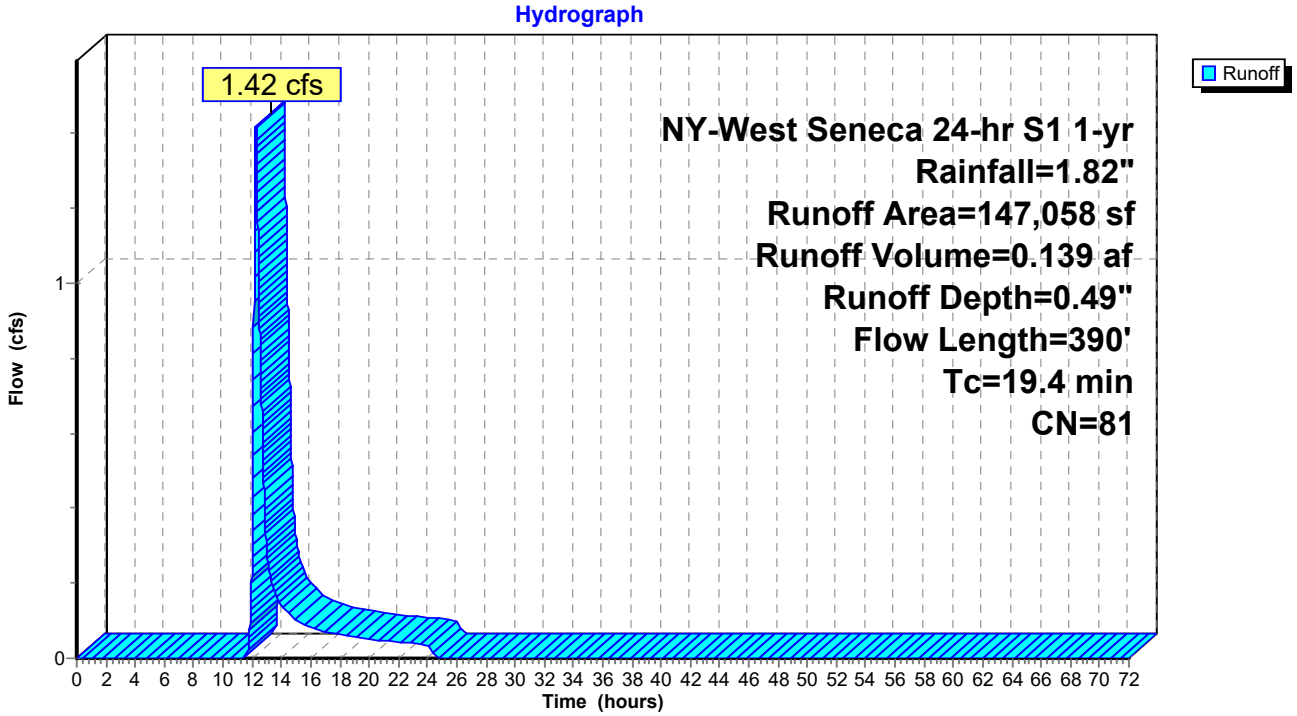
Runoff = 1.42 cfs @ 12.25 hrs, Volume= 0.139 af, Depth= 0.49"
Routed to Reach AP-1 : Cayuga Creek

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NY-West Seneca 24-hr S1 1-yr Rainfall=1.82"

Area (sf)	CN	Description
7,764	98	Paved parking, HSG D
139,294	80	>75% Grass cover, Good, HSG D
147,058	81	Weighted Average
139,294		94.72% Pervious Area
7,764		5.28% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
13.3	100	0.0150	0.13		**Sheet Flow, SF** Grass: Short n= 0.150 P2= 2.20"
6.1	290	0.0130	0.80		**Shallow Concentrated Flow, SCF** Short Grass Pasture Kv= 7.0 fps
19.4	390	Total			

Subcatchment ES-2: E Site

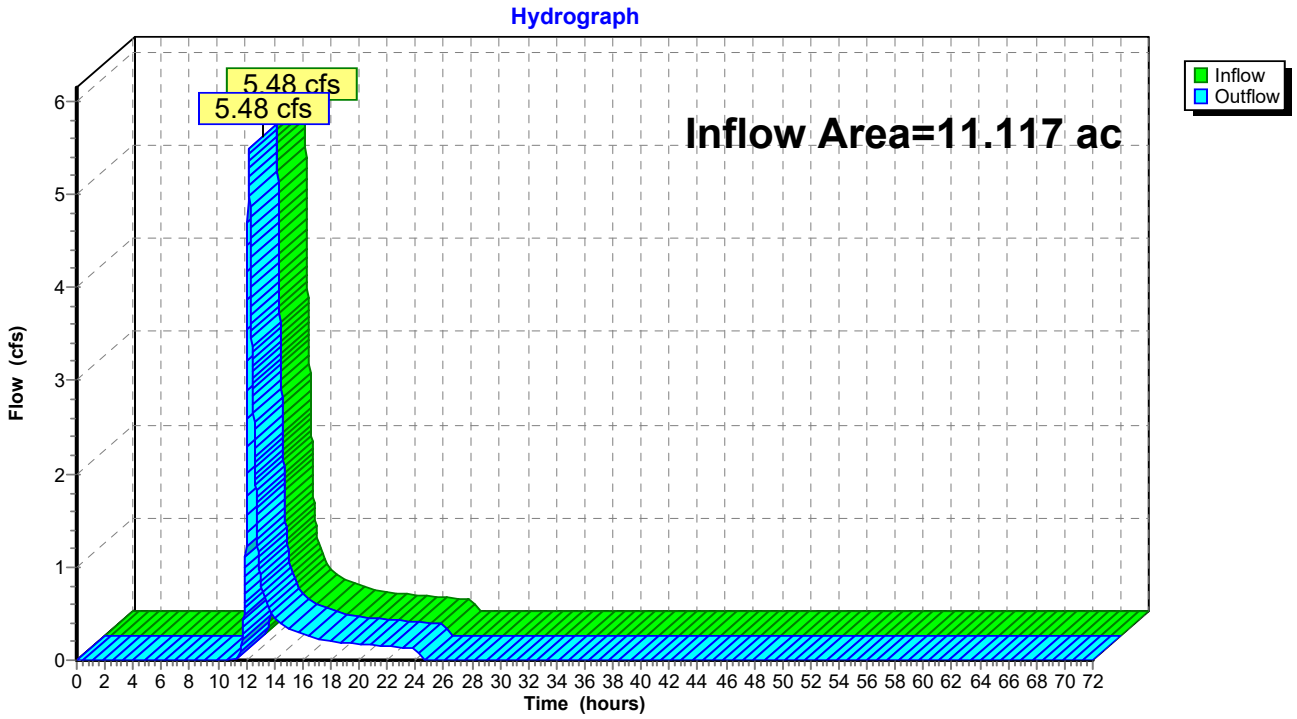


Summary for Reach AP-1: Cayuga Creek

Inflow Area = 11.117 ac, 9.50% Impervious, Inflow Depth = 0.52" for 1-yr event
Inflow = 5.48 cfs @ 12.18 hrs, Volume= 0.483 af
Outflow = 5.48 cfs @ 12.18 hrs, Volume= 0.483 af, Atten= 0%, Lag= 0.0 min

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Reach AP-1: Cayuga Creek



Time span=0.00-72.00 hrs, dt=0.01 hrs, 7201 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method

Subcatchment ES-1: W Site Runoff Area=337,194 sf 11.34% Impervious Runoff Depth=1.49"
Flow Length=391' Tc=14.0 min CN=82 Runoff=12.32 cfs 0.961 af

Subcatchment ES-2: E Site Runoff Area=147,058 sf 5.28% Impervious Runoff Depth=1.42"
Flow Length=390' Tc=19.4 min CN=81 Runoff=4.40 cfs 0.400 af

Reach AP-1: Cayuga Creek Inflow=16.27 cfs 1.361 af
Outflow=16.27 cfs 1.361 af

Total Runoff Area = 11.117 ac Runoff Volume = 1.361 af Average Runoff Depth = 1.47"
90.50% Pervious = 10.061 ac 9.50% Impervious = 1.056 ac

Summary for Subcatchment ES-1: W Site

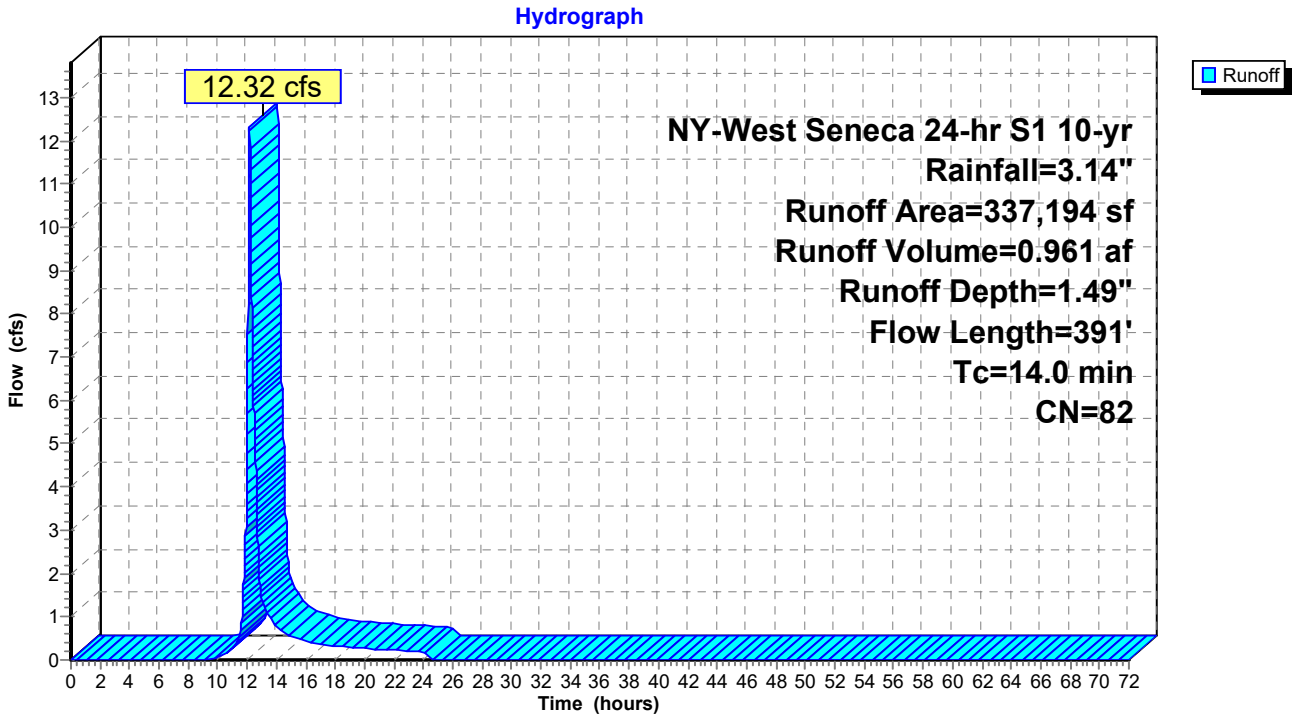
Runoff = 12.32 cfs @ 12.15 hrs, Volume= 0.961 af, Depth= 1.49"
Routed to Reach AP-1 : Cayuga Creek

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NY-West Seneca 24-hr S1 10-yr Rainfall=3.14"

Area (sf)	CN	Description
38,223	98	Paved parking, HSG D
298,971	80	>75% Grass cover, Good, HSG D
337,194	82	Weighted Average
298,971		88.66% Pervious Area
38,223		11.34% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.5	100	0.0450	0.20		**Sheet Flow, SF** Grass: Short n= 0.150 P2= 2.20"
5.3	271	0.0148	0.85		**Shallow Concentrated Flow, SCF** Short Grass Pasture Kv= 7.0 fps
0.2	20	0.1500	1.94		**Shallow Concentrated Flow, SCF** Woodland Kv= 5.0 fps
14.0	391	Total			

Subcatchment ES-1: W Site



Summary for Subcatchment ES-2: E Site

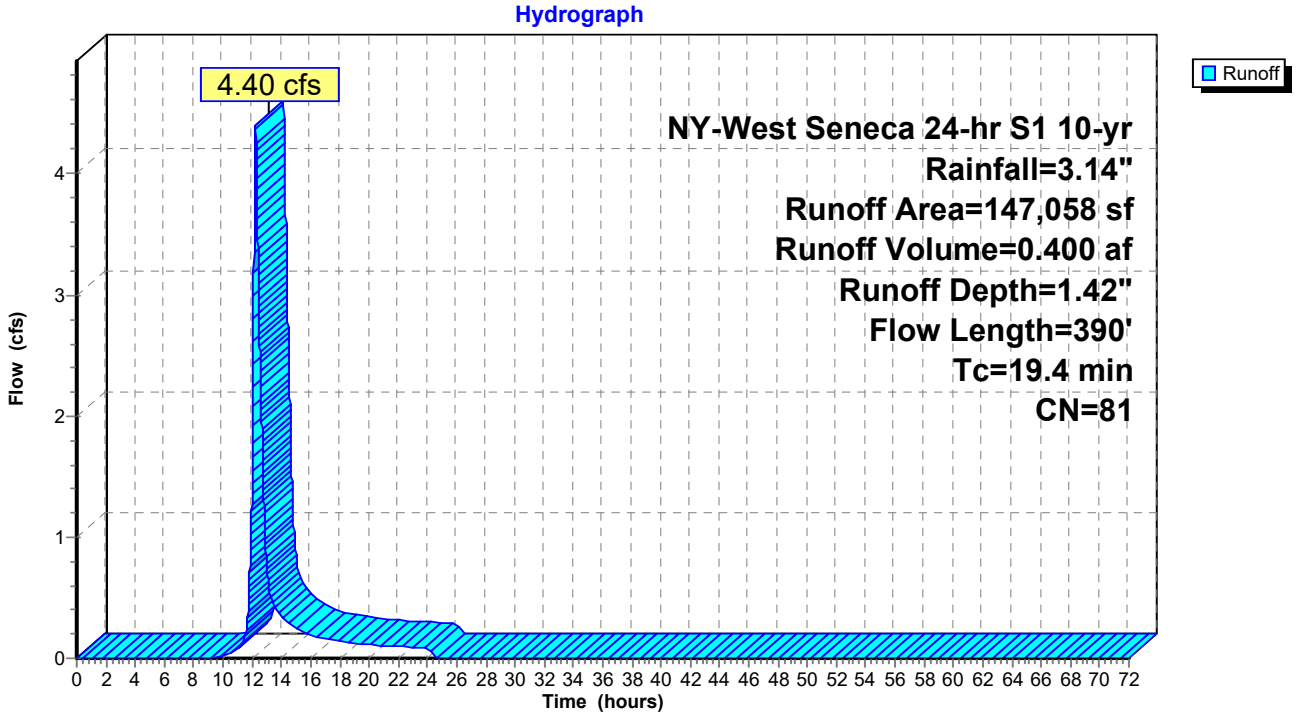
Runoff = 4.40 cfs @ 12.23 hrs, Volume= 0.400 af, Depth= 1.42"
Routed to Reach AP-1 : Cayuga Creek

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NY-West Seneca 24-hr S1 10-yr Rainfall=3.14"

Area (sf)	CN	Description
7,764	98	Paved parking, HSG D
139,294	80	>75% Grass cover, Good, HSG D
147,058	81	Weighted Average
139,294		94.72% Pervious Area
7,764		5.28% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
13.3	100	0.0150	0.13		**Sheet Flow, SF** Grass: Short n= 0.150 P2= 2.20"
6.1	290	0.0130	0.80		**Shallow Concentrated Flow, SCF** Short Grass Pasture Kv= 7.0 fps
19.4	390	Total			

Subcatchment ES-2: E Site

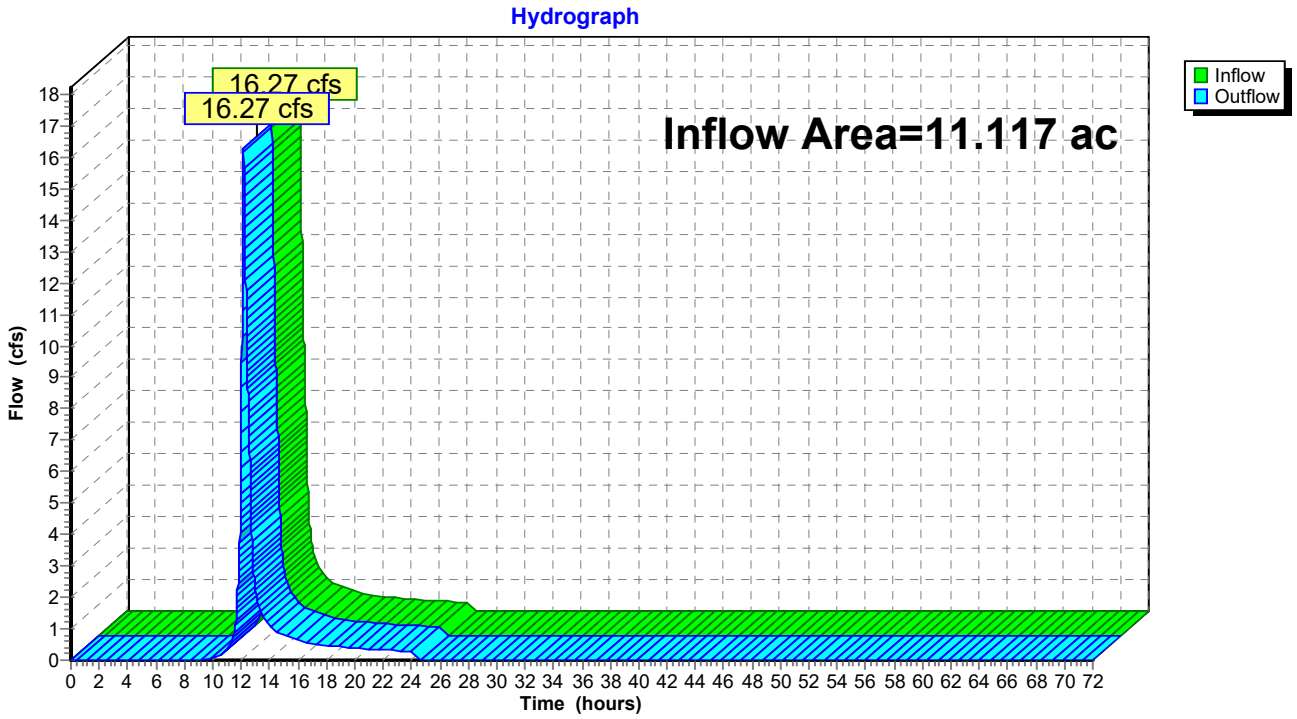


Summary for Reach AP-1: Cayuga Creek

Inflow Area = 11.117 ac, 9.50% Impervious, Inflow Depth = 1.47" for 10-yr event
Inflow = 16.27 cfs @ 12.17 hrs, Volume= 1.361 af
Outflow = 16.27 cfs @ 12.17 hrs, Volume= 1.361 af, Atten= 0%, Lag= 0.0 min

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Reach AP-1: Cayuga Creek



Time span=0.00-72.00 hrs, dt=0.01 hrs, 7201 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method

Subcatchment ES-1: W Site Runoff Area=337,194 sf 11.34% Impervious Runoff Depth=3.28"
Flow Length=391' Tc=14.0 min CN=82 Runoff=27.59 cfs 2.114 af

Subcatchment ES-2: E Site Runoff Area=147,058 sf 5.28% Impervious Runoff Depth=3.18"
Flow Length=390' Tc=19.4 min CN=81 Runoff=10.17 cfs 0.895 af

Reach AP-1: Cayuga Creek Inflow=36.80 cfs 3.008 af
Outflow=36.80 cfs 3.008 af

Total Runoff Area = 11.117 ac Runoff Volume = 3.008 af Average Runoff Depth = 3.25"
90.50% Pervious = 10.061 ac 9.50% Impervious = 1.056 ac

Summary for Subcatchment ES-1: W Site

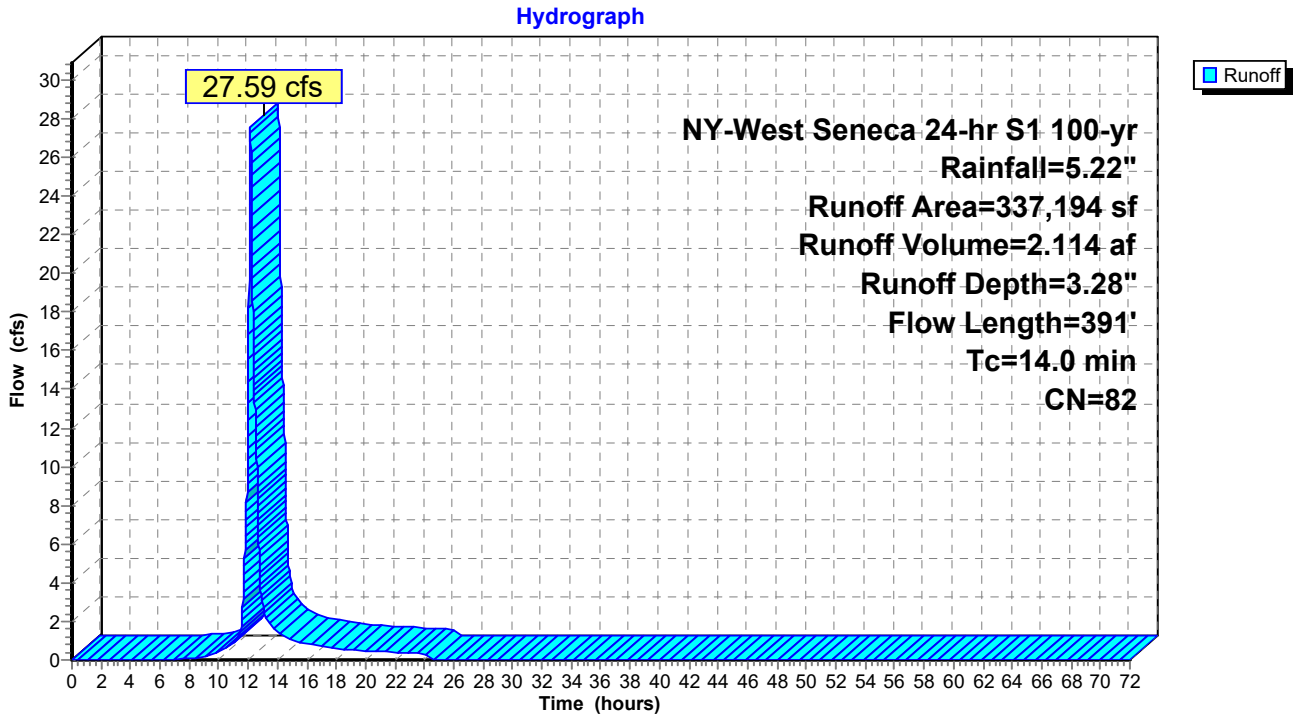
Runoff = 27.59 cfs @ 12.15 hrs, Volume= 2.114 af, Depth= 3.28"
Routed to Reach AP-1 : Cayuga Creek

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NY-West Seneca 24-hr S1 100-yr Rainfall=5.22"

Area (sf)	CN	Description
38,223	98	Paved parking, HSG D
298,971	80	>75% Grass cover, Good, HSG D
337,194	82	Weighted Average
298,971		88.66% Pervious Area
38,223		11.34% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.5	100	0.0450	0.20		**Sheet Flow, SF** Grass: Short n= 0.150 P2= 2.20"
5.3	271	0.0148	0.85		**Shallow Concentrated Flow, SCF** Short Grass Pasture Kv= 7.0 fps
0.2	20	0.1500	1.94		**Shallow Concentrated Flow, SCF** Woodland Kv= 5.0 fps
14.0	391	Total			

Subcatchment ES-1: W Site



Summary for Subcatchment ES-2: E Site

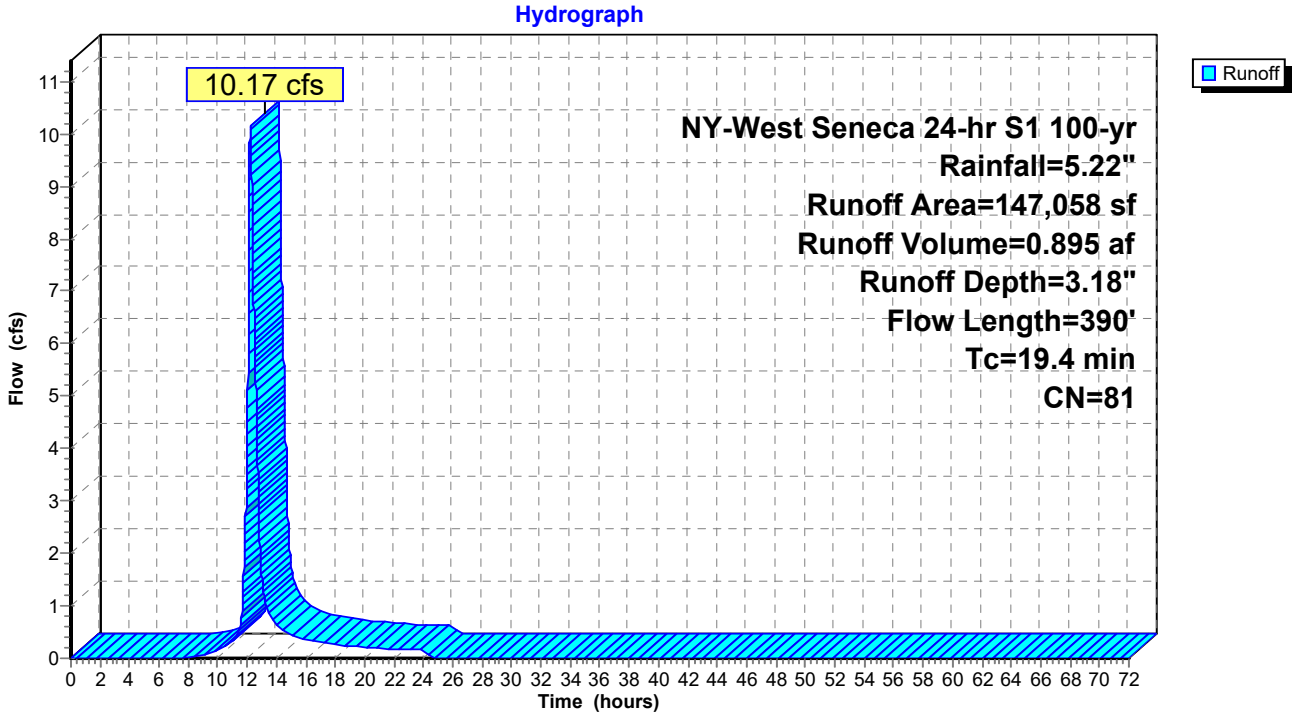
Runoff = 10.17 cfs @ 12.22 hrs, Volume= 0.895 af, Depth= 3.18"
Routed to Reach AP-1 : Cayuga Creek

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NY-West Seneca 24-hr S1 100-yr Rainfall=5.22"

Area (sf)	CN	Description
7,764	98	Paved parking, HSG D
139,294	80	>75% Grass cover, Good, HSG D
147,058	81	Weighted Average
139,294		94.72% Pervious Area
7,764		5.28% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
13.3	100	0.0150	0.13		**Sheet Flow, SF** Grass: Short n= 0.150 P2= 2.20"
6.1	290	0.0130	0.80		**Shallow Concentrated Flow, SCF** Short Grass Pasture Kv= 7.0 fps
19.4	390	Total			

Subcatchment ES-2: E Site

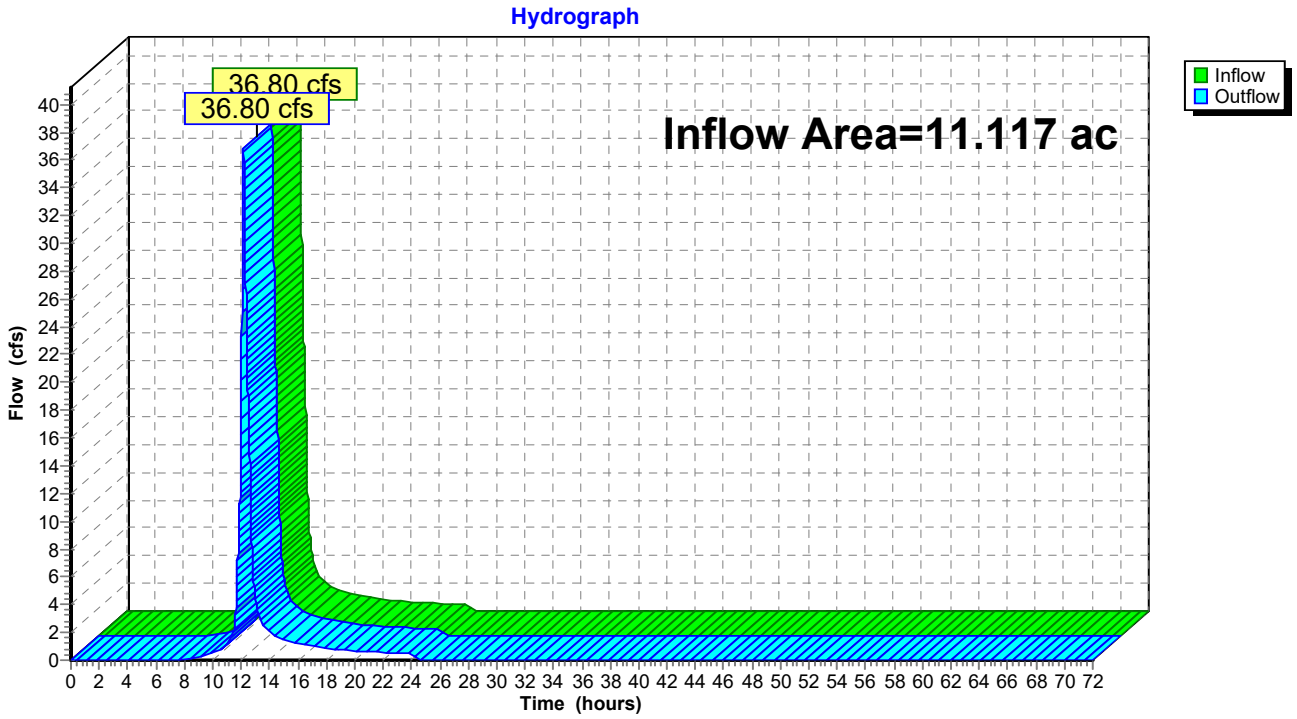


Summary for Reach AP-1: Cayuga Creek

Inflow Area = 11.117 ac, 9.50% Impervious, Inflow Depth = 3.25" for 100-yr event
Inflow = 36.80 cfs @ 12.16 hrs, Volume= 3.008 af
Outflow = 36.80 cfs @ 12.16 hrs, Volume= 3.008 af, Atten= 0%, Lag= 0.0 min

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Reach AP-1: Cayuga Creek



Events for Subcatchment ES-1: W Site

Event	Rainfall (inches)	Runoff (cfs)	Volume (acre-feet)	Depth (inches)
1-yr	1.82	4.22	0.344	0.53
10-yr	3.14	12.32	0.961	1.49
100-yr	**5.22**	**27.59**	**2.114**	**3.28**

Events for Subcatchment ES-2: E Site

Event	Rainfall (inches)	Runoff (cfs)	Volume (acre-feet)	Depth (inches)
1-yr	1.82	1.42	0.139	0.49
10-yr	3.14	4.40	0.400	1.42
100-yr	**5.22**	**10.17**	**0.895**	**3.18**

Events for Reach AP-1: Cayuga Creek

Event	Inflow (cfs)	Outflow (cfs)	Elevation (feet)	Storage (cubic-feet)
1-yr	5.48	5.48	**0.00**	**0**
10-yr	16.27	16.27	0.00	0
100-yr	**36.80**	**36.80**	0.00	0

APPENDIX E:
POST DEVELOPMENT STORMWATER MODELING

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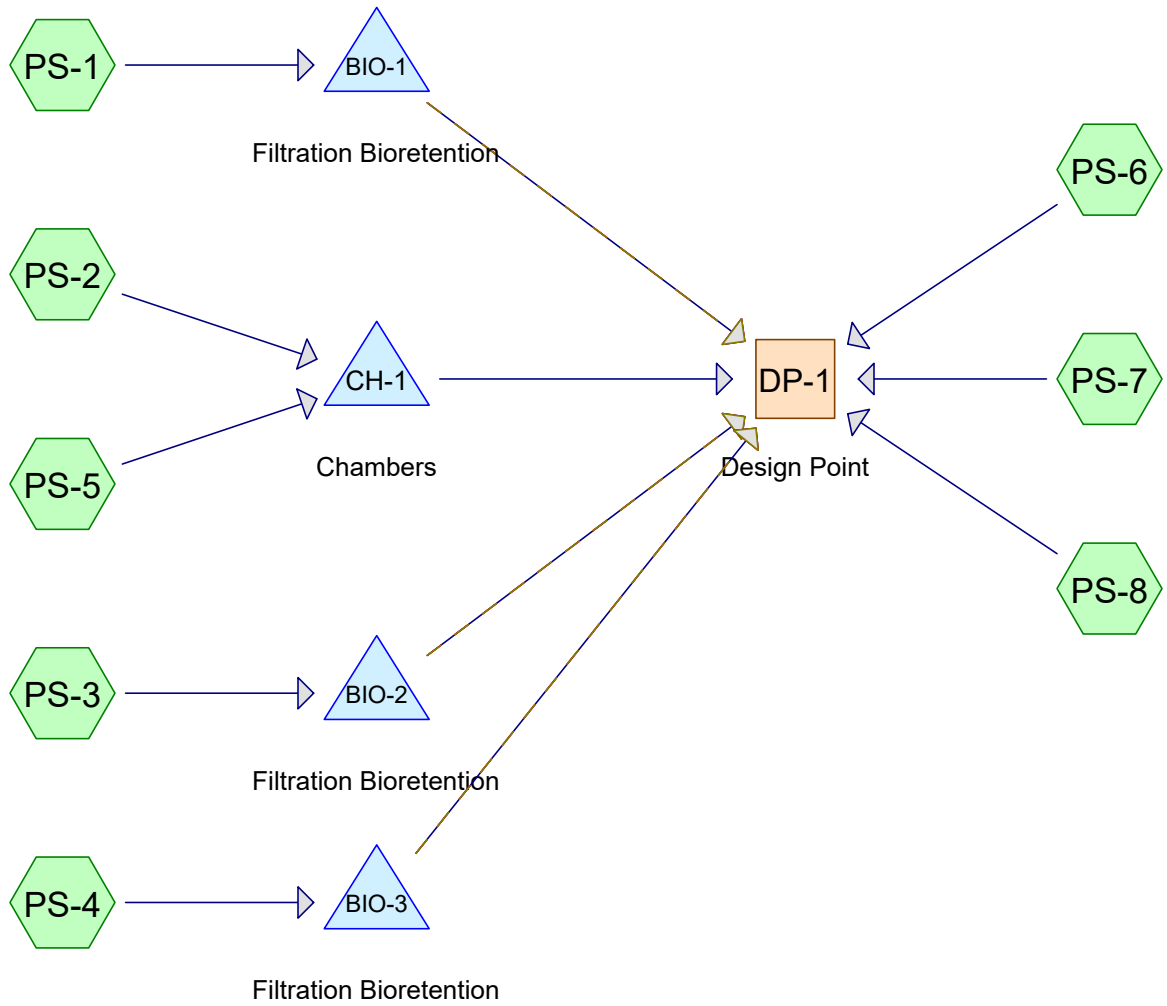
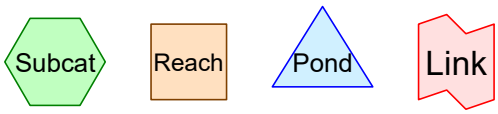




Routing Diagram for E_App E_Post-Development Model
Prepared by Labella Associates, Printed 4/20/2026
HydroCAD® 10.20-7a s/n 09581 © 2025 HydroCAD Software Solutions LLC

Rainfall Events Listing (selected events)

Event#	Event Name	Storm Type	Curve	Mode	Duration (hours)	B/B	Depth (inches)	AMC
1	1-yr	NY-West Seneca 24-hr S1	1-yr	Default	24.00	1	1.82	2
2	10-yr	NY-West Seneca 24-hr S1	10-yr	Default	24.00	1	3.14	2
3	100-yr	NY-West Seneca 24-hr S1	100-yr	Default	24.00	1	5.22	2

Area Listing (selected nodes)

Area (acres)	CN	Description (subcatchment-numbers)
8.107	80	>75% Grass cover, Good, HSG D (PS-1, PS-2, PS-3, PS-4, PS-7, PS-8)
2.967	98	Paved parking, HSG D (PS-1, PS-2, PS-3, PS-4, PS-5, PS-6)
11.074	**85**	**TOTAL AREA**

Soil Listing (selected nodes)

Area (acres)	Soil Group	Subcatchment Numbers
0.000	HSG A	
0.000	HSG B	
0.000	HSG C	
11.074	HSG D	PS-1, PS-2, PS-3, PS-4, PS-5, PS-6, PS-7, PS-8
0.000	Other	
11.074		**TOTAL AREA**

Time span=0.00-72.00 hrs, dt=0.01 hrs, 7201 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method

SubcatchmentPS-1: Runoff Area=27,596 sf 33.98% Impervious Runoff Depth=0.72"
Tc=6.0 min CN=86 Runoff=0.72 cfs 0.038 af

SubcatchmentPS-2: Runoff Area=72,316 sf 88.61% Impervious Runoff Depth=1.40"
Tc=6.0 min CN=96 Runoff=3.74 cfs 0.194 af

SubcatchmentPS-3: Runoff Area=28,267 sf 33.49% Impervious Runoff Depth=0.72"
Tc=6.0 min CN=86 Runoff=0.74 cfs 0.039 af

SubcatchmentPS-4: Runoff Area=29,485 sf 70.98% Impervious Runoff Depth=1.15"
Tc=6.0 min CN=93 Runoff=1.28 cfs 0.065 af

SubcatchmentPS-5: Runoff Area=18,756 sf 100.00% Impervious Runoff Depth=1.60"
Tc=6.0 min CN=98 Runoff=1.06 cfs 0.057 af

SubcatchmentPS-6: Runoff Area=6,622 sf 100.00% Impervious Runoff Depth=1.60"
Tc=6.0 min CN=98 Runoff=0.37 cfs 0.020 af

SubcatchmentPS-7: Runoff Area=245,856 sf 0.00% Impervious Runoff Depth=0.46"
Flow Length=391' Tc=14.0 min CN=80 Runoff=2.49 cfs 0.215 af

SubcatchmentPS-8: Runoff Area=53,474 sf 0.00% Impervious Runoff Depth=0.46"
Flow Length=821' Slope=0.0100 '/' Tc=25.7 min CN=80 Runoff=0.40 cfs 0.047 af

Reach DP-1: Design Point Inflow=4.12 cfs 0.674 af
Outflow=4.12 cfs 0.674 af

Pond BIO-1: Filtration Bioretention Peak Elev=598.98' Storage=994 cf Inflow=0.72 cfs 0.038 af
Primary=0.02 cfs 0.038 af Secondary=0.00 cfs 0.000 af Tertiary=0.00 cfs 0.000 af Outflow=0.02 cfs 0.038 af

Pond BIO-2: Filtration Bioretention Peak Elev=596.95' Storage=1,010 cf Inflow=0.74 cfs 0.039 af
Primary=0.02 cfs 0.039 af Secondary=0.00 cfs 0.000 af Tertiary=0.00 cfs 0.000 af Outflow=0.02 cfs 0.039 af

Pond BIO-3: Filtration Bioretention Peak Elev=595.92' Storage=1,729 cf Inflow=1.28 cfs 0.065 af
Primary=0.04 cfs 0.065 af Secondary=0.00 cfs 0.000 af Tertiary=0.00 cfs 0.000 af Outflow=0.04 cfs 0.065 af

Pond CH-1: Chambers Peak Elev=592.38' Storage=0.079 af Inflow=4.80 cfs 0.251 af
8.0" Round Culvert n=0.013 L=25.0' S=0.0100 '/' Outflow=1.18 cfs 0.251 af

Total Runoff Area = 11.074 ac Runoff Volume = 0.674 af Average Runoff Depth = 0.73"
73.21% Pervious = 8.107 ac 26.79% Impervious = 2.967 ac

Summary for Subcatchment PS-1:

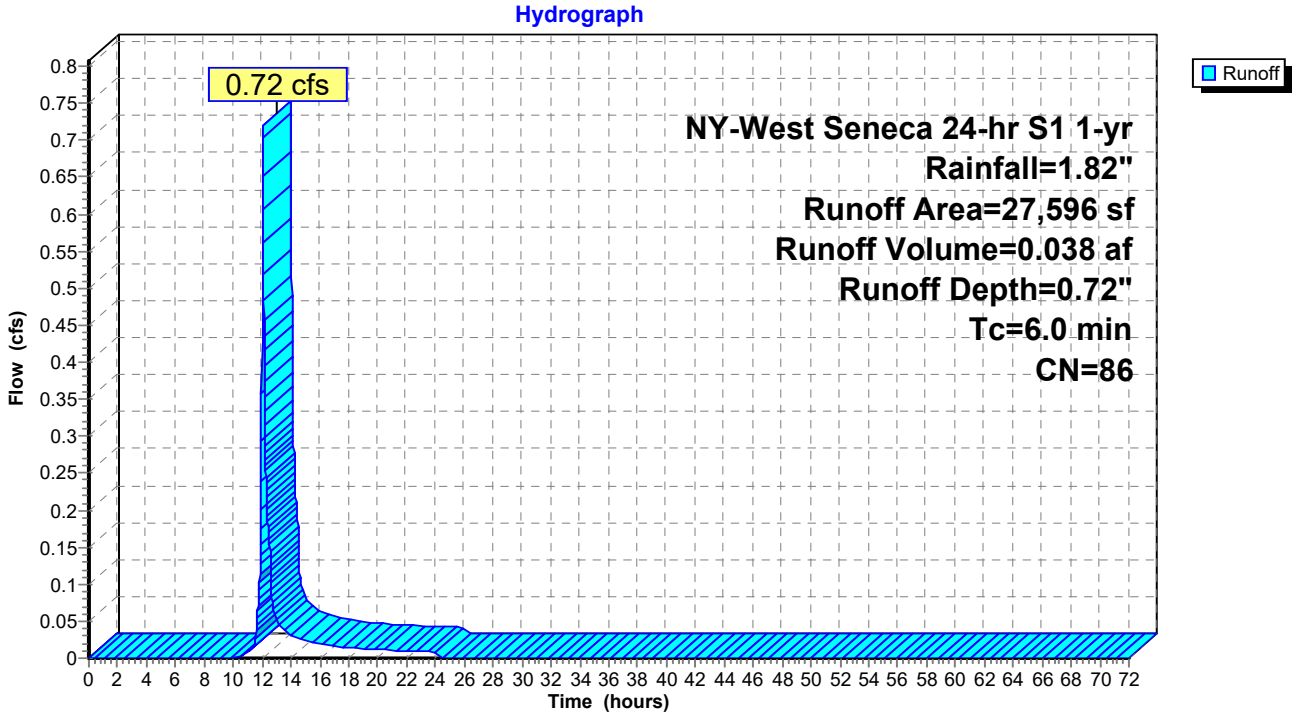
Runoff = 0.72 cfs @ 12.04 hrs, Volume= 0.038 af, Depth= 0.72"
Routed to Pond BIO-1 : Filtration Bioretention

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NY-West Seneca 24-hr S1 1-yr Rainfall=1.82"

Area (sf)	CN	Description
9,376	98	Paved parking, HSG D
18,220	80	>75% Grass cover, Good, HSG D
27,596	86	Weighted Average
18,220		66.02% Pervious Area
9,376		33.98% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					**Direct Entry, Direct**

Subcatchment PS-1:



Summary for Subcatchment PS-2:

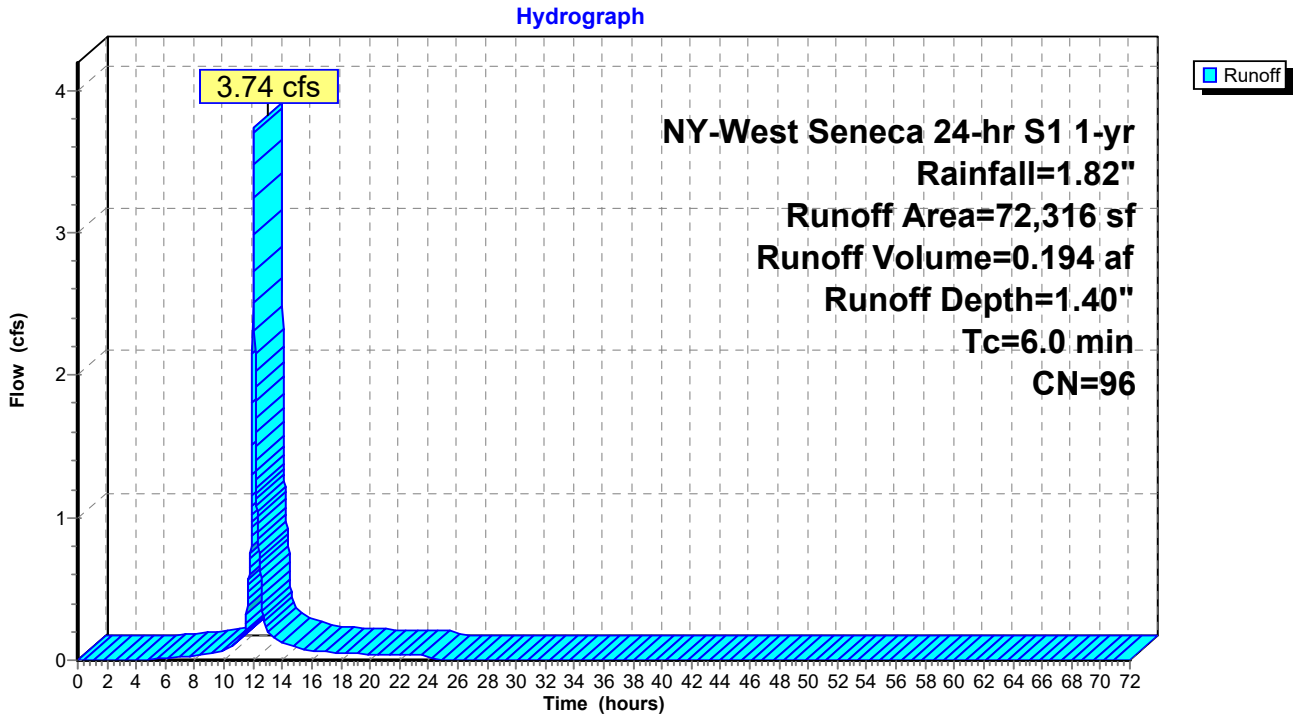
Runoff = 3.74 cfs @ 12.04 hrs, Volume= 0.194 af, Depth= 1.40"
Routed to Pond CH-1 : Chambers

