

Town of Manlius

Planning Board Agenda

July 12, 2021

6:30PM

1. Zoom Meeting Instructions

Documents:

[ZOOM PLANNING BOARD MEETING INSTRUCTIONS JULY 12, 2021.PDF](#)

2. Pledge Of Allegiance

3. Approval Of Minutes - June 28, 2021

4. Nedzad Salkic, 5961 North Burdick Street, East Syracuse, NY 13057 - Public Hearing - 2-Lot Subdivision - North Manlius Road, Kirkville, NY 13082 - Tax Map # 70.-1-8.1

Documents:

[NORTH MANLIUS ROAD - SUBDIVISION APPLICATION.PDF](#)

[NORTH MANLIUS ROAD - SUBDIVISION MAP.PDF](#)

5. Route 5 Development Company - 540 Towne Drive, Fayetteville, NY 13066 - Set Date For Public Hearing- Site Plan - Lot 15 Restaurant Building - 406 Towne Drive, Fayetteville, NY 13066 - Tax Map # 087.-01-15.2

Documents:

[1 - COR-FAYETTEVILLE RESTAURANTS\\_CIVIL DWGS-PB SUBMITTAL\\_2021-06-30.PDF](#)

[2 - COR-FAYETTEVILLE RESTAURANTS\\_STORM WATER MANAGEMENT REPORT\\_2021-06-30.PDF](#)

[3 - COR-FAYETTVEILLE RESTAURANTS\\_SWPPP COMPILED\\_2021-06-30.PDF](#)

[4 - A1-PLAN LOT15\\_06.29.21.PDF](#)

[5 - A2-ELEV LOT15\\_06.29.21.PDF](#)

6. Sigmund & Michelle Keller - 7323 Snowball Run, East Syracuse, NY 13057 - Initial Presentation - 2 - Lot Subdivision - 7268 East Richmond Road, East Syracuse, NY 13057 Tax Map # 065.-01-37.0

Documents:

[7268 EAST RICHMOND ROAD - APPLICATION.PDF](#)

[7268 EAST RICHMOND ROAD - SUBDIVISION MAP.PDF](#)

7. Other Business

8. Adjournment



July 12, 2021

## Virtual Planning Board Meeting

Instructions to attend the July 12, 2021 virtual Planning Board meeting:

The easiest way to join is to go to our website [www.TownOfManlius.org](http://www.TownOfManlius.org) and click on the link that is located on the homepage. You can also watch on our Facebook page by searching for "Town of Manlius"

Enter the meeting url web address as listed below:

<https://us02web.zoom.us/j/86467229887?>

Password to join when prompted:

Password: 075183

Enter your email address and name and join the meeting!

Join by telephone by dialing the number below:

1 929 436 2866

When prompted to enter the Webinar ID, use the number below followed by #

Webinar ID: 864 6722 9887

Press # again to skip 404702ip the personal id and enter the password below followed by #

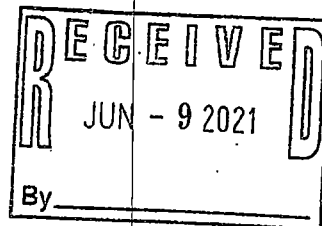
Password: 075183



Expected Fee: \$300

TOWN OF MANLIUS  
PLANNING DEPARTMENT

INITIAL APPEARANCE APPLICATION



DATE: 5/24/2021

Name of Project:

Salkic Family House

**Applicant must submit 12 copies of all site plans, surveys, and supporting data with the final application before a planning board meeting can be scheduled.**

Location of Project: 6220 North Manlius Road Kirkville, NY 13057

Type of Project:

☐ Division of Land ☒ Subdivision ☐ Accessory Use ☐ Zone Change ☐ Site Review ☐ Other

Developer: COTTELL LAND SURVEYORS, PC Phone: 315) 682-8121

Address: 7308 STATE ROUTE 173, MANLIUS, NY Zip: 13104

Tax Map Number(s): 70-1-8.1; 70-2-12

Present Zoning: RA

Desired Zoning: SAME

Total Acreage: 58.85

Total Number of Lots: 2

Property Owner/s: Nedzad Salkic

Phone: 315-395-0760

Address: 5961 North Burdick St East Syracuse, NY Zip: 13057

Tax Map(s): 313889 070. -02-01.0

Owner's Signature: Nedzad Salkic

-01-08.1, -02-12.0

Printed Name: Nedzad Salkic

Property Owner/s:

Phone:

Address:

Zip:

Tax Map(s):

Owner's Signature:

Printed Name:

**Use next page for additional known property owners' information**

Planning Board Meeting Date Assignment:

Fee:

Paid:

Per: ☐ Credit/Debit Card

☐ Check

☐ Cash

Planning Board - Initial

Salkicibrahim@yahoo.com

# 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.

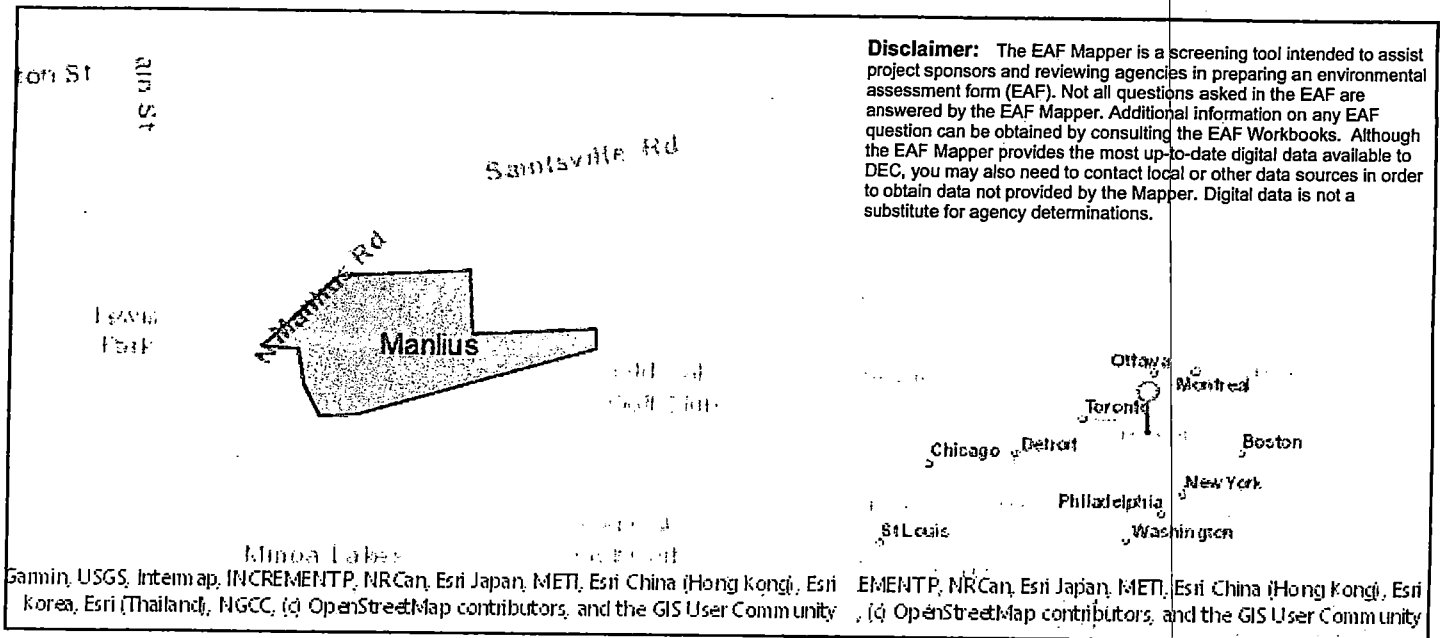
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |                                           |                                            |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------------------------------------|--------------------------------------------|
| <b>Part 1 – Project and Sponsor Information</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |                                           |                                            |
| Name of Action or Project:<br>NEDZAD & DZAVAD SALKIC SUBDIVISION                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |                                           |                                            |
| Project Location (describe, and attach a location map):<br>NORTH MANLIUS ROAD, MANLIUS, NY; TAX ID #70-1-8.1, #70-2-12                                                                                                                                                                                                                                                                                                                                                                                                                       |  |                                           |                                            |
| Brief Description of Proposed Action:<br>2.5 ACRE PARCEL FOR NEW RESIDENCE FROM 59± ACRE PARCEL                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |                                           |                                            |
| Name of Applicant or Sponsor:<br><br>IBRAHIM SALKIC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  | Telephone: 315-402-7525<br><br>E-Mail:    |                                            |
| Address:<br><br>5961 NORTH BURDICK STREET                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |                                           |                                            |
| City/PO:<br>EAST SYRACUSE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  | State:<br>NY                              | Zip Code:<br>13057                         |
| 1. Does the proposed action only involve the legislative adoption of a plan, local law, ordinance, administrative rule, or regulation?<br>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.                                                                                                                                                                                         |  | NO<br><input checked="" type="checkbox"/> | YES<br><input type="checkbox"/>            |
| 2. Does the proposed action require a permit, approval or funding from any other government Agency?<br>If Yes, list agency(s) name and permit or approval: OCHD - SEWAGE DISPOSAL                                                                                                                                                                                                                                                                                                                                                            |  | NO<br><input type="checkbox"/>            | YES<br><input checked="" type="checkbox"/> |
| 3. a. Total acreage of the site of the proposed action?<br>b. Total acreage to be physically disturbed?<br>c. Total acreage (project site and any contiguous properties) owned or controlled by the applicant or project sponsor?                                                                                                                                                                                                                                                                                                            |  | 58.85 acres<br>2.50 acres<br>83.07 acres  |                                            |
| 4. Check all land uses that occur on, are adjoining or near the proposed action:<br>5. <input type="checkbox"/> Urban <input checked="" type="checkbox"/> Rural (non-agriculture) <input checked="" type="checkbox"/> Industrial <input checked="" type="checkbox"/> Commercial <input checked="" type="checkbox"/> Residential (suburban)<br><input checked="" type="checkbox"/> Forest <input type="checkbox"/> Agriculture <input type="checkbox"/> Aquatic <input type="checkbox"/> Other(Specify):<br><input type="checkbox"/> Parkland |  |                                           |                                            |