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NY-West Seneca 24-hr S1 1-yr Rainfall=1.82"

Area (sf)	CN	Description
64,081	98	Paved parking, HSG D
8,235	80	>75% Grass cover, Good, HSG D
72,316	96	Weighted Average
8,235		11.39% Pervious Area
64,081		88.61% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					**Direct Entry, Direct**

Subcatchment PS-2:



Summary for Subcatchment PS-3:

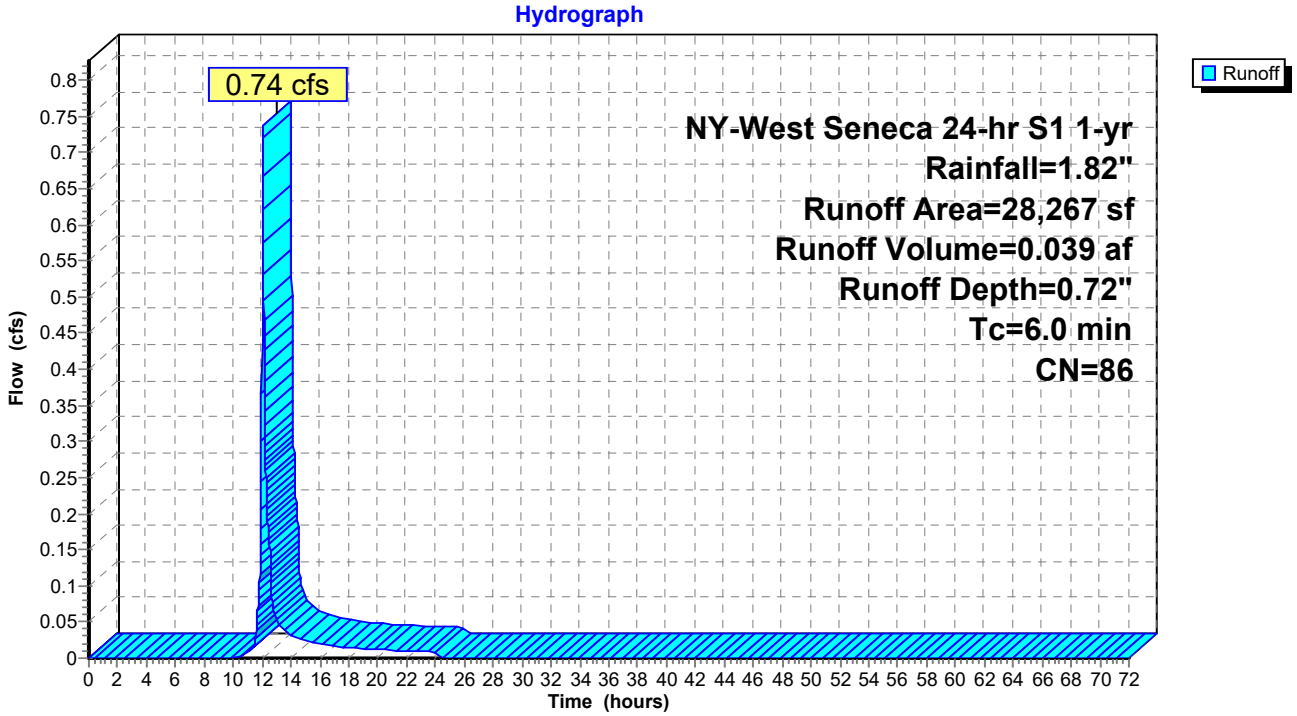
Runoff = 0.74 cfs @ 12.04 hrs, Volume= 0.039 af, Depth= 0.72"
Routed to Pond BIO-2 : Filtration Bioretention

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NY-West Seneca 24-hr S1 1-yr Rainfall=1.82"

Area (sf)	CN	Description
9,466	98	Paved parking, HSG D
18,801	80	>75% Grass cover, Good, HSG D
28,267	86	Weighted Average
18,801		66.51% Pervious Area
9,466		33.49% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					**Direct Entry, Direct**

Subcatchment PS-3:



Summary for Subcatchment PS-4:

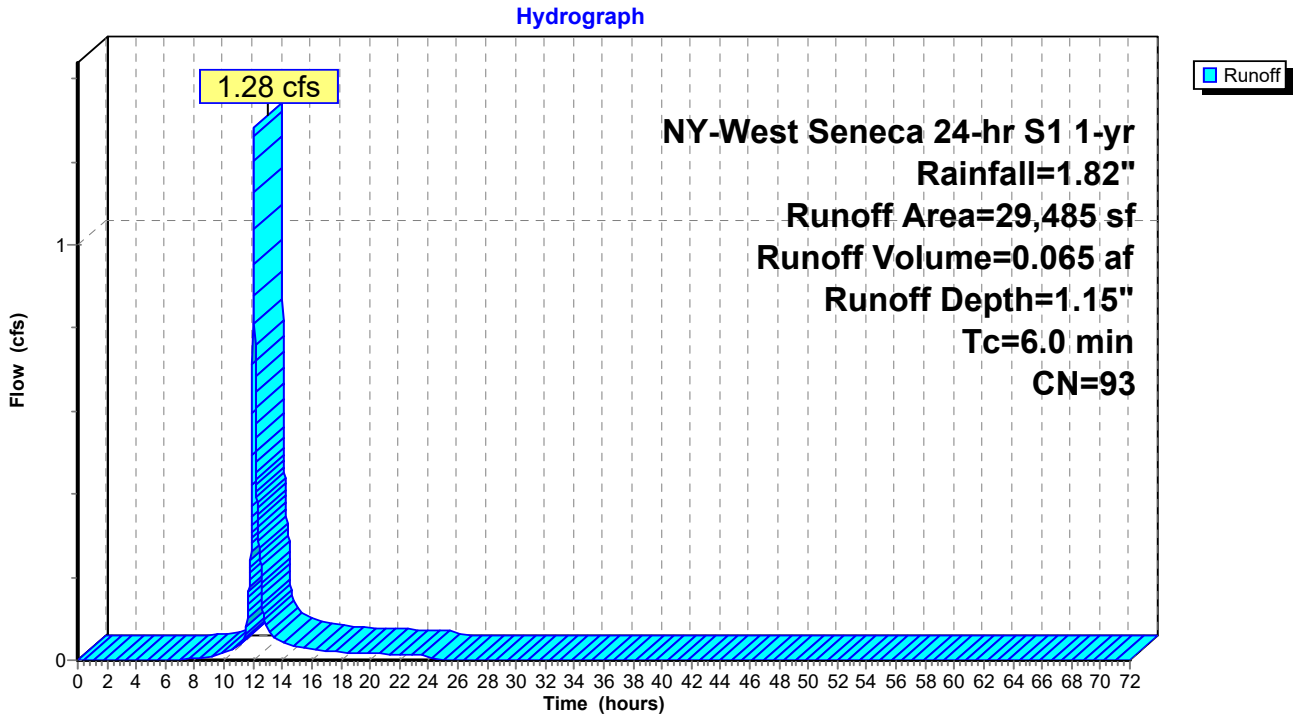
Runoff = 1.28 cfs @ 12.04 hrs, Volume= 0.065 af, Depth= 1.15"
Routed to Pond BIO-3 : Filtration Bioretention

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NY-West Seneca 24-hr S1 1-yr Rainfall=1.82"

Area (sf)	CN	Description
20,928	98	Paved parking, HSG D
8,557	80	>75% Grass cover, Good, HSG D
29,485	93	Weighted Average
8,557		29.02% Pervious Area
20,928		70.98% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					**Direct Entry, Direct**

Subcatchment PS-4:



Summary for Subcatchment PS-5:

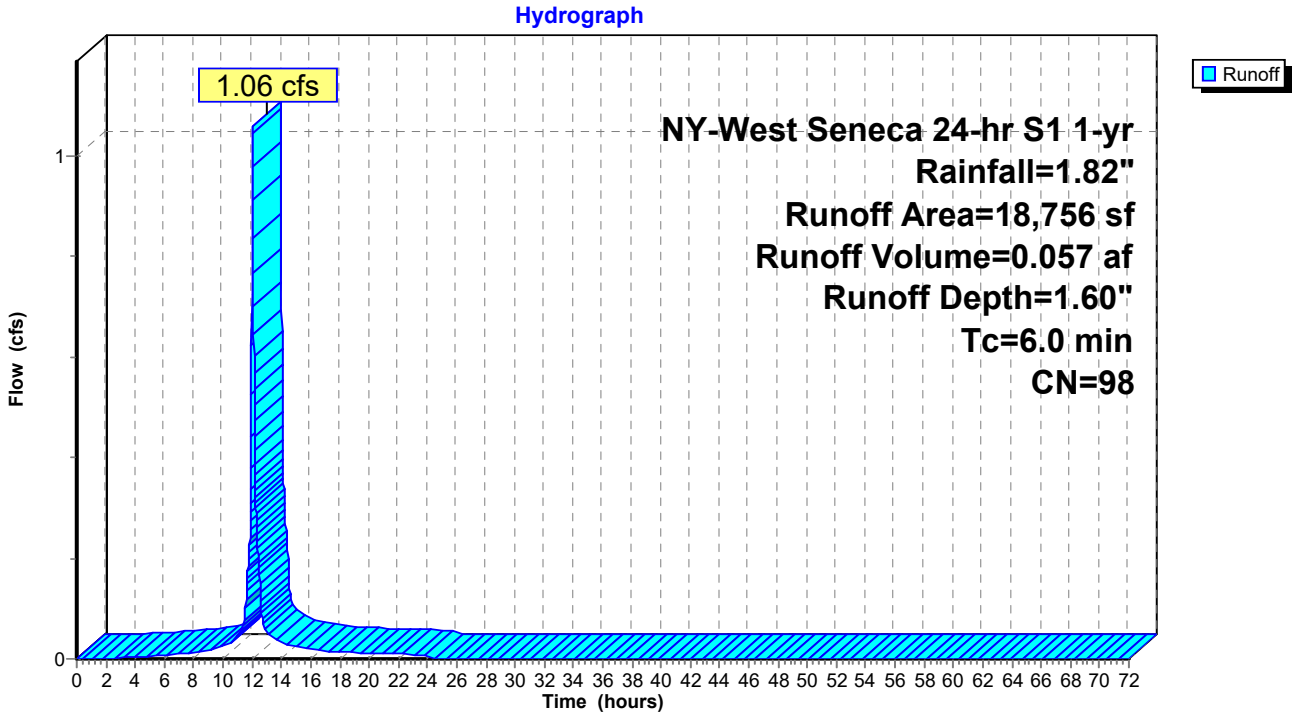
Runoff = 1.06 cfs @ 12.04 hrs, Volume= 0.057 af, Depth= 1.60"
Routed to Pond CH-1 : Chambers

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NY-West Seneca 24-hr S1 1-yr Rainfall=1.82"

Area (sf)	CN	Description
18,756	98	Paved parking, HSG D
18,756		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					**Direct Entry, Direct**

Subcatchment PS-5:



Summary for Subcatchment PS-6:

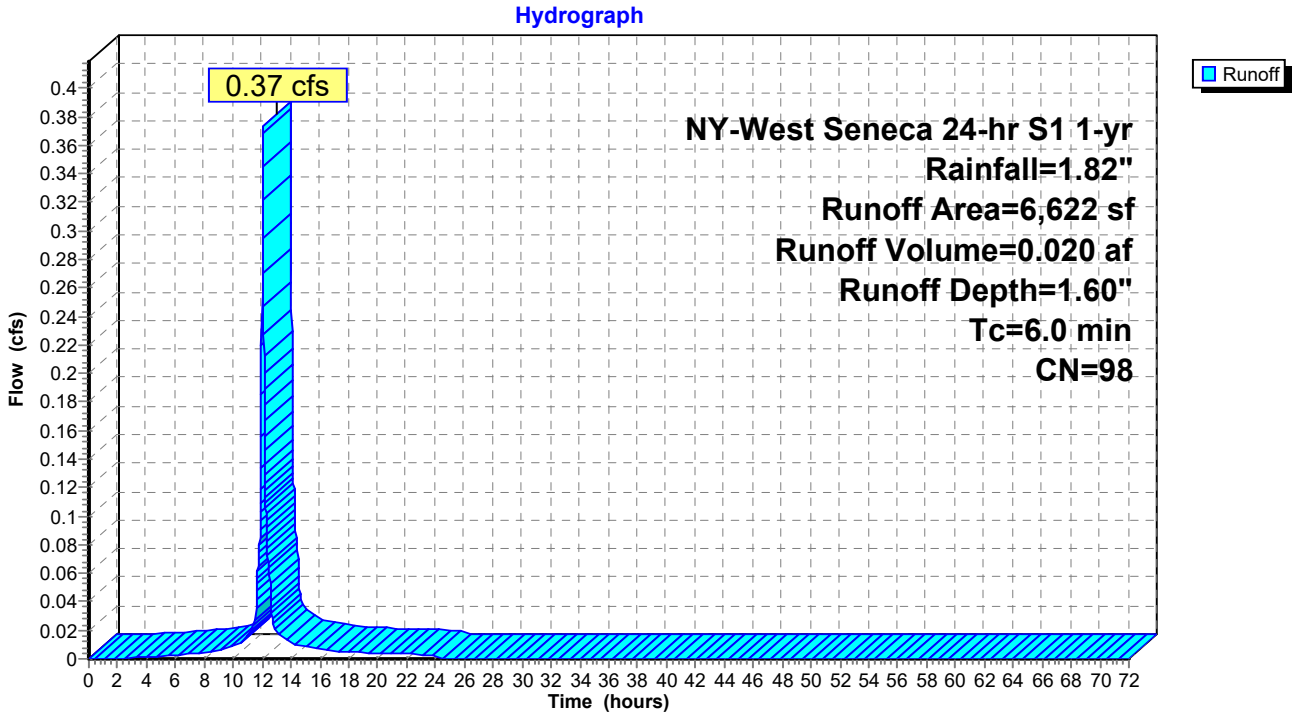
Runoff = 0.37 cfs @ 12.04 hrs, Volume= 0.020 af, Depth= 1.60"
Routed to Reach DP-1 : Design Point

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NY-West Seneca 24-hr S1 1-yr Rainfall=1.82"

Area (sf)	CN	Description
6,622	98	Paved parking, HSG D
6,622		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					**Direct Entry, Direct**

Subcatchment PS-6:



Summary for Subcatchment PS-7:

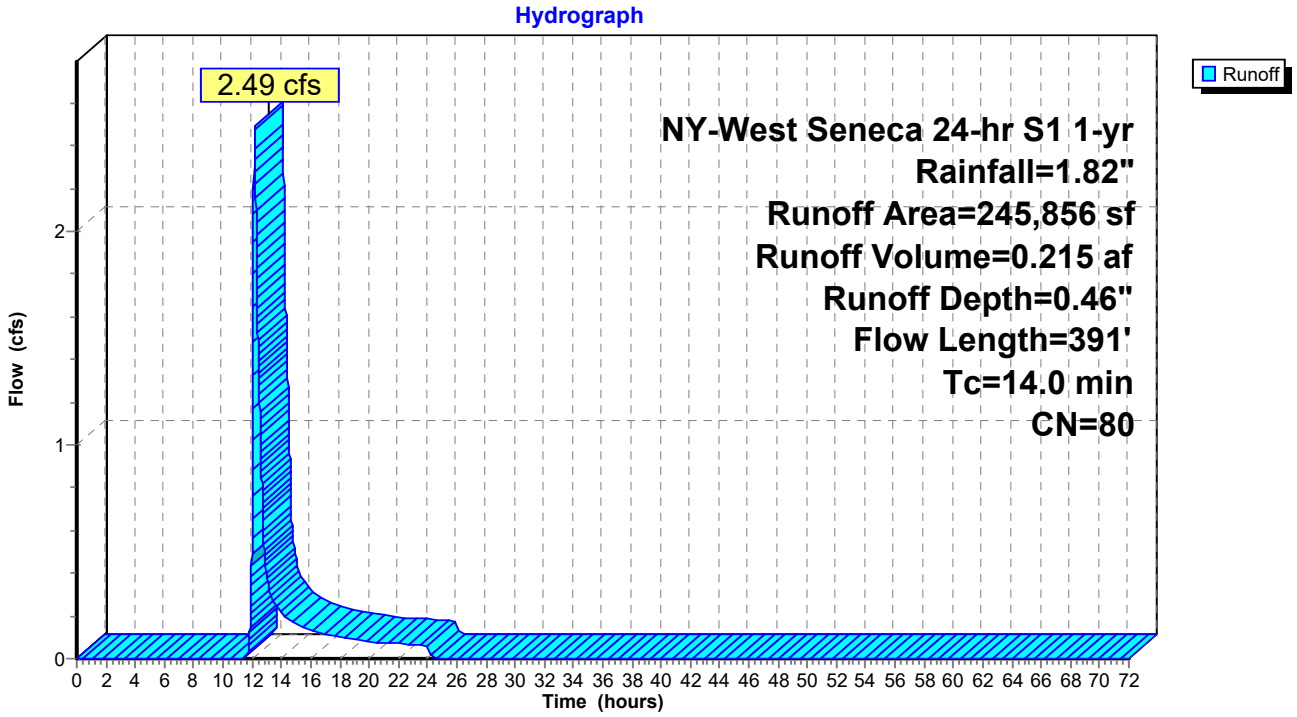
Runoff = 2.49 cfs @ 12.17 hrs, Volume= 0.215 af, Depth= 0.46"
Routed to Reach DP-1 : Design Point

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NY-West Seneca 24-hr S1 1-yr Rainfall=1.82"

Area (sf)	CN	Description
245,856	80	>75% Grass cover, Good, HSG D
245,856		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.5	100	0.0450	0.20		**Sheet Flow,** Grass: Short n= 0.150 P2= 2.20"
5.3	271	0.0148	0.85		**Shallow Concentrated Flow, SCF** Short Grass Pasture Kv= 7.0 fps
0.2	20	0.1500	1.94		**Shallow Concentrated Flow, SCF** Woodland Kv= 5.0 fps
14.0	391	Total			

Subcatchment PS-7:



Summary for Subcatchment PS-8:

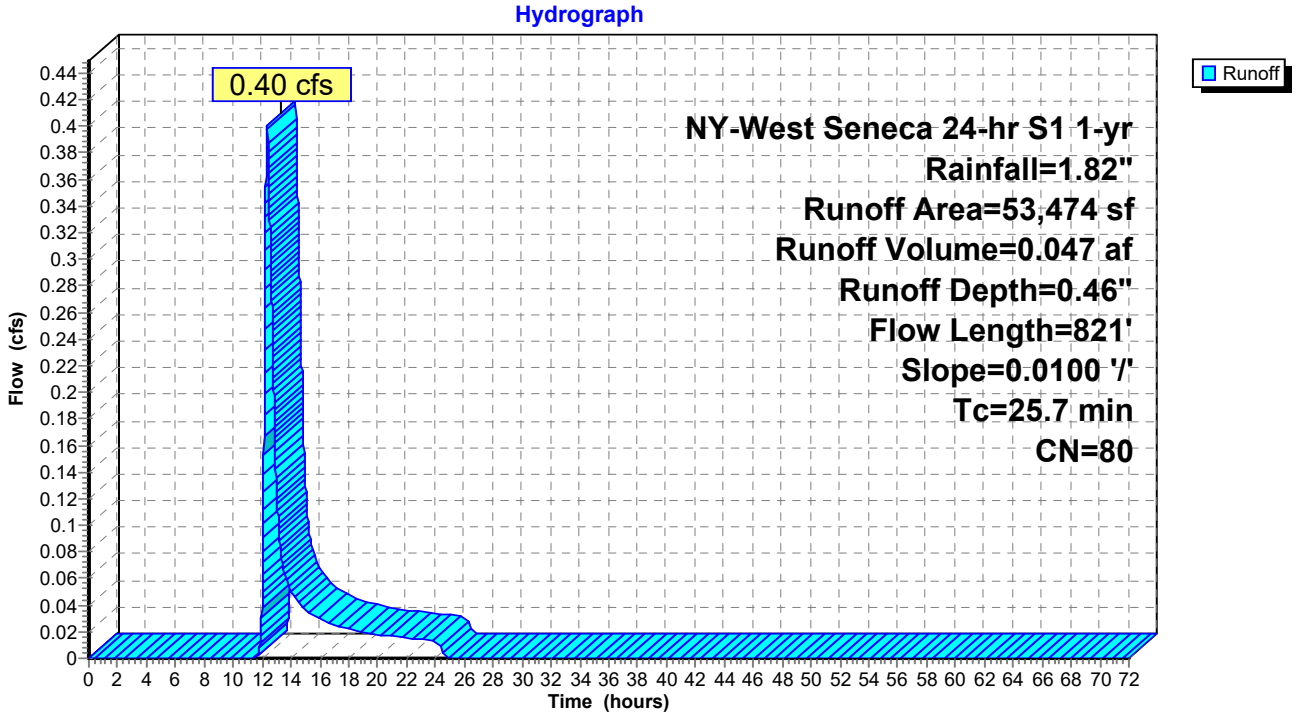
Runoff = 0.40 cfs @ 12.36 hrs, Volume= 0.047 af, Depth= 0.46"
Routed to Reach DP-1 : Design Point

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NY-West Seneca 24-hr S1 1-yr Rainfall=1.82"

Area (sf)	CN	Description
53,474	80	>75% Grass cover, Good, HSG D
53,474		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
15.6	100	0.0100	0.11		**Sheet Flow, SF** Grass: Short n= 0.150 P2= 2.20"
8.8	371	0.0100	0.70		**Shallow Concentrated Flow, SCF** Short Grass Pasture Kv= 7.0 fps
1.3	350	0.0100	4.54	3.56	**Pipe Channel, Pipe Flow** 12.0" Round Area= 0.8 sf Perim= 3.1' r= 0.25' n= 0.013 Corrugated PE, smooth interior
25.7	821	Total			

Subcatchment PS-8:

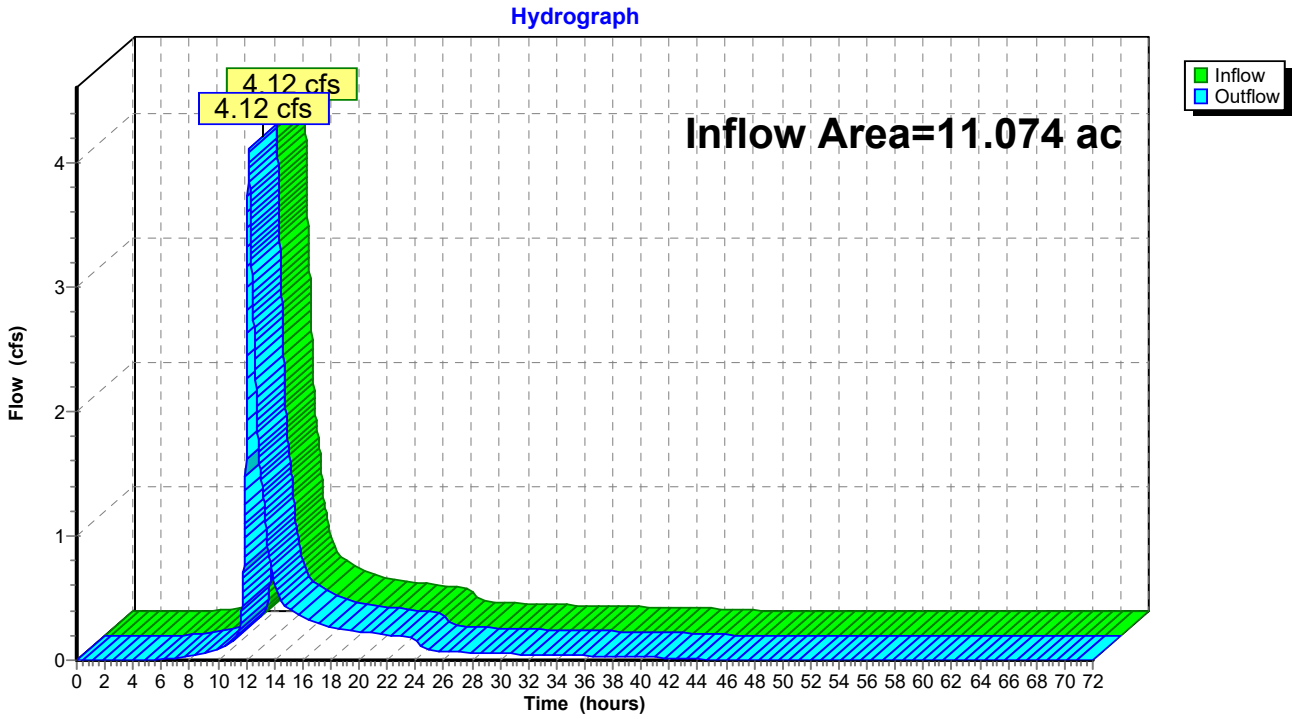


Summary for Reach DP-1: Design Point

Inflow Area = 11.074 ac, 26.79% Impervious, Inflow Depth = 0.73" for 1-yr event
Inflow = 4.12 cfs @ 12.18 hrs, Volume= 0.674 af
Outflow = 4.12 cfs @ 12.18 hrs, Volume= 0.674 af, Atten= 0%, Lag= 0.0 min

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Reach DP-1: Design Point



Summary for Pond BIO-1: Filtration Bioretention

Inflow Area = 0.634 ac, 33.98% Impervious, Inflow Depth = 0.72" for 1-yr event
Inflow = 0.72 cfs @ 12.04 hrs, Volume= 0.038 af
Outflow = 0.02 cfs @ 15.87 hrs, Volume= 0.038 af, Atten= 97%, Lag= 229.9 min
Primary = 0.02 cfs @ 15.87 hrs, Volume= 0.038 af
Routed to Reach DP-1 : Design Point
Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af
Routed to Reach DP-1 : Design Point
Tertiary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af
Routed to Reach DP-1 : Design Point

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 598.98' @ 15.87 hrs Surf.Area= 1,679 sf Storage= 994 cf
Flood Elev= 600.00' Surf.Area= 2,500 sf Storage= 3,120 cf

Plug-Flow detention time= 645.9 min calculated for 0.038 af (100% of inflow)
Center-of-Mass det. time= 646.0 min (1,495.6 - 849.7)

Volume	Invert	Avail.Storage	Storage Description
#1	598.00'	3,120 cf	**Above Mulch Surface (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
598.00	340	0	0
599.00	1,700	1,020	1,020
600.00	2,500	2,100	3,120

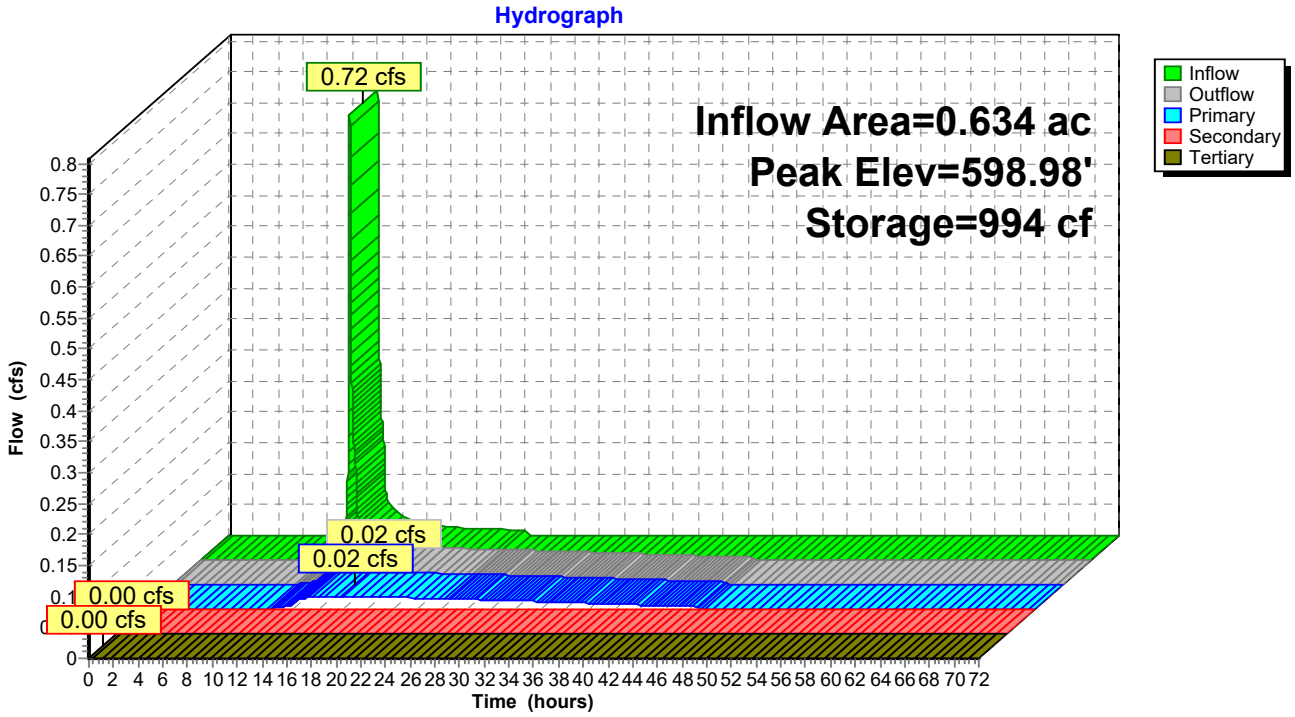
Device	Routing	Invert	Outlet Devices
#1	Primary	598.00'	**0.500 in/hr Exfiltration Through Media over Surface area**
#2	Device 3	599.00'	**24.0" x 24.0" Horiz. Overflow Grate** C= 0.600 Limited to weir flow at low heads
#3	Secondary	594.58'	**12.0" Round Culvert** L= 25.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 594.58' / 594.33' S= 0.0100 '/' Cc= 0.900 n= 0.012 Corrugated PE, smooth interior, Flow Area= 0.79 sf
#4	Tertiary	599.50'	**10.0' long x 3.0' breadth Emergency Overflow Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 Coef. (English) 2.44 2.58 2.68 2.67 2.65 2.64 2.64 2.68 2.68 2.72 2.81 2.92 2.97 3.07 3.32

Primary OutFlow Max=0.02 cfs @ 15.87 hrs HW=598.98' TW=0.00' (Dynamic Tailwater)
└─**1=Exfiltration Through Media** (Exfiltration Controls 0.02 cfs)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=598.00' TW=0.00' (Dynamic Tailwater)
└─**3=Culvert** (Passes 0.00 cfs of 5.10 cfs potential flow)
└─**2=Overflow Grate** (Controls 0.00 cfs)

Tertiary OutFlow Max=0.00 cfs @ 0.00 hrs HW=598.00' TW=0.00' (Dynamic Tailwater)
└─**4=Emergency Overflow Weir** (Controls 0.00 cfs)

Pond BIO-1: Filtration Bioretention



Summary for Pond BIO-2: Filtration Bioretention

Inflow Area = 0.649 ac, 33.49% Impervious, Inflow Depth = 0.72" for 1-yr event
Inflow = 0.74 cfs @ 12.04 hrs, Volume= 0.039 af
Outflow = 0.02 cfs @ 15.70 hrs, Volume= 0.039 af, Atten= 97%, Lag= 219.6 min
Primary = 0.02 cfs @ 15.70 hrs, Volume= 0.039 af
Routed to Reach DP-1 : Design Point
Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af
Routed to Reach DP-1 : Design Point
Tertiary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af
Routed to Reach DP-1 : Design Point

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 596.95' @ 15.70 hrs Surf.Area= 1,776 sf Storage= 1,010 cf
Flood Elev= 598.00' Surf.Area= 2,630 sf Storage= 3,339 cf

Plug-Flow detention time= 621.3 min calculated for 0.039 af (100% of inflow)
Center-of-Mass det. time= 621.4 min (1,471.1 - 849.7)

Volume	Invert	Avail.Storage	Storage Description
#1	596.00'	3,339 cf	**Above Mulch Surface (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
596.00	348	0	0
597.00	1,850	1,099	1,099
598.00	2,630	2,240	3,339

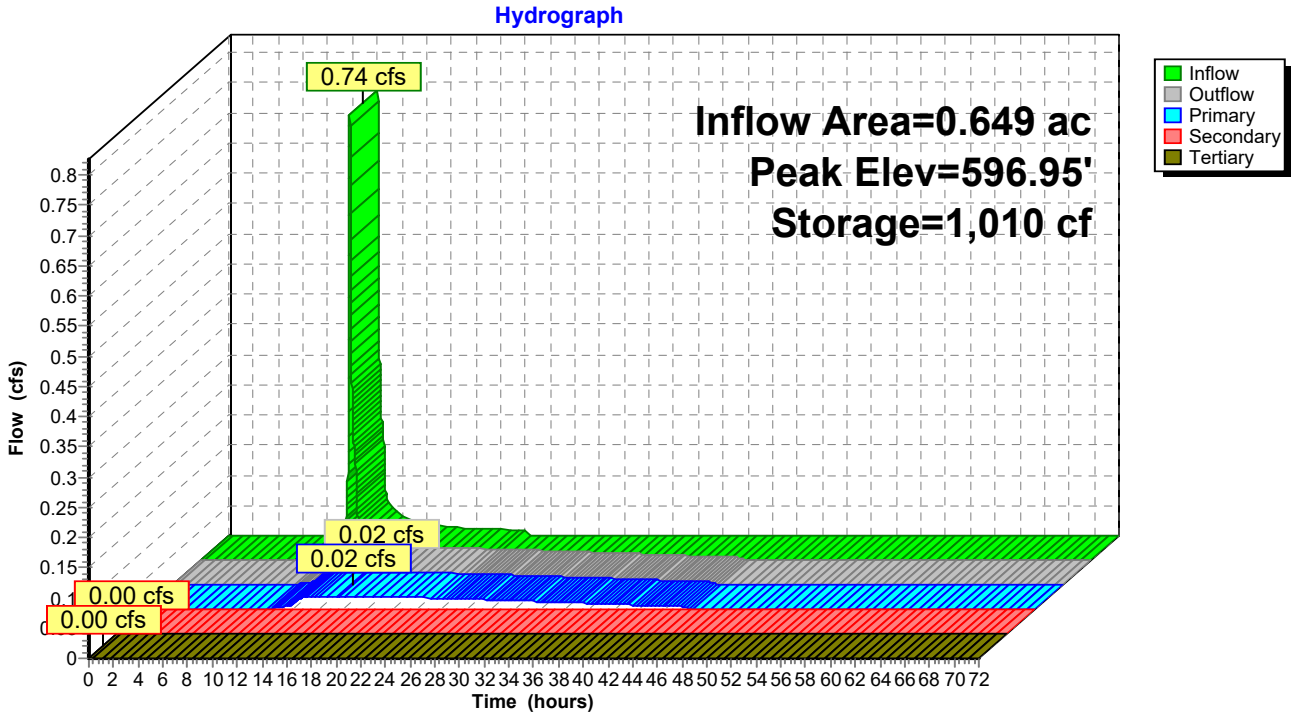
Device	Routing	Invert	Outlet Devices
#1	Primary	596.00'	**0.500 in/hr Exfiltration Through Media over Surface area**
#2	Device 3	597.00'	**24.0" x 24.0" Horiz. Overflow Grate** C= 0.600 Limited to weir flow at low heads
#3	Secondary	592.58'	**12.0" Round Culvert** L= 132.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 592.58' / 591.92' S= 0.0050 '/' Cc= 0.900 n= 0.012 Corrugated PE, smooth interior, Flow Area= 0.79 sf
#4	Tertiary	597.50'	**10.0' long x 3.0' breadth Emergency Overflow Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 Coef. (English) 2.44 2.58 2.68 2.67 2.65 2.64 2.64 2.68 2.68 2.72 2.81 2.92 2.97 3.07 3.32

Primary OutFlow Max=0.02 cfs @ 15.70 hrs HW=596.95' TW=0.00' (Dynamic Tailwater)
└─**1=Exfiltration Through Media** (Exfiltration Controls 0.02 cfs)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=596.00' TW=0.00' (Dynamic Tailwater)
└─**3=Culvert** (Passes 0.00 cfs of 4.75 cfs potential flow)
└─**2=Overflow Grate** (Controls 0.00 cfs)

Tertiary OutFlow Max=0.00 cfs @ 0.00 hrs HW=596.00' TW=0.00' (Dynamic Tailwater)
└─**4=Emergency Overflow Weir** (Controls 0.00 cfs)

Pond BIO-2: Filtration Bioretention



Summary for Pond BIO-3: Filtration Bioretention

Inflow Area = 0.677 ac, 70.98% Impervious, Inflow Depth = 1.15" for 1-yr event
Inflow = 1.28 cfs @ 12.04 hrs, Volume= 0.065 af
Outflow = 0.04 cfs @ 14.68 hrs, Volume= 0.065 af, Atten= 97%, Lag= 158.5 min
Primary = 0.04 cfs @ 14.68 hrs, Volume= 0.065 af
Routed to Reach DP-1 : Design Point
Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af
Routed to Reach DP-1 : Design Point
Tertiary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af
Routed to Reach DP-1 : Design Point

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 595.92' @ 14.68 hrs Surf.Area= 3,049 sf Storage= 1,729 cf
Flood Elev= 597.00' Surf.Area= 3,978 sf Storage= 5,592 cf

Plug-Flow detention time= (not calculated: outflow precedes inflow)
Center-of-Mass det. time= 587.3 min (1,401.4 - 814.2)

Volume	Invert	Avail.Storage	Storage Description
#1	595.00'	5,592 cf	**Above Mulch Surface (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
595.00	705	0	0
596.00	3,250	1,978	1,978
597.00	3,978	3,614	5,592

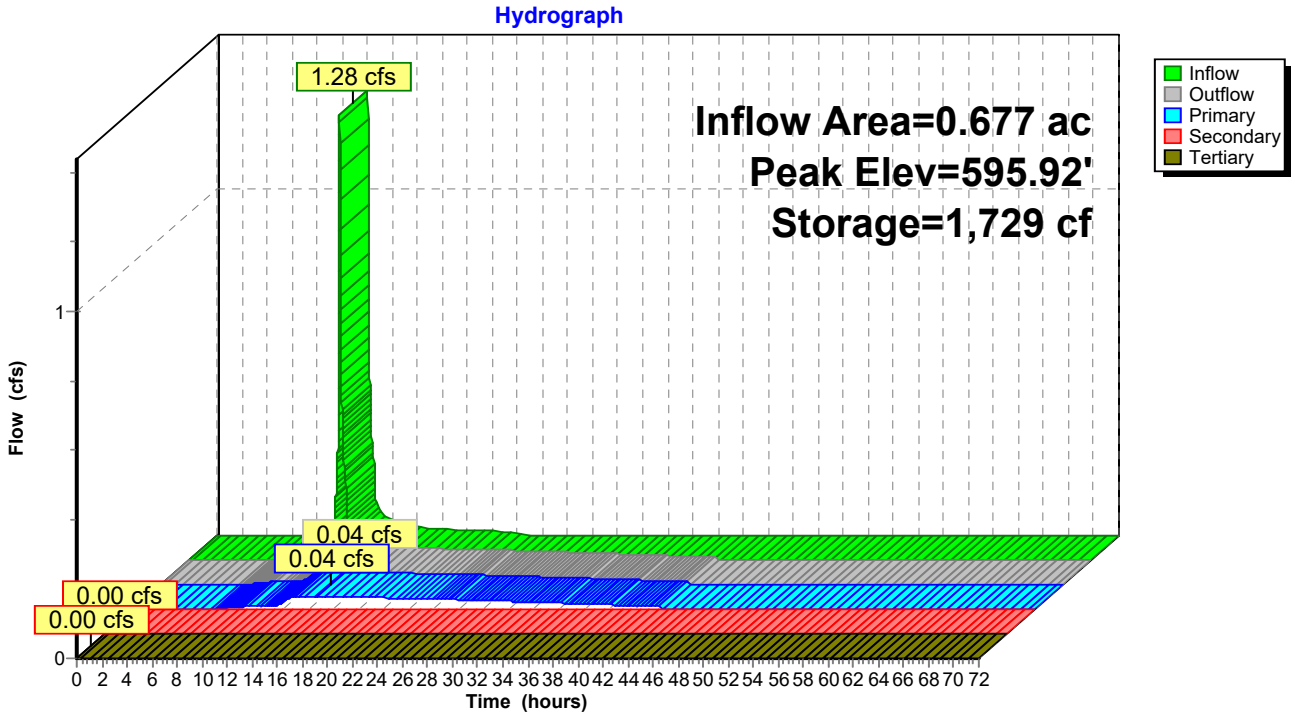
Device	Routing	Invert	Outlet Devices
#1	Primary	595.00'	**0.500 in/hr Exfiltration Through Media over Surface area**
#2	Device 3	596.00'	**24.0" x 24.0" Horiz. Overflow Grate** C= 0.600 Limited to weir flow at low heads
#3	Secondary	591.58'	**12.0" Round Culvert** L= 28.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 591.58' / 591.30' S= 0.0100 '/' Cc= 0.900 n= 0.012 Corrugated PE, smooth interior, Flow Area= 0.79 sf
#4	Tertiary	596.50'	**10.0' long x 3.0' breadth Emergency Overflow Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 Coef. (English) 2.44 2.58 2.68 2.67 2.65 2.64 2.64 2.68 2.68 2.72 2.81 2.92 2.97 3.07 3.32

Primary OutFlow Max=0.04 cfs @ 14.68 hrs HW=595.92' TW=0.00' (Dynamic Tailwater)
└─**1=Exfiltration Through Media** (Exfiltration Controls 0.04 cfs)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=595.00' TW=0.00' (Dynamic Tailwater)
└─**3=Culvert** (Passes 0.00 cfs of 5.10 cfs potential flow)
└─**2=Overflow Grate** (Controls 0.00 cfs)

Tertiary OutFlow Max=0.00 cfs @ 0.00 hrs HW=595.00' TW=0.00' (Dynamic Tailwater)
└─**4=Emergency Overflow Weir** (Controls 0.00 cfs)

Pond BIO-3: Filtration Bioretention



Summary for Pond CH-1: Chambers

Inflow Area = 2.091 ac, 90.96% Impervious, Inflow Depth = 1.44" for 1-yr event
Inflow = 4.80 cfs @ 12.04 hrs, Volume= 0.251 af
Outflow = 1.18 cfs @ 12.29 hrs, Volume= 0.251 af, Atten= 75%, Lag= 15.4 min
Primary = 1.18 cfs @ 12.29 hrs, Volume= 0.251 af
Routed to Reach DP-1 : Design Point

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 592.38' @ 12.29 hrs Surf.Area= 0.127 ac Storage= 0.079 af
Flood Elev= 598.32' Surf.Area= 0.127 ac Storage= 0.433 af

Plug-Flow detention time= 60.5 min calculated for 0.251 af (100% of inflow)
Center-of-Mass det. time= 60.2 min (847.2 - 787.0)

Volume	Invert	Avail.Storage	Storage Description
#1A	591.25'	0.177 af	**37.08'W x 149.10'L x 5.50'H Field A** 0.698 af Overall - 0.256 af Embedded = 0.442 af x 40.0% Voids
#2A	592.00'	0.256 af	**ADS_StormTech MC-3500 d +Cap**x 100 Inside #1 Effective Size= 70.4"W x 45.0"H => 15.33 sf x 7.17'L = 110.0 cf Overall Size= 77.0"W x 45.0"H x 7.50'L with 0.33' Overlap 100 Chambers in 5 Rows Cap Storage= 14.9 cf x 2 x 5 rows = 149.0 cf
		0.433 af	Total Available Storage

Storage Group A created with Chamber Wizard

Device	Routing	Invert	Outlet Devices
#1	Primary	591.25'	**8.0" Round Culvert** L= 25.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 591.25' / 591.00' S= 0.0100 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.35 sf

Primary OutFlow Max=1.18 cfs @ 12.29 hrs HW=592.38' TW=0.00' (Dynamic Tailwater)
└─**1=Culvert** (Inlet Controls 1.18 cfs @ 3.38 fps)

Pond CH-1: Chambers - Chamber Wizard Field A

Chamber Model = ADS_StormTechMC-3500 d +Cap (ADS StormTech® MC-3500 d rev 03/14 with Cap volume)
Effective Size= 70.4"W x 45.0"H => 15.33 sf x 7.17'L = 110.0 cf
Overall Size= 77.0"W x 45.0"H x 7.50'L with 0.33' Overlap
Cap Storage= 14.9 cf x 2 x 5 rows = 149.0 cf

77.0" Wide + 9.0" Spacing = 86.0" C-C Row Spacing

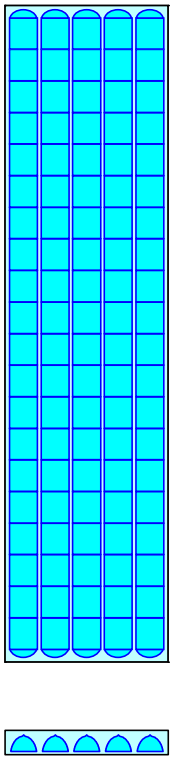
20 Chambers/Row x 7.17' Long +1.85' Cap Length x 2 = 147.10' Row Length +12.0" End Stone x 2 = 149.10' Base Length
5 Rows x 77.0" Wide + 9.0" Spacing x 4 + 12.0" Side Stone x 2 = 37.08' Base Width
9.0" Stone Base + 45.0" Chamber Height + 12.0" Stone Cover = 5.50' Field Height

100 Chambers x 110.0 cf + 14.9 cf Cap Volume x 2 x 5 Rows = 11,144.2 cf Chamber Storage

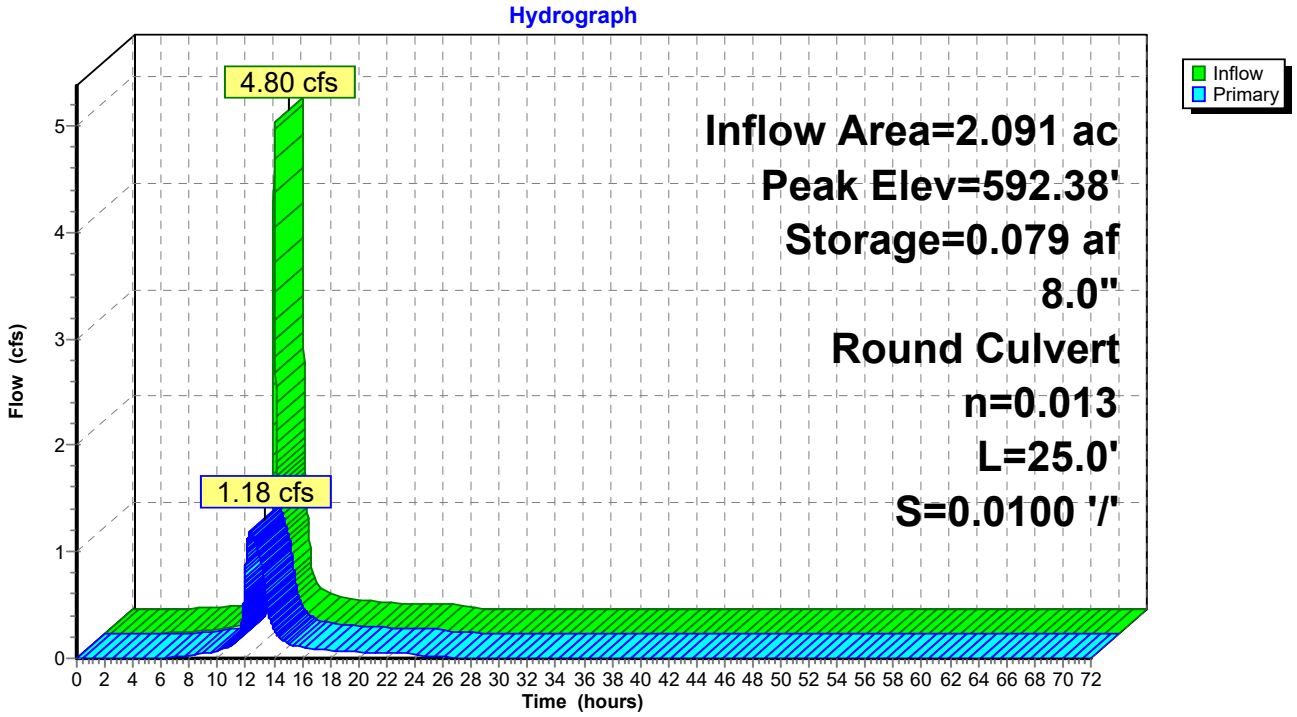
30,410.2 cf Field - 11,144.2 cf Chambers = 19,266.0 cf Stone x 40.0% Voids = 7,706.4 cf Stone Storage

Chamber Storage + Stone Storage = 18,850.6 cf = 0.433 af
Overall Storage Efficiency = 62.0%
Overall System Size = 149.10' x 37.08' x 5.50'

100 Chambers
1,126.3 cy Field
713.6 cy Stone



Pond CH-1: Chambers



Time span=0.00-72.00 hrs, dt=0.01 hrs, 7201 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method

SubcatchmentPS-1: Runoff Area=27,596 sf 33.98% Impervious Runoff Depth=1.78"
Tc=6.0 min CN=86 Runoff=1.71 cfs 0.094 af

SubcatchmentPS-2: Runoff Area=72,316 sf 88.61% Impervious Runoff Depth=2.69"
Tc=6.0 min CN=96 Runoff=6.39 cfs 0.372 af

SubcatchmentPS-3: Runoff Area=28,267 sf 33.49% Impervious Runoff Depth=1.78"
Tc=6.0 min CN=86 Runoff=1.75 cfs 0.096 af

SubcatchmentPS-4: Runoff Area=29,485 sf 70.98% Impervious Runoff Depth=2.39"
Tc=6.0 min CN=93 Runoff=2.39 cfs 0.135 af

SubcatchmentPS-5: Runoff Area=18,756 sf 100.00% Impervious Runoff Depth=2.91"
Tc=6.0 min CN=98 Runoff=1.72 cfs 0.104 af

SubcatchmentPS-6: Runoff Area=6,622 sf 100.00% Impervious Runoff Depth=2.91"
Tc=6.0 min CN=98 Runoff=0.61 cfs 0.037 af

SubcatchmentPS-7: Runoff Area=245,856 sf 0.00% Impervious Runoff Depth=1.36"
Flow Length=391' Tc=14.0 min CN=80 Runoff=8.08 cfs 0.638 af

SubcatchmentPS-8: Runoff Area=53,474 sf 0.00% Impervious Runoff Depth=1.36"
Flow Length=821' Slope=0.0100 '/' Tc=25.7 min CN=80 Runoff=1.32 cfs 0.139 af

Reach DP-1: Design Point Inflow=13.96 cfs 1.615 af
Outflow=13.96 cfs 1.615 af

Pond BIO-1: Filtration Bioretention Peak Elev=599.12' Storage=1,232 cf Inflow=1.71 cfs 0.094 af
Primary=0.02 cfs 0.045 af Secondary=1.10 cfs 0.049 af Tertiary=0.00 cfs 0.000 af Outflow=1.12 cfs 0.094 af

Pond BIO-2: Filtration Bioretention Peak Elev=597.12' Storage=1,319 cf Inflow=1.75 cfs 0.096 af
Primary=0.02 cfs 0.048 af Secondary=1.04 cfs 0.048 af Tertiary=0.00 cfs 0.000 af Outflow=1.06 cfs 0.096 af

Pond BIO-3: Filtration Bioretention Peak Elev=596.12' Storage=2,359 cf Inflow=2.39 cfs 0.135 af
Primary=0.04 cfs 0.084 af Secondary=1.03 cfs 0.050 af Tertiary=0.00 cfs 0.000 af Outflow=1.07 cfs 0.135 af

Pond CH-1: Chambers Peak Elev=593.15' Storage=0.161 af Inflow=8.11 cfs 0.476 af
8.0" Round Culvert n=0.013 L=25.0' S=0.0100 '/' Outflow=1.66 cfs 0.476 af

Total Runoff Area = 11.074 ac Runoff Volume = 1.615 af Average Runoff Depth = 1.75"
73.21% Pervious = 8.107 ac 26.79% Impervious = 2.967 ac

Summary for Subcatchment PS-1:

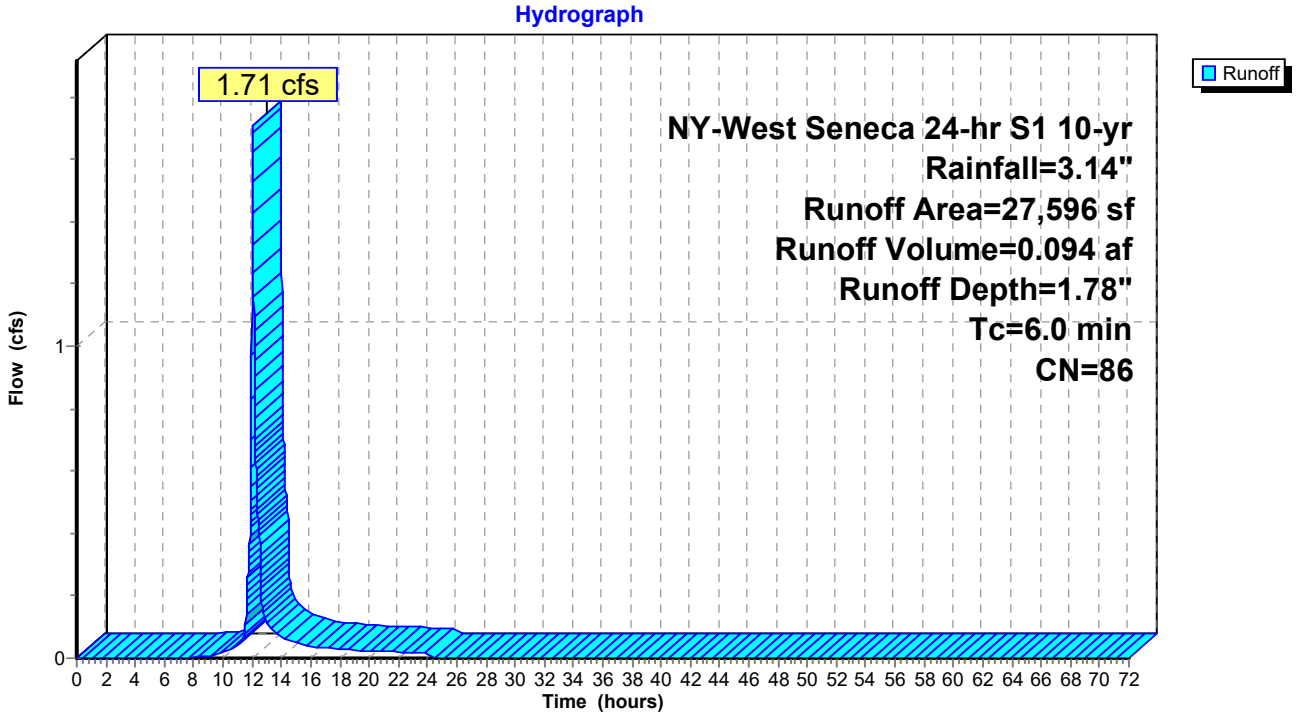
Runoff = 1.71 cfs @ 12.04 hrs, Volume= 0.094 af, Depth= 1.78"
Routed to Pond BIO-1 : Filtration Bioretention

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NY-West Seneca 24-hr S1 10-yr Rainfall=3.14"

Area (sf)	CN	Description
9,376	98	Paved parking, HSG D
18,220	80	>75% Grass cover, Good, HSG D
27,596	86	Weighted Average
18,220		66.02% Pervious Area
9,376		33.98% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					**Direct Entry, Direct**

Subcatchment PS-1:



Summary for Subcatchment PS-2:

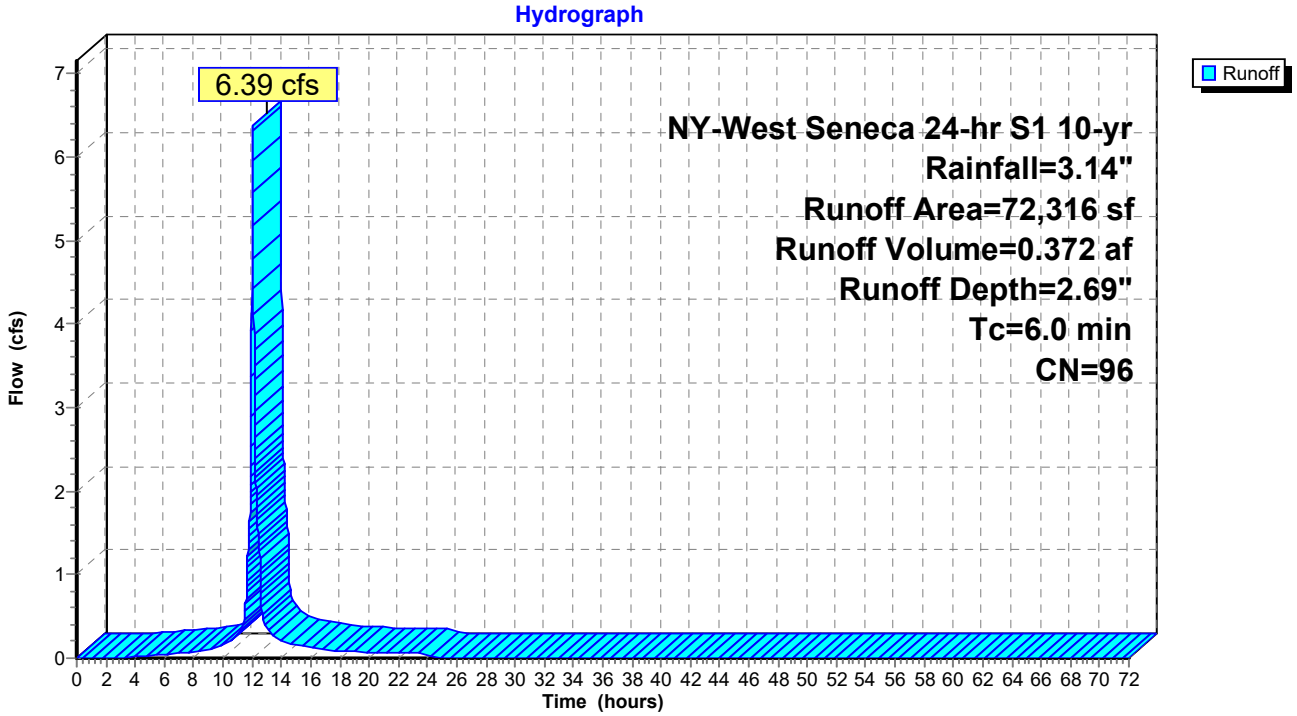
Runoff = 6.39 cfs @ 12.04 hrs, Volume= 0.372 af, Depth= 2.69"
Routed to Pond CH-1 : Chambers

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NY-West Seneca 24-hr S1 10-yr Rainfall=3.14"

Area (sf)	CN	Description
64,081	98	Paved parking, HSG D
8,235	80	>75% Grass cover, Good, HSG D
72,316	96	Weighted Average
8,235		11.39% Pervious Area
64,081		88.61% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					**Direct Entry, Direct**

Subcatchment PS-2:



Summary for Subcatchment PS-3:

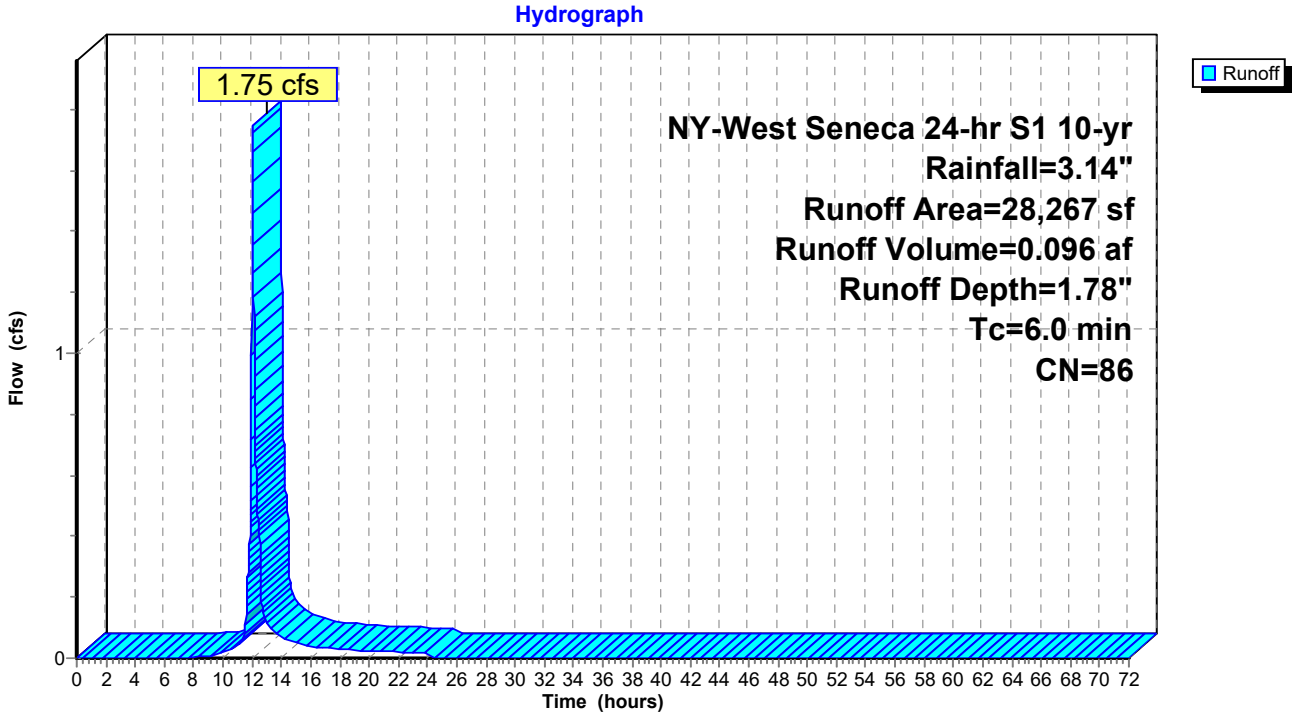
Runoff = 1.75 cfs @ 12.04 hrs, Volume= 0.096 af, Depth= 1.78"
Routed to Pond BIO-2 : Filtration Bioretention

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NY-West Seneca 24-hr S1 10-yr Rainfall=3.14"

Area (sf)	CN	Description
9,466	98	Paved parking, HSG D
18,801	80	>75% Grass cover, Good, HSG D
28,267	86	Weighted Average
18,801		66.51% Pervious Area
9,466		33.49% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					**Direct Entry, Direct**

Subcatchment PS-3:



Summary for Subcatchment PS-4:

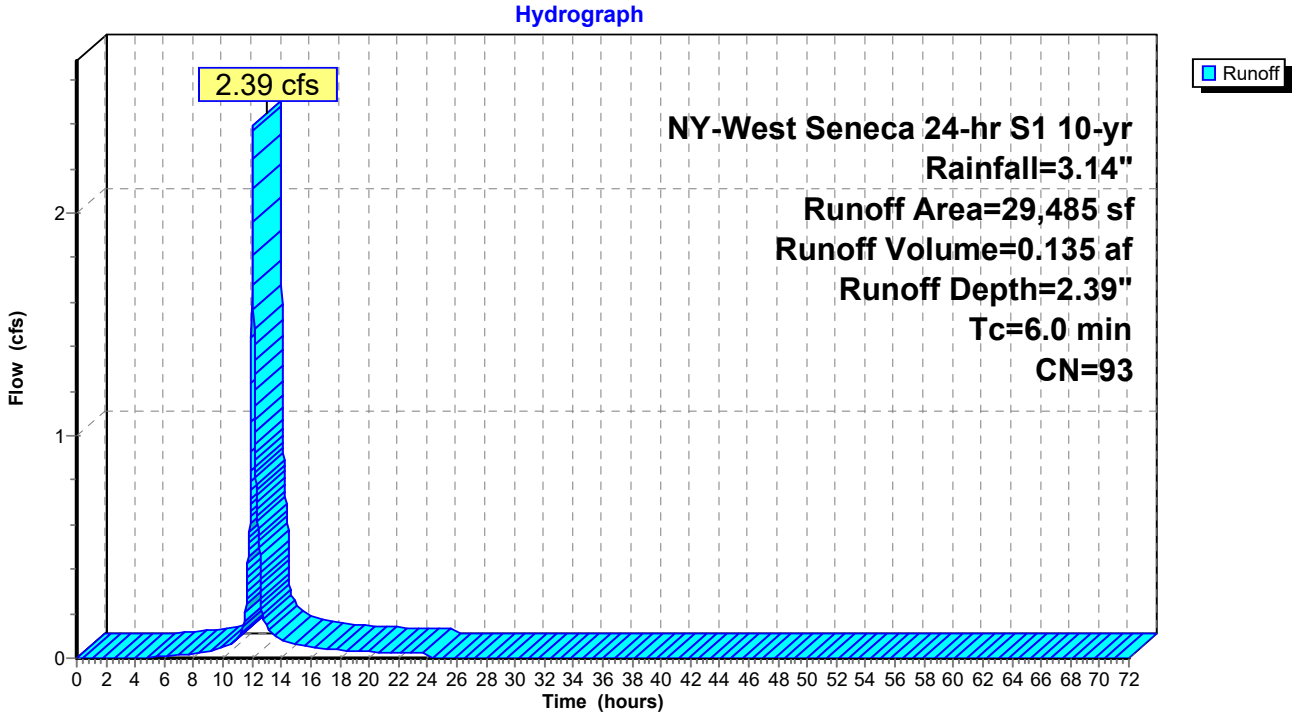
Runoff = 2.39 cfs @ 12.04 hrs, Volume= 0.135 af, Depth= 2.39"
Routed to Pond BIO-3 : Filtration Bioretention

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NY-West Seneca 24-hr S1 10-yr Rainfall=3.14"

Area (sf)	CN	Description
20,928	98	Paved parking, HSG D
8,557	80	>75% Grass cover, Good, HSG D
29,485	93	Weighted Average
8,557		29.02% Pervious Area
20,928		70.98% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					**Direct Entry, Direct**

Subcatchment PS-4:



Summary for Subcatchment PS-5:

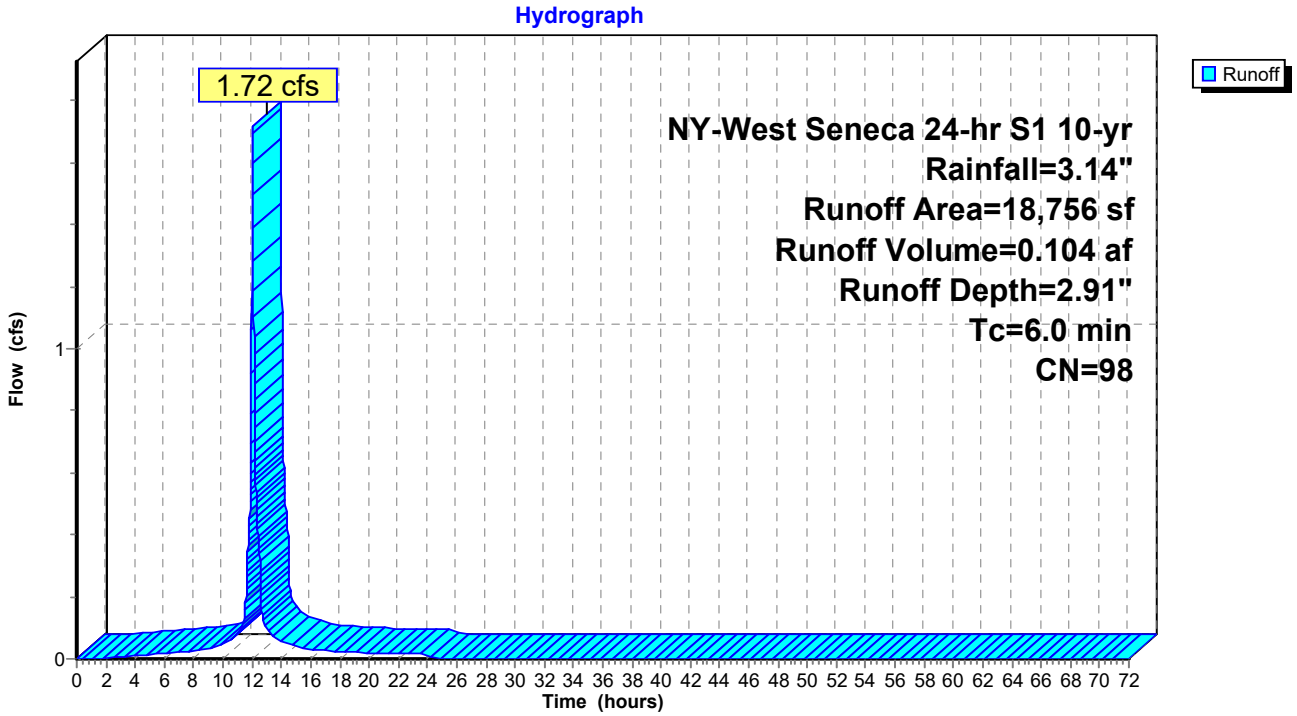
Runoff = 1.72 cfs @ 12.04 hrs, Volume= 0.104 af, Depth= 2.91"
Routed to Pond CH-1 : Chambers

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NY-West Seneca 24-hr S1 10-yr Rainfall=3.14"

Area (sf)	CN	Description
18,756	98	Paved parking, HSG D
18,756		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					**Direct Entry, Direct**

Subcatchment PS-5:



Summary for Subcatchment PS-6:

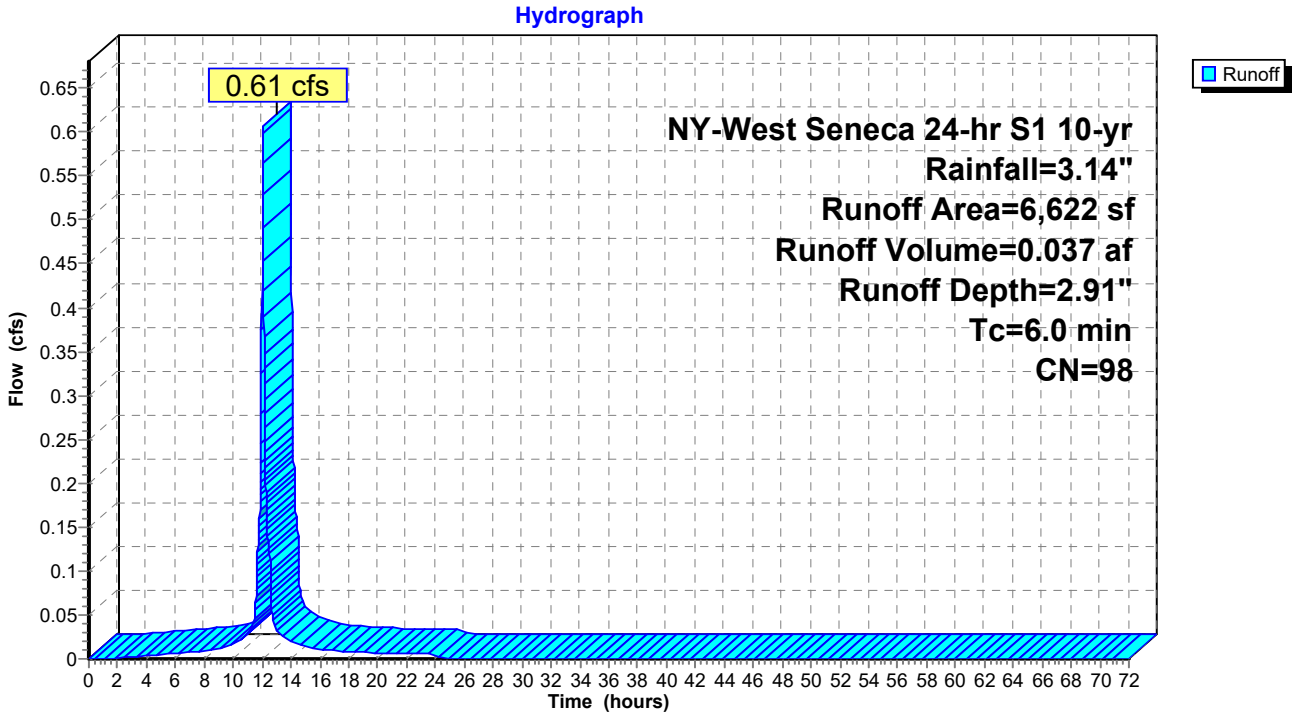
Runoff = 0.61 cfs @ 12.04 hrs, Volume= 0.037 af, Depth= 2.91"
Routed to Reach DP-1 : Design Point

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NY-West Seneca 24-hr S1 10-yr Rainfall=3.14"

Area (sf)	CN	Description
6,622	98	Paved parking, HSG D
6,622		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					**Direct Entry, Direct**

Subcatchment PS-6:



Summary for Subcatchment PS-7:

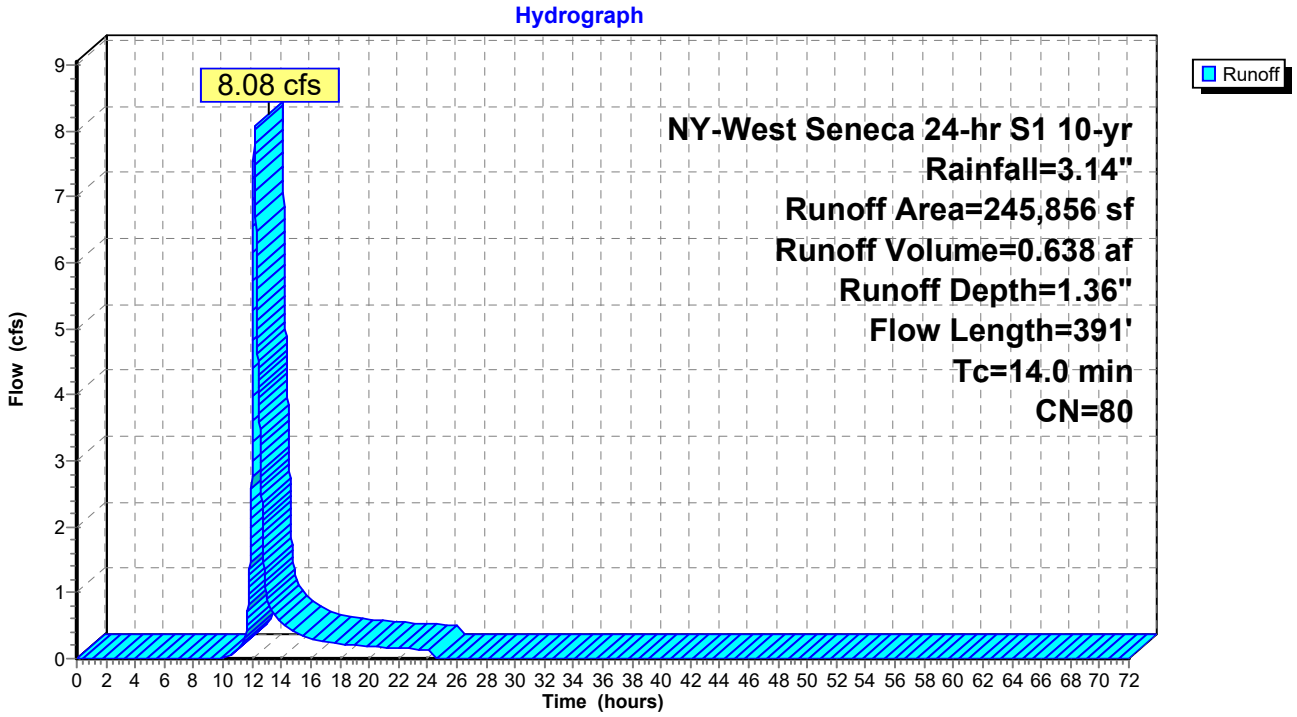
Runoff = 8.08 cfs @ 12.15 hrs, Volume= 0.638 af, Depth= 1.36"
Routed to Reach DP-1 : Design Point

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NY-West Seneca 24-hr S1 10-yr Rainfall=3.14"

Area (sf)	CN	Description
245,856	80	>75% Grass cover, Good, HSG D
245,856		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.5	100	0.0450	0.20		**Sheet Flow,** Grass: Short n= 0.150 P2= 2.20"
5.3	271	0.0148	0.85		**Shallow Concentrated Flow, SCF** Short Grass Pasture Kv= 7.0 fps
0.2	20	0.1500	1.94		**Shallow Concentrated Flow, SCF** Woodland Kv= 5.0 fps
14.0	391	Total			

Subcatchment PS-7:



Summary for Subcatchment PS-8:

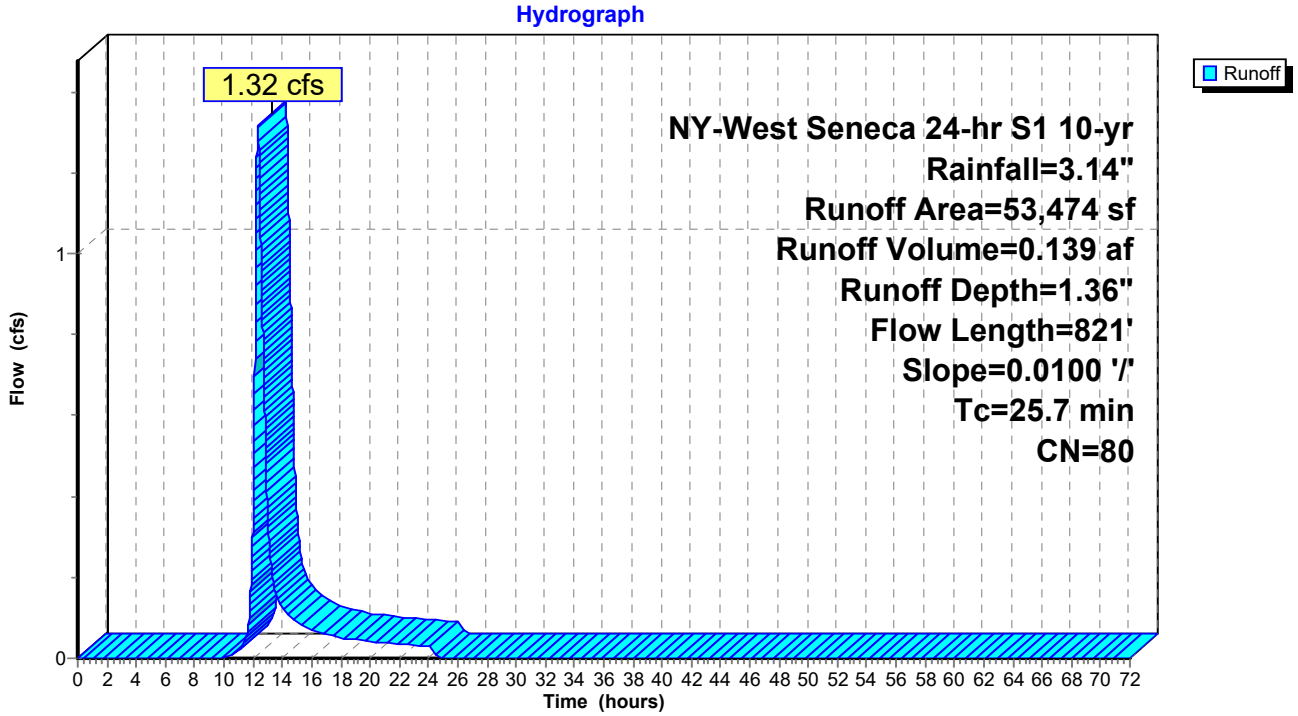
Runoff = 1.32 cfs @ 12.32 hrs, Volume= 0.139 af, Depth= 1.36"
Routed to Reach DP-1 : Design Point

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NY-West Seneca 24-hr S1 10-yr Rainfall=3.14"

Area (sf)	CN	Description
53,474	80	>75% Grass cover, Good, HSG D
53,474		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
15.6	100	0.0100	0.11		**Sheet Flow, SF** Grass: Short n= 0.150 P2= 2.20"
8.8	371	0.0100	0.70		**Shallow Concentrated Flow, SCF** Short Grass Pasture Kv= 7.0 fps
1.3	350	0.0100	4.54	3.56	**Pipe Channel, Pipe Flow** 12.0" Round Area= 0.8 sf Perim= 3.1' r= 0.25' n= 0.013 Corrugated PE, smooth interior
25.7	821	Total			

Subcatchment PS-8:

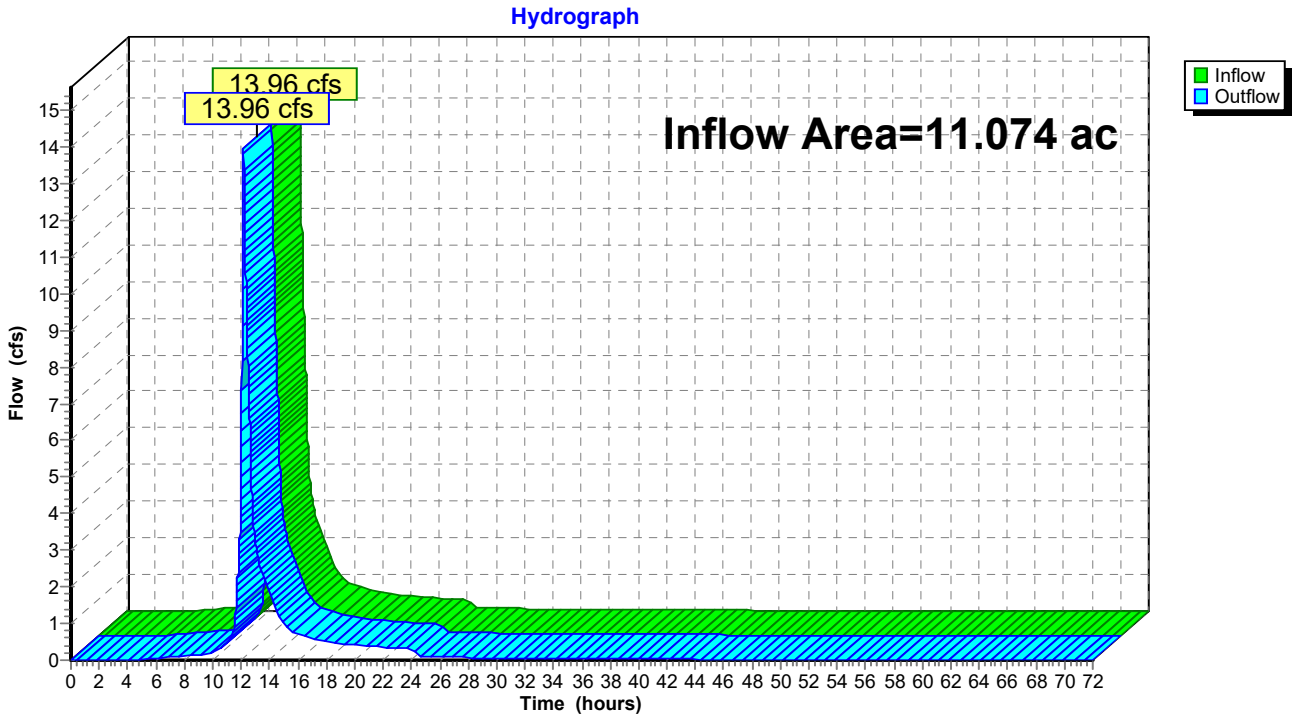


Summary for Reach DP-1: Design Point

Inflow Area = 11.074 ac, 26.79% Impervious, Inflow Depth = 1.75" for 10-yr event
Inflow = 13.96 cfs @ 12.15 hrs, Volume= 1.615 af
Outflow = 13.96 cfs @ 12.15 hrs, Volume= 1.615 af, Atten= 0%, Lag= 0.0 min

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Reach DP-1: Design Point



Summary for Pond BIO-1: Filtration Bioretention

Inflow Area = 0.634 ac, 33.98% Impervious, Inflow Depth = 1.78" for 10-yr event
Inflow = 1.71 cfs @ 12.04 hrs, Volume= 0.094 af
Outflow = 1.12 cfs @ 12.12 hrs, Volume= 0.094 af, Atten= 34%, Lag= 4.6 min
Primary = 0.02 cfs @ 12.12 hrs, Volume= 0.045 af
Routed to Reach DP-1 : Design Point
Secondary = 1.10 cfs @ 12.12 hrs, Volume= 0.049 af
Routed to Reach DP-1 : Design Point
Tertiary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af
Routed to Reach DP-1 : Design Point

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 599.12' @ 12.12 hrs Surf.Area= 1,797 sf Storage= 1,232 cf
Flood Elev= 600.00' Surf.Area= 2,500 sf Storage= 3,120 cf

Plug-Flow detention time= 326.2 min calculated for 0.094 af (100% of inflow)
Center-of-Mass det. time= 326.4 min (1,148.5 - 822.1)

Volume	Invert	Avail.Storage	Storage Description
#1	598.00'	3,120 cf	**Above Mulch Surface (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
598.00	340	0	0
599.00	1,700	1,020	1,020
600.00	2,500	2,100	3,120

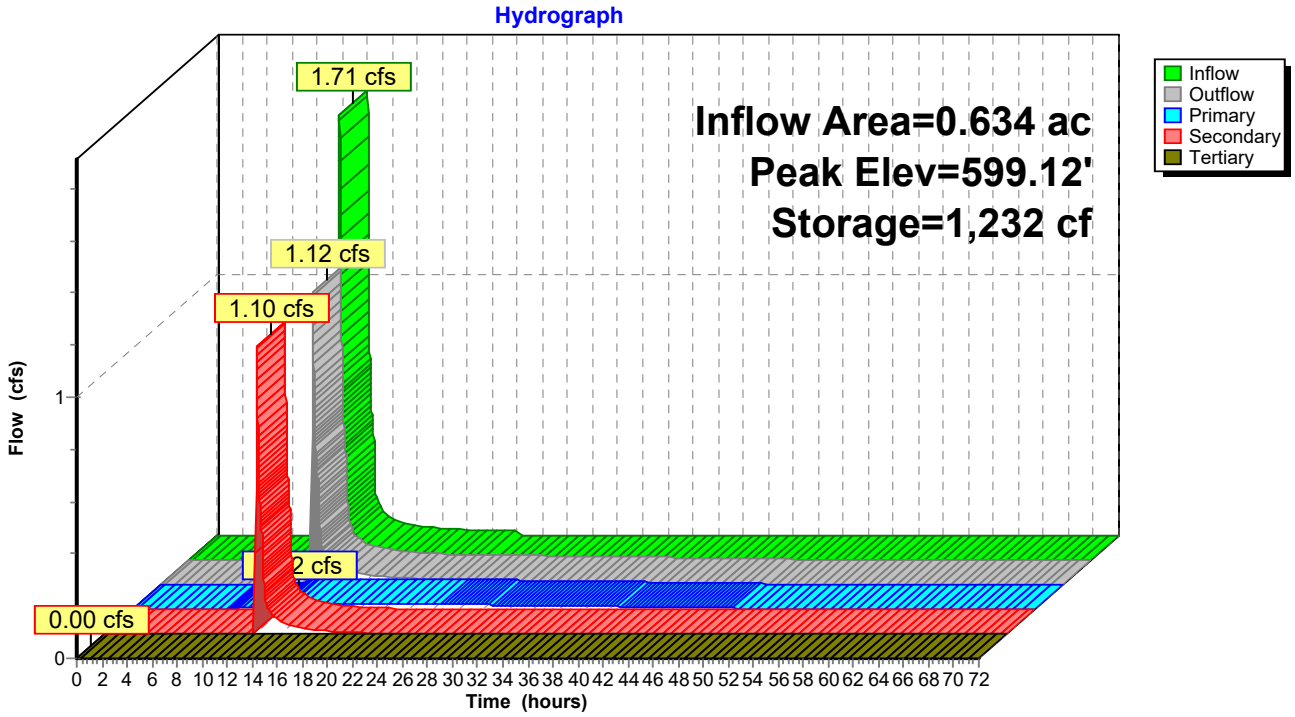
Device	Routing	Invert	Outlet Devices
#1	Primary	598.00'	**0.500 in/hr Exfiltration Through Media over Surface area**
#2	Device 3	599.00'	**24.0" x 24.0" Horiz. Overflow Grate** C= 0.600 Limited to weir flow at low heads
#3	Secondary	594.58'	**12.0" Round Culvert** L= 25.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 594.58' / 594.33' S= 0.0100 '/' Cc= 0.900 n= 0.012 Corrugated PE, smooth interior, Flow Area= 0.79 sf
#4	Tertiary	599.50'	**10.0' long x 3.0' breadth Emergency Overflow Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 Coef. (English) 2.44 2.58 2.68 2.67 2.65 2.64 2.64 2.68 2.68 2.72 2.81 2.92 2.97 3.07 3.32

Primary OutFlow Max=0.02 cfs @ 12.12 hrs HW=599.12' TW=0.00' (Dynamic Tailwater)
└─**1=Exfiltration Through Media** (Exfiltration Controls 0.02 cfs)

Secondary OutFlow Max=1.10 cfs @ 12.12 hrs HW=599.12' TW=0.00' (Dynamic Tailwater)
└─**3=Culvert** (Passes 1.10 cfs of 6.00 cfs potential flow)
└─**2=Overflow Grate** (Weir Controls 1.10 cfs @ 1.14 fps)

Tertiary OutFlow Max=0.00 cfs @ 0.00 hrs HW=598.00' TW=0.00' (Dynamic Tailwater)
└─**4=Emergency Overflow Weir** (Controls 0.00 cfs)

Pond BIO-1: Filtration Bioretention



Summary for Pond BIO-2: Filtration Bioretention

Inflow Area = 0.649 ac, 33.49% Impervious, Inflow Depth = 1.78" for 10-yr event
Inflow = 1.75 cfs @ 12.04 hrs, Volume= 0.096 af
Outflow = 1.06 cfs @ 12.13 hrs, Volume= 0.096 af, Atten= 39%, Lag= 5.6 min
Primary = 0.02 cfs @ 12.13 hrs, Volume= 0.048 af
Routed to Reach DP-1 : Design Point
Secondary = 1.04 cfs @ 12.13 hrs, Volume= 0.048 af
Routed to Reach DP-1 : Design Point
Tertiary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af
Routed to Reach DP-1 : Design Point

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 597.12' @ 12.13 hrs Surf.Area= 1,941 sf Storage= 1,319 cf
Flood Elev= 598.00' Surf.Area= 2,630 sf Storage= 3,339 cf

Plug-Flow detention time= 339.7 min calculated for 0.096 af (100% of inflow)
Center-of-Mass det. time= 339.9 min (1,162.0 - 822.1)

Volume	Invert	Avail.Storage	Storage Description
#1	596.00'	3,339 cf	**Above Mulch Surface (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
596.00	348	0	0
597.00	1,850	1,099	1,099
598.00	2,630	2,240	3,339

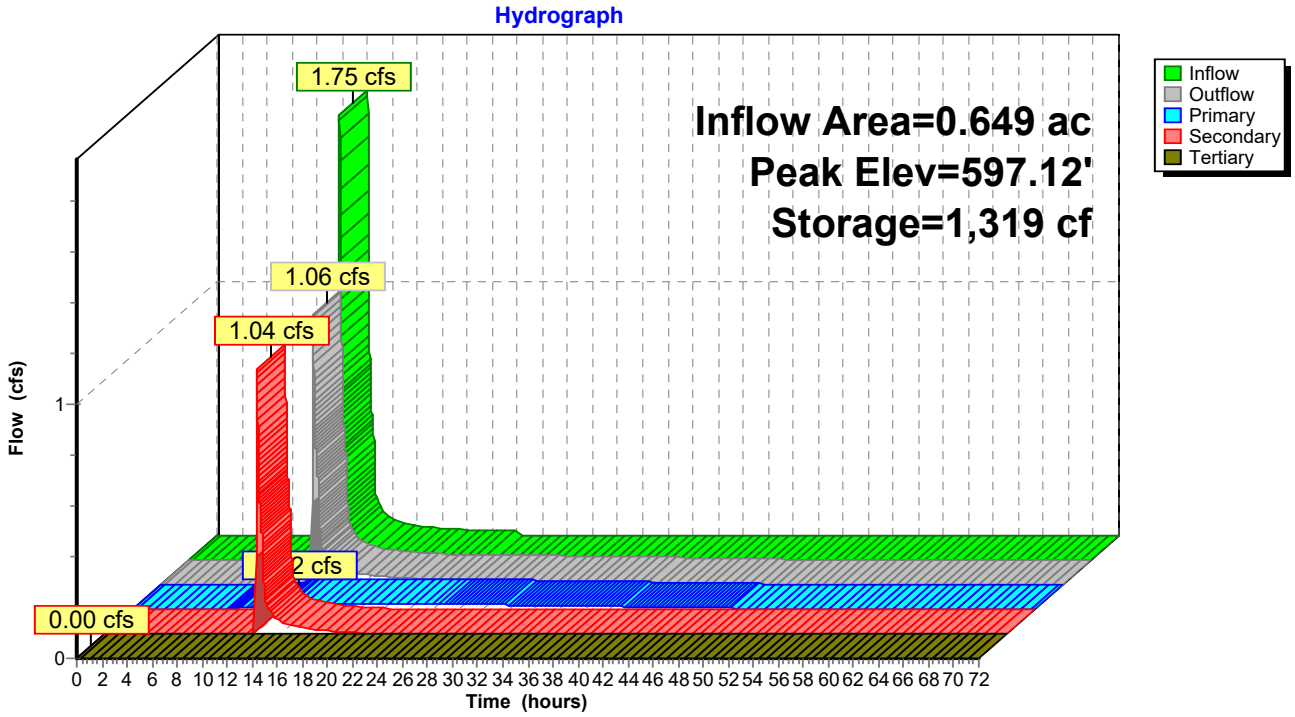
Device	Routing	Invert	Outlet Devices
#1	Primary	596.00'	**0.500 in/hr Exfiltration Through Media over Surface area**
#2	Device 3	597.00'	**24.0" x 24.0" Horiz. Overflow Grate** C= 0.600 Limited to weir flow at low heads
#3	Secondary	592.58'	**12.0" Round Culvert** L= 132.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 592.58' / 591.92' S= 0.0050 '/' Cc= 0.900 n= 0.012 Corrugated PE, smooth interior, Flow Area= 0.79 sf
#4	Tertiary	597.50'	**10.0' long x 3.0' breadth Emergency Overflow Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 Coef. (English) 2.44 2.58 2.68 2.67 2.65 2.64 2.64 2.68 2.68 2.72 2.81 2.92 2.97 3.07 3.32

Primary OutFlow Max=0.02 cfs @ 12.13 hrs HW=597.12' TW=0.00' (Dynamic Tailwater)
└─**1=Exfiltration Through Media** (Exfiltration Controls 0.02 cfs)

Secondary OutFlow Max=1.04 cfs @ 12.13 hrs HW=597.12' TW=0.00' (Dynamic Tailwater)
└─**3=Culvert** (Passes 1.04 cfs of 5.54 cfs potential flow)
└─**2=Overflow Grate** (Weir Controls 1.04 cfs @ 1.11 fps)

Tertiary OutFlow Max=0.00 cfs @ 0.00 hrs HW=596.00' TW=0.00' (Dynamic Tailwater)
└─**4=Emergency Overflow Weir** (Controls 0.00 cfs)

Pond BIO-2: Filtration Bioretention



Summary for Pond BIO-3: Filtration Bioretention

Inflow Area = 0.677 ac, 70.98% Impervious, Inflow Depth = 2.39" for 10-yr event
Inflow = 2.39 cfs @ 12.04 hrs, Volume= 0.135 af
Outflow = 1.07 cfs @ 12.18 hrs, Volume= 0.135 af, Atten= 55%, Lag= 8.6 min
Primary = 0.04 cfs @ 12.18 hrs, Volume= 0.084 af
Routed to Reach DP-1 : Design Point
Secondary = 1.03 cfs @ 12.18 hrs, Volume= 0.050 af
Routed to Reach DP-1 : Design Point
Tertiary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af
Routed to Reach DP-1 : Design Point

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 596.12' @ 12.18 hrs Surf.Area= 3,334 sf Storage= 2,359 cf
Flood Elev= 597.00' Surf.Area= 3,978 sf Storage= 5,592 cf

Plug-Flow detention time= (not calculated: outflow precedes inflow)
Center-of-Mass det. time= 411.1 min (1,203.9 - 792.8)

Volume	Invert	Avail.Storage	Storage Description
#1	595.00'	5,592 cf	**Above Mulch Surface (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
595.00	705	0	0
596.00	3,250	1,978	1,978
597.00	3,978	3,614	5,592

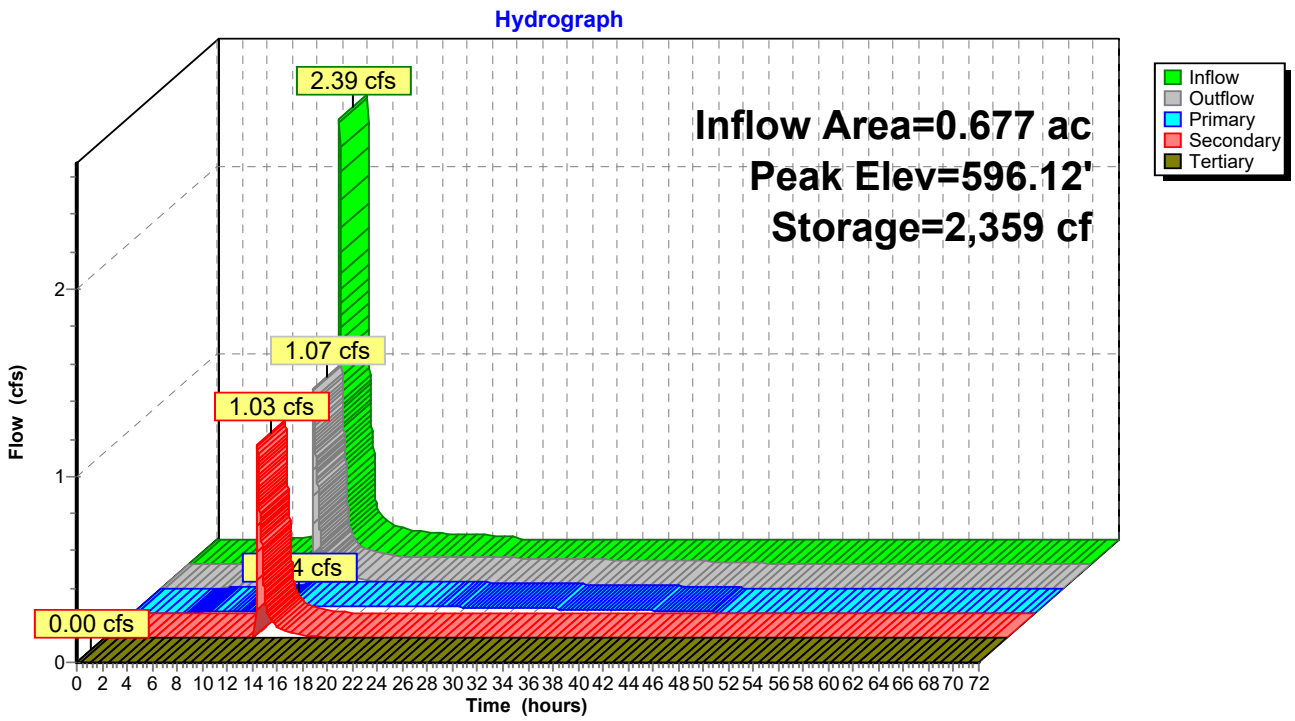
Device	Routing	Invert	Outlet Devices
#1	Primary	595.00'	**0.500 in/hr Exfiltration Through Media over Surface area**
#2	Device 3	596.00'	**24.0" x 24.0" Horiz. Overflow Grate** C= 0.600 Limited to weir flow at low heads
#3	Secondary	591.58'	**12.0" Round Culvert** L= 28.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 591.58' / 591.30' S= 0.0100 '/' Cc= 0.900 n= 0.012 Corrugated PE, smooth interior, Flow Area= 0.79 sf
#4	Tertiary	596.50'	**10.0' long x 3.0' breadth Emergency Overflow Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 Coef. (English) 2.44 2.58 2.68 2.67 2.65 2.64 2.64 2.68 2.68 2.72 2.81 2.92 2.97 3.07 3.32

Primary OutFlow Max=0.04 cfs @ 12.18 hrs HW=596.12' TW=0.00' (Dynamic Tailwater)
└─**1=Exfiltration Through Media** (Exfiltration Controls 0.04 cfs)

Secondary OutFlow Max=1.03 cfs @ 12.18 hrs HW=596.12' TW=0.00' (Dynamic Tailwater)
└─**3=Culvert** (Passes 1.03 cfs of 6.00 cfs potential flow)
└─**2=Overflow Grate** (Weir Controls 1.03 cfs @ 1.11 fps)

Tertiary OutFlow Max=0.00 cfs @ 0.00 hrs HW=595.00' TW=0.00' (Dynamic Tailwater)
└─**4=Emergency Overflow Weir** (Controls 0.00 cfs)

Pond BIO-3: Filtration Bioretention



Summary for Pond CH-1: Chambers

Inflow Area = 2.091 ac, 90.96% Impervious, Inflow Depth = 2.73" for 10-yr event
Inflow = 8.11 cfs @ 12.04 hrs, Volume= 0.476 af
Outflow = 1.66 cfs @ 12.48 hrs, Volume= 0.476 af, Atten= 80%, Lag= 26.9 min
Primary = 1.66 cfs @ 12.48 hrs, Volume= 0.476 af
Routed to Reach DP-1 : Design Point

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 593.15' @ 12.48 hrs Surf.Area= 0.127 ac Storage= 0.161 af
Flood Elev= 598.32' Surf.Area= 0.127 ac Storage= 0.433 af

Plug-Flow detention time= 60.0 min calculated for 0.476 af (100% of inflow)
Center-of-Mass det. time= 59.7 min (829.9 - 770.2)

Volume	Invert	Avail.Storage	Storage Description
#1A	591.25'	0.177 af	**37.08'W x 149.10'L x 5.50'H Field A** 0.698 af Overall - 0.256 af Embedded = 0.442 af x 40.0% Voids
#2A	592.00'	0.256 af	**ADS_StormTech MC-3500 d +Cap**x 100 Inside #1 Effective Size= 70.4"W x 45.0"H => 15.33 sf x 7.17'L = 110.0 cf Overall Size= 77.0"W x 45.0"H x 7.50'L with 0.33' Overlap 100 Chambers in 5 Rows Cap Storage= 14.9 cf x 2 x 5 rows = 149.0 cf
		0.433 af	Total Available Storage

Storage Group A created with Chamber Wizard

Device	Routing	Invert	Outlet Devices
#1	Primary	591.25'	**8.0" Round Culvert** L= 25.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 591.25' / 591.00' S= 0.0100 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.35 sf

Primary OutFlow Max=1.66 cfs @ 12.48 hrs HW=593.15' TW=0.00' (Dynamic Tailwater)
└─**1=Culvert** (Inlet Controls 1.66 cfs @ 4.75 fps)

Pond CH-1: Chambers - Chamber Wizard Field A

Chamber Model = ADS_StormTechMC-3500 d +Cap (ADS StormTech® MC-3500 d rev 03/14 with Cap volume)
Effective Size= 70.4"W x 45.0"H => 15.33 sf x 7.17'L = 110.0 cf
Overall Size= 77.0"W x 45.0"H x 7.50'L with 0.33' Overlap
Cap Storage= 14.9 cf x 2 x 5 rows = 149.0 cf

77.0" Wide + 9.0" Spacing = 86.0" C-C Row Spacing

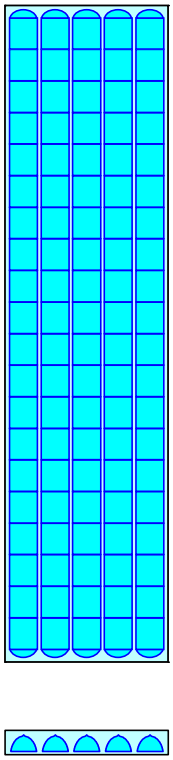
20 Chambers/Row x 7.17' Long +1.85' Cap Length x 2 = 147.10' Row Length +12.0" End Stone x 2 = 149.10' Base Length
5 Rows x 77.0" Wide + 9.0" Spacing x 4 + 12.0" Side Stone x 2 = 37.08' Base Width
9.0" Stone Base + 45.0" Chamber Height + 12.0" Stone Cover = 5.50' Field Height

100 Chambers x 110.0 cf + 14.9 cf Cap Volume x 2 x 5 Rows = 11,144.2 cf Chamber Storage

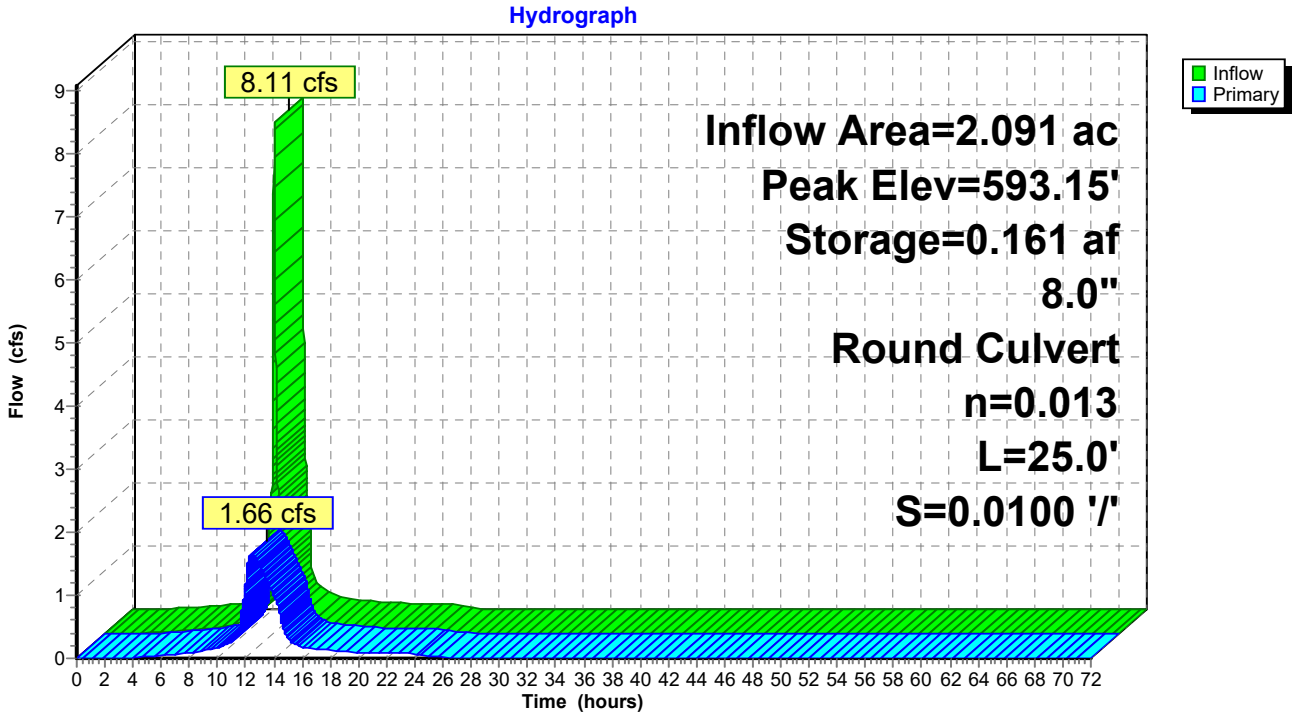
30,410.2 cf Field - 11,144.2 cf Chambers = 19,266.0 cf Stone x 40.0% Voids = 7,706.4 cf Stone Storage

Chamber Storage + Stone Storage = 18,850.6 cf = 0.433 af
Overall Storage Efficiency = 62.0%
Overall System Size = 149.10' x 37.08' x 5.50'

100 Chambers
1,126.3 cy Field
713.6 cy Stone



Pond CH-1: Chambers



Time span=0.00-72.00 hrs, dt=0.01 hrs, 7201 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method

SubcatchmentPS-1: Runoff Area=27,596 sf 33.98% Impervious Runoff Depth=3.67"
Tc=6.0 min CN=86 Runoff=3.44 cfs 0.194 af

SubcatchmentPS-2: Runoff Area=72,316 sf 88.61% Impervious Runoff Depth=4.75"
Tc=6.0 min CN=96 Runoff=10.80 cfs 0.657 af

SubcatchmentPS-3: Runoff Area=28,267 sf 33.49% Impervious Runoff Depth=3.67"
Tc=6.0 min CN=86 Runoff=3.52 cfs 0.199 af

SubcatchmentPS-4: Runoff Area=29,485 sf 70.98% Impervious Runoff Depth=4.41"
Tc=6.0 min CN=93 Runoff=4.23 cfs 0.249 af

SubcatchmentPS-5: Runoff Area=18,756 sf 100.00% Impervious Runoff Depth=4.98"
Tc=6.0 min CN=98 Runoff=2.85 cfs 0.179 af

SubcatchmentPS-6: Runoff Area=6,622 sf 100.00% Impervious Runoff Depth=4.98"
Tc=6.0 min CN=98 Runoff=1.01 cfs 0.063 af

SubcatchmentPS-7: Runoff Area=245,856 sf 0.00% Impervious Runoff Depth=3.09"
Flow Length=391' Tc=14.0 min CN=80 Runoff=18.94 cfs 1.451 af

SubcatchmentPS-8: Runoff Area=53,474 sf 0.00% Impervious Runoff Depth=3.09"
Flow Length=821' Slope=0.0100 '/' Tc=25.7 min CN=80 Runoff=3.15 cfs 0.316 af

Reach DP-1: Design Point Inflow=31.66 cfs 3.307 af
Outflow=31.66 cfs 3.307 af

Pond BIO-1: Filtration Bioretention Peak Elev=599.25' Storage=1,462 cf Inflow=3.44 cfs 0.194 af
Primary=0.02 cfs 0.048 af Secondary=3.18 cfs 0.146 af Tertiary=0.00 cfs 0.000 af Outflow=3.21 cfs 0.194 af

Pond BIO-2: Filtration Bioretention Peak Elev=597.25' Storage=1,582 cf Inflow=3.52 cfs 0.199 af
Primary=0.02 cfs 0.052 af Secondary=3.23 cfs 0.147 af Tertiary=0.00 cfs 0.000 af Outflow=3.26 cfs 0.199 af

Pond BIO-3: Filtration Bioretention Peak Elev=596.27' Storage=2,865 cf Inflow=4.23 cfs 0.249 af
Primary=0.04 cfs 0.094 af Secondary=3.57 cfs 0.155 af Tertiary=0.00 cfs 0.000 af Outflow=3.61 cfs 0.249 af

Pond CH-1: Chambers Peak Elev=594.85' Storage=0.322 af Inflow=13.65 cfs 0.836 af
8.0" Round Culvert n=0.013 L=25.0' S=0.0100 '/' Outflow=2.40 cfs 0.836 af

Total Runoff Area = 11.074 ac Runoff Volume = 3.308 af Average Runoff Depth = 3.58"
73.21% Pervious = 8.107 ac 26.79% Impervious = 2.967 ac

Summary for Subcatchment PS-1:

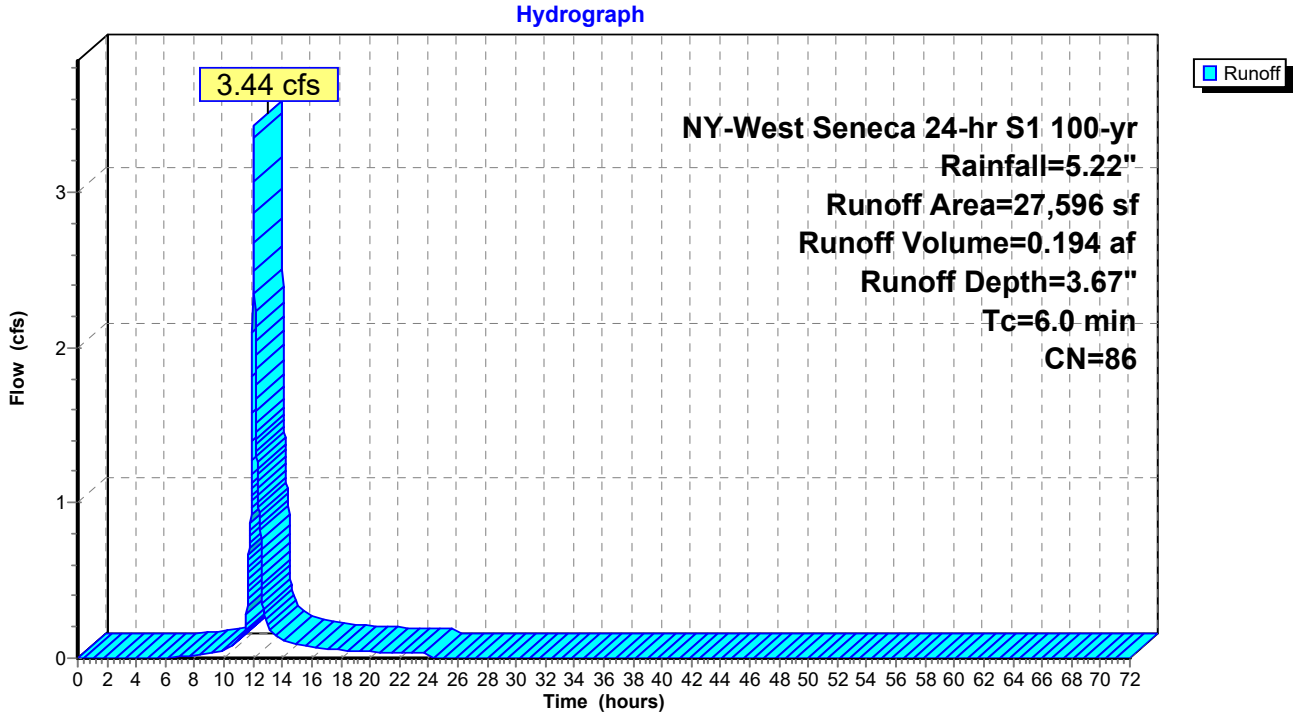
Runoff = 3.44 cfs @ 12.04 hrs, Volume= 0.194 af, Depth= 3.67"
Routed to Pond BIO-1 : Filtration Bioretention

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NY-West Seneca 24-hr S1 100-yr Rainfall=5.22"

Area (sf)	CN	Description
9,376	98	Paved parking, HSG D
18,220	80	>75% Grass cover, Good, HSG D
27,596	86	Weighted Average
18,220		66.02% Pervious Area
9,376		33.98% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					**Direct Entry, Direct**

Subcatchment PS-1:



Summary for Subcatchment PS-2:

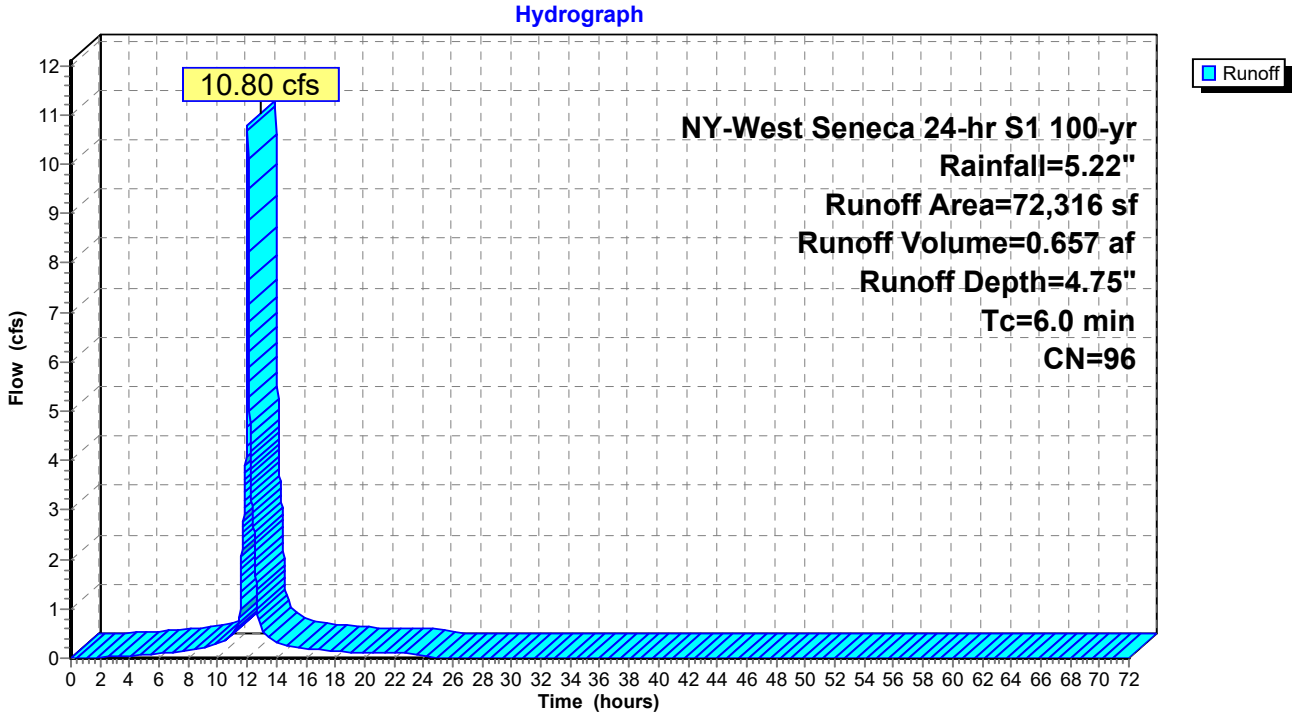
Runoff = 10.80 cfs @ 12.04 hrs, Volume= 0.657 af, Depth= 4.75"
Routed to Pond CH-1 : Chambers

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NY-West Seneca 24-hr S1 100-yr Rainfall=5.22"

Area (sf)	CN	Description
64,081	98	Paved parking, HSG D
8,235	80	>75% Grass cover, Good, HSG D
72,316	96	Weighted Average
8,235		11.39% Pervious Area
64,081		88.61% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					**Direct Entry, Direct**

Subcatchment PS-2:



Summary for Subcatchment PS-3:

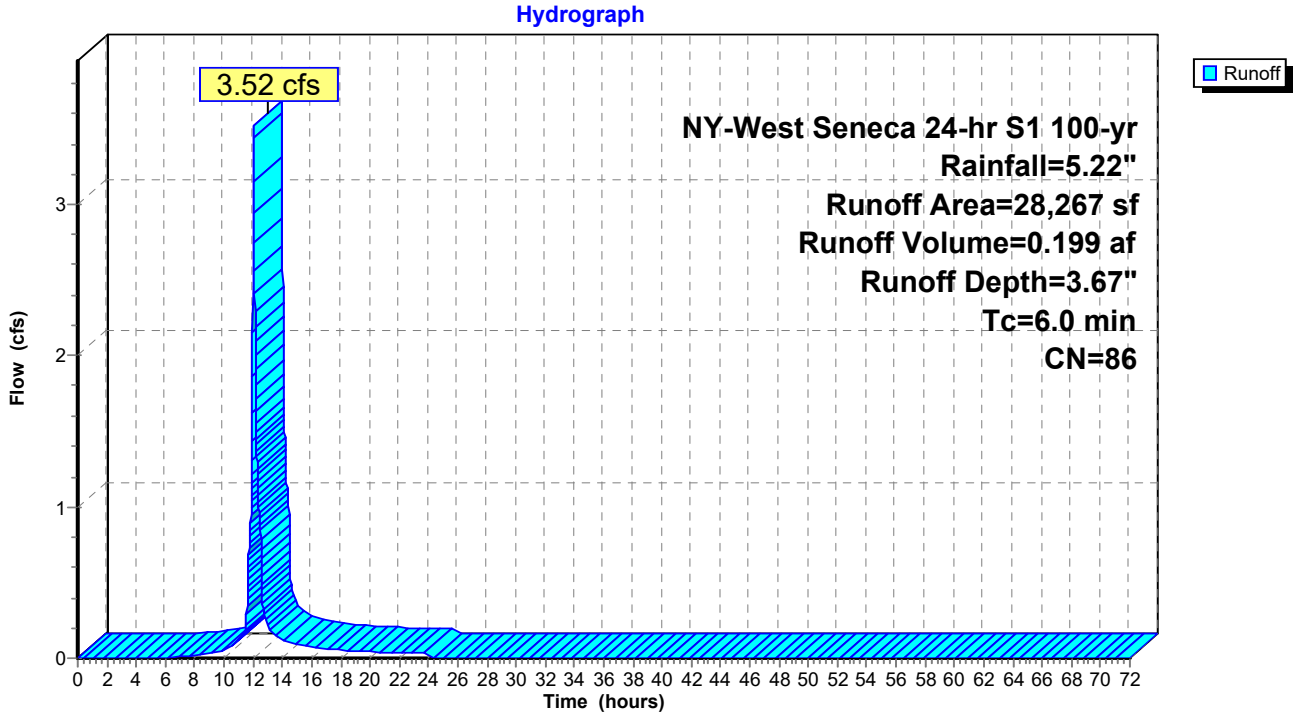
Runoff = 3.52 cfs @ 12.04 hrs, Volume= 0.199 af, Depth= 3.67"
Routed to Pond BIO-2 : Filtration Bioretention

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NY-West Seneca 24-hr S1 100-yr Rainfall=5.22"

Area (sf)	CN	Description
9,466	98	Paved parking, HSG D
18,801	80	>75% Grass cover, Good, HSG D
28,267	86	Weighted Average
18,801		66.51% Pervious Area
9,466		33.49% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					**Direct Entry, Direct**

Subcatchment PS-3:



Summary for Subcatchment PS-4:

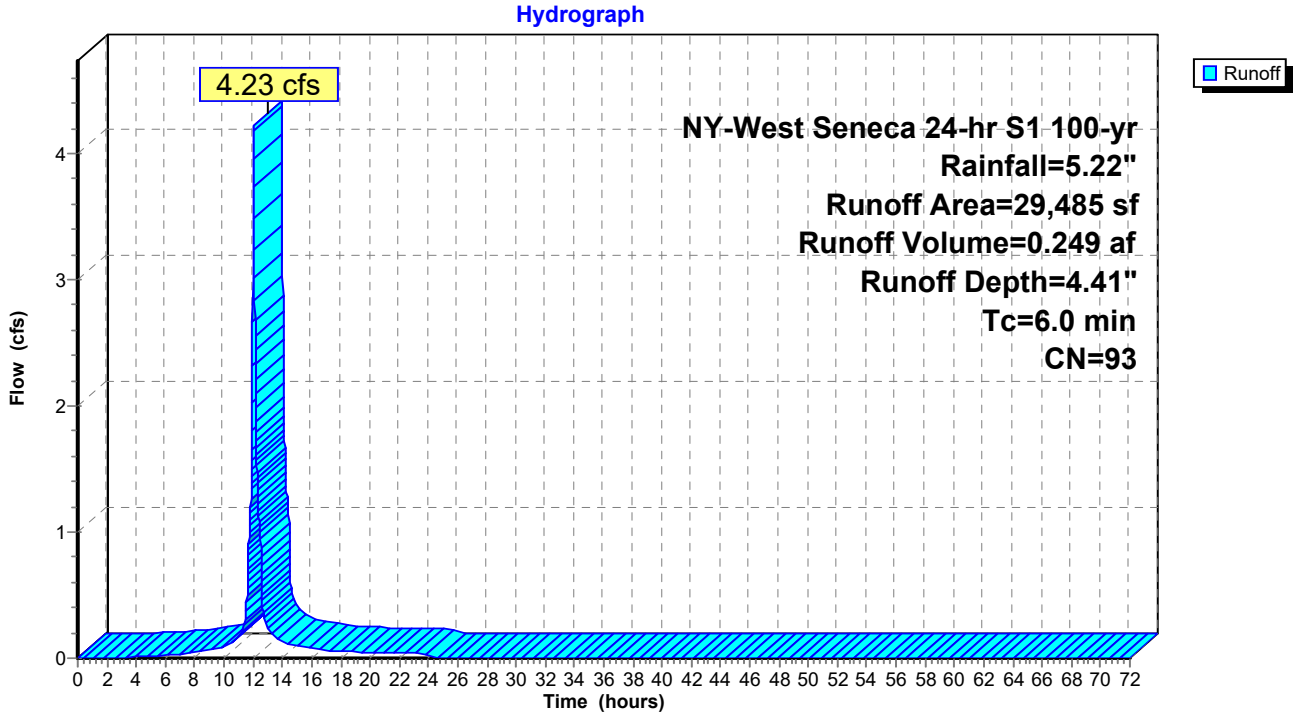
Runoff = 4.23 cfs @ 12.04 hrs, Volume= 0.249 af, Depth= 4.41"
Routed to Pond BIO-3 : Filtration Bioretention

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NY-West Seneca 24-hr S1 100-yr Rainfall=5.22"

Area (sf)	CN	Description
20,928	98	Paved parking, HSG D
8,557	80	>75% Grass cover, Good, HSG D
29,485	93	Weighted Average
8,557		29.02% Pervious Area
20,928		70.98% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					**Direct Entry, Direct**

Subcatchment PS-4:



Summary for Subcatchment PS-5:

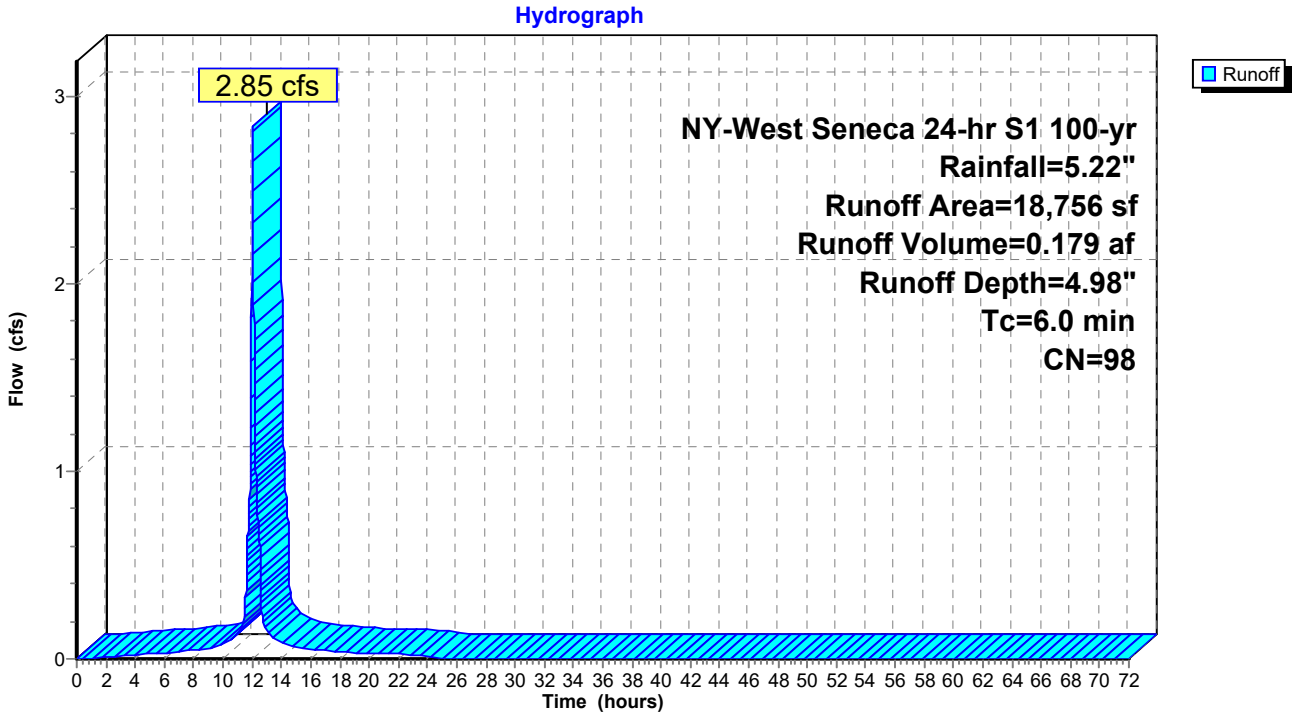
Runoff = 2.85 cfs @ 12.04 hrs, Volume= 0.179 af, Depth= 4.98"
Routed to Pond CH-1 : Chambers

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NY-West Seneca 24-hr S1 100-yr Rainfall=5.22"

Area (sf)	CN	Description
18,756	98	Paved parking, HSG D
18,756		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					**Direct Entry, Direct**

Subcatchment PS-5:



Summary for Subcatchment PS-6:

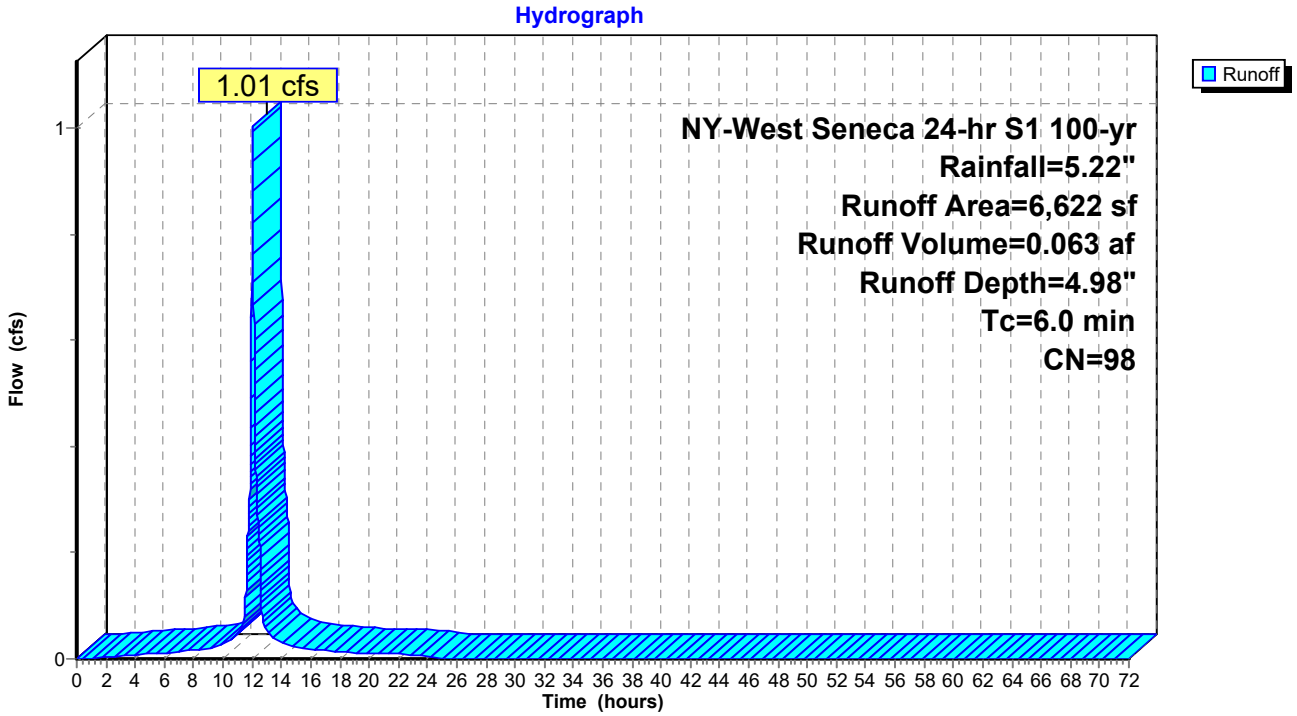
Runoff = 1.01 cfs @ 12.04 hrs, Volume= 0.063 af, Depth= 4.98"
Routed to Reach DP-1 : Design Point

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NY-West Seneca 24-hr S1 100-yr Rainfall=5.22"

Area (sf)	CN	Description
6,622	98	Paved parking, HSG D
6,622		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					**Direct Entry, Direct**

Subcatchment PS-6:



Summary for Subcatchment PS-7:

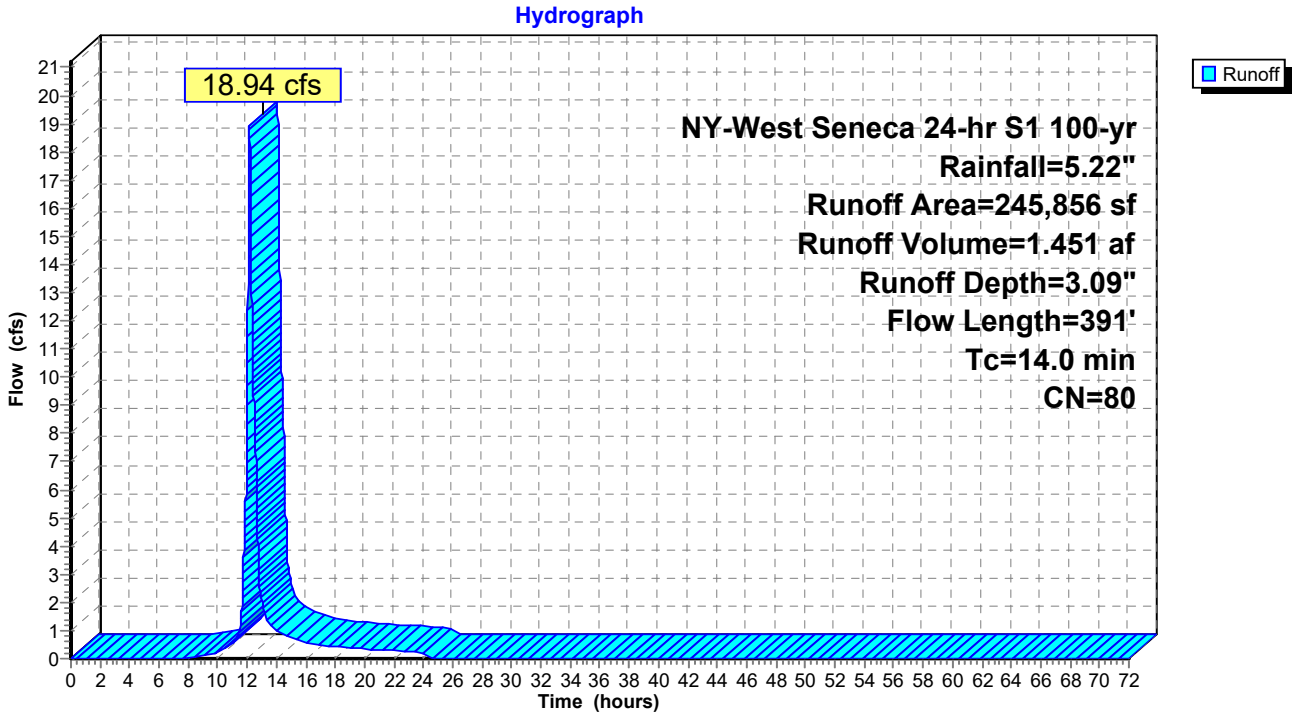
Runoff = 18.94 cfs @ 12.15 hrs, Volume= 1.451 af, Depth= 3.09"
Routed to Reach DP-1 : Design Point

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NY-West Seneca 24-hr S1 100-yr Rainfall=5.22"

Area (sf)	CN	Description
245,856	80	>75% Grass cover, Good, HSG D
245,856		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.5	100	0.0450	0.20		**Sheet Flow,** Grass: Short n= 0.150 P2= 2.20"
5.3	271	0.0148	0.85		**Shallow Concentrated Flow, SCF** Short Grass Pasture Kv= 7.0 fps
0.2	20	0.1500	1.94		**Shallow Concentrated Flow, SCF** Woodland Kv= 5.0 fps
14.0	391	Total			

Subcatchment PS-7:



Summary for Subcatchment PS-8:

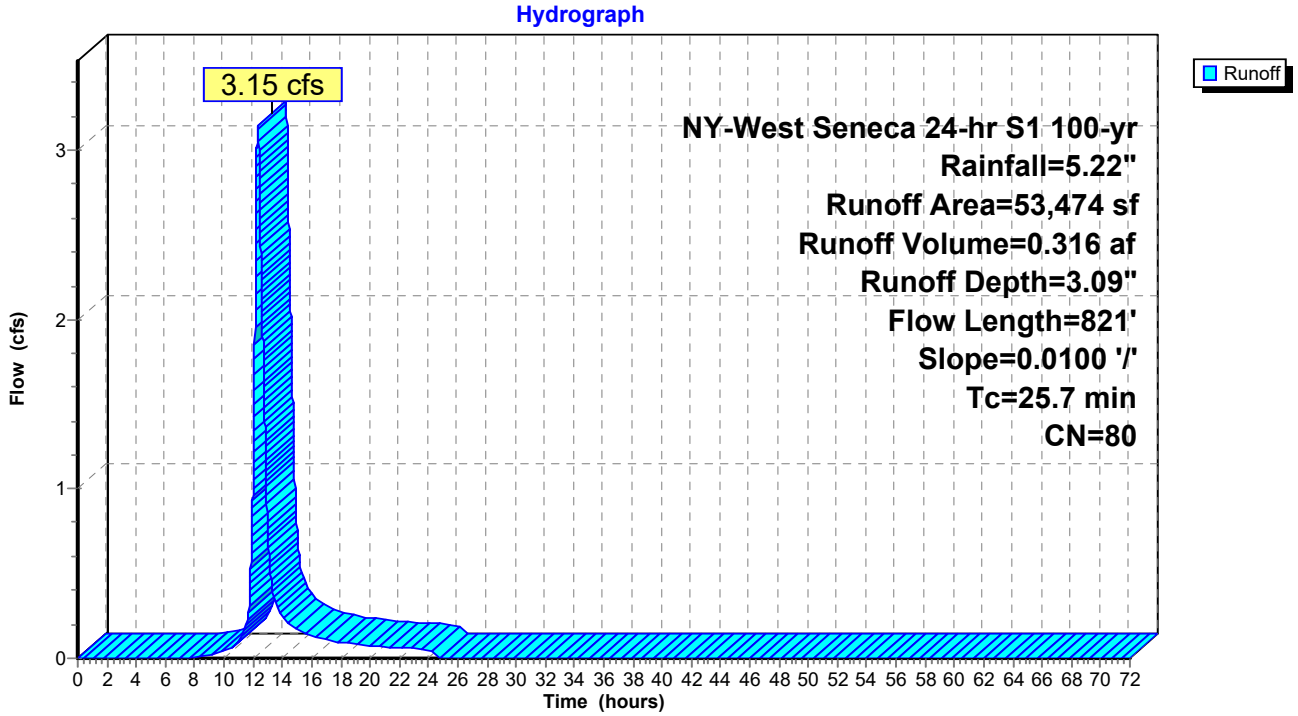
Runoff = 3.15 cfs @ 12.31 hrs, Volume= 0.316 af, Depth= 3.09"
Routed to Reach DP-1 : Design Point

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NY-West Seneca 24-hr S1 100-yr Rainfall=5.22"

Area (sf)	CN	Description
53,474	80	>75% Grass cover, Good, HSG D
53,474		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
15.6	100	0.0100	0.11		**Sheet Flow, SF** Grass: Short n= 0.150 P2= 2.20"
8.8	371	0.0100	0.70		**Shallow Concentrated Flow, SCF** Short Grass Pasture Kv= 7.0 fps
1.3	350	0.0100	4.54	3.56	**Pipe Channel, Pipe Flow** 12.0" Round Area= 0.8 sf Perim= 3.1' r= 0.25' n= 0.013 Corrugated PE, smooth interior
25.7	821	Total			

Subcatchment PS-8:

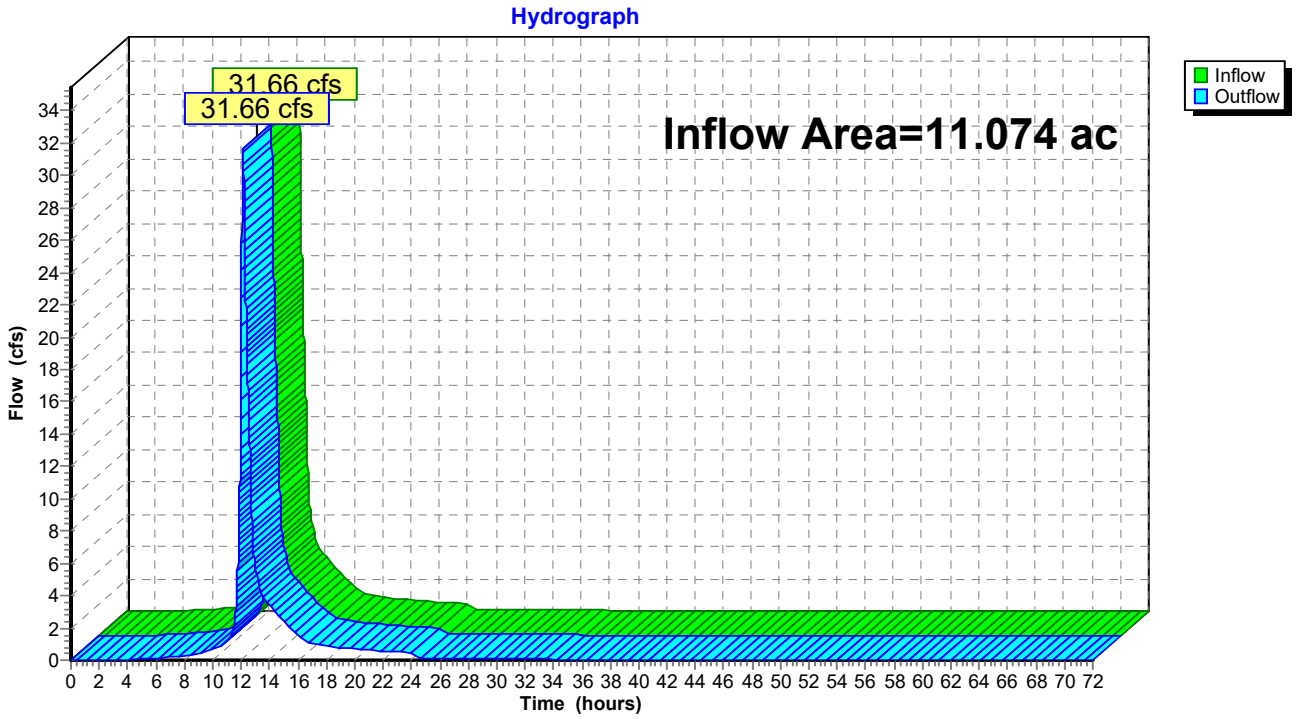


Summary for Reach DP-1: Design Point

Inflow Area = 11.074 ac, 26.79% Impervious, Inflow Depth = 3.58" for 100-yr event
Inflow = 31.66 cfs @ 12.12 hrs, Volume= 3.307 af
Outflow = 31.66 cfs @ 12.12 hrs, Volume= 3.307 af, Atten= 0%, Lag= 0.0 min

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Reach DP-1: Design Point



Summary for Pond BIO-1: Filtration Bioretention

Inflow Area = 0.634 ac, 33.98% Impervious, Inflow Depth = 3.67" for 100-yr event
Inflow = 3.44 cfs @ 12.04 hrs, Volume= 0.194 af
Outflow = 3.21 cfs @ 12.06 hrs, Volume= 0.194 af, Atten= 7%, Lag= 1.5 min
Primary = 0.02 cfs @ 12.06 hrs, Volume= 0.048 af
Routed to Reach DP-1 : Design Point
Secondary = 3.18 cfs @ 12.06 hrs, Volume= 0.146 af
Routed to Reach DP-1 : Design Point
Tertiary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af
Routed to Reach DP-1 : Design Point

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 599.25' @ 12.06 hrs Surf.Area= 1,896 sf Storage= 1,462 cf
Flood Elev= 600.00' Surf.Area= 2,500 sf Storage= 3,120 cf

Plug-Flow detention time= (not calculated: outflow precedes inflow)
Center-of-Mass det. time= 168.5 min (967.4 - 798.9)

Volume	Invert	Avail.Storage	Storage Description
#1	598.00'	3,120 cf	**Above Mulch Surface (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
598.00	340	0	0
599.00	1,700	1,020	1,020
600.00	2,500	2,100	3,120

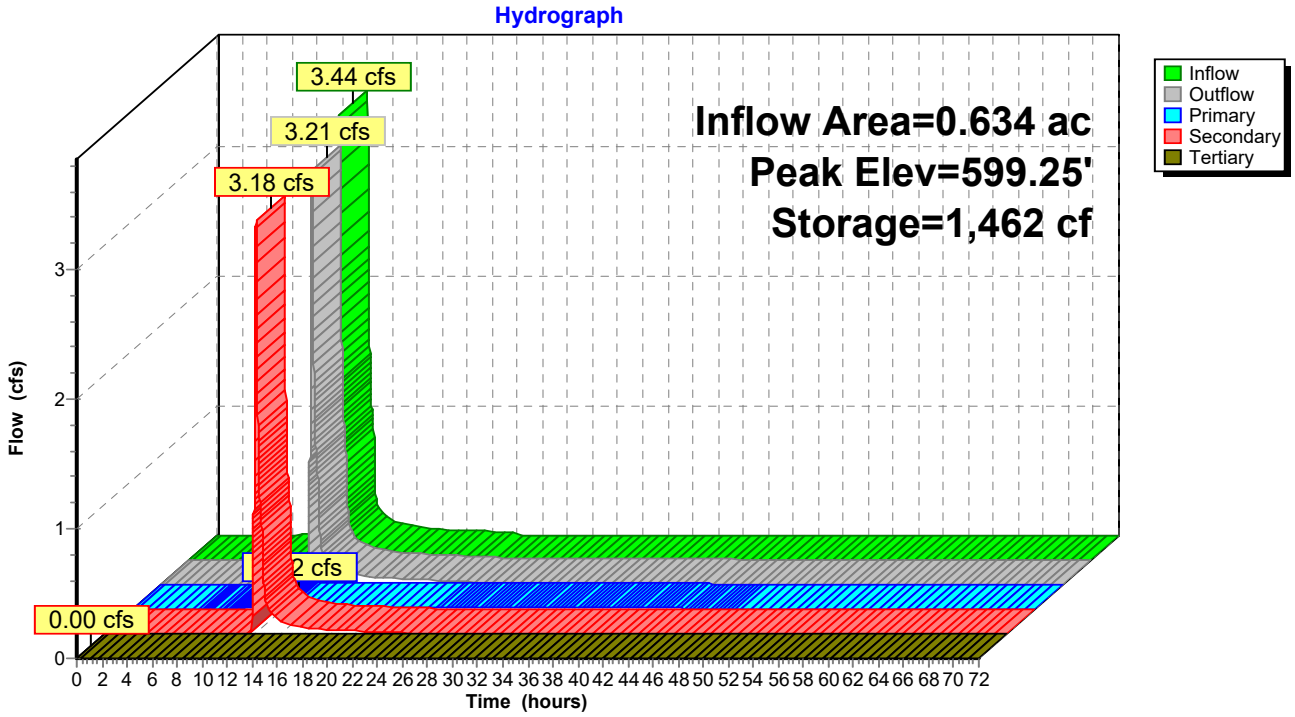
Device	Routing	Invert	Outlet Devices
#1	Primary	598.00'	**0.500 in/hr Exfiltration Through Media over Surface area**
#2	Device 3	599.00'	**24.0" x 24.0" Horiz. Overflow Grate** C= 0.600 Limited to weir flow at low heads
#3	Secondary	594.58'	**12.0" Round Culvert** L= 25.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 594.58' / 594.33' S= 0.0100 '/' Cc= 0.900 n= 0.012 Corrugated PE, smooth interior, Flow Area= 0.79 sf
#4	Tertiary	599.50'	**10.0' long x 3.0' breadth Emergency Overflow Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 Coef. (English) 2.44 2.58 2.68 2.67 2.65 2.64 2.64 2.68 2.68 2.72 2.81 2.92 2.97 3.07 3.32

Primary OutFlow Max=0.02 cfs @ 12.06 hrs HW=599.25' TW=0.00' (Dynamic Tailwater)
└─**1=Exfiltration Through Media** (Exfiltration Controls 0.02 cfs)

Secondary OutFlow Max=3.18 cfs @ 12.06 hrs HW=599.25' TW=0.00' (Dynamic Tailwater)
└─**3=Culvert** (Passes 3.18 cfs of 6.09 cfs potential flow)
└─**2=Overflow Grate** (Weir Controls 3.18 cfs @ 1.62 fps)

Tertiary OutFlow Max=0.00 cfs @ 0.00 hrs HW=598.00' TW=0.00' (Dynamic Tailwater)
└─**4=Emergency Overflow Weir** (Controls 0.00 cfs)

Pond BIO-1: Filtration Bioretention



Summary for Pond BIO-2: Filtration Bioretention

Inflow Area = 0.649 ac, 33.49% Impervious, Inflow Depth = 3.67" for 100-yr event
Inflow = 3.52 cfs @ 12.04 hrs, Volume= 0.199 af
Outflow = 3.26 cfs @ 12.06 hrs, Volume= 0.199 af, Atten= 8%, Lag= 1.6 min
Primary = 0.02 cfs @ 12.06 hrs, Volume= 0.052 af
Routed to Reach DP-1 : Design Point
Secondary = 3.23 cfs @ 12.06 hrs, Volume= 0.147 af
Routed to Reach DP-1 : Design Point
Tertiary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af
Routed to Reach DP-1 : Design Point

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 597.25' @ 12.06 hrs Surf.Area= 2,044 sf Storage= 1,582 cf
Flood Elev= 598.00' Surf.Area= 2,630 sf Storage= 3,339 cf

Plug-Flow detention time= (not calculated: outflow precedes inflow)
Center-of-Mass det. time= 176.3 min (975.2 - 798.9)

Volume	Invert	Avail.Storage	Storage Description
#1	596.00'	3,339 cf	**Above Mulch Surface (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
596.00	348	0	0
597.00	1,850	1,099	1,099
598.00	2,630	2,240	3,339

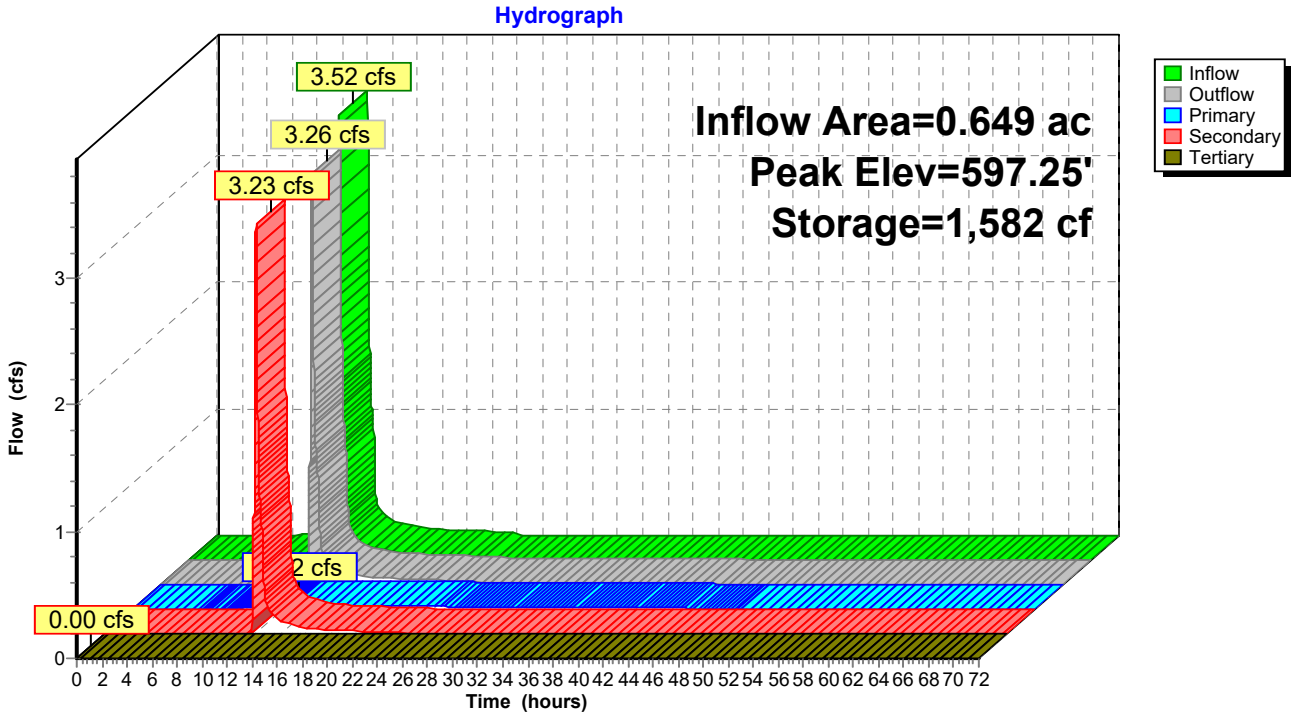
Device	Routing	Invert	Outlet Devices
#1	Primary	596.00'	**0.500 in/hr Exfiltration Through Media over Surface area**
#2	Device 3	597.00'	**24.0" x 24.0" Horiz. Overflow Grate** C= 0.600 Limited to weir flow at low heads
#3	Secondary	592.58'	**12.0" Round Culvert** L= 132.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 592.58' / 591.92' S= 0.0050 '/' Cc= 0.900 n= 0.012 Corrugated PE, smooth interior, Flow Area= 0.79 sf
#4	Tertiary	597.50'	**10.0' long x 3.0' breadth Emergency Overflow Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 Coef. (English) 2.44 2.58 2.68 2.67 2.65 2.64 2.64 2.68 2.68 2.72 2.81 2.92 2.97 3.07 3.32

Primary OutFlow Max=0.02 cfs @ 12.06 hrs HW=597.25' TW=0.00' (Dynamic Tailwater)
└─**1=Exfiltration Through Media** (Exfiltration Controls 0.02 cfs)

Secondary OutFlow Max=3.22 cfs @ 12.06 hrs HW=597.25' TW=0.00' (Dynamic Tailwater)
└─**3=Culvert** (Passes 3.22 cfs of 5.63 cfs potential flow)
└─**2=Overflow Grate** (Weir Controls 3.22 cfs @ 1.63 fps)

Tertiary OutFlow Max=0.00 cfs @ 0.00 hrs HW=596.00' TW=0.00' (Dynamic Tailwater)
└─**4=Emergency Overflow Weir** (Controls 0.00 cfs)

Pond BIO-2: Filtration Bioretention



Summary for Pond BIO-3: Filtration Bioretention

Inflow Area = 0.677 ac, 70.98% Impervious, Inflow Depth = 4.41" for 100-yr event
Inflow = 4.23 cfs @ 12.04 hrs, Volume= 0.249 af
Outflow = 3.61 cfs @ 12.08 hrs, Volume= 0.249 af, Atten= 15%, Lag= 2.3 min
Primary = 0.04 cfs @ 12.08 hrs, Volume= 0.094 af
Routed to Reach DP-1 : Design Point
Secondary = 3.57 cfs @ 12.08 hrs, Volume= 0.155 af
Routed to Reach DP-1 : Design Point
Tertiary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af
Routed to Reach DP-1 : Design Point

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 596.27' @ 12.08 hrs Surf.Area= 3,443 sf Storage= 2,865 cf
Flood Elev= 597.00' Surf.Area= 3,978 sf Storage= 5,592 cf

Plug-Flow detention time= (not calculated: outflow precedes inflow)
Center-of-Mass det. time= 255.7 min (1,030.5 - 774.9)

Volume	Invert	Avail.Storage	Storage Description
#1	595.00'	5,592 cf	**Above Mulch Surface (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
595.00	705	0	0
596.00	3,250	1,978	1,978
597.00	3,978	3,614	5,592

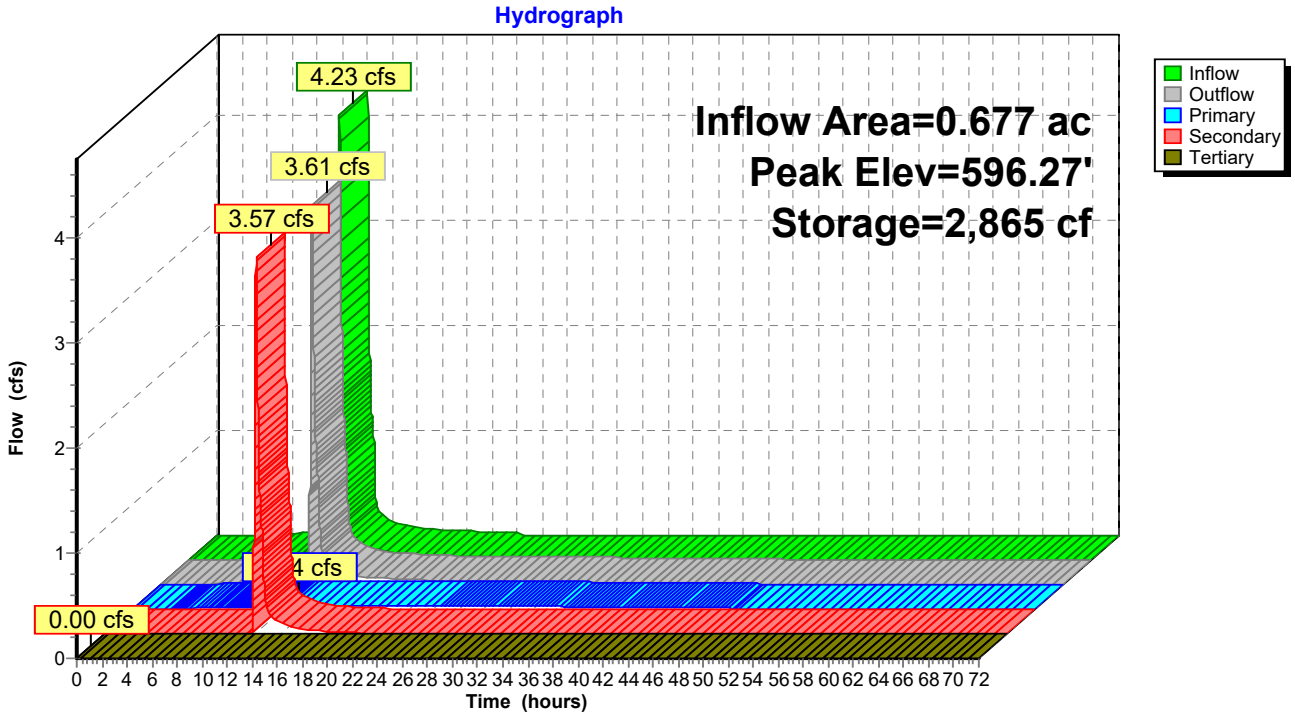
Device	Routing	Invert	Outlet Devices
#1	Primary	595.00'	**0.500 in/hr Exfiltration Through Media over Surface area**
#2	Device 3	596.00'	**24.0" x 24.0" Horiz. Overflow Grate** C= 0.600 Limited to weir flow at low heads
#3	Secondary	591.58'	**12.0" Round Culvert** L= 28.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 591.58' / 591.30' S= 0.0100 '/' Cc= 0.900 n= 0.012 Corrugated PE, smooth interior, Flow Area= 0.79 sf
#4	Tertiary	596.50'	**10.0' long x 3.0' breadth Emergency Overflow Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 Coef. (English) 2.44 2.58 2.68 2.67 2.65 2.64 2.64 2.68 2.68 2.72 2.81 2.92 2.97 3.07 3.32

Primary OutFlow Max=0.04 cfs @ 12.08 hrs HW=596.26' TW=0.00' (Dynamic Tailwater)
└─**1=Exfiltration Through Media** (Exfiltration Controls 0.04 cfs)

Secondary OutFlow Max=3.57 cfs @ 12.08 hrs HW=596.26' TW=0.00' (Dynamic Tailwater)
└─**3=Culvert** (Passes 3.57 cfs of 6.11 cfs potential flow)
└─**2=Overflow Grate** (Weir Controls 3.57 cfs @ 1.68 fps)

Tertiary OutFlow Max=0.00 cfs @ 0.00 hrs HW=595.00' TW=0.00' (Dynamic Tailwater)
└─**4=Emergency Overflow Weir** (Controls 0.00 cfs)

Pond BIO-3: Filtration Bioretention



Summary for Pond CH-1: Chambers

Inflow Area = 2.091 ac, 90.96% Impervious, Inflow Depth = 4.80" for 100-yr event
Inflow = 13.65 cfs @ 12.04 hrs, Volume= 0.836 af
Outflow = 2.40 cfs @ 12.57 hrs, Volume= 0.836 af, Atten= 82%, Lag= 31.8 min
Primary = 2.40 cfs @ 12.57 hrs, Volume= 0.836 af
Routed to Reach DP-1 : Design Point

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 594.85' @ 12.57 hrs Surf.Area= 0.127 ac Storage= 0.322 af
Flood Elev= 598.32' Surf.Area= 0.127 ac Storage= 0.433 af

Plug-Flow detention time= 68.0 min calculated for 0.836 af (100% of inflow)
Center-of-Mass det. time= 68.1 min (825.0 - 757.0)

Volume	Invert	Avail.Storage	Storage Description
#1A	591.25'	0.177 af	**37.08'W x 149.10'L x 5.50'H Field A** 0.698 af Overall - 0.256 af Embedded = 0.442 af x 40.0% Voids
#2A	592.00'	0.256 af	**ADS_StormTech MC-3500 d +Cap**x 100 Inside #1 Effective Size= 70.4"W x 45.0"H => 15.33 sf x 7.17'L = 110.0 cf Overall Size= 77.0"W x 45.0"H x 7.50'L with 0.33' Overlap 100 Chambers in 5 Rows Cap Storage= 14.9 cf x 2 x 5 rows = 149.0 cf
		0.433 af	Total Available Storage

Storage Group A created with Chamber Wizard

Device	Routing	Invert	Outlet Devices
#1	Primary	591.25'	**8.0" Round Culvert** L= 25.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 591.25' / 591.00' S= 0.0100 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.35 sf

Primary OutFlow Max=2.40 cfs @ 12.57 hrs HW=594.85' TW=0.00' (Dynamic Tailwater)
└─**1=Culvert** (Inlet Controls 2.40 cfs @ 6.87 fps)

Pond CH-1: Chambers - Chamber Wizard Field A

Chamber Model = ADS_StormTechMC-3500 d +Cap (ADS StormTech® MC-3500 d rev 03/14 with Cap volume)
Effective Size= 70.4"W x 45.0"H => 15.33 sf x 7.17'L = 110.0 cf
Overall Size= 77.0"W x 45.0"H x 7.50'L with 0.33' Overlap
Cap Storage= 14.9 cf x 2 x 5 rows = 149.0 cf

77.0" Wide + 9.0" Spacing = 86.0" C-C Row Spacing

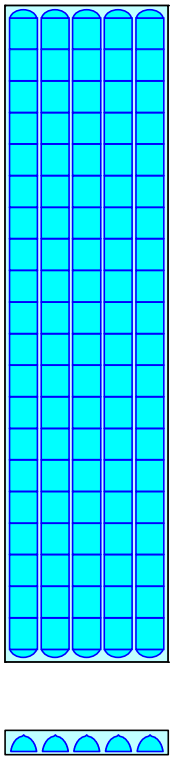
20 Chambers/Row x 7.17' Long +1.85' Cap Length x 2 = 147.10' Row Length +12.0" End Stone x 2 = 149.10' Base Length
5 Rows x 77.0" Wide + 9.0" Spacing x 4 + 12.0" Side Stone x 2 = 37.08' Base Width
9.0" Stone Base + 45.0" Chamber Height + 12.0" Stone Cover = 5.50' Field Height

100 Chambers x 110.0 cf + 14.9 cf Cap Volume x 2 x 5 Rows = 11,144.2 cf Chamber Storage

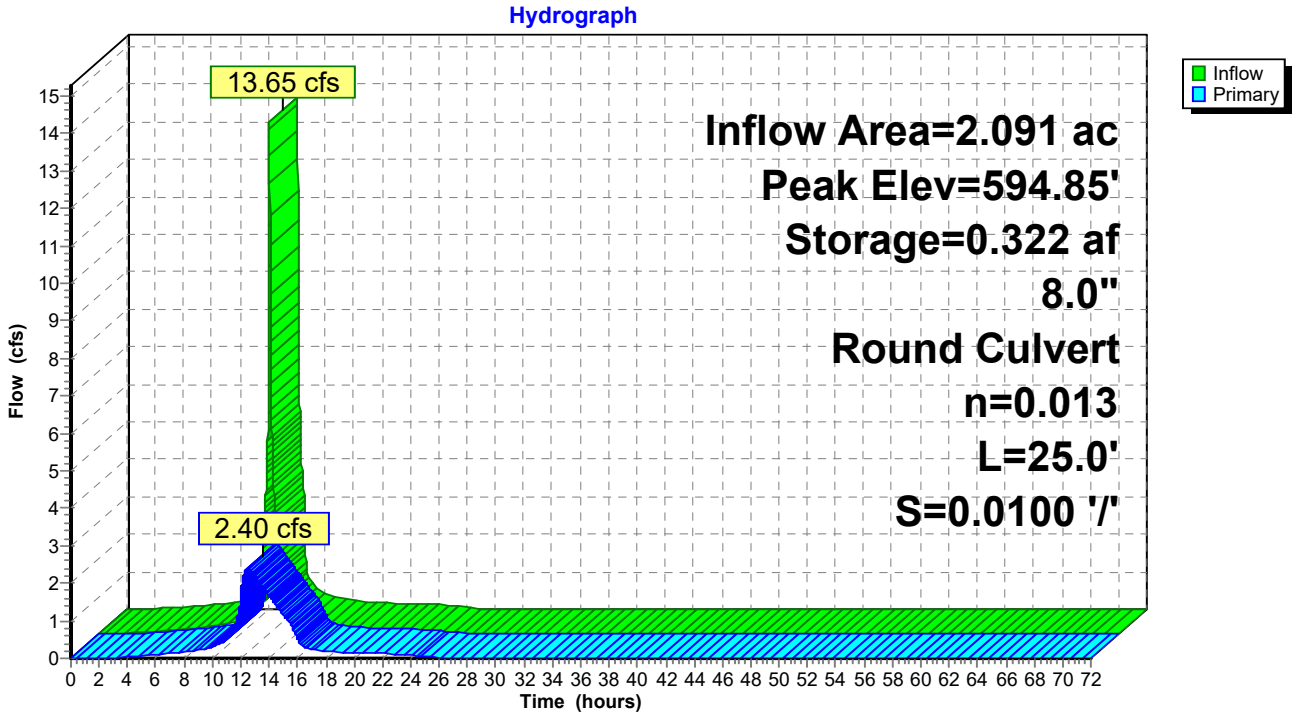
30,410.2 cf Field - 11,144.2 cf Chambers = 19,266.0 cf Stone x 40.0% Voids = 7,706.4 cf Stone Storage

Chamber Storage + Stone Storage = 18,850.6 cf = 0.433 af
Overall Storage Efficiency = 62.0%
Overall System Size = 149.10' x 37.08' x 5.50'

100 Chambers
1,126.3 cy Field
713.6 cy Stone



Pond CH-1: Chambers



Events for Subcatchment PS-1:

Event	Rainfall (inches)	Runoff (cfs)	Volume (acre-feet)	Depth (inches)
1-yr	1.82	0.72	0.038	0.72
10-yr	3.14	1.71	0.094	1.78
100-yr	**5.22**	**3.44**	**0.194**	**3.67**

Events for Subcatchment PS-2:

Event	Rainfall (inches)	Runoff (cfs)	Volume (acre-feet)	Depth (inches)
1-yr	1.82	3.74	0.194	1.40
10-yr	3.14	6.39	0.372	2.69
100-yr	**5.22**	**10.80**	**0.657**	**4.75**

Events for Subcatchment PS-3:

Event	Rainfall (inches)	Runoff (cfs)	Volume (acre-feet)	Depth (inches)
1-yr	1.82	0.74	0.039	0.72
10-yr	3.14	1.75	0.096	1.78
100-yr	**5.22**	**3.52**	**0.199**	**3.67**

Events for Subcatchment PS-4:

Event	Rainfall (inches)	Runoff (cfs)	Volume (acre-feet)	Depth (inches)
1-yr	1.82	1.28	0.065	1.15
10-yr	3.14	2.39	0.135	2.39
100-yr	**5.22**	**4.23**	**0.249**	**4.41**

Events for Subcatchment PS-5:

Event	Rainfall (inches)	Runoff (cfs)	Volume (acre-feet)	Depth (inches)
1-yr	1.82	1.06	0.057	1.60
10-yr	3.14	1.72	0.104	2.91
100-yr	**5.22**	**2.85**	**0.179**	**4.98**

Events for Subcatchment PS-6:

Event	Rainfall (inches)	Runoff (cfs)	Volume (acre-feet)	Depth (inches)
1-yr	1.82	0.37	0.020	1.60
10-yr	3.14	0.61	0.037	2.91
100-yr	**5.22**	**1.01**	**0.063**	**4.98**

Events for Subcatchment PS-7:

Event	Rainfall (inches)	Runoff (cfs)	Volume (acre-feet)	Depth (inches)
1-yr	1.82	2.49	0.215	0.46
10-yr	3.14	8.08	0.638	1.36
100-yr	**5.22**	**18.94**	**1.451**	**3.09**

Events for Subcatchment PS-8:

Event	Rainfall (inches)	Runoff (cfs)	Volume (acre-feet)	Depth (inches)
1-yr	1.82	0.40	0.047	0.46
10-yr	3.14	1.32	0.139	1.36
100-yr	**5.22**	**3.15**	**0.316**	**3.09**

Events for Reach DP-1: Design Point

Event	Inflow (cfs)	Outflow (cfs)	Elevation (feet)	Storage (cubic-feet)
1-yr	4.12	4.12	**0.00**	**0**
10-yr	13.96	13.96	0.00	0
100-yr	**31.66**	**31.66**	0.00	0

Events for Pond BIO-1: Filtration Bioretention

Event	Inflow (cfs)	Outflow (cfs)	Primary (cfs)	Secondary (cfs)	Tertiary (cfs)	Elevation (feet)	Storage (cubic-feet)
1-yr	0.72	0.02	0.02	0.00	**0.00**	598.98	994
10-yr	1.71	1.12	0.02	1.10	0.00	599.12	1,232
100-yr	**3.44**	**3.21**	**0.02**	**3.18**	0.00	**599.25**	**1,462**

Events for Pond BIO-2: Filtration Bioretention

Event	Inflow (cfs)	Outflow (cfs)	Primary (cfs)	Secondary (cfs)	Tertiary (cfs)	Elevation (feet)	Storage (cubic-feet)
1-yr	0.74	0.02	0.02	0.00	**0.00**	596.95	1,010
10-yr	1.75	1.06	0.02	1.04	0.00	597.12	1,319
100-yr	**3.52**	**3.26**	**0.02**	**3.23**	0.00	**597.25**	**1,582**

Events for Pond BIO-3: Filtration Bioretention

Event	Inflow (cfs)	Outflow (cfs)	Primary (cfs)	Secondary (cfs)	Tertiary (cfs)	Elevation (feet)	Storage (cubic-feet)
1-yr	1.28	0.04	0.04	0.00	**0.00**	595.92	1,729
10-yr	2.39	1.07	0.04	1.03	0.00	596.12	2,359
100-yr	**4.23**	**3.61**	**0.04**	**3.57**	0.00	**596.27**	**2,865**

Events for Pond CH-1: Chambers

Event	Inflow (cfs)	Primary (cfs)	Elevation (feet)	Storage (acre-feet)
1-yr	4.80	1.18	592.38	0.079
10-yr	8.11	1.66	593.15	0.161
100-yr	**13.65**	**2.40**	**594.85**	**0.322**

APPENDIX F:
SWPPP INSPECTION REPORT
(SAMPLE FORM)

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Prepared by:
LaBella Associates
Choose an item.
Choose an item.
Choose an item.

SWPPP INSPECTION REPORT NUMBER XX
CLIENT NAME
PROJECT NAME
PROJECT ADDRESS, TOWN OF X, X COUNTY, NY
PERMIT NUMBER

Performed: 2/1/2025 @ 12:00 AM
Report Issued: 2/1/2025

Status: SATISFACTORY (All erosion control measures are installed and in working order)

Qualified Inspector (name and title)	Qualified Professional (name and title)
Click or tap to enter a date.	Click or tap to enter a date.
Date	Date
Signature	Signature

NYSDEC Documentation and SWPPP Forms

The project has received a Letter of Authorization (LOA) from NYSDEC	Choose an item.
The project has received a five acre waiver approved by NYSDEC or MS4	Choose an item.
The project currently has disturbance greater than five acres	Choose an item.
The project directly discharges to a 303d waterbody/course	Choose an item.
The project is within a phosphorus enhanced watershed	Choose an item.
Number of inspections required per week	Choose an item.

Included in Site Log Book

Preconstruction Assessment	Choose an item.
Copy of Notice of Intent (NOI)	Choose an item.
Letter of Authorization (LOA)	Choose an item.
SWPPP Preparer Certification Form	Choose an item.
Owner/Operator Certification Form	Choose an item.
MS4 SWPPP Acceptance Form	Choose an item.
NYCDEP SWPPP Acceptance/Approval Form	Choose an item.
MS4 No Jurisdiction Form	Choose an item.
Contractor and Subcontractor Certifications	Choose an item.
SPDES General Permit	Choose an item.
Five Acre Waiver Authorization	Choose an item.
Notice of Termination (NOT)	Choose an item.

Site Conditions

Total area (acres) with active soil disturbance (not requiring temporary or final stabilization)	
Total area (acres) with inactive soil disturbance (requiring temporary or final stabilization)	
Total area (acres) that has achieved temporary stabilization	
Total area (acres) that has achieved final stabilization	
Allowable disturbed area (acres) per NOI and/or five acre waiver	

Provide a general description of construction activities ongoing during inspection:

Weather Conditions	Choose an item.
Temperature at time of inspection	XX degrees F
Soil conditions at time of inspection	Choose an item.

Description of Discharge Point/Surface Waters of the State	Condition of Runoff	Sediment Discharge Noted	Corrective Action(s)
	Choose an item.	Choose an item.	
	Choose an item.	Choose an item.	
	Choose an item.	Choose an item.	
	Choose an item.	Choose an item.	

Erosion and Sediment Control Deficiencies and Corrective Actions

In the following table, provide marks in the appropriate columns to indicate the conditions of all erosion and sediment control practices at the site.

Erosion & Sediment Control Practice	Not Applicable	Functioning as Designed	Needs Repair or Maintenance	Not Installed Properly
Temporary Erosion & Sediment Control Practices				
General Site Conditions	☐	☐	☐	☐
Stabilized Construction Access	☐	☐	☐	☐
Silt Fence	☐	☐	☐	☐
Inlet Protection Measures	☐	☐	☐	☐
Soil Stockpiles	☐	☐	☐	☐
Dust Control Measures	☐	☐	☐	☐
Pavement Sweeping	☐	☐	☐	☐
Temporary Stabilization	☐	☐	☐	☐
Dewatering Operations	☐	☐	☐	☐
Slope Protection Measures	☐	☐	☐	☐
Temporary Parking Areas	☐	☐	☐	☐
Concrete Washout	☐	☐	☐	☐
Temporary Swales and Berms	☐	☐	☐	☐
Stone Check Dams	☐	☐	☐	☐
Sediment Traps/Basins	☐	☐	☐	☐
Compost Filter Sock	☐	☐	☐	☐
Temporary Stream Crossing	☐	☐	☐	☐
Fiber Roll	☐	☐	☐	☐
Water Bars	☐	☐	☐	☐
Flow Diffusers	☐	☐	☐	☐
Other:	☐	☐	☐	☐
Permanent Erosion & Sediment Control Practices				
Rock Outlet Protection	☐	☐	☐	☐
Permanent Turf Reinforcement	☐	☐	☐	☐
Permanent Stabilization	☐	☐	☐	☐
Other:	☐	☐	☐	☐
Refer to the following page for deficiencies and corrective actions				

Corrective Actions

For all erosion and sediment control practices identified in the above table as “needs repair or maintenance” or “not installed properly,” provide detailed corrective actions that are required.

ESC Practice ID	Deficiency and Corrective Action	Date Deficiency First Reported	Deficiency Corrected?	Date Deficiency Corrected
Choose an item.		Click or	Choose an	Click or tap
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Stormwater Management Practices

For all stormwater management practices proposed on the project, indicate the status of each practice at the time of inspection, any deficiencies (if applicable) and corresponding corrective actions.

SMP Practice ID	Sign Installed	Status	Deficiency and Corrective Action (if Applicable)	Deficiency Date	Corrected Action Date
	Choose an item.	Choose an item.		Click or tap to enter a date.	Click or tap to enter a date.
	Choose an item.	Choose an item.		Click or tap to enter a date.	Click or tap to enter a date.
	Choose an item.	Choose an item.		Click or tap to enter a date.	Click or tap to enter a date.
	Choose an item.	Choose an item.		Click or tap to enter a date.	Click or tap to enter a date.
	Choose an item.	Choose an item.		Click or tap to enter a date.	Click or tap to enter a date.
	Choose an item.	Choose an item.		Click or tap to enter a date.	Click or tap to enter a date.
	Choose an item.	Choose an item.		Click or tap to enter a date.	Click or tap to enter a date.
	Choose an item.	Choose an item.		Click or tap to enter a date.	Click or tap to enter a date.
	Choose an item.	Choose an item.		Click or tap to enter a date.	Click or tap to enter a date.
	Choose an item.	Choose an item.		Click or tap to enter a date.	Click or tap to enter a date.
	Choose an item.	Choose an item.		Click or tap to enter a date.	Click or tap to enter a date.

Deficiencies and Corrective Action Photo Log

Deficiency Photo 1 *ESC/SMP Practice ID:* *Deficiency Date:* Click or tap to enter a date.	***Corrective Action Photo 1*** *ESC/SMP Practice ID:* *Corrective Action Photo Date:* Click or tap to enter a date.
Deficiency Photo 2 *ESC/SMP Practice ID:* *Deficiency Date:* Click or tap to enter a date.	***Corrective Action Photo 2*** *ESC/SMP Practice ID:* *Corrective Action Photo Date:* Click or tap to enter a date.
Deficiency Photo 3 *ESC/SMP Practice ID:* *Deficiency Date:* Click or tap to enter a date.	***Corrective Action Photo 3*** *ESC/SMP Practice ID:* *Corrective Action Photo Date:* Click or tap to enter a date.

Deficiencies and Corrective Action Photo Log (continued)

Deficiency Photo 4 *ESC/SMP Practice ID:* *Deficiency Date:* Click or tap to enter a date.	***Corrective Action Photo 4*** *ESC/SMP Practice ID:* *Corrective Action Photo Date:* Click or tap to enter a date.
Deficiency Photo 5 *ESC/SMP Practice ID:* *Deficiency Date:* Click or tap to enter a date.	***Corrective Action Photo 5*** *ESC/SMP Practice ID:* *Corrective Action Photo Date:* Click or tap to enter a date.
Deficiency Photo 6 *ESC/SMP Practice ID:* *Deficiency Date:* Click or tap to enter a date.	***Corrective Action Photo 6*** *ESC/SMP Practice ID:* *Corrective Action Photo Date:* Click or tap to enter a date.

Disturbance / Photo Location Map

Replace this page to include an 11x17 erosion control plan sketch to scale showing:

1. Areas with active soil disturbance activity
2. Areas with inactive soil disturbance activity
3. Areas that have achieved temporary stabilization
4. Areas that have achieved final stabilization
5. Photo locations for deficiencies
6. Photo locations for corrective actions
7. Location of erosion and sediment control practices installed

Use Bluebeam template with standard colors to indicate limits

APPENDIX G: POST-CONSTRUCTION INSPECTIONS AND MAINTENANCE

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Bioretention Stormwater Management Practices
Level 1 Inspection Checklist

SMP ID #		**SMP Owner**		☐ Private ☐ Public
SMP Location (Address; Latitude & Longitude)				
	Latitude		**Longitude**	

Party Responsible for Maintenance	**System Type**		**Type of Site**
☐ Same as SMP Owner ☐ Other _____	☐ Seasonal ☐ Continuous Use ☐ Other	☐ Above Ground ☐ Below Ground	☐ Commercial ☐ Industrial ☐ Residential ☐ State

Inspection Date		**Inspection Time**	
Inspector			
Date of Last Inspection			

BR Drainage Area

Look for areas that are uphill from the Bioretention cell.

Problem (Check if Present)	**Follow-Up Actions**
 ☐ Bare soil, erosion of the ground (rills washing out the dirt)	☐ Seed and mulch areas of bare soil to establish vegetation. ☐ Fill in erosion areas with soil, compact, and seed and straw to establish vegetation. ☐ If a rill or small channel is forming, try to redirect water flowing to this area by creating a small berm or adding topsoil to areas that are heavily compacted. ☐ Other:

BR Drainage Area

Look for areas that are uphill from the Bioretention cell.

Problem (Check if Present)	Follow-Up Actions
	☐ Kick-Out to Level 2 Inspection: Large areas of soil have been eroded, or larger channels are forming. May require rerouting of flow paths.
☐ Piles of grass clippings, mulch, dirt, salt, or other materials	☐ Remove or cover piles of grass clippings, mulch, dirt, etc. ☐ Other:
☐ Open containers of oil, grease, paint, or other substances	☐ Cover or properly dispose of materials; consult your local solid waste authority for guidance on materials that may be toxic or hazardous. ☐ Other:

BR Inlets

Stand in the Bioretention cell itself and look for all the places where water flows in. Often there will be multiple points of inflow to the practice.

Problem (Check if Present)	Follow-Up Actions
 ☐ Inlets collect grit and debris or grass/weeds. Some water may not be getting into the Bioretention cell. The objective is to have a clear pathway for water to flow into the cell.	☐ Use a flat shovel to remove grit and debris (especially at curb inlets or openings). Parking lots generate fine grit that will accumulate at these spots. ☐ Pull out clumps of growing grass or weeds and scoop out the soil or grit that the plants are growing in. ☐ Remove any grass clippings, leaves, sticks, and other debris that is collecting at inlets. ☐ For pipes and ditches, remove sediment and debris that is partially blocking the pipe or ditch opening where it enters the Bioretention cell. ☐ Dispose of all material properly where it will not re-enter the Bioretention cell. ☐ Other: ☐ Kick-Out to Level 2 Inspection: Inlets are blocked to the extent that most of the water does not seem to be entering the Bioretention cell.
 ☐ Some or all of the inlets are eroding so that rills, gullies, and other erosion is present, or there is bare dirt that is washing into the Bioretention cell.	☐ For small areas of erosion, smooth out the eroded part and apply rock or stone (e.g., river cobble) to prevent further erosion. Usually, filter fabric is placed under the rock or stone. ☐ In some cases, reseeding and applying erosion-control matting can be used to prevent further erosion. Some of these materials may be available at a garden center, but it may be best to consult a landscape contractor. ☐ Other: ☐ Kick-Out to Level 2 Inspection: Erosion is occurring at most of the inlets, and it looks like there is too much water that is concentrating at these points. The inlet design may have to be modified.

BR Ponding Area

Examine the entire Bioretention surface and side slopes

Problem (Check if Present)	Follow-Up Actions
 ☐ Mulch (if used) needs to be replaced or replenished. The mulch layer had decomposed or is less than 1-inch thick.	☐ Add new mulch to a total depth (including any existing mulch that is left) of 2 to 3 inches. The mulch should be shredded hardwood mulch that is less likely to float away during rainstorms. ☐ Avoid adding too much mulch so that inlets are obstructed or certain areas become higher than the rest of the Bioretention surface. ☐ Other:
 ☐ Minor areas of sediment, grit, trash, or other debris are accumulating on the bottom.	☐ Use a shovel to scoop out minor areas of sediment or grit, especially in the spring after winter sanding materials may wash in and accumulate. Dispose of the material where it cannot re-enter the Bioretention cell . ☐ If removing the material creates a hole or low area, fill with soil mix that matches original mix and cover with mulch so that the Bioretention surface area is as flat as possible. ☐ Remove trash, vegetative debris, and other undesirable materials. ☐ Other:
	☐ Kick-Out to Level 2 Inspection: Sediment has accumulated more than 2-inches deep and covers 25% or more of the Bioretention surface. ☐ Kick-Out to Level 2 Inspection: The Bioretention cell is too densely vegetated to assess sediment accumulation or ponding; see BR-4, Vegetation.

BR Ponding Area

Examine the entire Bioretention surface and side slopes

Problem (Check if Present)	Follow-Up Actions
 ☐ There is erosion in the bottom or on the side slopes. Water seems to be carving out rills as it flows across the Bioretention surface or on the slopes, or sinkholes are forming in certain areas. ☐ Source: Stormwater Maintenance, LLC.	☐ Try filling the eroded areas with clean topsoil or sand, and cover with mulch. ☐ If the problem recurs, you may have to use stone (e.g., river cobble) to fill in problem areas. ☐ If the erosion is on a side slope, fill with clay that can be compacted and seed and mulch the area. ☐ Other: ☐ Kick-Out to Level 2 Inspection: The problem persists or the erosion is more than 3-inches deep and seems to be an issue with how water enters and moves through the Bioretention cell. ☐ Kick-Out to Level 2 Inspection: The problem does not seem to be caused by flowing water, but a collapse or sinking of the surface (e.g., “sinkhole”) due to some underground problem.
 ☐ The bottom of the Bioretention cell is not flat, and the water pools at one end, along an edge, or in certain pockets. The whole bottom is not uniformly covered with water. See design plan to verify that bioretention surface is intended to be flat. Check during or immediately after a rainstorm.	☐ If the problem is minor (just small, isolated areas are not covered with water), try raking the surface OR adding mulch to low spots to create a more level surface. You may need to remove and replace plantings in order to properly even off the surface. ☐ Check the surface with a string and bubble level to get the surface as flat as possible. ☐ Other: ☐ Kick-Out to Level 2 Inspection: Ponding water is isolated to less than half of the Bioretention surface area, and there seem to be elevation differences of more than a couple of inches across the surface.

BR Ponding Area

Examine the entire Bioretention surface and side slopes

Problem (Check if Present)	Follow-Up Actions
 ☐ Water stands on the surface more than 72 hours after a rainstorm and /or wetland-type vegetation is present. The Bioretention cell does not appear to be draining properly.	☐ Kick-Out to Level 2 Inspection: This is generally a serious problem, and it will be necessary to activate a Level 2 Inspection.

BR Vegetation

Examine all Bioretention cell vegetation.

Problem (Check if Present)	Follow-Up Actions
 ☐ Vegetation requires regular maintenance—pulling weeds, removing dead and diseased plants, replacing mulch around plants, adding plants to fill in areas that are not well vegetated, etc.	☐ If you can identify which plants are weeds or not intended to be part of the planting plan, eliminate these, preferably by hand pulling. ☐ If weeds are widespread, check with the local stormwater authority and/or Extension Office about proper use of herbicides for areas connected with the flow of water. ☐ Even vegetation that is intended to be present can become large, overgrown, and/or crowd out surrounding plants. Prune and thin accordingly. ☐ If weeds or invasive plants have overtaken the whole Bioretention cell , bush-hog the entire area before seedheads form in the spring. It will be necessary to remove the root mat manually or with appropriate herbicides, as noted above. ☐ Re-plant with species that are aesthetically pleasing and seem to be doing well in the Bioretention cell. ☐ Other: ☐ Kick-Out to Level 2 Inspection: You are unsure of the original planting design, or the vegetation maintenance task is beyond your capabilities of time, expertise, or resources. If you are unsure of the health of the vegetation (e.g. salt damage, invasives, which plants are undesirable) or the appropriate season to conduct vegetation management, consult a landscape professional before undertaking any cutting, pruning, mowing, or brush hogging.

BR Vegetation

Examine all Bioretention cell vegetation.

Problem (Check if Present)	Follow-Up Actions
 ☐ Vegetation is too thin, is not healthy, and there are many spots that are not well vegetated.	☐ The original plants are likely not suited for the actual conditions within the Bioretention cell . If you are knowledgeable about plants, select and plant more appropriate vegetation (preferably native plants) so that almost the entire surface area will be covered by the end of the second growing season. ☐ Other:
	☐ Kick-Out to Level 2 Inspection: For all but small practices (e.g., rain gardens), this task will likely require a landscape design professional or horticulturalist.

BR Outlets

Examine outlets that release water out of the Bioretention cell.

Problem (Check if Present)	Follow-Up Actions
☐ Erosion at outlet	☐ Add stone to reduce the impact from the water flowing out of the outlet pipe or weir during storms. ☐ Other:
	☐ Kick-Out to Level 2 Inspection: Rills have formed and erosion problem becomes more severe.
 ☐ Outlet obstructed with mulch, sediment, debris, trash, etc.	☐ Remove the debris and dispose of it where it cannot re-enter the Bioretention cell . ☐ Other:
	☐ Kick-Out to Level 2 Inspection: Outlet is completely clogged or obstructed; there is too much material to remove by hand or with simple hand tools.

Additional Notes:

Inspector:_____ Date: _____

Complete the following if follow-up/corrective actions were identified during this inspection:

Certified Completion of Follow-Up Actions:

"I hereby certify that the follow-up/corrective actions identified in the inspection performed on _____ (DATE) have been completed and any required maintenance deficiencies have been adequately corrected."

Inspector/Operator: _____ Date: _____

Bioretention Stormwater Management Practices
Level 2 Inspection Checklist

SMP ID #		**SMP Owner**		☐ Private ☐ Public
SMP Location (Address; Latitude & Longitude)				
	Latitude		**Longitude**	

Party Responsible for Maintenance	**System Type**		**Type of Site**
☐ Same as SMP Owner ☐ Other _____	☐ Seasonal ☐ Continuous Use ☐ Other	☐ Above Ground ☐ Below Ground	☐ Commercial ☐ Industrial ☐ Residential ☐ State

Inspection Date		**Inspection Time**	
Inspector			
Date of Last Inspection			

Level 2 Inspection: BIORETENTION
NOTE: Key Source for this Information *(CSN, 2013)*

Recommended Repairs	Triggers for Level 3 Inspection
Observed Condition: Water Stands on Surface for More than 72 Hours after Storm	
☐ Condition 1: Small pockets of standing water Use a soil probe or auger to examine the soil profile. If isolated areas have accumulated grit, fines, or vegetative debris or have bad soil media, try scraping off top 3 inches of media and replacing with clean material. Also check to see that surface is level and water is not ponding selectively in certain areas. ☐ Condition 2: Standing water is widespread or covers entire surface Requires diagnosis and resolution of problem: • Clogged underdrain? • Filter fabric between soil media and underdrain stone? • Need to install underdrain if not present? • Too much sediment/grit washing in from drainage area? • Too much ponding depth? • Improper soil media?	• Soil media is clogged and problem is not evident from Level 2 inspection. • Level 2 inspection identifies problem, but it cannot be resolved easily or is associated with the original design of the practice. ☐ Level 3 inspection necessary
Observed Condition: Vegetation is sparse or out of control	
☐ Condition 1: Original design planting plan seems good but has not been maintained, so there are many invasives and/or dead plants Will require some horticultural experience to restore vegetation to intended condition by weeding, pruning, removing plants, and adding new plants. ☐ Condition 2: Original design planting plan is unknown or cannot be actualized A landscape architect or horticulturalist will be needed to redo the planting plan. Will likely require analysis of soil pH, moisture, organic content, sun/shade, and other conditions to make sure plants match conditions. Plan should include invasive plant management and maintenance plan to include mulching, watering, disease intervention, periodic thinning/pruning, etc.	• Vegetation deviates significantly from original planting plan; Bioretention has been neglected and suffered from deferred maintenance. • Owner/responsible party does not know how to maintain the practice. ☐ Level 3 inspection necessary
Observed Condition: Bioretention does not conform to original design plan in surface area or storage	
☐ Condition 1: Level 2 Inspection reveals that practice is too small based on design dimension, does not have adequate storage (e.g., ponding depth) based on the plan, and/or does not treat the drainage area runoff as indicated on the plan Small areas of deviation can be corrected by the property owner or responsible party, but it is likely that a Qualified Professional will have to revisit the design and attempt a redesign that meets original objectives or that can be resubmitted to the municipality for approval.	• More than a 25% departure from the approved plan in surface area, storage, or drainage area; sometimes less than this threshold at the discretion of the Level 2 inspector. ☐ Level 3 inspection necessary

Level 2 Inspection: BIORETENTION NOTE: Key Source for this Information *(CSN, 2013)*	
Recommended Repairs	**Triggers for Level 3 Inspection**
Observed Condition: Severe erosion of filter bed, inlets, or around outlets	
☐ Condition 1: Erosion at inlets The lining (e.g., grass, matting, stone, rock) may not be adequate for the actual flow velocities coming through the inlets. First line of defense is to try a more non-erosive lining and/or to extend the lining further down to where inlet slopes meet the Bioretention surface. If problem persists, analysis by a Qualified Professional is warranted. ☐ Condition 2: Erosion of Bioretention filter bed This is often caused by "preferential flow paths" through and along the Bioretention surface. The source of flow should be analyzed and methods employed to dissipate energy and disperse the flow (e.g., check dams, rock splash pads). ☐ Condition 3: Erosion on side slopes Again, the issue is likely linked with unanticipated flow paths down the side slopes (probably overland flow that concentrates as it hits the edge of the slope). For small or isolated areas, try filling, compacting, and re-establishing healthy ground cover vegetation. If the problem is more widespread, further analysis is required to determine how to redirect the flow.	• Erosion (rills, gullies) is more than 12 inches deep at inlets or the filter bed or more than 3 inches deep on side slopes. • If the issue is not caused by moving water but some sort of subsurface defect. This may manifest as a sinkhole or linear depression and be associated with problems with the underdrain stone or pipe or underlying soil. ☐ Level 3 inspection necessary
Observed Condition: Significant sediment accumulation, indicating an uncontrolled source of sediment	
☐ Condition 1: Isolated areas of sediment accumulation, generally less than 3-inches deep Sediment source may be from a one-time or isolated event. Remove accumulated sediment and top 2 to 3 inches of Bioretention soil media; replace with clean material. Check drainage area for any ongoing sources of sediment. ☐ Condition 2: Majority of the surface is caked with "hard pan" (thin layer of clogging material) or accumulated sediment that is 3-inches deep or more This can be caused by an improper construction sequence (drainage area not fully stabilized prior to installation of Bioretention soil media) or another chronic source of sediment in the drainage area. Augering several holes down through the media can indicate how severe the problem is; often the damage is confined to the first several inches of soil media. Removing and replacing this top layer (or to the depth where sediment incursion is seen in auger holes) can be adequate, as long as the problem does not recur.	• More than 2 inches of accumulated sediment cover 25% or more of the Bioretention surface area. • "Hard pan" of thin, crusty layer covers majority of Bioretention surface area and seems to be impeding flow of water down through the soil media. • New sources of sediment seem to be accumulating with each significant rainfall event. ☐ Level 3 inspection necessary

Notes:

Inspector:_____ Date: _____

Complete the following if follow-up/corrective actions were identified during this inspection:

Certified Completion of Follow-Up Actions:

"I hereby certify that the follow-up/corrective actions identified in the inspection performed on _____ (DATE) have been completed and any required maintenance deficiencies have been adequately corrected."

Inspector/Operator: _____ Date: _____

APPENDIX E: NYSDEC "DEEP-RIPPING AND DECOMPACTION," APRIL 2008

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New York State
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Water

Deep-Ripping and Decompaction

April 2008

Document Prepared by:

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NYS Dept. of Agriculture & Markets)

New York State
Department of Environmental Conservation

Alternative Stormwater Management
Deep-Ripping and Decompaction

Description

The two-phase practice of 1) "Deep Ripping;" and 2) "Decompaction" (deep subsoiling), of the soil material as a step in the cleanup and restoration/landscaping of a construction site, helps mitigate the physically induced impacts of soil compression; i.e.: soil compaction or the substantial increase in the bulk density of the soil material.

Deep Ripping and Decompaction are key factors which help in restoring soil pore space and permeability for water infiltration. Conversely, the physical actions of cut-and-fill work, land grading, the ongoing movement of construction equipment and the transport of building materials throughout a site alter the architecture and structure of the soil, resulting in: the mixing of layers (horizons) of soil materials, compression of those materials and diminished soil porosity which, if left unchecked, severely impairs the soil's water holding capacity and vertical drainage (rainfall infiltration), from the surface downward.

In a humid climate region, compaction damage on a site is virtually guaranteed over the duration of a project. Soil in very moist to wet condition when compacted, will have severely reduced permeability. Figure 1 displays the early stage of the deep-ripping phase (Note that all topsoil was stripped prior to construction access, and it remains stockpiled until the next phase – decompaction – is complete). A heavy-duty tractor is pulling a three-shank ripper on the first of several series of incrementally deepening passes through the construction access corridor's densely compressed subsoil material. Figure 2 illustrates the approximate volumetric composition of a loam surface soil when conditions are good for plant growth, with adequate natural pore space for fluctuating moisture conditions.

Fig. 1. A typical deep ripping phase of this practice, during the first in a series of progressively deeper "rips" through severely compressed subsoil.

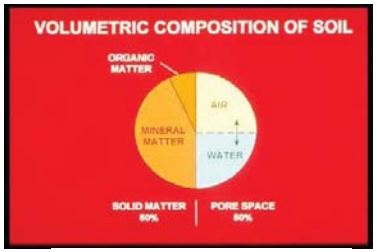

Fig. 2. About 50% of the volume of undisturbed loam surface soil is pore space, when soil is in good condition for plant growth. Brady, 2002.

Recommended Application of Practice

The objective of Deep Ripping and Decompaction is to effectively fracture (vertically and lateralllly) through the thickness of the physically compressed subsoil material (see Figure 3), restoring soil porosity and permeability and aiding infiltration to help reduce runoff. Together with topsoil stripping, the "two-phase" practice of Deep Ripping and Decompaction first became established as a "best management practice" through ongoing success on commercial farmlands affected by heavy utility construction right-of-way projects (transmission pipelines and large power lines).

Fig. 3. Construction site with significant compaction of the deep basal till subsoil extends 24 inches below this exposed cut-and-fill work surface.

Soil permeability, soil drainage and cropland productivity were restored. For broader construction application, the two-phase practice of Deep Ripping and Decompaction is best adapted to areas impacted with significant soil compaction, on contiguous open portions of large construction sites and inside long, open construction corridors used as temporary access over the duration of construction. Each mitigation area should have minimal above-and-below-ground obstructions for the easy avoidance and maneuvering of a large tractor and ripping/decompacting implements. Conversely, the complete two-phase practice is not recommended in congested or obstructed areas due to the limitations on tractor and implement movement.

Benefits

Aggressive "deep ripping" through the compressed thickness of exposed subsoil before the replacement/respreading of the topsoil layer, followed by "decompaction," i.e.: "sub-soiling," through the restored topsoil layer down into the subsoil, offers the following benefits:

- Increases the project (larger size) area's direct surface infiltration of rainfall by providing the open site's mitigated soil condition and lowers the demand on concentrated runoff control structures
- Enhances direct groundwater recharge through greater dispersion across and through a broader surface than afforded by some runoff-control structural measures
- Decreases runoff volume generated and provides hydrologic source control
- May be planned for application in feasible open locations either alone or in

conjunction with plans for structural practices (e.g., subsurface drain line or infiltration basin) serving the same or contiguous areas

- Promotes successful long-term revegetation by restoring soil permeability, drainage and water holding capacity for healthy (rather than restricted) root-system development of trees, shrubs and deep rooted ground cover, minimizing plant drowning during wet periods and burnout during dry periods.

Feasibility/Limitations

The effectiveness of Deep Ripping and Decompaction is governed mostly by site factors such as: the original (undisturbed) soil's hydrologic characteristics; the general slope; local weather/timing (soil moisture) for implementation; the space-related freedom of equipment/implement maneuverability (noted above in **Recommended Application of Practice**), and by the proper selection and operation of tractor and implements (explained below in **Design Guidance**). The more notable site-related factors include:

Soil

In the undisturbed condition, each identified soil type comprising a site is grouped into one of four categories of soil hydrology, Hydrologic Soil Group A, B, C or D, determined primarily by a range of characteristics including soil texture, drainage capability when thoroughly wet, and depth to water table. The natural rates of infiltration and transmission of soil-water through the undisturbed soil layers for Group A is "high" with a low runoff potential while soils in Group B are moderate in infiltration and the transmission of soil-water with a moderate runoff potential, depending somewhat on slope. Soils in Group C have slow rates of infiltration and transmission of soil-water and a moderately high runoff potential influenced by soil texture and slope; while soils in Group D have exceptionally slow rates of infiltration and transmission of soil-water, and high runoff potential.

In Figure 4, the profile displays the undisturbed horizons of a soil in Hydrologic Soil Group C and the naturally slow rate of infiltration through the subsoil. The slow rate of infiltration begins immediately below the topsoil horizon (30 cm), due to the limited amount of macro pores, e.g.: natural subsoil fractures, worm holes and root channels. Infiltration after the construction-induced mixing and compression of such subsoil material is virtually absent; but can be restored back to this natural level with the two-phase practice of deep ripping and decompaction, followed by the permanent establishment of an appropriate, deep taproot

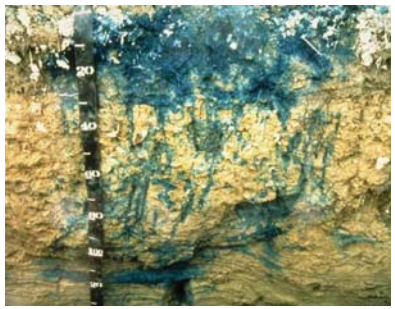

Fig. 4. Profile (in centimeters) displaying the infiltration test result of the natural undisturbed horizons of a soil in Hydrologic Soil Group C.

lawn/ground cover to help maintain the restored subsoil structure. Infiltration after construction-induced mixing and compression of such subsoil material can be notably rehabilitated with the Deep Ripping and Decompaction practice, which prepares the site for the appropriate long-term lawn/ground cover mix including deep taproot plants such as clover, fescue or trefoil, etc. needed for all rehabilitated soils.

Generally, soils in Hydrologic Soil Groups A and B, which respectively may include deep, well-drained, sandy-gravelly materials or deep, moderately well-drained basal till materials, are among the easier ones to restore permeability and infiltration, by deep ripping and decompaction. Among the many different soils in Hydrologic Soil Group C are those unique glacial tills having a natural fragipan zone, beginning about 12 to 18 inches (30 – 45cm), below surface. Although soils in Hydrologic Soil Group C do require a somewhat more carefully applied level of the Deep Ripping and Decompaction practice, it can greatly benefit such affected areas by reducing the runoff and fostering infiltration to a level equal to that of pre-disturbance.

Soils in Hydrologic Soil Group D typically have a permanent high water table close to the surface, influenced by a clay or other highly impervious layer of material. In many locations with clay subsoil material, the bulk density is so naturally high that heavy trafficking has little or no added impact on infiltration; and structural runoff control practices rather than Deep Ripping and Decompaction should be considered.

The information about Hydrologic Soil Groups is merely a general guideline. Site-specific data such as limited depths of cut-and-fill grading with minimal removal or translocation of the inherent subsoil materials (as analyzed in the county soil survey) or, conversely, the excavation and translocation of deeper, unconsolidated substratum or consolidated bedrock materials (unlike the analyzed subsoil horizons' materials referred to in the county soil survey) should always be taken into account.

Sites made up with significant quantities of large rocks, or having a very shallow depth to bedrock, are not conducive to deep ripping and decompation (subsoiling); and other measures may be more practical.

Slope

The two-phase application of 1) deep ripping and 2) decompaction (deep subsoiling), is most practical on flat, gentle and moderate slopes. In some situations, such as but not limited to temporary construction access corridors, inclusion areas that are moderately steep along a project's otherwise gentle or moderate slope may also be deep ripped and decompacted. For limited instances of moderate steepness on other projects, however, the post-construction land use and the relative alignment of the potential ripping and decompaction work in relation to the lay of the slope should be reviewed for safety and practicality. In broad construction areas predominated by moderately steep or steep slopes, the practice is generally not used.

Local Weather/Timing/Soil Moisture

Effective fracturing of compressed subsoil material from the exposed work surface, laterally and vertically down through the affected zone is achieved only when the soil material is moderately dry to moderately moist. Neither one of the two-phases, deep ripping nor decompaction (deep

subsoiling), can be effectively conducted when the soil material (subsoil or replaced topsoil) is in either a "plastic" or "liquid" state of soil consistency. Pulling the respective implements legs through the soil when it is overly moist only results in the "slicing and smearing" of the material or added "squeezing and compression" instead of the necessary fracturing. Ample drying time is needed for a "rippable" soil condition not merely in the material close to the surface, but throughout the material located down to the bottom of the physically compressed zone of the subsoil.

The "poor man's Atterberg field test" for soil plasticity is a simple "hand-roll" method used for quick, on-site determination of whether or not the moisture level of the affected soil material is low enough for: effective deep ripping of subsoil; respreading of topsoil in a friable state; and final decompaction (deep subsoiling). Using a sample of soil material obtained from the planned bottom depth of ripping, e.g.: 20 - 24 inches below exposed subsoil surface, the sample is hand rolled between the palms down to a 1/8-inch diameter thread. (Use the same test for stored topsoil material before respreading on the site.) If the respective soil sample crumbles apart in segments no greater than 3/8 of an inch long, by the time it is rolled down to 1/8 inch diameter, it is low enough in moisture for deep ripping (or topsoil replacement), and decompaction. Conversely, as shown in Figure 5, if the rolled sample stretches out in increments greater than 3/8 of an inch long before crumbling, it is in a "plastic" state of soil consistency and is too wet for subsoil ripping (as well as topsoil replacement) and final decompaction.

Fig. 5. Augered from a depth of 19 inches below the surface of the replaced topsoil, this subsoil sample was hand rolled to a 1/8-inch diameter. The test shows the soil at this site stretches out too far without crumbling; it indicates the material is in a plastic state of consistence, too wet for final decompaction (deep subsoiling) at this time.

Design Guidance

Beyond the above-noted site factors, a vital requirement for the effective Deep Ripping and Decompaction (deep subsoiling), is implementing the practice in its distinct, two-phase process:

1) Deep rip the affected thickness of exposed subsoil material (see Figure 10 and 11), aggressively fracturing it before the protected topsoil is reapplied on the site (see Figure 12); and

2) Decompact (deep subsoil), simultaneously through the restored topsoil layer and the upper half of the affected subsoil (Figure 13). The second phase, "decompaction," mitigates the partial recompaction which occurs during the heavy process of topsoil spreading/grading. Prior to deep ripping and decompacting the site, all construction activity, including construction equipment and material storage, site cleanup and trafficking (Figure 14), should be finished; and the site closed off to further disturbance. Likewise, once the practice is underway and the area's soil permeability and

rainfall infiltration are being restored, a policy limiting all further traffic to permanent travel lanes is maintained.

The other critical elements, outlined below, are: using the proper implements (deep, heavy-duty rippers and subsoilers), and ample pulling-power equipment (tractors); and conducting the practice at the appropriate speed, depth and pattern(s) of movement.

Note that an appropriate plan for the separate practice of establishing a healthy perennial ground cover, with deep rooting to help maintain the restored soil structure, should be developed in advance. This may require the assistance of an agronomist or landscape horticulturist.

Implements

Avoid the use of all undersize implements. The small-to-medium, light-duty tool will, at best, only "scarify" the uppermost surface portion of the mass of compacted subsoil material. The term "chisel plow" is commonly but incorrectly applied to a broad range of implements. While a few may be adapted for the moderate subsoiling of non-impacted soils, the majority are less durable and used for only lighter land-fitting (see Figure 6).

Fig. 6. A light duty chisel implement, not adequate for either the deep ripping or decompaction (deep subsoiling) phase.

Fig. 7. One of several variations of an agricultural ripper. This unit has long, rugged shanks mounted on a steel V-frame for deep, aggressive fracturing through Phase 1.

Use a "heavy duty" agricultural-grade, deep ripper (see Figures 7,9,10 and 11) for the first phase: the lateral and vertical fracturing of the mass of exposed and compressed subsoil, down and through, to the bottom of impact, prior to the replacement of the topsoil layer. (Any oversize rocks which are uplifted to the subsoil surface during the deep ripping phase are picked and removed.) Like the heavy-duty class of implement for the first phase, the decompaction (deep subsoiling) of Phase 2 is conducted with the heavy-duty version of the deep subsoiler. More preferable is the angled-leg variety of deep subsoiler (shown in Figures 8 and 13). It minimizes the inversion of the subsoil and topsoil layers while laterally and vertically fracturing the upper half of the previously ripped subsoil layer and all of the topsoil layer by delivering a momentary, wave-like "lifting and shattering" action up through the soil layers as it is pulled.

Pulling-Power of Equipment
Use the following rule of thumb for tractor horsepower (hp) whenever deep ripping and decompacting a significantly impacted site: For both types of implement, have at least 40 hp of tractor pull available for each mounted shank/ leg.

Using the examples of a 3-shank and a 5-shank implement, the respective tractors should have 120 and 200 hp available for fracturing down to the final depth of 20-to-24 inches per phase. Final depth for the deep ripping in Phase 1 is achieved incrementally by a progressive series of passes (see Depth and Patterns of Movement, below); while for Phase 2, the full operating depth of the deep subsoiler is applied from the beginning.

The operating speed for pulling both types of implement should not exceed 2 to 3 mph. At this slow and managed rate of operating speed, maximum functional performance is sustained by the tractor and the implement performing the soil fracturing. Referring to Figure 8, the implement is the 6-leg version of the deep angled-leg subsoiler. Its two outside legs are "chained up" so that only four legs will be engaged (at the maximum depth), requiring no less than 160 hp, (rather than 240 hp) of pull. The 4-wheel drive, articulated-frame tractor in Figure 8 is 174 hp. It will be decompacting this unobstructed, former construction access area simultaneously through 11 inches of replaced topsoil and the upper 12 inches of the previously deep-ripped subsoil. In constricted areas of Phase 1) Deep Ripping, a medium-size tractor with adequate hp, such as the one in Figure 9 pulling a 3-shank deep ripper, may be more maneuverable.

Fig. 8. A deep, angled-leg subsoiler, ideal for Phase 2 decompaction of after the topsoil layer is graded on top of the ripped subsoil.

Fig. 9. This medium tractor is pulling a 3-shank deep ripper. The severely compacted construction access corridor is narrow, and the 120 hp tractor is more maneuverable for Phase 1 deep ripping (subsoil fracturing), here.

Some industrial-grade variations of ripping implements are attached to power graders and bulldozers. Although highly durable, they are generally not recommended. Typically, the shanks or "teeth" of these rippers are too short and stout; and they are mounted too far apart to achieve the well-distributed type of lateral and vertical fracturing of the soil materials necessary to restore soil permeability and infiltration. In addition, the power graders and bulldozers, as pullers, are far less maneuverable for turns and patterns than the tractor.

Depth and Patterns of Movement
As previously noted both Phase 1 Deep Ripping through significantly compressed, exposed subsoil and Phase 2 Decompaction (deep subsoiling) through the replaced topsoil and upper subsoil need to be performed at maximum capable depth of each implement. With an implement's guide wheels attached, some have a "normal" maximum operating depth of 18 inches, while others may go deeper. In many situations, however, the tractor/implement operator must first remove the guide wheels and other non essential elements from the implement. This adapts the ripper or the deep subsoiler for skillful pulling with its frame only a few inches above surface, while the shanks or legs, fracture the soil material 20-to-24 inches deep.

There may be construction sites where the depth of the exposed subsoil's compression is moderate, e.g.: 12 inches, rather than deep. This can be verified by using a ¾ inch cone penetrometer and a shovel to test the subsoil for its level of compaction, incrementally, every three inches of increasing depth. Once the full thickness of the subsoil's compacted zone is finally "pieced" and there is a significant drop in the psi measurements of the soil penetrometer, the depth/thickness of compaction is determined. This is repeated at several representative locations of the construction site. If the thickness of the site's subsoil compaction is verified as, for example, ten inches, then the Phase 1 Deep Ripping can be correspondingly reduced to the implement's minimum operable depth of 12 inches. However, the Phase 2 simultaneous Decompation (subsoiling) of an 11 inch thick layer of replaced topsoil and the upper subsoil should run at the subsoiling implements full operating depth.

Fig. 10. An early pass with a 3-shank deep ripper penetrating only 8 inches into this worksite's severely compressed subsoil.

Fig. 11. A repeat run of the 3-shank ripper along the same patterned pass area as Fig. 9; here, incrementally reaching 18 of the needed 22 inches of subsoil fracture.

Typically, three separate series (patterns) are used for both the Phase 1 Deep Ripping and the Phase 2 Decompaction on significantly compacted sites. For Phase 1, each series begins with a moderate depth of rip and, by repeat-pass, continues until full depth is reached. Phase 2 applies the full depth of Decompation (subsoiling), from the beginning.

Every separate series (pattern) consists of parallel, forward-and-return runs, with each progressive

pass of the implement's legs or shanks evenly staggered between those from the previous pass. This compensates for the shank or leg-spacing on the implement, e.g., with 24-to-30 inches between each shank or leg. The staggered return pass ensures lateral and vertical fracturing actuated every 12 to 15 inches across the densely compressed soil mass.

Large, Unobstructed Areas
For larger easy areas, use the standard patterns of movement:

- The first series (pattern) of passes is applied lengthwise, parallel with the longest spread of the site; gradually progressing across the site's width, with each successive pass.

- The second series runs obliquely, crossing the first series at an angle of about 45 degrees.

- The third series runs at right angle (or 90 degrees), to the first series to complete the fracturing and shattering on severely compacted sites, and avoid leaving large unbroken blocks of compressed soil material. (In certain instances, the third series may be optional, depending on how thoroughly the first two series loosen the material and eliminate large chunks/blocks of material as verified by tests with a ¾-inch cone penetrometer.)

Fig. 12. Moderately dry topsoil is being replaced on the affected site now that Phase 1 deep ripping of the compressed subsoil is complete.

Fig. 13. The same deep, angled-leg subsoiler shown in Fig. 7 is engaged at maximum depth for Phase 2, decompaction (deep soiling), of the replaced topsoil and the upper subsoil materials.

Corridors
In long corridors of limited width and less maneuverability than larger sites, e.g.: along compacted areas used as temporary construction access, a modified series of pattern passes are used.

- First, apply the same initial lengthwise, parallel series of passes described above.

- A second series of passes makes a broad "S" shaped pattern of rips, continually and gradually alternating the "S" curves between opposite edges inside the compacted corridor.

- The third and final series again uses the broad, alternating S pattern, but it is "flip-flopped" to continually cross the previous S pattern along the corridor's centerline. This final series of the S pattern curves back along the edge areas skipped by the second series.

Maintenance and Cost

Once the two-phase practice of Deep Ripping and Decompation is completed, two items are essential for maintaining a site's soil porosity and permeability for infiltration. They are: planting and maintaining the appropriate ground cover with deep roots to maintain the soil structure (see Figure 15); and keeping the site free of traffic or other weight loads.

Note that site-specific choice of an appropriate vegetative ground-cover seed mix, including the proper seeding ratio of one or more perennial species with a deep taproot system and the proper amount of lime and soil nutrients (fertilizer mix) adapted to the soil-needs, are basic to the final practice of landscaping, i.e: surface tillage, seeding/planting/fertilizing and culti-packing or mulching is applied. The "maintenance" of an effectively deep-ripped and decompacted area is generally limited to the successful perennial (long-term) landscape ground cover; as long as no weight-bearing force of soil compaction is applied.

Fig. 14. The severely compacted soil of a temporary construction yard used daily by heavy equipment for four months; shown before deep ripping, topsoil replacement, and decompaction.

Fig. 15. The same site as Fig. 14 after deep ripping of the exposed subsoil, topsoil replacement, decompaction through the topsoil and upper subsoil and final surface tillage and revegetation to maintain soil permeability and infiltration.

The Deep Ripping and Decompaction practice is, by necessity, more extensive than periodic subsoiling of farmland.The cost of deep ripping and decompacting (deep subsoiling), will vary according to the depth and severity of soil-material compression and the relative amount of tractor and implement time that is required. In some instances, depending on open maneuverability, two-to-three acres of compacted project area may be deep-ripped in one day. In other situations of more severe compaction and - or less maneuverability, as little as one acre may be fully ripped in a day. Generally, if the Phase 1) Deep Ripping is fully effective, the Phase 2) Decompaction should be completed in 2/3 to 3/4 of the time required for Phase 1.

Using the example of two acres of Phase 1) Deep Ripping in one day, at $1800 per day, the net cost is $900 per acre. If the Phase 2) Decompacting or deep subsoiling takes 3/4 the time as Phase 1, it costs $675 per acre for a combined total of $1575 per acre to complete the practice (these figures do not include the cost of the separate practice of topsoil stripping and replacement). Due to the many variables, it must be recognized that cost will be determined by the specific conditions or constraints of the site and the availability of proper equipment.

Resources

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- Harpstead, M.I., T.J. Sauer, and W.F. Bennett. 2001. *Soil Science Simplified. 4th ed.* Iowa State University Press.
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- Union Gas Limited, Ontario, Canada. 1984. *Rehabilitation of Agricultural Lands, Dawn-Kerwood Loop Pipeline; Technical Report.* Ecological Services for Planning, Ltd.; Robinson, Merritt & Devries, Ltd. and Smith, Hoffman Associates, Ltd.
- US Department of Agriculture in cooperation with Cornell University Agricultural Experiment Station. Various years. *Soil Survey of (various names) County, New York.* USDA.

Internet Access:

- Examples of implements:

V-Rippers. Access by internet search of *John Deere Ag -New Equipment for 915* (larger-frame model) *V-Rippe*; and, *for 913* (smaller-frame model) *V-Ripper*. Deep, angled-leg subsoiler. Access by internet search of: B*igham Brothers Shear Bolt Paratill-Subsoiler.* http://salesmanual.deere.com/sales/salesmanual/en_NA/primary_tillage/2008/feature/rippers/915v_pattern_frame.html?sbu=ag&link=prodcat Last visited March 08.

- Soils data of USDA Natural Resources Conservation Service. *NRCS Web Soil Survey.* http://websoilsurvey.nrcs.usda.gov/app/ and *USDA-NRCS Official Soil Series Descriptions; View by Name.* http://ortho.ftw.nrcs.usda.gov/cgi-bin/osd/osdname.cgi . *Last visited Jan. 08.*
- Soil penetrometer information. Access by internet searches of: *Diagnosing Soil Compaction using a Penetrometer (soil compaction tester), PSU Extension;* as well as *Dickey-john Soil Compaction Tester.* http://www.dickey-johnproducts.com/pdf/SoilCompactionTest.pdf and http://cropsoil.psu.edu/Extension/Facts/uc178pdf Last visited Sept. 07

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APPENDIX F: LABELLA CERTIFYING PROFESSIONALS LETTER

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February 21, 2025

RE: LaBella Certifying Professionals for NYSDEC SPDES GP-0-25-001

To Whom it May Concern:

In accordance with the NYSDEC SPDES General Permit GP-0-25-001, Part VII.J.2, Kristopher Winkler, PE, a New York State Qualified Professional employed by LaBella Associates, is duly authorized to sign and seal Stormwater Pollution Prevention Plans (SWPPPs), Notice of Intents (NOIs) and Notice of Terminations (NOTs).

Respectfully submitted,

LaBella Associates

Timothy Webber
Vice President, Civil Division Director

Kristopher Winkler, PE
Senior Civil Engineer
Team Leader

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APPENDIX G:
NYSDEC SPDES GENERAL PERMIT GP-0-25-001

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NEW YORK STATE | Department of Environmental Conservation

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL
CONSERVATION (NYSDEC)

SPDES GENERAL PERMIT
FOR STORMWATER DISCHARGES

From

CONSTRUCTION ACTIVITY

Permit No. GP-0-25-001

Construction General Permit (CGP)

Issued Pursuant to Article 17, Titles 7, 8 and Article 70

of the Environmental Conservation Law

Effective Date: January 29, 2025 Expiration Date: January 28, 2030

Scott E. Sheeley

Chief Permit Administrator

Scott E. Sheeley JAN. 29, 2025

Authorized Signature Date

Address: NYSDEC
Division of Environmental Permits
625 Broadway, 4th Floor
Albany, N.Y. 12233-1750

PREFACE

Pursuant to Section 402 of the Clean Water Act (CWA), and 40 CFR 122.26(b)(14)(x), (15)(i), and (15)(ii), *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 State 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 and 8, and Article 70, as well as 6 NYCRR Parts 621 and 750.

Construction activities constitute construction of a *point source* and, therefore, pursuant to ECL sections 17-0505, 17-0701, and 17-0803, the *owner or operator* must have coverage under a SPDES permit prior to *commencement of construction activities*. 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 CONSTRUCTION GENERAL PERMIT (CGP) GP-0-25-001
FOR STORMWATER DISCHARGES FROM CONSTRUCTION ACTIVITIES

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Part I. How to Obtain Coverage and General Requirements

To be covered under this permit, the *owner or operator* must meet all eligibility requirements in Part I.A. and follow the requirements for obtaining permit coverage in Part I.D., F., or G.

A. Eligibility Requirements

For a *common plan of development or sale*, the *phase(s)* that meet the eligibility requirements in Part I.A. may obtain coverage under this permit even if other *phase(s)* of the same *common plan of development or sale* do not meet the eligibility requirements and require an individual SPDES permit.

1. The *owner's or operator's construction activities* involve soil disturbances of:

    a. one or more acres; or

    b. less than one acre which are part of a *common plan of development or sale* that will ultimately disturb one or more acres; or

    c. less than one acre where NYSDEC 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*.

        i. 5,000 square feet or more, but less than one acre, and are in the New York City Watershed located east of the Hudson River, Appendix C Figure 1; or

        ii. 20,000 square feet or more, but less than one acre, within the municipal boundaries of the City of New York (NYC); or

        iii. less than 20,000 square feet which are part of a *common plan of development or sale* that will ultimately disturb 20,000 square feet or more, but less than one acre, within the municipal boundaries of NYC; or

        iv. that creates 5,000 square feet or more of *impervious area* within the municipal boundaries of NYC.

2. *Discharges* from the *owner's or operator's construction activities* are/were not:

    a. already covered by a different SPDES permit; or

    b. covered under a different SPDES permit that was denied, terminated, or revoked; or

    c. identified in an expired individual SPDES permit that was not renewed; or

    d. required to obtain an individual SPDES permit or another general SPDES permit in accordance with Part VII.K.

3. If *construction activities* may adversely affect a species that is endangered or threatened, the *owner or operator* must obtain a:

    a. permit issued pursuant to 6 NYCRR Part 182 for the project; or

    b. letter issued by NYSDEC of non-jurisdiction pursuant to 6 NYCRR Part 182 for the project.

4. If *construction activities* have the potential to affect an *historic property*, the *owner or operator* must obtain one of the following:

    a. documentation that the *construction activity* is not within an archeological buffer 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:

        i. 1-5 acres of disturbance - 20 feet; or

        ii. 5-20 acres of disturbance - 50 feet; or

iii. 20+ acres of disturbance - 100 feet.

b. NYSDEC consultation form sent to OPRHP,[1] and copied to NYSDEC's Agency Historic Preservation Officer (APO), and

i. the State Environmental Quality Review Act (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 or 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).

c. documentation of satisfactory compliance with Section 106 of the National Historic Preservation Act for a coterminous project area:

i. No Affect; or

ii. No Adverse Affect; or

iii. Executed Memorandum of Agreement.

d. documentation that SHPA Section 14.09 has been completed by NYSDEC or another state agency.

5. If *construction activities* are subject to SEQR, the *owner or operator* must obtain documentation that SEQR has been satisfied.

6. If *construction activities* are not subject to SEQR, but subject to the equivalent environmental review from another New York State or federal agency, the

[1] The consultation form can be submitted, along with other project information, through OPRHP's Cultural Resource Information System (CRIS) portal. If submitted through CRIS, paper copies of the consultation form need not be mailed.

owner or operator must obtain documentation that project review, pursuant to a process equivalent to SEQR from another New York State or federal agency, has been satisfied.

7. If *construction activities* require Uniform Procedures Act (UPA) Permits (see 6 NYCRR Part 621) from NYSDEC, or the equivalent from another New York State or federal agency, the *owner or operator* must:

a. obtain all such necessary permits; or

b. receive notification from NYSDEC pursuant to 6 NYCRR 621.3(a)(4) excepting Part I.A.7.a.

8. *Construction activities* are not eligible if they meet the following criteria in Part I.A.8.a. or b.:

a. For linear transportation and linear utility project types, the *construction activities*:

i. are within the watershed of *surface waters of the State* classified as AA or AA-S identified utilizing the Stormwater Interactive Map on NYSDEC's website; and

ii. are undertaken on land with no existing *impervious cover*; and

iii. disturb two or more acres of *steep slope*.

b. For all other project types, the *construction activities*:

i. are within the watershed of *surface waters of the State* classified as AA or AA-S identified utilizing the Stormwater Interactive Map on NYSDEC's website; and

ii. are undertaken on land with no existing *impervious cover*; and

iii. disturb one or more acres of *steep slope*.

B. Types of *Discharges* Authorized

1. The following *stormwater discharges* are authorized under this permit:

   a. *Stormwater discharges*, including *stormwater* runoff, snowmelt runoff, and surface runoff and drainage, associated with *construction activity*, are authorized under this permit provided that appropriate *stormwater* controls are designed, installed, and maintained in accordance with Part **II.** and Part **III.**

   b. *Stormwater discharges* from construction support activities at the *construction site* (including concrete or asphalt batch plants, equipment staging yards, material storage areas, excavated material disposal areas, and borrow areas) if the following requirements are met:

      i. The support activity is directly related to the *construction site* required to have permit coverage for *stormwater discharges*; and

      ii. The support activity is not a commercial operation, nor does it serve multiple unrelated *construction sites*; and

      iii. The support activity does not continue to operate beyond the completion of the *construction activity* at the site it supports; and

      iv. *Stormwater* controls are implemented in accordance with Part **II.** and Part **III.** for *discharges* from the support activity areas.

2. The following non-*stormwater discharges* associated with *construction activity* are authorized under this permit:

   a. Non-*stormwater discharges* 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"; and

   b. Non-*stormwater discharges* of waters to which other components have not been added that are used in accordance with the *SWPPP* to control dust or irrigate vegetation in stabilized areas; and

   c. Uncontaminated *discharges* from *dewatering* operations

3. Authorized *discharges* of *stormwater* or authorized *discharges* of non-*stormwater*, commingled with a *discharge* authorized by a different SPDES permit and/or a *discharge* that does not require SPDES permit authorization, are also authorized under this permit.

C. Prohibited *Discharges*

1. Non-*stormwater discharges* prohibited under this permit include but are not limited to:

   a. Wastewater from washout of concrete; and

   b. Wastewater from washout and cleanout of stucco, paint, form release oils, curing compounds, and other construction materials; and

   c. Fuels, oils, or other *pollutants* used in vehicle and equipment operation and maintenance; and

   d. Soaps, solvents, or detergents used in vehicle and equipment washing or external building washdown; and

   e. Toxic or hazardous substances from a spill or other release.

D. Electronic Notice of Intent (eNOI) Submittal

To receive authorization in accordance with Part I.D.3.b., the *owner or operator* must submit a complete eNOI in accordance with the requirements in Part I.D. The eNOI contains questions to: ensure eligibility requirements in Part I.A. have been met; obtain *owner or operator* contact information; obtain the total area to be disturbed and the existing/future *impervious areas* (rounded to the nearest tenth of an acre); confirm *Traditional Land Use Control MS4 Operator* jurisdiction over construction projects; satisfy the EPA eRule requirements; confirm that the Water Quality-Based Effluent Limitations in Part **II.** have been met; demonstrate consideration of the future risks due to climate change in accordance with Part **III.**A.2.; and confirm that the other *Stormwater Pollution Prevention Plan (SWPPP)* requirements in Part **III.** have been met.

1. An eNOI may be submitted for:

   a. *construction activities* that are not part of a *common plan of development or sale*; or

b. an entire *common plan of development or sale*; or

c. separate *phase(s)* of a *common plan of development or sale* if the following requirements are met:

i. the *common plan of development or sale* meets the eligibility requirements of Part I.A.5. or 6.; and

ii. the *phase(s)* meet(s) all other eligibility requirements of Part I.A.; and

iii. Part III.C. Required *SWPPP* Components by Project Type is based on the *common plan of development or sale*, not the *phase(s)*; or

d. *tree clearing* that is associated with, or will support, a *renewable energy* generation, transmission, or storage project that meets Part I.A.5. and 6., if the *tree clearing*:

i. meets all other eligibility requirements of Part I.A.; and

ii. will occur in NYSDEC's Regions 3-9; and

iii. is not within ¼ mile of a bat hibernaculum protected pursuant to 6 NYCRR Part 182; and

iv. will occur between November 1st and March 31st.

2. As prerequisites for submitting an eNOI, the *owner or operator* must:

a. prepare a *SWPPP* for Part I.D.1.a., b., c., or d. in accordance with Part III.; and

b. based on the following criteria, upload the following signature forms signed in accordance with Part VII.J. to the eNOI prior to submission:

i. for all eNOIs:

1. the SWPPP Preparer Certification Form, Appendix F, signed by the *SWPPP* preparer; and

2. the Owner/Operator Certification Form, Appendix J, signed by the *owner or operator*; and

ii. if an eNOI includes *construction activities* within the municipal boundary(ies) of *Traditional Land Use Control MS4 Operator(s)* that will *discharge* to the *MS4(s)*:

1. determine if the *Traditional Land Use Control MS4 Operator(s)* have review authority. A *Traditional Land Use Control MS4 Operator* does not have review authority where:

a. the *owner or operator* of the *construction activities* in Part I.D.2.b.ii. is the same entity as the *Traditional Land Use Control MS4 Operator* identified in Part I.D.2.b.ii.; or

b. there is a statute exempting the *owner or operator* from zoning review by the *Traditional Land Use Control MS4 Operator*; or

c. there is no such statute per Part I.D.2.b.ii.1.b., the *Traditional Land Use Control MS4 Operator* concludes, after public hearing, that it does not have zoning review authority in accordance with Legal Memorandum LU14 Updated January 2020 "Governmental Immunity from Zoning and Other Legislation"; and

2. if the *Traditional Land Use Control MS4 Operator(s)* have review authority, submit the *SWPPP* to the *Traditional Land Use Control MS4 Operator(s)* for review and have:

a. if outside the municipal boundaries of NYC: the MS4 SWPPP Acceptance Form, Appendix G, signed by the principal executive officer or ranking elected official from the *Traditional Land Use Control MS4 Operator,* or by a duly authorized representative of that person in accordance with Part VII.J.2.; or

b. if within the municipal boundaries of NYC: The City of New York Department of Environmental Protection (NYCDEP) SWPPP Acceptance/Approval Form, Appendix H, signed by the principal executive officer or ranking elected official from the Traditional Land Use Control MS4 Operator, or by a duly authorized representative of that person in accordance with Part VII.J.2.; and

3. if the *Traditional Land Use Control MS4 Operator* does not have review authority, have the MS4 No Jurisdiction Form, Appendix I, signed by the principal executive officer or ranking elected official from the *Traditional Land Use Control MS4 Operator,* or by a duly authorized representative of that person in accordance with Part VII.J.2.

3. Submitting an eNOI:

a. The *owner or operator* must submit a complete Notice of Intent electronically using a NYSDEC approved form.[2]

b. The *owner or operator* is authorized to *commence construction activity* as of the authorization date indicated in the Letter of Authorization (LOA), which is sent by NYSDEC after a complete eNOI is submitted.

i. If an eNOI is received for a *SWPPP* that deviates from one of the technical standards but demonstrates *equivalence* in accordance with Part III.B.1.a.ii. or Part III.B.2.b.ii., if the *SWPPP* includes *construction activities* that are not within the municipal boundary(ies) of *Traditional Land Use Control MS4 Operator(s)*, and/or if the *SWPPP* includes *construction activities* within the municipal boundary(ies) of *Traditional Land Use Control MS4 Operator(s)* that do not have review authority in accordance with Part I.D.2.b.ii.1., the authorization date indicated in the LOA will be 60 business days after the eNOI submission date.

[2] Unless NYSDEC grants a waiver in accordance with 40 CFR 127.15(c) or (d). All waiver requests must be submitted to Stormwater_info@dec.ny.gov or NYSDEC, Bureau of Water Permits, 625 Broadway, 4th Floor, Albany, New York 12233-3505.

c. If *Traditional Land Use Control MS4 Operator(s)* have review authority in accordance with Part I.D.2.b.ii.2., the *owner or operator* must, within five business days of receipt of the LOA, send an electronic copy of the LOA to the *Traditional Land Use Control MS4 Operator(s)* with review authority.

E. General Requirements for *Owners or Operators* with Permit Coverage

1. As of the date the LOA is received, the *owner or operator* must make the eNOI, *SWPPP*, and LOA available for review and copying in accordance with the requirements in Part VII.H. When applicable, as of the date an updated LOA is received, the *owner or operator* must make the updated LOA available for review and copying in accordance with the requirements in Part VII.H.

2. The *owner or operator* must ensure compliance with all requirements of this permit and that the provisions of the *SWPPP*, including any changes made to the *SWPPP* in accordance with Part III.A.5., are properly implemented and maintained from the *commencement of construction activity* until:

a. all areas of disturbance have achieved *final stabilization;* and

b. the owner's or operator's coverage under this permit is terminated in accordance with Part V.A.5.a.

3. As of the date of the *commencement of construction activities* until Part I.E.2.a. and b. have been met, the *owner or operator* must maintain at the *construction site*, a copy of:

a. all documentation necessary to demonstrate eligibility with this permit; and

b. this permit; and

c. the *SWPPP*; and

d. the signed SWPPP Preparer Certification Form; and

e. the signed MS4 SWPPP Acceptance Form or signed NYCDEP SWPPP Acceptance/Approval Form or signed MS4 No Jurisdiction Form (when applicable); and

f. the signed Owner/Operator Certification Form; and

g. the eNOI; and

h. the LOA; and

i. the LOA transmittal to the Traditional Land Use Control MS4 Operator in accordance with Part I.D.3.c. (when applicable).

4. The *owner or operator* must maintain at the *construction site*, until Part I.E.2.a. and b. have been met, as of the date the documents become final or are received, a copy of the:

   a. responsible contractor's or subcontractor's certification statement(s) in accordance with Part III.A.7.; and

   b. inspection reports in accordance with Part IV.C.4. and 6.; and

   c. Request to Disturb Greater Than Five Acres and the Authorization Letter to Disturb Greater Than Five Acres in accordance with Part I.E.6. (when applicable); and

   d. Request to Continue Coverage and the Letter of Continued Coverage (LOCC) in accordance with Part I.F.2. and 4. (when applicable); and

   e. The updated LOA(s) in accordance with Part I.E.9. (when applicable).

5. The *owner or operator* must maintain the documents in Part I.E.3. and 4. 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. The documents must be paper documents unless electronic documents are accessible to the inspector during an inspection to the same extent as a paper copy stored at the site would be. If electronic documents are kept on site, the *owner or operator* must maintain functional equipment on site available to an inspector during normal hours of operation such that an inspector may view the electronic documents in a format that can be read in a similar manner as a paper record and in a legally dependable format with no less evidentiary value than their paper equivalent.

6. The *owner or operator* must meet the following requirements prior to disturbing greater than five acres of soil at any one time:

   a. The *owner or operator* must submit a written Request to Disturb Greater Than Five Acres to:

   i. NYSDEC's Regional Office Division of Water staff based on the project location, Appendix E, if a *Traditional Land Use Control MS4 Operator* does not have review authority in accordance with Part I.D.2.b.ii.1.; or

   ii. the *Traditional Land Use Control MS4 Operator*, if a *Traditional Land Use Control MS4 Operator* has review authority in accordance with Part I.D.2.b.ii.1.; or

   iii. NYSDEC's Regional Office Division of Water staff based on the project location, Appendix E, and each involved *Traditional Land Use Control MS4 Operator*, if the project spans multiple municipalities with more than one *Traditional Land Use Control MS4 Operator* involved with review authority in accordance with Part I.D.2.b.ii.1.

   b. The written Request to Disturb Greater Than Five Acres must include:

      i. The SPDES permit identification number (Permit ID); and

      ii. Full technical justification demonstrating why alternative methods of construction that would result in five acres of soil disturbance or less at any one time are not feasible; and

      iii. The phasing plan for the project and sequencing plans for all *phases* from the *SWPPP* in accordance with Part III.B.1.d.; and

      iv. Plans with locations and details of erosion and sediment control practices such that the heightened concern for erosion when disturbing greater than five acres at one time has been addressed; and

      v. Acknowledgment that "the *owner or operator* will comply with the requirements in Part IV.C.2.b."; and

      vi. Acknowledgment that "the *owner or operator* will comply with the requirements in Part II.B.1.b."

   c. The *owner or operator* must be in receipt of an Authorization Letter to Disturb Greater Than Five Acres, which will include when the

authorization begins and ends and indicate a maximum area (acres) of soil disturbance allowed at any one time, from:

i. NYSDEC, if Part I.E.6.a.i. or iii. apply; or

ii. the *Traditional Land Use Control MS4 Operator*, if Part I.E.6.a.ii. applies.

7. Upon a finding of significant non-compliance with the practices described in the *SWPPP* or violation of this permit, NYSDEC may order an immediate stop to all *construction activity* at the site until the non-compliance is remedied. The stop work order must be in writing, describe the non-compliance in detail, and be sent to the *owner or operator*.

8. 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).[3] *Construction activity* shall not resume until written permission to do so has been received from the RWE.

9. To be authorized to implement modifications to the information previously submitted in the eNOI, the *owner or operator* must:

   a. notify NYSDEC via email at Stormwater_info@dec.ny.gov requesting access to update the eNOI; and

   b. update the eNOI to reflect the modifications and resubmit the eNOI in accordance with Part I.D.; and

   c. receive an updated LOA.

10. The eNOI, *SWPPP*, LOA, updated LOAs (when applicable), 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 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.

[3] The Regional Water Manager where a DEC Region does not have a RWE.

F. Permit Coverage for *Discharges* Authorized Under GP-0-20-001

When applicable:

1. Upon the effective date of this permit, an *owner or operator* of *a construction activity*, with coverage under GP-0-20-001, will have interim coverage under GP-0-25-001 for 45 calendar days starting on the effective date of GP-0-25-001 so long as the *owner or operator* maintains compliance with all applicable requirements of this permit.

2. Within 30 calendar days of the effective date of this permit, the *owner or operator*, with coverage under GP-0-20-001, must submit a complete Request to Continue Coverage electronically using a NYSDEC approved form,[4] which contains the information identified in Part I.F.3. below, if:

   a. the *owner or operator* continues to implement the SMP component in conformance with the technical standards in place at the time of initial project authorization; and

   b. the *owner or operator* will comply with all non-design requirements of GP-0-25-001.

3. The Request to Continue Coverage form contains questions to: ensure eligibility requirements in Part I.A. have been met; verify *owner or operator* contact information; verify the permit identification number; verify the original eNOI submission ID, if applicable; verify Part I.F.2.a. and b.; verify the version of the Design Manual that the technical/design components conform to; and receive an updated Owner/Operator Certification Form, Appendix I.

4. The *owner or operator* has obtained continued coverage under GP-0-25-001 as of the date indicated in the LOCC, which is sent by NYSDEC after a complete Request to Continue Coverage form is submitted.

5. If the owner or operator does not submit the Request to Continue Coverage form in accordance with Part I.F.2. and 3., coverage under this permit is automatically terminated after interim coverage expires.

[4] Unless NYSDEC grants a waiver in accordance with 40 CFR 127.15(c) or (d). All waiver requests must be submitted to Stormwater_info@dec.ny.gov or NYSDEC, Bureau of Water Permits, 625 Broadway, 4th Floor, Albany, New York 12233-3505.

G. Change of *Owner or Operator*

When applicable:

1. When property ownership changes, or when there is a change in operational control over the construction plans and specifications, the following process applies:

   a. The new *owner or operator* must meet the applicable prerequisites for submitting an eNOI in accordance with Part I.D.2.; and

   b. The new *owner or operator* must submit an eNOI in accordance with Part I.D.3.; and

   c. Permit coverage for the new *owner or operator* will be effective upon receipt of the LOA in accordance with Part I.D.3.b.; and

   d. The new *owner or operator*, upon receipt of their LOA, must provide their Permit ID to the original *owner or operator*; and

   e. If the original *owner or operator* will no longer be the *owner or operator* of the *construction activity* identified in the original *owner's or operator's* eNOI, the original *owner or operator*, upon receipt of the new *owner's or operator's* Permit ID in accordance with Part I.G.1.d., must submit to NYSDEC a completed eNOT in accordance with Part V. that includes the name and Permit ID of the new *owner or operator*; or

   f. If the original *owner or operator* maintains ownership of a portion of the *construction activity*, the original *owner or operator* must maintain their coverage under the permit by modifying their eNOI; modifications to the eNOI must include:

      i. the revised area of disturbance and/or *impervious area(s)*; and

      ii. the revised SMP information, if applicable; and

      iii. a narrative description of what has changed; and

      iv. the new *owner's or operator's* Permit ID for the portion of the project removed from the eNOI.

   Owners or operators must follow Part I.E.9. to modify the eNOI.

Part II. Water Quality-Based Effluent Limitations

A. Maintaining Water Quality

NYSDEC expects that compliance with the requirements 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 the following *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:

1. There must be no increase in turbidity that will cause a substantial visible contrast to natural conditions; and

2. There must be no increase in suspended, colloidal or settleable solids that will cause deposition or impair the waters for their best usages; and

3. There must 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 standard,* the *owner or operator* must take appropriate corrective action in accordance with Part IV.C.5. of this permit and document in accordance with Part IV.C.4. of this permit. To address the *water quality standard* violation the *owner or operator* must include and implement appropriate controls in the *SWPPP* to correct the problem or obtain an individual SPDES permit.

If, despite compliance with the requirements of this 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 NYSDEC determines that a modification of this permit is necessary to prevent a violation of *water quality standards*, the authorized *discharges* will no longer be eligible for coverage under this permit, and the *owner or operator* must obtain an individual SPDES permit prior to further *discharges* from the *construction site*.

B. Effluent Limitations Applicable to *Discharges* from *Construction Activities*

Discharges authorized by this permit must achieve, at a minimum, the effluent limitations in Part II.B.1.a., b., c., d., and e. 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 II.B.1.a., b., c., d., and e. and be in accordance with the New York State Standards and Specifications for Erosion and Sediment Control (BB), 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 *SWPPP* the reason(s) for the deviation, or alternative design, and provide information in the *SWPPP* demonstrating that the deviation or alternative design is *equivalent* to the technical standard.

   a. **Erosion and Sediment Controls.** At a minimum, erosion and sediment controls must be selected, designed, installed, implemented, and maintained to:

      i. *Minimize* soil erosion through application of runoff control and soil stabilization control measure to *minimize pollutant discharge*s; and

      ii. Control *stormwater discharge*s, including both peak flow rates and total *stormwater* volume, to *minimize* channel and *streambank* erosion and scour in the immediate vicinity of the *discharge* points; and

      iii. *Minimize* the amount of soil exposed during *construction activity*; and

      iv. *Minimize* the disturbance of *steep slope*; and

      v. *Minimize* sediment *discharge*s from the site; and

      vi. Provide and maintain *natural buffers* around surface waters, direct *stormwater* to vegetated areas and maximize *stormwater* infiltration to reduce *pollutant discharge*s, unless *infeasible*; and

      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; and

      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 ceased, whether permanently or *temporarily ceased*, the application of soil stabilization measures must be initiated by the end of the next business day and completed within 14 calendar 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 D, or are located in one of the watersheds listed in Appendix C, or are authorized to disturb greater than five acres in accordance with Part I.E.5.a.viii., the application of soil stabilization measures must be initiated by the end of the next business day and completed within seven calendar days from the date the soil disturbance activity ceased.

   c. **Dewatering.** *Discharge*s from *dewatering* activities, including *discharge*s from *dewatering* of trenches and excavations, must be managed by appropriate control measures.

   d. **Pollution Prevention Measures.** Select, 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 selected, designed, installed, implemented, and maintained to:

      i. *Minimize* the *discharge* of *pollutants* from equipment and vehicle washing, wheel wash water, and other wash waters. Soaps, detergents and solvents cannot be used; and

      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. **Surface Outlets.** When discharging from basins and impoundments, the surface outlets must 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 (SMP) Requirements

1. The *owner or operator* of a *construction activity* that requires post-construction SMPs, in accordance with Part III.C., must select, design, install, implement, and maintain the SMPs to meet the *performance criteria* in the New York State Stormwater Management Design Manual, dated July 31, 2024 (DM), using sound engineering judgment. Where SMPs are not designed in conformance with the *performance criteria* in the DM, 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 SMPs in accordance with Part III.C., must design the practices to meet the applicable *sizing criteria* in Part II.C.2.a., b., c., or d.

a. Sizing Criteria for *New Development*

i. Runoff Reduction Volume (RRv) and Water Quality Volume (WQv):

1. Reduce the total WQv by application of RR techniques and standard SMPs with RRv capacity. The total WQv must be calculated in accordance with the criteria in Section 4.2 of the DM; or

2. Minimum RRv and Treatment of Remaining Total WQv: *Construction activities* that cannot meet the requirements in Part II.C.2.a.i.1. due to *site limitations* must 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 must 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 4.4 of the DM. The remaining portion of the total WQv that cannot be reduced must be treated by application of standard SMPs.

ii. Channel Protection Volume (CPv): Provide 24 hour extended detention of the post-developed 1-year, 24-hour storm event, remaining after runoff reduction. Where a CPv control orifice is provided, the minimum orifice size must be 3 inches, with acceptable external trash rack or orifice protection. 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 1-year post-development peak *discharge* is less than or equal to 2.0 cfs without detention or velocity controls; or

3. The site *directly discharges* into a fifth order or larger water body (stream, river, or lake), or tidal waters, where the increase in smaller flows will not impact the stream bank or channel integrity. However, the point of *discharge* must be adequately protected against scour and erosion by the increased peak *discharge*.

iii. *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 *directly discharges* to tidal waters or fifth order or larger streams, or

2. A downstream analysis reveals that *overbank* control is not required.

iv. 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 *directly discharges* 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 Watersheds

i. Runoff Reduction Volume (RRv) and Water Quality Volume (WQv):

1. Reduce the 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 must be calculated in accordance with the criteria in Section 4.3 of the DM; or

2. Minimum RRv and Treatment of Remaining Total WQv: *Construction activities* that cannot meet the criteria in Part II.C.2.b.i.1. due to *site limitations* must 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 must 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 4.5 of the DM. The remaining portion of the total WQv that cannot be reduced must be treated by application of standard SMPs.

ii. Channel Protection Volume (CPv): Provide 24 hour extended detention of the post-developed 1-year, 24-hour storm event, remaining after runoff reduction. Where a CPv control orifice is provided, the minimum orifice size must be 3 inches, with acceptable external trash rack or orifice protection. 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 1-year post-development peak *discharge* is less than or equal to 2.0 cfs; or

3. The site *directly discharges* to tidal waters, or a fifth order or larger water body (stream, river, or lake) where the increase in smaller flows will not impact the stream bank or channel integrity. However, the point of *discharge* must be adequately protected against scour and erosion by the increased peak *discharge*.

iii. *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 *directly discharges* to tidal waters or fifth order or larger streams; or

2. A downstream analysis reveals that *overbank* control is not required.

iv. 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 *directly discharges* 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* must be addressed by one of the following options, as outlined in Section 9.2.1. *Redevelopment activities* located in an Enhanced Phosphorus Removal Watershed (see Part III.B.3. and Appendix C) must calculate the WQv in accordance with Section 4.3 of the DM. All other *redevelopment activities* must calculate the WQv in accordance with Section 4.2 of the DM.

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 DM must be applied to all newly created pervious areas; or

2. Capture and treat 100% of the required WQv, for a minimum of 25% of the disturbed redevelopment *impervious area*, by implementation of standard SMPs or reduced by application of runoff reduction techniques; or

3. Capture and treat 100% of the required WQv, for a minimum of 75% of the disturbed redevelopment *impervious area*, by implementation of a volume-based alternative SMP, as defined in Section 9.4 of the DM; or

4. Capture and treat 100% of the required WQv, for a minimum of 75% of the disturbed redevelopment *impervious area*, by implementation of a flow-through alternative SMP sized to treat the peak rate of runoff from the WQv design storm; or

5. Application of a combination of 1 through 4 above that provide a weighted average of at least two of the above methods. Application of this method must be in accordance with the criteria in Section 9.2.1(A)(V) of the DM; or

6. If there is an existing SMP 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 through 5 above.

ii. Channel Protection Volume (CPv) is not required if there is 0% change to hydrology that increases the *discharge* rate and volume from the project site.

iii. *Overbank* Flood Control (Qp) is not required if there is 0% change to hydrology that increases the *discharge* rate from the project site.

iv. Extreme Flood Control (Qf) is not required if there is 0% change to hydrology that increases 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*, must use SMPs that meet the *sizing criteria* calculated as an aggregate of the *sizing criteria* in Part II.C.2.a. or b. for the *new development* portion of the project and Part II.C.2.c. for the *redevelopment activity* portion of the project.

Part III. Stormwater Pollution Prevention Plan (SWPPP)

A. General *SWPPP* Requirements

1. A *SWPPP* must be prepared and implemented by the *owner or operator* of all *construction activity* covered by this permit. All authorized *discharges* must be identified in the *SWPPP*. 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 II.B. and, where applicable, the SMP requirements in Part II.C.

2. The *SWPPP* must demonstrate consideration in narrative format of the future physical risks due to climate change pursuant to the Community Risk and Resiliency Act (CRRA), 6 NYCRR Part 490, and associated guidance.

   a. The owner or operator must consider:

      i. the following physical risks due to climate change:

         (i) increasing temperature; and

         (ii) increasing precipitation; and

         (iii) increasing variability in precipitation, including chance of drought; and

         (iv) increasing frequency and severity of flooding; and

         (v) rising sea level; and

         (vi) increasing storm surge; and

         (vii) shifting ecology.

      ii. for each of the following:

         (i) overall site planning; and

         (ii) location, elevation, and sizing of:

            a. control measures and practices; and

            b. conveyance system(s); and

            c. detention system(s).

3. The *SWPPP* must describe the erosion and sediment control practices and where required, SMPs that will be used and/or constructed to reduce the *pollutants* in *stormwater discharges* and to assure compliance with the

requirements of this permit. In addition, the *SWPPP* must identify potential sources of pollution which may reasonably be expected to affect the quality of *stormwater discharges*.

4. All *SWPPPs*, that require the SMP component in accordance with Part III.B.2., must be prepared by a *qualified professional*.

5. The *owner or operator* must keep the *SWPPP* current so that, at all times, it accurately documents the erosion and sediment control practices that are being used or will be used during construction, and all SMPs that will be constructed on the site. At a minimum, the *owner or operator* must modify the *SWPPP*, including construction drawings:

   a. whenever the current provisions prove to be ineffective in *minimizing pollutants* in *stormwater discharges* from the site; and

   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*; and

   c. to address issues or deficiencies identified during an inspection by the *qualified inspector,* NYSDEC, or other regulatory authority; and

   d. to document the final construction conditions in an as-built drawing.

6. NYSDEC 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 must 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 NYSDEC, the *owner or operator* must make the required changes to the *SWPPP* and submit written notification to NYSDEC that the changes have been made. If the *owner or operator* does not respond to NYSDEC's comments in the specified time frame, NYSDEC 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.

7. 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 SMPs included in the *SWPPP*. The *owner or operator* must have each of the contractors and subcontractors identify at least one person from their company to be *trained contractor* that will be responsible for implementation of the *SWPPP*. The *owner or operator* must ensure that at least one *trained contractor* is on site daily when soil disturbance activities are being performed.

The *owner or operator* must have each of the contractors and subcontractors identified above sign a copy of the following certification statement below before the *commencement of construction activities*:

> "I hereby certify under penalty of law that I understand and agree to comply with the requirements 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 requirements of the most current version of the New York State Pollutant Discharge Elimination System (SPDES) Construction General Permit (CGP) 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* must 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 the *commencement of construction activities*, they must also sign the certification statement and provide the information listed above prior to performing *construction activities*.

B. Required *SWPPP* Contents

1. Erosion and sediment control component - The *owner or operator* must prepare a *SWPPP* that includes erosion and sediment control practices.

   a. Erosion and sediment control practices must be designed:

      i. in conformance with the BB; or

      ii. *equivalent* to the BB if deviating from Part III.B.1.a.i.

   b. If the erosion and sediment control practices are designed in conformance with Part III.B.1.a.ii., the *SWPPP* must include a demonstration of *equivalence* to the BB.

   c. At a minimum, the erosion and sediment control component of the *SWPPP* must include the following:

      i. Background information about the scope of the project, including the location, type and size of project; and

      ii. A site map/construction drawing(s) with north arrows for the project, including a general location map. At a minimum, the site map must 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) and receiving surface water(s); and

      iii. A description of the soil(s) present at the site, including an identification of the Hydrologic Soil Group (HSG); and

      iv. A phasing plan for the project and sequencing plans for all *phases*, both of which must address clearing and grubbing, excavation and grading, utility and infrastructure installation, *final stabilization*,

and any other *construction activity* at the site that will result in soil disturbance.

1. The phasing plan must include:

    a. a map delineating and labeling the limits of soil disturbance for all *phases* of a project; and

    b. a table identifying the order and intended schedule of when each *phase* will begin and end its sequencing plan. The table must identify the total disturbed area for each *phase* at any one time and the total disturbed area for the overall project at any one time all on one timeline showing all overlapping quantities of disturbed area at any one time; and

2. A sequencing plan for a specific *phase* must include:

    a. a table indicating the order and intended schedule of *construction activities* within a *phase*, and corresponding construction drawings with a description of the work to be performed; and

    b. all permanent and *temporary stabilization* measures; and

v. 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; and

vi. A site map/construction drawing(s) showing the specific location(s), size(s), and length(s) of each erosion and sediment control practice; and

vii. 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; and

viii. A maintenance inspection schedule for the contractor(s) and subcontractor(s) identified in Part III.A.7. to ensure continuous and effective operation of the erosion and sediment control practices. The maintenance inspection schedule must be in accordance with the requirements in the BB technical standard; and

ix. 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*; and

x. 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

xi. Identification of any elements of the design that are not in conformance with the design criteria in the BB technical standard. 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. SMP component – The *owner or operator* of *construction activity* identified in Table 2 of Appendix B must prepare a *SWPPP* that includes SMPs.

    a. SMPs must be designed in conformance with the applicable *sizing criteria* in Part II.C.2.a., c., or d.; and

    b. SMPs must be designed in conformance with the *performance criteria*:

        i. in the DM; or

        ii. *equivalent* to the DM if deviating from Part III.B.2.b.i.; or

        iii. in the New York State Stormwater Management Design Manual, dated January 2015 (2015 Design Manual), or *equivalent* to it, if the following criteria are met:

1. The eNOI is submitted in accordance with Part I.D. before January 29, 2027 for *construction activities* that are either:

    a. subject to governmental review and approval:

        i. where the *owner or operator* made any application to that governmental entity prior to the effective date of this permit; and

        ii. such application included a *SWPPP* developed using the 2015 Design Manual or *equivalent* to it; or

    b. not subject to governmental review and approval:

        i. where a fiscal allocation for the *construction activities* has been developed and approved by a governmental entity; and

        ii. the *SWPPP* was developed using the 2015 Design Manual or *equivalent* to it; and

c. If SMPs are designed in conformance with Part III.B.2.b.ii., the *SWPPP* must include the reason(s) for the deviation or alternative design and a demonstration of *equivalence* to the DM; and

d. If SMPs are designed in conformance with Part III.B.2.b.iii., the *SWPPP* must include supporting information or documentation demonstrating that Part III.B.2.b.iii.1.a. or b. apply; and

e. The SMP component of the *SWPPP* must include the following:

    i. Identification of all SMPs to be constructed as part of the project, including which option the SMP designs conform to, either Part III.B.2.b.i., ii., or iii. Include the dimensions, material specifications and installation details for each SMP; and

    ii. A site map/construction drawing(s) showing the specific location and size of each SMP; and

iii. 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; and

    (ii) Map(s) showing post-development conditions, including watershed/subcatchments boundaries, flow paths/routing, design points and SMPs; and

    (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; and

    (iv) Summary table, with supporting calculations, which demonstrates that each SMP has been designed in conformance with the *sizing criteria* included in the DM; and

    (v) Identification of any *sizing criteria* that is not required based on the requirements included in Part II.C.; and

    (vi) Identification of any elements of the design that are not in conformance with the *performance criteria* in the DM. 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 DM.

iv. Soil testing results and locations (test pits, borings); and

v. Infiltration test results, when required in accordance with Part III.B.2.a.; and

vi. An operations and maintenance plan that includes inspection and maintenance schedules and actions to ensure continuous and effective operation of each SMP. The plan must identify the entity

that will be responsible for the long-term operation and maintenance of each practice; and

3. Enhanced Phosphorus Removal Standards - The *owner or operator* of *construction activity* identified in Table 2 of Appendix B that is located in a watershed identified in Appendix C must prepare a *SWPPP* that includes SMPs designed in conformance with the applicable *sizing criteria* in Part II.C.2.b., c., or d. and the *performance criteria* Enhanced Phosphorus Removal Standards included in the DM. At a minimum, the SMP component of the *SWPPP* must meet the requirements of Part III.B.2.

C. Required *SWPPP* Components by Project Type

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 accordance with Part III.B.1. *Owners or operators* of the *construction activities*, identified in Table 2 of Appendix B, must prepare a *SWPPP* that also includes SMPs designed in accordance with Part III.B.2 or 3.

For the entire area of disturbance, including the entire *common plan of development or sale* if applicable, the owner or operator must evaluate every bullet from Appendix B Table 1 and Table 2 separately. If bullets from both Table 1 and Table 2 apply, the *SWPPP* must include erosion and sediment control practices for all *construction activities* but SMPs for only those portions of the *construction activities* that fall under Table 2 bullet(s).

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 SMPs identified in the *SWPPP*, are inspected and maintained in accordance with Part IV.B. and C.

B. Contractor Maintenance Inspection Requirements

1. The *owner or operator* of each *construction activity*, identified in Tables 1 and 2 of Appendix B, must 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 must:

a. if the corrective action does not require engineering design:

   i. begin implementing corrective actions within one business day; and

   ii. complete the corrective actions within five business days; or

b. if the corrective action requires engineering design:

   i. begin the engineering design process within five business days; and

   ii. complete the corrective action in a reasonable time frame but no later than within 60 calendar days.

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 in accordance with Part IV.B.1. The *trained contractor* must begin conducting the maintenance inspections in accordance with Part IV.B.1. 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 in accordance with Part IV.B.1. if all areas disturbed as of the project shutdown date have achieved *final stabilization* <u>and</u> all SMPs required for the completed portion of the project have been constructed in conformance with the *SWPPP* and are operational.

C. *Qualified Inspector* Inspection Requirements

1. With the exception of the following *construction activities* identified in Tables 1 and 2 of Appendix B, a *qualified inspector* must conduct site inspections for all other *construction activities* identified in Tables 1 and 2 of Appendix B:

   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 or equal to five (5) acres and is

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 D; and

b. the construction of a single-family home that involves soil disturbances of one (1) or more acres but less than or equal to five (5) acres and is 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 D; and

c. construction on *agricultural property* that involves soil disturbances of one (1) or more acres but less than five (5) acres; and

d. *construction activities* located in the New York City Watershed located east of the Hudson River, see Appendix C Figure 1, that involve soil disturbances of 5,000 square feet or more, but less than one acre.

2. The *qualified inspector* must conduct site inspections in accordance with the following timetable:

a. For *construction sites* where soil disturbance activities are on-going, the *qualified inspector* must conduct a site inspection at least once every seven (7) calendar days; or

b. For *construction sites* where soil disturbance activities are on-going and the *owner or operator* has received authorization in accordance with Part I.E.6. to disturb greater than five (5) acres of soil at any one time, the *qualified inspector* must conduct at least two (2) site inspections every seven (7) calendar days. The two (2) inspections must be separated by a minimum of two (2) full calendar days; or

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* must conduct a site inspection at least once every thirty (30) calendar days. The *owner or operator* must notify the DOW Water (SPDES) Program contact at the Regional Office (see contact information in Appendix E) or, in areas under the jurisdiction of a *Traditional Land Use Control MS4 Operator,* the *Traditional Land Use Control MS4 Operator* (provided the *Traditional Land Use Control MS4 Operator* is not the *owner or operator* of the *construction activity*) by hard copy or email prior to reducing the inspections to this frequency and again by hard copy or email prior to re-commencing construction; or

d. For *construction sites* where soil disturbance activities have been shut down with partial project completion, the requirement to have the *qualified inspector* conduct inspections ceases if all areas disturbed as of the project shutdown date have achieved *final stabilization* and all SMPs required for the completed portion of the project have been constructed in conformance with the *SWPPP* and are operational. The *owner or operator* must notify the DOW Water (SPDES) Program contact at the Regional Office (see contact information in Appendix E) or, in areas subject to the review authority of *Traditional Land Use Control MS4 Operator(s)* in accordance with Part I.D.2.b.ii.1., the *Traditional Land Use Control MS4 Operator(s)* (provided the *Traditional Land Use Control MS4 Operator(s)* are not the *owners or operators* of the *construction activity*) in writing prior to the shutdown and again in writing prior to resuming *construction activity*. If soil disturbance activities are not resumed within 2 years from the date of shutdown, the *owner or operator* must terminate coverage by meeting the requirements of Part V; or

e. For *construction sites* involving soil disturbance of one (1) or more acres that *directly discharge* to one of the 303(d) segments listed in Appendix D or is located in one of the watersheds listed in Appendix C, the *qualified inspector* must conduct at least two (2) site inspections every seven (7) calendar days. The two (2) inspections must be separated by a minimum of two (2) full calendar days.

3. At a minimum, the *qualified inspector* must inspect:

a. all erosion and sediment control practices and pollution prevention measures to ensure integrity and effectiveness; and

b. all SMPs under construction to ensure that they are constructed in conformance with the *SWPPP*; and

c. all areas of disturbance that have not achieved *final stabilization*; and

d. all points of *discharge* to *surface waters of the State* located within, or immediately adjacent to, the property boundaries of the *construction site*; and

e. all points of *discharge* from the *construction site*.

4. The *qualified inspector* must prepare an inspection report subsequent to each and every inspection. At a minimum, the inspection report must include and/or address all of the following, for all *construction activities* except those listed in Part IV.C.1.:

   a. Permit identification number; and

   b. Date and time of inspection; and

   c. Name and title of person(s) performing inspection; and

   d. A description of the weather and soil conditions (e.g. dry, wet, saturated) at the time of the inspection, including the temperature at the time of the inspection; and

   e. A description of the condition of the runoff at all points of *discharge* from the *construction site*. This must 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; and

   f. A description of the condition of all *surface waters of the State* located within, or immediately adjacent to, the property boundaries of the *construction site* which receive runoff from disturbed areas. This must include identification of any *discharges* of sediment to the *surface waters of the State*; and

   g. Identification of all erosion and sediment control practices and pollution prevention measures that need repair or maintenance; and

   h. 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; and

   i. Description and sketch (map) 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; and

   j. Estimates, in square feet or acres, of the following areas:

      i. Total area with active soil disturbance (not requiring either *temporary stabilization* or *final stabilization*); and

      ii. Total area with inactive soil disturbance (requiring either *temporary stabilization* or *final stabilization*); and

      iii. Total area that has achieved *temporary stabilization*; and

      iv. Total area that has achieved *final stabilization*; and

   k. Current stage of construction of all SMPs and identification of all *construction activity* on site that is not in conformance with the *SWPPP* and technical standards; and

   l. 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 SMP(s); and

   m. Identification and status of all corrective actions that were required by previous inspection; and

   n. Digital photographs, with date stamp, that clearly show the condition of all practices that have been identified as needing corrective actions. The *qualified inspector* must attach 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* must 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* must 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* must notify the *owner or operator*, and appropriate contractor or subcontractor identified in Part III.A.7., of any corrective actions that need to be taken. The contractor or subcontractor must:

   a. if the corrective action does not require engineering design:

i. begin implementing corrective actions within one business day; and

ii. complete the corrective actions within five business days; or

b. if the corrective action requires engineering design:

i. begin the engineering design process within five business days; and

ii. complete the corrective action in a reasonable time frame but no later than within 60 calendar days.

6. All inspection reports must be signed by the *qualified inspector.* In accordance with Part I.E.3., the inspection reports must be maintained on site with the *SWPPP*.

Part V. How to Terminate CGP Coverage

A. Electronic Notice of Termination (eNOT) Submittal

The eNOT contains questions to ensure requirements in Part V.A. have been met.

1. An *owner or operator* must terminate coverage when one or more of the following requirements have been met:

a. Total project completion:

i. all *construction activity* identified in the *SWPPP* has been completed; and

ii. all areas of disturbance have achieved *final stabilization*; and

iii. all temporary, structural erosion and sediment control measures have been removed; and

iv. all SMPs have been constructed in conformance with the *SWPPP* and are operational; and

v. an as-built drawing has been prepared; or

b. Planned shutdown with partial project completion:

i. all soil disturbance activities have ceased; and

ii. all areas disturbed as of the project shutdown date have achieved *final stabilization*; and

iii. all temporary, structural erosion and sediment control measures have been removed; and

iv. all SMPs required for the completed portion of the project have been constructed in conformance with the *SWPPP* and are operational; and

v. an as-built drawing has been prepared; or

c. In accordance with Part I.G. Change of Owner or Operator; or

d. The *owner or operator* has obtained coverage under an alternative general SPDES permit or an individual SPDES permit.

2. For *construction activities* that require *qualified inspector* inspections in accordance with Part IV.C.1. and have met Part V.A.1.a. or b., the *owner or operator* must have the *qualified inspector* perform a final site inspection prior to submitting the eNOT. The *qualified inspector* must, by signing the "Final Stabilization" and "Post-Construction Stormwater Management Practice(s)" certification statements on the eNOT, certify that all the requirements in Part V.A.1.a. or b. have been achieved.

3. For *construction activities* that are subject to the review authority of *Traditional Land Use Control MS4 Operator(s)* in accordance with Part I.D.2.b.ii.1. and meet Part V.A.1.a. or b., the *owner or operator* must have the *Traditional Land Use Control MS4 Operator(s)* sign the "MS4 Acceptance" statement on the eNOT in accordance with the requirements in Part VII.J. A *Traditional Land Use Control MS4 Operator* official, by signing this statement, determined that it is acceptable for the *owner or operator* to submit the eNOT in accordance with the requirements of this Part. A *Traditional Land Use Control MS4 Operator* can make this determination by performing a final site inspection themselves or by accepting the *qualified inspector*'s final site inspection certification(s) when required in Part V.A.2.

4. For *construction activities* that require SMPs and meet Part V.A.1.a. or b., the *owner or operator* must, prior to submitting the eNOT, ensure one of the following:

   a. for SMP(s) that were constructed by a private entity, but will be owned, operated, and maintained by a public entity, the SMP(s) and any right-of-way(s) needed to operate and maintain such practice(s) have been deeded to the municipality in which the practice(s) is located; or

   b. for SMP(s) that are privately owned, but will be operated and maintained by a public entity, an executed operation and maintenance agreement is in place with the municipality that will operate and maintain the SMP(s); or

   c. for SMP(s) 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; or

   d. for SMP(s) 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 policies and procedures in place that ensure operation and maintenance of the practices in accordance with the operation and maintenance plan.

5. An *owner or operator* that has met the requirements of Part V.A.1., 2., 3., and 4. must request termination of coverage under this permit by submitting a complete Notice of Termination form electronically using a NYSDEC approved form.[5]

   a. The owner's or operator's coverage is terminated as of the termination date indicated in the Letter of Termination (LOT), which is sent by NYSDEC after a complete eNOT is submitted.

[5] Unless NYSDEC grants a waiver in accordance with 40 CFR 127.15(c) or (d). All waiver requests must be submitted to Stormwater_info@dec.ny.gov or NYSDEC, Bureau of Water Permits, 625 Broadway, 4th Floor, Albany, New York 12233-3505.

Part VI. Record Retention and Reporting

A. Record Retention

The *owner or operator* must retain a copy of the documents listed in Part I.E.3. and a copy of the LOT for a period of at least five years from the date that NYSDEC accepts a complete NOT submitted in accordance with Part V.

B. Reporting

Except for the eNOI, the signature forms associated with the eNOI, and the eNOT, all other written correspondence requested by NYSDEC, including individual permit applications, must be sent to the address of the appropriate DOW (SPDES) Program contact at the Regional Office listed in Appendix E.

Part VII. Standard Permit Requirements

For the purposes of this permit, examples of contractors and subcontractors include: third-party maintenance and construction contractors.

A. Duty to Comply

The *owner or operator*, and all contractors or subcontractors, must comply with all requirements of this permit. Any non-compliance with the requirements of this permit constitutes a violation of the New York State Environmental Conservation Law (ECL), and its implementing regulations, and is grounds for enforcement action. Filing of a request for termination of coverage under this permit, or a notification of planned changes or anticipated non-compliance, does not limit, diminish or stay compliance with any requirements of this permit.

B. Need to Halt or Reduce Activity Not a Defense

The necessity to halt or reduce the *construction activity* regulated by this permit, in order to maintain compliance with the requirements of this permit, must not be a defense in an enforcement action.

C. Penalties

There are substantial criminal, civil, and administrative penalties associated with violating the requirements of this permit. Fines of up to $37,500 per day for each

violation and imprisonment for up to 15 years may be assessed depending upon the nature and degree of the offense.

D. False Statements

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 monitoring reports or reports of compliance or noncompliance must, upon conviction, be punished in accordance with ECL §71-1933 and or New York State Penal Law Articles 175 and 210.

E. Re-Opener Clause

Upon issuance of this permit, a determination has been made on the basis of a submitted Notice of Intent, plans, or other available information, that compliance with the specified permit requirements will reasonably protect classified water use and assure compliance with applicable *water quality standards*. Satisfaction of the requirements of this permit notwithstanding, if operation pursuant to this permit causes or contributes to a condition in contravention of State *water quality standards* or guidance values, or if NYSDEC determines that a modification is necessary to prevent impairment of the best use of the waters or to assure maintenance of *water quality standards* or compliance with other provisions of ECL Article 17 or the Clean Water Act (CWA), or any regulations adopted pursuant thereto, NYSDEC may require such modification and the Commissioner may require abatement action to be taken by the *owner or operator* and may also prohibit such operation until the modification has been implemented.

F. Duty to Mitigate

The *owner or operator*, and its contractors and subcontractors, must 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.

G. Requiring Another General Permit or Individual SPDES Permit

NYSDEC may require any *owner or operator* authorized to *discharge* in accordance with this permit to apply for and obtain an individual SPDES permit or apply for authorization to *discharge* in accordance with another general SPDES permit.

1. Cases where an individual SPDES permit or authorization to discharge in accordance with another general SPDES permit may be required include, but is not limited to the following:

a. the *owner or operator* is not in compliance with the conditions of this permit or does not meet the requirements for coverage under this permit; and

b. a change has occurred in the availability of demonstrated technology or practices for the control or abatement of *pollutants* applicable to the *point source*; and

c. new effluent limitation guidelines or new source performance standards are promulgated that are applicable to *point sources* authorized to *discharge* in accordance with this permit; and

d. existing effluent limitation guidelines or new source performance standards that are applicable to *point sources* authorized to *discharge* in accordance with this permit are modified; and

e. a water quality management plan containing requirements applicable to such *point sources* is approved by NYSDEC; and

f. circumstances have changed since the time of the request to be covered so that the *owner or operator* is no longer appropriately controlled under this permit, or either a temporary or permanent reduction or elimination of the authorized *discharge* is necessary; and

g. the *discharge* is in violation of section 17-0501 of the ECL; and

h. the *discharge(s)* is a significant contributor of *pollutants*. In making this determination, NYSDEC may consider the following factors:

   i. the location of the *discharge(s)* with respect to *surface waters of the State*; and

   ii. the size of the *discharge(s)*; and

   iii. the quantity and nature of the *pollutants discharged* to *surface waters of the State*; and

   iv. other relevant factors including compliance with other provisions of ECL Article 17, or the CWA.

2. When NYSDEC requires any *owner or operator* authorized by this permit to apply for an individual SPDES permit as provided for in this subdivision, it must notify the *owner or operator* in writing that a permit application is required. This notice must include a brief statement of the reasons for this decision, an application

form, a statement setting a time for the *owner or operator* to file the application for an individual SPDES permit, and a deadline, not sooner than 180 days from the *owner's or operator's* receipt of the notification letter, whereby the authorization to *discharge* under this permit must be terminated. NYSDEC may grant additional time upon demonstration, to the satisfaction of the RWE,[6] that additional time to apply for an alternative authorization is necessary or where NYSDEC has not provided a permit determination in accordance with 6 NYCRR Part 621.

3. When an individual SPDES permit is issued to an *owner or operator* authorized to *discharge* under this permit for the same *discharge(s)*, this permit authorization for *construction activities* authorized under the individual SPDES permit is automatically terminated on the effective date of the individual SPDES permit unless termination is earlier in accordance with 6 NYCRR Part 750.

H. Duty to Provide Information

The *owner or operator* must furnish to NYSDEC, within five business days, unless otherwise set forth by NYSDEC, any information that NYSDEC may request to determine whether cause exists to determine compliance with this permit or to determine whether cause exists for requiring an individual SPDES permit in accordance with 6 NYCRR 750-1.21(e) (see Part VII.G. Requiring Another General Permit or Individual Permit).

The *owner or operator* must make available to NYSDEC, for inspection and copying, or furnish to NYSDEC within 25 business days of receipt of a NYSDEC request for such information, any information retained in accordance with this permit.

Except for Part I.D.4. and 5. and Part I.G., the following applies: where the *owner or operator* becomes aware that it failed to submit any relevant facts on the Notice of Intent, or submitted incorrect information in a Notice of Intent or in any report to NYSDEC, the *owner or operator* must submit such facts or corrected information to NYSDEC within five business days.

I. Extension

In the event a new permit is not issued and effective prior to the expiration of this permit, and this permit is extended pursuant to the State Administrative Procedure Act and 6 NYCRR Part 621, then the *owner or operator* with coverage under this permit may continue to operate and *discharge* in accordance with the requirements of this permit until a new permit is issued and effective.

[6] The Regional Water Manager where a DEC Region does not have a RWE.

J. Signatories and Certification

The Notice of Intent, Notice of Termination, and reports required by this permit must be signed as provided in 40 CFR §122.22.

1. All Notices of Intent and Notices of Termination must be signed as follows:

   a. For a corporation. 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 Notice of Intent or Notice of Termination requirements; and where authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures.

   Note: NYSDEC does not require specific assignments or delegations of authority to responsible corporate officers identified in 40 CFR §122.22(a)(1)(i). NYSDEC will presume that these responsible corporate officers have the requisite authority to sign the Notice of Intent or Notice of Termination unless the corporation has notified NYSDEC to the contrary. Corporate procedures governing authority to sign a Notice of Intent or Notice of Termination may provide for assignment or delegation to applicable corporate positions under 40 CFR §122.22(a)(1)(ii) rather than to specific individuals.

   b. For a partnership or sole proprietorship. By a general partner or the proprietor, respectively.

c. For a municipality, State, Federal, or other public agency. By either a principal executive officer or ranking elected official. For purposes of this section, a principal executive officer of a Federal agency includes:

   1. the chief executive officer of the agency; or

   2. 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. All reports required by this permit, and other information requested by NYSDEC, must be signed by a person described in Part VII.J.1., 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.J.1. or using the Duly Authorized Form, found on the DEC website; and

   b. The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity, 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 is submitted to NYSDEC.

3. Changes to authorization. If an authorization under Part VII.J.2. is no longer accurate because a different individual or position has responsibility for the overall operation of the *construction activity*, a new authorization satisfying the requirements of Part VII.J.2. must be submitted to NYSDEC prior to or together with any reports, information, or applications to be signed by an authorized representative.

4. Certification. Any person signing a document under Part VII.J.1. or 2. must make the following certification:

   I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who

   manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

5. Electronic reporting. If documents described in Part VII.J.1. or 2. are submitted electronically by or on behalf of the *construction activity* with coverage under this permit, any person providing the electronic signature for such documents must meet all relevant requirements of this section, and must ensure that all of the relevant requirements of 40 CFR Part 3 (including, in all cases, subpart D to Part 3) (Cross-Media Electronic Reporting) and 40 CFR Part 127 (NPDES Electronic Reporting Requirements) are met for that submission.

K. Inspection and Entry

The *owner or operator* must allow NYSDEC, the USEPA Regional Administrator, the applicable county health department, or any authorized representatives of those entities, 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 requirements of this permit; and

2. have access to and copy at reasonable times, any records that must be kept under the requirements of this permit, including records required to be maintained for purposes of operation and maintenance; and

3. inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices or operations regulated or required under this permit; and

4. sample or monitor at reasonable times, for the purposes of assuring general SPDES permit compliance or as otherwise authorized by the CWA or ECL, any substances or parameters at any location; and

5. enter upon the property of any contributor to the regulated facility or activity under authority of the *owner or operator*.

L. Confidentiality of Information

The following must not be held confidential: this permit, the fact sheet for this permit, the name and address of any *owner or operator*, effluent data, the Notice of Intent, and information regarding the need to obtain an individual permit or an alternative general SPDES permit. This includes information submitted on forms themselves and any attachments used to supply information required by the forms (except information submitted on usage of substances). Upon the request of the *owner or operator*, NYSDEC must make determinations of confidentiality in accordance with 6 NYCRR Part 616, except as set forth in the previous sentence. Any information accorded confidential status must be disclosed to the Regional Administrator upon his or her written request. Prior to disclosing such information to the Regional Administrator, NYSDEC will notify the Regional Administrator of the confidential status of such information.

M. Other Permits May Be Required

Nothing in this permit relieves the *owner or operator* from a requirement to obtain any other permits required by law.

N. NYSDEC Orders or Civil Decrees/Judgments

The issuance of this permit by the NYSDEC, and the coverage under this permit by the *owner or operator*, does not supersede, revoke, or rescind any existing order on consent or civil Decree/Judgment, or modification to any such documents or to any order issued by the Commissioner, or any of the terms, conditions, or requirements contained in such order or modification therefore, unless expressly noted.

O. Property Rights

Coverage under this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State, or local laws or regulations, nor does it obviate the necessity of obtaining the assent of any other jurisdiction as required by law for the *discharge* authorized.

P. Compliance with Interstate Standards

If the *construction activity* covered by this permit originates within the jurisdiction of an interstate water pollution control agency, then the *construction activity* must also comply with any applicable effluent standards or *water quality standards* promulgated by that interstate agency and as set forth in this permit for such *construction activities*.

Q. Oil and Hazardous Substance Liability

Coverage under this permit does not affect the imposition of responsibilities upon, or the institution of any legal action against, the *owner or operator* under section 311 of the CWA, which must be in conformance with regulations promulgated pursuant to section 311 governing the applicability of section 311 of the CWA to *discharges* from facilities with *NPDES* permits, nor must such issuance preclude the institution of any legal action or relieve the *owner or operator* from any responsibilities, liabilities, or penalties to which the *owner or operator* is or may be subject pursuant to the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. section 9601 et seq. (CERCLA).

R. 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, must not be affected thereby.

S. NYSDEC Approved Forms

The *owner or operator* must provide all relevant information that is requested by NYSDEC, and required by this permit, on all NYSDEC approved forms.

APPENDIX A – Abbreviations and Definitions

Abbreviations

APO – Agency Preservation Officer
BB – New York State Standards and Specifications for Erosion and Sediment Control (Blue Book), dated November 2016
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)
DM – New York State Stormwater Management Design Manual (Design Manual), dated July 31, 2024
DOW – Division of Water
EAF – Environmental Assessment Form
ECL – chapter 43-B of the Consolidated Laws of the State of New York, entitled the 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
NYC – The City of New York
NYCDEP – The City of New York Department of Environmental Protection
NYSDEC – The New York State Department of Environmental Conservation
OPRHP – Office of Parks, Recreation and Historic Places
Qf – Extreme Flood
Qp – Overbank Flood
RR – Runoff Reduction
RRv – Runoff Reduction Volume
RWE – Regional Water Engineer
SEQR – State Environmental Quality Review Act
SHPA – State Historic Preservation Act
SMP – Post-Construction Stormwater Management Practice
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

All definitions in this section are solely for the purposes of this permit. If a word is not italicized in the permit, use its common definition.

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, or as a place used by the public.

Agricultural Property – the land for construction of a barn, *agricultural building*, silo, stockyard, pen or other structural practices identified in Table II in the "Agricultural Best Management Practice Systems Catalogue" (dated June 2023).

Alter Hydrology from Pre- to Post-Development Conditions – 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 System – a sewer system which conveys sewage and *stormwater* through a single pipe system to a publicly owned treatment works.

Commence (Commencement of) Construction Activities – 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.

Common Plan of Development or Sale – a contiguous area where multiple separate and distinct *construction activities* are occurring, or may occur, under one plan. The "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 (SEQR) environmental assessment form or other documents, zoning request, computer design, etc.) or physical demarcation (including boundary signs, lot stakes, surveyor markings, etc.) indicating *construction activities* may occur on a specific plot. A *common plan of development or sale* is comprised of two or more *phases*.

Common plan of development or sale does not include separate and distinct *construction activities* that are occurring, or may occur, under one plan that are at least 1/4 mile apart provided any interconnecting road, pipeline or utility project that is part of the same "common plan" is not concurrently being disturbed.

Construction Activity(ies) – identified within 40 CFR 122.26(b)(14)(x), 122.26(b)(15)(i), and 122.26(b)(15)(ii), any clearing, grading, excavation, filling, demolition or stockpiling activities that result in soil disturbance. Clearing activities can include, but are not limited to, mechanized 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, which is excluded from the calculation of the soil disturbance for a project. Routine maintenance includes, but is not limited to:

- Re-grading of gravel roads or parking lots; and
- Cleaning and shaping of existing roadside ditches and culverts that maintains the approximate original line and grade, and maintains or improves the hydraulic capacity of the ditch; and
- Replacement of existing culverts that maintains the approximate original line and grade, and maintains or improves the hydraulic capacity of a ditch; and
- Replacement of existing bridges that maintains the approximate original line and grade, and maintains or improves the hydraulic capacity beneath the bridges; and
- 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); and
- Placement of aggregate shoulder backing that stabilizes the transition between the road shoulder and the ditch or *embankment*; and
- 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; and
- Long-term use of equipment storage areas at or near highway maintenance facilities; and
- 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*; and
- Existing use of Canal Corp owned upland disposal sites for the canal, and
- Replacement of curbs, gutters, sidewalks and guide rail posts; and
- Maintenance of ski trails including brush hog use and mowing; and
- Above ground snowmaking pipe replacement; and
- Replacement of existing utility poles; etc.

Construction Site – the land area where *construction activity(ies)* will occur. See also the definitions for "*Commence (Commencement of) Construction Activities"* and "*Common Plan of Development or Sale."*

Dewatering – the act of draining rainwater and/or groundwater from building foundations, vaults or excavations/trenches.

Directly Discharge(s)(ing) (to a specific surface waterbody) – 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)(d) – any addition of any *pollutant* to waters of the State through an outlet or *point source*.

Embankment – an earthen or rock slope that supports a road/highway.

Equivalent (Equivalence) – 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 – 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.

Historic Property – 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) – all impermeable surfaces that cannot effectively infiltrate rainfall. This includes paved, concrete and compacted gravel surfaces (i.e. parking lots, driveways, roads, runways and sidewalks); building rooftops and miscellaneous impermeable structures such as patios, pools, and sheds.

Infeasible – not technologically possible, or not economically practicable and achievable considering best industry practices.

Minimize(ing)(ation) – 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 System (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):

1. owned or operated by a State, city, town, village, 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*; and

2. designed or used for collecting or conveying *stormwater*; and

3. which is not a *combined sewer system*; and

4. which is not part of a Publicly Owned Treatment Works (POTW) as defined at 40 CFR 122.2.

Natural Buffer(s) – an undisturbed area with natural cover running along a surface water (e.g. wetland, stream, river, lake, etc.).

New Development – 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.

Nonpoint Source(s) – 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 – flow events that exceed the capacity of the stream channel and spill out into the adjacent floodplain.

Owner or Operator – 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 requirements.

Performance Criteria – the six performance criteria for each group of SMPs in Chapters 5 and 6 of the technical standard, New York State Stormwater Management Design Manual (DM), dated July 31, 2024. These include feasibility, conveyance, pretreatment, treatment, landscaping, and maintenance. It does not include the *Sizing Criteria* (i.e. WQv, RRv, CPv, Qp and Qf) in Part I.C.2. of the permit.

Phase – a defined area in which *construction activities* are occurring or will occur separate from other defined area(s).

Point Source – 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(s) – 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 seq.

Qualified Inspector – 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 NYSDEC 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 NYSDEC endorsed training in proper erosion and sediment control principles from a Soil and Water Conservation District, or other NYSDEC 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 SMPs that include structural components, such as a dam for an impoundment, shall be performed by a licensed Professional Engineer.

Qualified Professional – 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 NYSDEC endorsed individual(s). Individuals preparing *SWPPPs* that require the SMP 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) – 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.).

Renewable Energy – electricity or thermal energy generated by renewable energy systems through use of the following technologies: solar thermal, photovoltaics, on land and offshore wind, hydroelectric, geothermal electric, geothermal ground source heat, tidal energy, wave energy, ocean thermal, and fuel cells which do not utilize a fossil fuel resource in the process of generating electricity.

Site Limitations – 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 – the criteria included in Part I.C.2 of the permit that are used to size SMPs. The criteria include; Water Quality Volume (WQv), Runoff Reduction Volume (RRv), Channel Protection Volume (Cpv), *Overbank* Flood (Qp), and Extreme Flood (Qf).

Steep Slope – land area designated on the current United States Department of Agriculture (USDA) Soil Survey as Soil Slope Phase D, (provided the map unit name or description 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.

Stormwater – that portion of precipitation that, once having fallen to the ground, is in excess of the evaporative or infiltrative capacity of soils, or the retentive capacity of surface features, which flows or will flow off the land by surface runoff to waters of the State.

Streambank – 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) – 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 SMPs); and identifies procedures the *owner or operator* will implement to comply with the requirements 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 – an existing disturbed area will not be disturbed again within 14 calendar days of the previous soil disturbance.

Temporary Stabilization – 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 Load (TMDL) – 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 and still meet *water quality standards*, and an allocation of that amount to the *pollutant's* sources. A TMDL stipulates Waste Load Allocations (WLA) for *point source discharges*, Load Allocations (LA) for *nonpoint sources*, and a margin of safety (MOS).

Traditional Land Use Control MS4 Operator – 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).

Trained Contractor – an employee from the contracting (construction) company, identified in Part III.A.7., that has received four (4) hours of NYSDEC endorsed training

in proper erosion and sediment control principles from a Soil and Water Conservation District, or other NYSDEC 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.7., 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 NYSDEC endorsed training in proper erosion and sediment control principles from a Soil and Water Conservation District, or other NYSDEC endorsed entity).

The *trained contractor* is responsible for the day-to-day implementation of the *SWPPP*.

Tree Clearing – *construction activities* limited to felling and removal of trees.

Tree clearing does not include hand felling and leaving the trees in place with no support from mechanized equipment, which is not considered *construction activity* requiring coverage under this permit.

Water Quality Standard – 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 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 D
- 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 D
- Construction of a barn or other *agricultural building*, silo, stock yard or pen.
- Structural agricultural conservation practices as identified in Table II in the "Agricultural Best Management Practice Systems Catalogue" (dated June 2023) that include construction or reconstruction of *impervious area* or *alter hydrology from pre- to post-development* conditions.

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 New York City Watershed located east of the Hudson River, see Appendix C Figure 1, that involve soil disturbances between five thousand (5,000) square feet and one (1) acre of land.

Within the municipal boundaries of NYC:

- Stand-alone road reconstruction, where the total soil disturbance from only that road construction, is less than one (1) acre of land.

The following *construction activities*:

- 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, *stormwater* retrofits, stream restoration, and resiliency projects that reconstruct shoreline areas to address sea level rise
- Pond construction
- Linear bike paths running through areas with vegetative cover, including bike paths surfaced with an *impervious cover*
- Cross-country ski trails, walking/hiking trails, and mountain biking trails, including a de minimis parking lot (maximum 10 spaces total, sized for passenger cars) with 35 feet minimum preservation of undisturbed area downgradient from the parking lot
- Dam rehabilitation (the structure of the dam itself)
- Sidewalks, bike paths, or walking paths, surfaced with an *impervious cover*, that are not part of residential, commercial, or institutional development;
- Sidewalks, bike paths, or walking paths, 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.

Table 1 (Continued)

Construction Activities that Require the Preparation of a *SWPPP* That Only Includes Erosion and Sediment Controls

The following *construction activities*:

- Slope stabilization
- Slope flattening that changes the grade of the site, but does not significantly change the runoff characteristics
- Spoil areas that will be covered with vegetation
- Vegetated open space (i.e. recreational parks, lawns, meadows, fields, downhill ski trails) that do not *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 where vegetation will be established, and no *redevelopment activity* is planned[1]
- Installation or replacement of either an overhead electric transmission line or a ski lift tower that does not include the construction of permanent access roads or parking areas surfaced with *impervious cover*.
- Solar array field areas that have tables elevated off the ground, spaced one table width apart, do not *alter hydrology from pre- to post-development conditions*, and address water quality volume and runoff reduction volume by maintaining sheet flow on slopes less than 8%.
- Structural agricultural conservation practices as identified in Table II in the "Agricultural Best Management Practice Systems Catalogue" (dated June 2023) that do not include construction or reconstruction of *impervious area* and do not *alter hydrology from pre- to post-development* conditions.
- 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 (in this context, "temporary" means the *impervious area* will be in place for two years or less)
- Other *construction activities* that do not include the construction or reconstruction of *impervious area*, and do not *alter hydrology from pre- to post-development* conditions, and are not listed in Table 2.

1. If the site is redeveloped in the future, a new eNOI must be submitted.

Table 2

Construction Activities that Require the Preparation of a *SWPPP* That Includes Post-construction Stormwater Management Practices (SMPs)

The following *construction activities*:

- 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 D
- 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 D
- 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 between 20,000 square feet and one (1) acre of land within the municipal boundaries of NYC 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 *common plan of development or sale* that will ultimately disturb five (5) or more acres of land
- Multi-family residential developments; includes duplexes, townhomes, condominiums, senior housing complexes, apartment complexes, and mobile home parks
- Creation of 5,000 square feet or more of *impervious area* in the municipal boundaries of NYC
- 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) that involves soil disturbance greater than five acres.
- Structural agricultural conservation practices as identified in Table II in the "Agricultural Best Management Practice Systems Catalogue" (dated June 2023) that involves soil disturbance greater than five acres and include the construction or reconstruction of *impervious area* or *alter hydrology from pre- to post-development* conditions.
- Facility buildings, including ski lodges, restroom buildings, pumphouses, ski lift terminals, and maintenance and groomer garages
- Institutional development; includes hospitals, prisons, schools and colleges
- Industrial facilities; includes industrial parks
- Landfills; including creation of landfills or capping landfills.
- Municipal facilities; includes highway garages, transfer stations, office buildings, POTWs, water treatment plants, and water storage tanks
- Golf courses
- Office complexes

Table 2 (Continued)

***CONSTRUCTION ACTIVITIES* THAT REQUIRE THE PREPARATION OF A *SWPPP* THAT INCLUDES POST-CONSTRUCTION STORMWATER MANAGEMENT PRACTICES (SMPS)**

The following *construction activities*:

- Permanent laydown yards and equipment storage lots
- Playgrounds that include the construction or reconstruction of *impervious area*
- Sports complexes
- Racetracks; includes racetracks with earthen (dirt) surfaces
- Road construction or reconstruction, outside the municipal boundaries of NYC
- Road construction within the municipal boundaries of NYC
- Stand-alone road reconstruction, within the municipal boundaries of NYC where the total soil disturbance from that road reconstruction involves soil disturbance of one (1) acre or more of land
- Parking lot construction or reconstruction (as with all Table 2 bullets, this includes parking lots constructed as part of the *construction activities* listed in Table 1, unless a Table 1 bullet specifies otherwise)
- 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 overhead electric transmission line, wind-power, cell tower, oil or gas well drilling, sewer or water main, ski lift, or other linear utility project
- Sidewalks, bike paths, or walking paths, surfaced with an *impervious cover*, that are part of a residential, commercial or institutional development
- Sidewalks, bike paths, or walking paths, surfaced with an *impervious cover*, that are part of highway construction or reconstruction
- Solar array field areas on slopes greater than 8% that cannot maintain sheet flow using management practices identified in the BB or the DM
- Solar array field areas on slopes less than 8% that will *alter the hydrology from pre- to post-development* conditions
- Solar array field areas with tables that are not elevated high enough to achieve *final stabilization* beneath the tables
- Traditional *impervious areas* associated with solar development (e.g. roads, buildings, transformers)
- Utility pads surfaced with *impervious cover*, including electric vehicle charging stations
- All other *construction activities* that include the construction or reconstruction of *impervious area* <u>or</u> *alter the hydrology from pre- to post-development* conditions, <u>and</u> 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 SMPs designed in conformance with the Enhanced Phosphorus Removal Standards included in the DM technical standard.

- 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

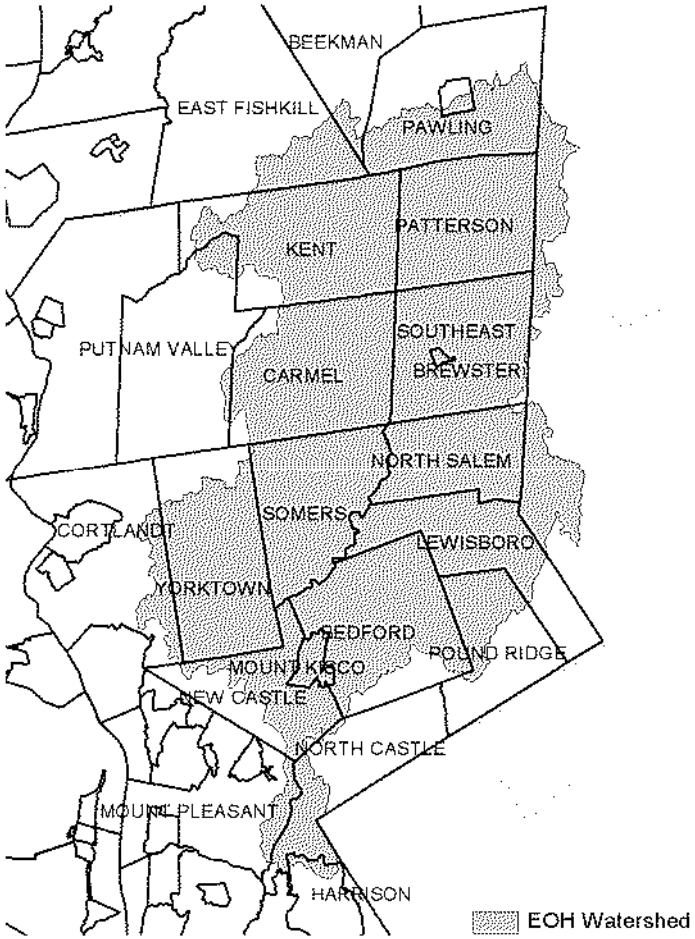


Figure 2 - Onondaga Lake Watershed

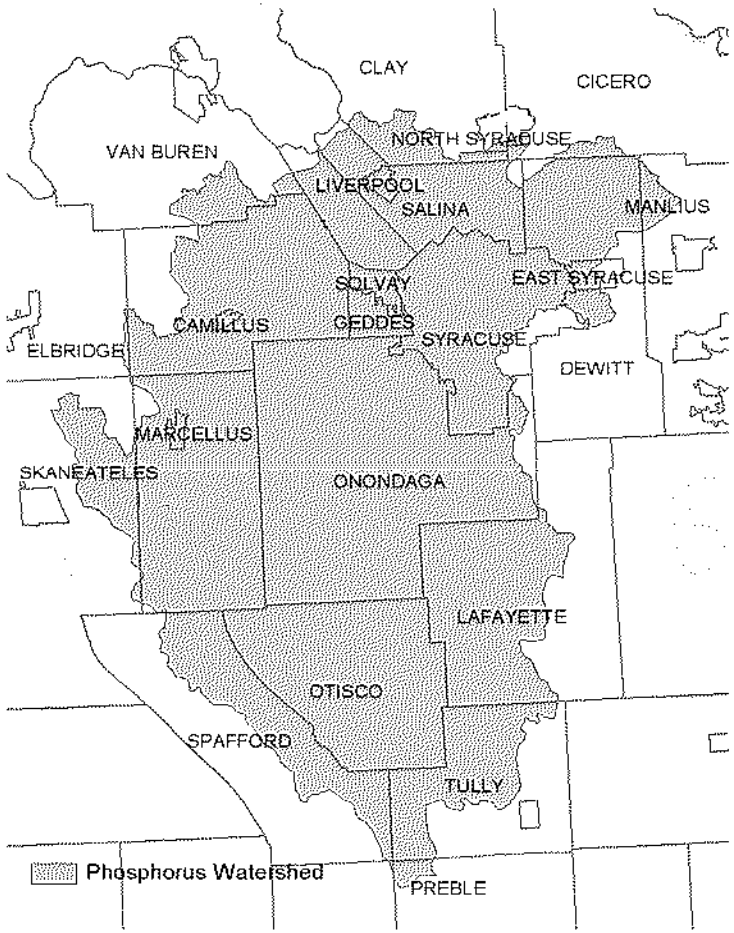
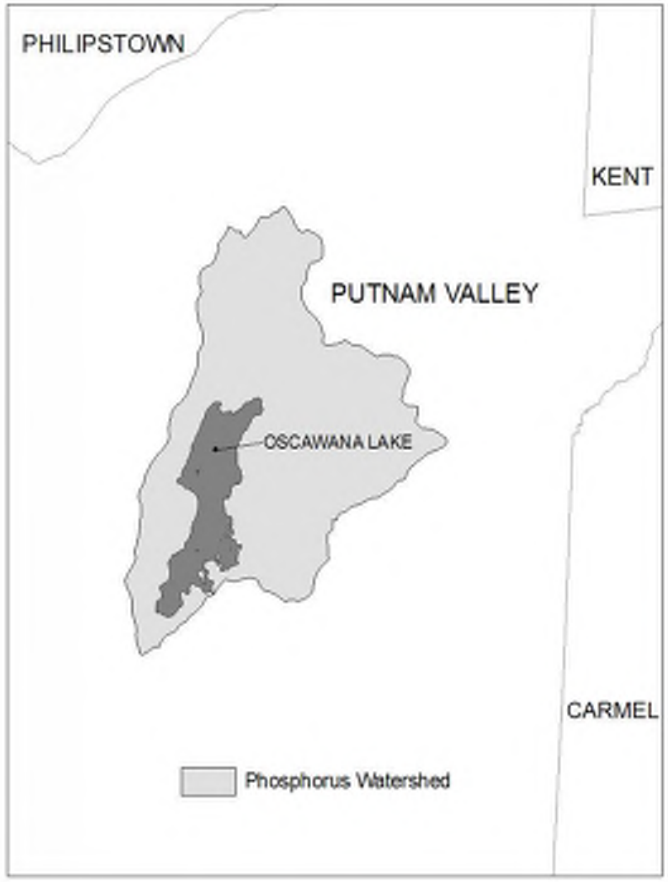


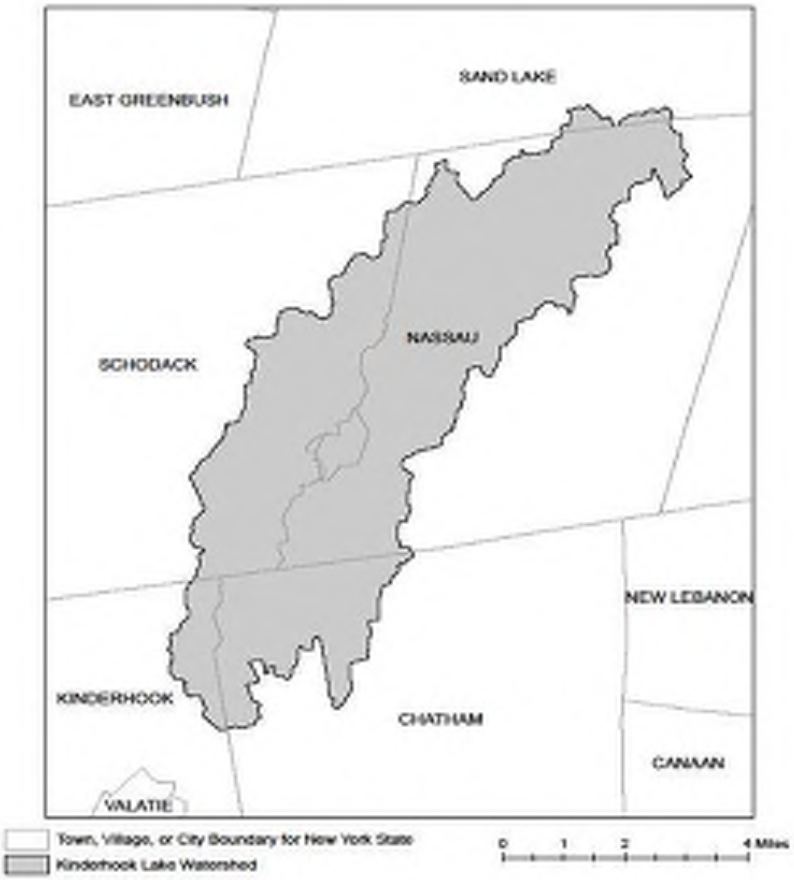
Figure 3 - Greenwood Lake Watershed

Figure 4 - Oscawana Lake Watershed



Appendix C

Figure 5 - Kinderhook Lake Watershed



APPENDIX D – Impaired Waterbodies (by Construction Related Pollutants)

List of waterbodies impaired by *pollutants* related to *construction activity*, including turbidity, silt/sediment, and nutrients (e.g. nitrogen, phosphorus). This list is a subset of "The Final New York State 2018 Section 303(d) List of Impaired Waters Requiring a TMDL" dated June 2020.

County	Waterbody	Pollutant
Albany	Ann Lee (Shakers) Pond, Stump Pond (1201-0096)	Phosphorus
Albany	Lawsons Lake (1301-0235)	Phosphorus
Allegany	Amity Lake, Saunders Pond (0403-0054)	Phosphorus
Allegany	Andover Pond (0403-0056)	Phosphorus
Bronx	Reservoir No.1/Lake Isle (1702-0075)	Phosphorus
Bronx	Van Cortlandt Lake (1702-0008)	Phosphorus
Broome	Blueberry, Laurel Lakes (1404-0033)	Phosphorus
Broome	Fly Pond, Deer Lake (1404-0038)	Phosphorus
Broome	Minor Tribs to Lower Susquehanna (0603-0044)	Phosphorus
Broome	Whitney Point Lake/Reservoir (0602-0004)	Phosphorus
Cattaraugus	Allegheny River/Reservoir (0201-0023)	Phosphorus
Cattaraugus	Beaver Lake/Alma Pond (0201-0073)	Phosphorus
Cattaraugus	Case Lake (0201-0020)	Phosphorus
Cattaraugus	Linlyco/Club Pond (0201-0035)	Phosphorus
Cayuga	Duck Lake (0704-0025)	Phosphorus
Cayuga	Owasco Inlet, Upper, and tribs (0706-0014)	Nutrients
Chautauqua	Chadakoin River and tribs (0202-0018)	Phosphorus
Chautauqua	Hulburt/Clymer Pond (0202-0079)	Phosphorus
Chautauqua	Middle Cassadaga Lake (0202-0002)	Phosphorus
Clinton	Great Chazy River, Lower, Main Stem (1002-0001)	Silt/Sediment
Columbia	Robinson Pond (1308-0003)	Phosphorus
Cortland	Dean Pond (0602-0077)	Phosphorus
Dutchess	Fallkill Creek (1301-0087)	Phosphorus
Dutchess	Hillside Lake (1304-0001)	Phosphorus
Dutchess	Wappingers Lake (1305-0001)	Phosphorus
Dutchess	Wappingers Lake (1305-0001)	Silt/Sediment
Erie	Beeman Creek and tribs (0102-0030)	Phosphorus
Erie	Delaware Park Pond (0101-0026)	Phosphorus
Erie	Ellicott Creek, Lower, and tribs (0102-0018)	Phosphorus
Erie	Ellicott Creek, Lower, and tribs (0102-0018)	Silt/Sediment
Erie	Green Lake (0101-0038)	Phosphorus
Erie	Little Sister Creek, Lower, and tribs (0104-0045)	Phosphorus
Erie	Murder Creek, Lower, and tribs (0102-0031)	Phosphorus

Erie	Rush Creek and tribs (0104-0018)	Phosphorus
Erie	Scajaquada Creek, Lower, and tribs (0101-0023)	Phosphorus
Erie	Scajaquada Creek, Middle, and tribs (0101-0033)	Phosphorus
Erie	Scajaquada Creek, Upper, and tribs (0101-0034)	Phosphorus
Erie	South Branch Smoke Cr, Lower, and tribs (0101-0036)	Phosphorus
Erie	South Branch Smoke Cr, Lower, and tribs (0101-0036)	Silt/Sediment
Genesee	Bigelow Creek and tribs (0402-0016)	Phosphorus
Genesee	Black Creek, Middle, and minor tribs (0402 0028)	Phosphorus
Genesee	Black Creek, Upper, and minor tribs (0402-0048)	Phosphorus
Genesee	Bowen Brook and tribs (0102-0036)	Phosphorus
Genesee	LeRoy Reservoir (0402-0003)	Phosphorus
Genesee	Mill Pond (0402-0050)	Phosphorus
Genesee	Oak Orchard Cr, Upper, and tribs (0301-0014)	Phosphorus
Genesee	Oatka Creek, Middle, and minor tribs (0402-0031)	Phosphorus
Genessee	Tonawanda Cr, Middle, Main Stem (0102-0002)	Phosphorus
Greene	Schoharie Reservoir (1202-0012)	Silt/Sediment
Greene	Sleepy Hollow Lake (1301-0059)	Silt/Sediment
Herkimer	Steele Creek tribs (1201-0197)	Phosphorus
Herkimer	Steele Creek tribs (1201-0197)	Silt/Sediment
Kings	Hendrix Creek (1701-0006) 18	Nitrogen
Kings	Prospect Park Lake (1701-0196)	Phosphorus
Lewis	Mill Creek/South Branch, and tribs (0801-0200)	Nutrients
Livingston	Christie Creek and tribs (0402-0060)	Phosphorus
Livingston	Conesus Lake (0402-0004)	Phosphorus
Livingston	Mill Creek and minor tribs (0404-0011)	Silt/Sediment
Monroe	Black Creek, Lower, and minor tribs (0402-0033)	Phosphorus
Monroe	Buck Pond (0301-0017)	Phosphorus
Monroe	Cranberry Pond (0301-0016)	Phosphorus
Monroe	Durand, Eastman Lakes (0302-0037)	Phosphorus
Monroe	Lake Ontario Shoreline, Western (0301-0069) 9	Phosphorus
Monroe	Long Pond (0301-0015)	Phosphorus
Monroe	Mill Creek and tribs (0302-0025)	Phosphorus 2
Monroe	Mill Creek/Blue Pond Outlet and tribs (0402-0049)	Phosphorus
Monroe	Minor Tribs to Irondequoit Bay (0302-0038)	Phosphorus
Monroe	Rochester Embayment - East (0302-0002) [9]	Phosphorus
Monroe	Rochester Embayment - West (0301-0068) 9	Phosphorus
Monroe	Shipbuilders Creek and tribs (0302-0026)	Phosphorus 2
Monroe	Thomas Creek/White Brook and tribs (0302-0023)	Phosphorus

Nassau	Bannister Creek/Bay (1701-0380)	Nitrogen
Nassau	Beaver Lake (1702-0152)	Phosphorus
Nassau	Browswere Bay (1701-0383)	Nitrogen
Nassau	Camaans Pond (1701-0052)	Phosphorus
Nassau	East Meadow Brook, Upper, and tribs (1701-0211)	Silt/Sediment
Nassau	East Rockaway Channel (1701-0381)	Nitrogen
Nassau	Glen Cove Creek, Lower, and tribs (1702-0146)	Silt/Sediment
Nassau	Grant Park Pond (1701-0054)	Phosphorus
Nassau	Hempstead Bay, Broad Channel (1701-0032)	Nitrogen
Nassau	Hempstead Lake (1701-0015)	Phosphorus
Nassau	Hewlett Bay (1701-0382)	Nitrogen
Nassau	Hog Island Channel (1701-0220)	Nitrogen
Nassau	Massapequa Creek, Upper, and tribs (1701-0174)	Phosphorus
Nassau	Milburn/Parsonage Creeks, Upp, and tribs (1701-0212)	Phosphorus
Nassau	Reynolds Channel, East (1701-0215) [12]	Nitrogen
Nassau	Reynolds Channel, West (1701-0216) 12	Nitrogen
Nassau	Tidal Tribs to Hempstead Bay (1701-0218)	Nitrogen
Nassau	Tribs (fresh) to East Bay (1701-0204)	Silt/Sediment
Nassau	Tribs (fresh) to East Bay (1701-0204)	Phosphorus
Nassau	Tribs to Smith Pond/Halls Pond (1701-0221)	Phosphorus
Nassau	Woodmere Channel (1701-0219)	Nitrogen
New York	Harlem Meer (1702-0103)	Phosphorus
New York	The Lake in Central Park (1702-0105)	Phosphorus
Niagara	Bergholtz Creek and tribs (0101-0004)	Phosphorus
Niagara	Hyde Park Lake (0101-0030)	Phosphorus
Niagara	Lake Ontario Shoreline, Western (0301-0053) 9	Phosphorus
Niagara	Lake Ontario Shoreline, Western (0301-0072) 9	Phosphorus
Oneida	Ballou, Nail Creeks (1201-0203)	Phosphorus
Onondaga	Ley Creek and tribs (0702-0001) 10	Nutrients (phosphorus)
Onondaga	Minor Tribs to Onondaga Lake (0702-0022) 10	Nutrients (phosphorus)
Onondaga	Minor Tribs to Onondaga Lake (0702-0022) 10	Nitrogen (NH3, NO2)
Onondaga	Onondaga Creek, Lower (0702-0023) 10	Nutrients (phosphorus)
Onondaga	Onondaga Creek, Lower, and tribs (0702-0023)	Turbidity
Onondaga	Onondaga Creek, Middle, and tribs (0702-0004)	Turbidity
Onondaga	Onondaga Creek, Upper, and tribs (0702-0024)	Turbidity
Ontario	Great Brook and minor tribs (0704-0034)	Phosphorus 2
Ontario	Great Brook and minor tribs (0704-0034)	Silt/Sediment

Ontario	Hemlock Lake Outlet and minor tribs (0402-0013)	Phosphorus
Ontario	Honeoye Lake (0402-0032)	Phosphorus
Orange	Brown Pond Reservoir (1303-0013)	Phosphorus
Orange	Lake Washington (1303-0012)	Phosphorus
Orange	Minor Tribs to Middle Wallkill (1306-0061)	Phosphorus
Orange	Monhagen Brook and tribs (1306-0074)	Phosphorus
Orange	Orange Lake (1301-0008) [16]	Phosphorus
Orange	Quaker Creek and tribs (1306-0025)	Phosphorus
Orange	Wallkill River, Middle, Main Stem (1306-0038)	Phosphorus
Orange	Wallkill River, Upper, and Minor tribs (1306-0017)	Phosphorus
Orleans	Glenvwood Lake (0301-0041)	Phosphorus
Orleans	Lake Ontario Shoreline, Western (0301-0070) 9	Phosphorus
Orleans	Lake Ontario Shoreline, Western (0301-0071) 9	Phosphorus
Oswego	Lake Neatahwanta (0701-0018)	Nutrients (phosphorus)
Oswego	Pleasant Lake (0703-0047)	Phosphorus
Putnam	Lost Lake, Putnam Lake (1302-0053)	Phosphorus
Putnam	Minor Tribs to Croton Falls Reservoir (1302-0001)	Phosphorus
Queens	Bergen Basin (1701-0009) 18	Nitrogen
Queens	Jamaica Bay, Eastern, and tribs, Queens (1701-0005) 18	Nitrogen
Queens	Kissena Lake (1702-0258)	Phosphorus
Queens	Meadow Lake (1702-0030)	Phosphorus
Queens	Shellbank Basin (1701-0001) 18	Nitrogen
Queens	Willow Lake (1702-0031)	Phosphorus
Rensselaer	Nassau Lake (1310-0001)	Phosphorus
Rensselaer	Snyders Lake (1301-0043)	Phosphorus
Richmond	Grassmere Lake/Bradys Pond (1701-0357)	Phosphorus
Rockland	Congers Lake, Swartout Lake (1501-0019)	Phosphorus
Rockland	Rockland Lake (1501-0021)	Phosphorus
Saratoga	Ballston Lake (1101-0036)	Phosphorus
Saratoga	Dwaas Kill and tribs (1101-0007)	Phosphorus
Saratoga	Dwaas Kill and tribs (1101-0007)	Silt/Sediment
Saratoga	Lake Lonely (1101-0034)	Phosphorus
Saratoga	Round Lake (1101-0060)	Phosphorus
Saratoga	Tribs to Lake Lonely (1101-0001)	Phosphorus
Schenectady	Collins Lake (1201-0077)	Phosphorus
Schenectady	Duane Lake (1311-0006)	Phosphorus
Schenectady Lake	Mariaville Lake (1201-0113)	Phosphorus
Schuyler	Cayuta Lake (0603-0005)	Phosphorus

Seneca	Reeder Creek and tribs (0705-0074)	Phosphorus
St.Lawrence	Black Lake Outlet, Black Lake (0906-0001)	Phosphorus
St.Lawrence	Fish Creek and minor tribs (0906-0026)	Phosphorus
Steuben	Smith Pond (0502-0012)	Phosphorus
Suffolk	Agawam Lake (1701-0117)	Phosphorus
Suffolk	Big/Little Fresh Ponds (1701-0125)	Phosphorus
Suffolk	Canaan Lake (1701-0018)	Phosphorus
Suffolk	Canaan Lake (1701-0018)	Silt/Sediment
Suffolk	Fresh Pond (1701-0241)	Phosphorus
Suffolk	Great South Bay, East (1701-0039)	Nitrogen
Suffolk	Great South Bay, Middle (1701-0040)	Nitrogen
Suffolk	Great South Bay, West (1701-0173)	Nitrogen
Suffolk	Lake Ronkonkoma (1701-0020)	Phosphorus
Suffolk	Mattituck/Marratooka Pond (1701-0129)	Phosphorus
Suffolk	Mill and Seven Ponds (1701-0113)	Phosphorus
Suffolk	Millers Pond (1702-0013)	Phosphorus
Suffolk	Moriches Bay, East (1701-0305)	Nitrogen
Suffolk	Moriches Bay, West (1701-0038)	Nitrogen
Suffolk	Quantuck Bay (1701-0042)	Nitrogen
Suffolk	Shinnecock Bay and Inlet (1701-0033)	Nitrogen
Suffolk	Tidal Tribs to West Moriches Bay (1701-0312)	Nitrogen
Sullivan	Bodine, Mongomery Lakes (1401-0091)	Phosphorus
Sullivan	Davies Lake (1402-0047)	Phosphorus
Sullivan	Evens Lake (1402-0004)	Phosphorus
Sullivan	Pleasure Lake (1402-0055)	Phosphorus
Sullivan	Swan Lake (1401-0063)	Phosphorus
Tompkins	Cayuga Lake, Southern End (0705-0040)	Phosphorus
Tompkins	Cayuga Lake, Southern End (0705-0040)	Silt/Sediment
Ulster	Ashokan Reservoir (1307-0004)	Silt/Sediment
Ulster	Esopus Creek, Lower, Main Stem (1307-0010) [17]	Turbidity
Ulster	Esopus Creek, Middle, Main Stem (1307-0003) 17	Turbidity
Ulster	Esopus Creek, Upper, and minor tribs (1307-0007)[3]	Silt/Sediment
Ulster	Wallkill River, Lower, Main Stem (1306-0027)	Phosphorus
Warren	Hague Brook and tribs (1006-0006)	Silt/Sediment
Warren	Huddle/Finkle Brooks and tribs (1006-0003)	Silt/Sediment
Warren	Indian Brook and tribs (1006-0002)	Silt/Sediment
Warren	Lake George (1006-0016) and tribs	Silt/Sediment
Warren	Tribs to Lake George, East Shore (1006-0020)	Silt/Sediment
Warren	Tribs to Lake George, Lk.George Village (1006-0008)	Silt/Sediment

Washington	Wood Cr/Champlain Canal and tribs (1005-0036)	Phosphorus
Westchester	Lake Katonah (1302-0136)	Phosphorus
Westchester	Lake Lincolndale (1302-0089)	Phosphorus
Westchester	Lake Meahagh (1301-0053)	Phosphorus
Westchester	Lake Mohegan (1301-0149)	Phosphorus
Westchester	Lake Shenorock (1302-0083)	Phosphorus
Westchester	Mamaroneck River, Lower (1702-0071)	Silt/Sediment
Westchester	Mamaroneck River, Upp, & minor tribs (1702-0123)	Silt/Sediment
Westchester	Saw Mill River (1301-0007)	Phosphorus
Westchester	Saw Mill River, Middle, and tribs (1301-0100)	Phosphorus
Westchester	Sheldrake River (1702-0069)	Phosphorus
Westchester	Sheldrake River (1702-0069)	Silt/Sedimnt
Westchester	Silver Lake (1702-0040)	Phosphorus
Westchester	Teatown Lake (1302-0150)	Phosphorus
Westchester	Truesdale Lake (1302-0054)	Phosphorus
Westchester	Wallace Pond (1301-0140)	Phosphorus

APPENDIX E – List of NYSDEC 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	220 White Plains Road, Suite 110 Tel. (914) 428 - 2505
4	Albany, Columbia, Delaware, Greene, Montgomery, Otsego, Rensselaer, Schenectady and Schoharie	1130 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	5786 WIDEWATERS PARKWAY SYRACUSE, NY 13214-1867 TEL. (315) 426-7438	5786 WIDEWATERS PARKWAY SYRACUSE, NY 13214-1867 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	700 DELAWARE AVENUE BUFFALO, NY 14209-2999 TEL. (716) 851-7165	700 DELAWARE AVENUE BUFFALO, NY 14209-2999 TEL. (716) 851-7070

APPENDIX F – SWPPP Preparer Certification Form

The SWPPP Preparer Certification Form required by this permit begins on the following page.

SWPPP Preparer Certification Form

SPDES General Permit for Stormwater Discharges from Construction Activity, GP-0-25-001 (CGP)

(In accordance with CGP Part I.D.2.b., the completed form must be attached to the eNOI and submitted to NYSDEC electronically.)

Project/Site Name:

eNOI Submission ID:

Owner/Operator Name:

Certification Statement – SWPPP Preparer

I hereby certify that the Stormwater Pollution Prevention Plan (SWPPP) has been prepared in accordance with the requirements of GP-0-25-001. I certify under penalty of law that the SWPPP and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

SWPPP Preparer First Name | MI | SWPPP Preparer Last Name

Signature | Date

Revised: January 2025

APPENDIX G – MS4 SWPPP Acceptance Form

The MS4 SWPPP Acceptance Form required by this permit begins on the following page.

NEW YORK STATE | Department of Environmental Conservation

MS4 SWPPP Acceptance Form

for construction activities seeking authorization under the

SPDES General Permit for Stormwater Discharges from Construction Activity, GP-0-25-001 (CGP)

(In accordance with CGP Part I.D.2.b., the completed form must be attached to the eNOI and submitted to NYSDEC electronically.)

I. Project Owner/Operator Information
1. Owner/Operator Name:
2. Contact Person:
3. Street Address:
4. City/State/Zip:
II. Project Site Information
5. Project/Site Name:
6. Street Address:
7. City/State/Zip:
III. Stormwater Pollution Prevention Plan (SWPPP) Review and Acceptance Information
8. SWPPP Reviewed by:
9. Title/Position:
10. Date Final SWPPP Reviewed and Accepted:
IV. Regulated MS4 Information
11. Name of MS4 Operator:
12. MS4 SPDES Permit Identification Number: NYR20A
13. Street Address:
14. City/State/Zip:
15. Telephone Number:

MS4 SWPPP Acceptance Form - continued
V. Certification Statement - MS4 Official (principal executive officer or ranking elected official) or Duly Authorized Representative
I hereby certify that the final Stormwater Pollution Prevention Plan (SWPPP) for the construction project identified in section II. of this form has been reviewed and meets the substantive requirements in the SPDES General Permit for Stormwater Discharges from Construction Activity, GP-0-25-001 (CGP). Note: The MS4 Operator, through the acceptance of the SWPPP, assumes no responsibility for the accuracy and adequacy of the design included in the SWPPP. In addition, review and acceptance of the SWPPP by the MS4 Operator does not relieve the owner/operator or their SWPPP preparer of responsibility or liability for errors or omissions in the plan.
Printed Name[1]:
Title/Position:
Signature:
Date:
VI. Additional Information

[1] Printed name of the principal executive officer or ranking elected official for the MS4 Operator or their duly authorized representative in accordance with CGP Part VII.J.2.

(NYSDEC - MS4 SWPPP Acceptance Form - January 2025)

APPENDIX H – NYCDEP SWPPP Acceptance/Approval Form

The City of New York Department of Environmental Protection (NYCDEP) SWPPP Acceptance/Approval form required by this permit begins on the following page.

THE CITY OF NEW YORK
DEPARTMENT OF ENVIRONMENTAL PROTECTION
Bureau of Environmental Planning and Analysis
59-17 Junction Blvd., 9th Floor; Flushing, NY 11373

SWPPP Acceptance/Approval

Application Number:

I. Project Owner/Operator Information

1. Owner/Operator Name:
2. Contact Person:
3. Street Address:
4. City/State/Zip:

II. Project Site Information

5. Project/Site Name:
6. Street Address:
7. City/State/Zip:

III. Stormwater Pollution Prevention Plan (SWPPP) Review and Acceptance/Approval

8. SWPPP Reviewed by:
9. Title/Position: /
10. Date Final SWPPP Reviewed and Accepted:
11. Acceptance/Approval Expiration Date:

IV. Regulated MS4 Information for projects that require coverage under the NY State Pollution Discharge Elimination System General Permit for Stormwater Discharges from Construction Activity

12. Name of MS4: *CITY OF NEW YORK*
13. MS4 SPDES Permit Identification Number: *NY-0287890*
14. Contact Person:
15. Street Address: *59-17 Junction Blvd. 9th Floor*
16. City/State/Zip: *Flushing, NY 11373*
17. Telephone Number:

Projects in the MS4 area must submit a copy of this SWPPP Acceptance with a Notice of Intent for coverage under the NY SPDES General Permit for Stormwater Discharges from Construction Activity to: NYS Department of Environmental Conservation, Division of Water; 625 Broadway, 4th Floor; Albany, New York 12233-3505.

THE CITY OF NEW YORK
DEPARTMENT OF ENVIRONMENTAL PROTECTION
Bureau of Environmental Planning and Analysis
59-17 Junction Blvd., 9th Floor; Flushing, NY 11373

V. Certification Statement - MS4 Official (principal executive officer or ranking elected official) or Duly Authorized Representative

I hereby certify that the final Stormwater Pollution Prevention Plan (SWPPP) for the construction project identified in question 5 has been reviewed and meets the substantive requirements in the SPDES General Permit For Stormwater Discharges from Municipal Separate Storm Sewer Systems (MS4s).

Note: The MS4, through the acceptance of the SWPPP, assumes no responsibility for the accuracy and adequacy of the design included in the SWPPP. In addition, review and acceptance of the SWPPP by the MS4 does not relieve the owner/operator or their SWPPP preparer of responsibility or liability for errors or omissions in the plan.

Printed Name:

Title/Position:

Signature:

Date:

VI. Conditions of Acceptance/Approval and Additional Information

Projects in the MS4 area must submit a copy of this SWPPP Acceptance with a Notice of Intent for coverage under the NY SPDES General Permit for Stormwater Discharges from Construction Activity to: NYS Department of Environmental Conservation, Division of Water; 625 Broadway, 4th Floor; Albany, New York 12233-3505.

APPENDIX I – MS4 No Jurisdiction Form

The MS4 No Jurisdiction Form required by this permit begins on the following page.

NEW YORK STATE | Department of Environmental Conservation

MS4 No Jurisdiction Form

for construction activities seeking authorization under the

SPDES General Permit for Stormwater Discharges from Construction Activity, GP-0-25-001 (CGP)

(In accordance with CGP Part I.D.2.b., the completed form must be attached to the eNOI and submitted to NYSDEC electronically.)

I. Project Owner/Operator Information

a. Owner/Operator Name:

b. Contact Person:

c. Street Address:

d. City/State/Zip:

II. Project Site Information

a. Project/Site Name:

b. Street Address:

c. City/State/Zip:

d. eNOI Submission ID:

III. Traditional Land Use Control MS4 Operator Information

a. Name of MS4 Operator:

b. MS4 SPDES Permit ID Number: NYR20A

c. Street Address:

d. City/State/Zip:

e. Telephone Number:

IV. Certification Statement

In accordance with CGP Part I.D.2.b.ii.3., I hereby certify that the Traditional Land Use Control MS4 Operator identified in section III. of this form does not have review authority over the construction project identified in section II. of this form, which is owned/operated by the entity identified in section I. of this form. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

a. Printed name of the principal executive officer or ranking elected official for the MS4 Operator or their duly authorized representative in accordance with CGP Part VII.J.2.:

b. Title/Position:

c. Signature:

d. Date:

APPENDIX J – Owner/Operator Certification Form

The Owner/Operator Certification Form required by this permit begins on the following page.

NEW YORK STATE | Department of Environmental Conservation

Owner/Operator Certification Form

SPDES General Permit for Stormwater Discharges from Construction Activity, GP-0-25-001 (CGP)

(In accordance with CGP Part I.D.2.b. or Part I.F.2. and 3., the completed form must be attached to the eNOI or the Request to Continue Coverage, and submitted to NYSDEC electronically.

Project/Site Name: _____

eNOI Submission ID: _____

eNOI Submitted by: ☐ **Owner/Operator** ☐ **SWPPP Preparer** ☐ **Other**

Certification Statement - Owner/Operator

I hereby certify that I read, and will comply with, the GP-0-25-001 permit requirements. I understand that authorization to discharge under the permit for the project/site named above is dependent on receipt of a Letter of Authorization (LOA) or a Letter of Continued Coverage (LOCC) from the New York State Department of Environmental Conservation (NYSDEC) in accordance with CGP Part I.D.3.b. or Part I.F.4. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Owner/Operator First Name MI Owner/Operator Last Name

_____

Signature

_____

Date

Revised: January 2025