|                                                                                                                                                                                                                                                                                                                                                                                      |                                     |                                     |                          |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|-------------------------------------|--------------------------|
| 5. Is the proposed action,                                                                                                                                                                                                                                                                                                                                                           | NO                                  | YES                                 | N/A                      |
| a. A permitted use under the zoning regulations?                                                                                                                                                                                                                                                                                                                                     | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| b. Consistent with the adopted comprehensive plan?                                                                                                                                                                                                                                                                                                                                   | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 6. Is the proposed action consistent with the predominant character of the existing built or natural landscape?                                                                                                                                                                                                                                                                      | NO                                  | YES                                 |                          |
|                                                                                                                                                                                                                                                                                                                                                                                      | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |                          |
| 7. Is the site of the proposed action located in, or does it adjoin, a state listed Critical Environmental Area?                                                                                                                                                                                                                                                                     | NO                                  | YES                                 |                          |
| If Yes, identify: _____                                                                                                                                                                                                                                                                                                                                                              | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                          |
| 8. a. Will the proposed action result in a substantial increase in traffic above present levels?                                                                                                                                                                                                                                                                                     | NO                                  | YES                                 |                          |
| b. Are public transportation services available at or near the site of the proposed action?                                                                                                                                                                                                                                                                                          | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                          |
| c. Are any pedestrian accommodations or bicycle routes available on or near the site of the proposed action?                                                                                                                                                                                                                                                                         | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                          |
| 9. Does the proposed action meet or exceed the state energy code requirements?                                                                                                                                                                                                                                                                                                       | NO                                  | YES                                 |                          |
| If the proposed action will exceed requirements, describe design features and technologies:<br>_____<br>_____                                                                                                                                                                                                                                                                        | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                          |
| 10. Will the proposed action connect to an existing public/private water supply?                                                                                                                                                                                                                                                                                                     | NO                                  | YES                                 |                          |
| If No, describe method for providing potable water: _____<br>WELL WILL BE DUG.                                                                                                                                                                                                                                                                                                       | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                          |
| 11. Will the proposed action connect to existing wastewater utilities?                                                                                                                                                                                                                                                                                                               | NO                                  | YES                                 |                          |
| If No, describe method for providing wastewater treatment: _____<br>OCHD APPROVED INDIVIDUAL DISPOSAL SYSTEM WILL BE INSTALLED.                                                                                                                                                                                                                                                      | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                          |
| 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? | NO                                  | YES                                 |                          |
|                                                                                                                                                                                                                                                                                                                                                                                      | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                          |
| 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?                                                                                                                                                                  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                          |
| 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?                                                                                                                                                                                             | NO                                  | YES                                 |                          |
|                                                                                                                                                                                                                                                                                                                                                                                      | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |                          |
| b. Would the proposed action physically alter, or encroach into, any existing wetland or waterbody?                                                                                                                                                                                                                                                                                  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                          |
| If Yes, identify the wetland or waterbody and extent of alterations in square feet or acres: _____<br>_____<br>_____                                                                                                                                                                                                                                                                 |                                     |                                     |                          |

|                                                                                                                                                                                                                                                                                                           |  |                                     |                                     |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------------------------------|-------------------------------------|
| 14. Identify the typical habitat types that occur on, or are likely to be found on the project site. Check all that apply:                                                                                                                                                                                |  |                                     |                                     |
| <input type="checkbox"/> Shoreline <input checked="" type="checkbox"/> Forest <input type="checkbox"/> Agricultural/grasslands <input checked="" type="checkbox"/> Early mid-successional<br><input checked="" type="checkbox"/> Wetland <input type="checkbox"/> Urban <input type="checkbox"/> Suburban |  |                                     |                                     |
| 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?                                                                                                                                    |  | NO                                  | YES                                 |
| Indiana Bat                                                                                                                                                                                                                                                                                               |  | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 16. Is the project site located in the 100-year flood plan?                                                                                                                                                                                                                                               |  | NO                                  | YES                                 |
|                                                                                                                                                                                                                                                                                                           |  | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 17. Will the proposed action create storm water discharge, either from point or non-point sources?                                                                                                                                                                                                        |  | NO                                  | YES                                 |
| If Yes,                                                                                                                                                                                                                                                                                                   |  | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| a. Will storm water discharges flow to adjacent properties?                                                                                                                                                                                                                                               |  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| b. Will storm water discharges be directed to established conveyance systems (runoff and storm drains)?                                                                                                                                                                                                   |  | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| If Yes, briefly describe:                                                                                                                                                                                                                                                                                 |  |                                     |                                     |
| STORM WATER FROM LOT 21 WILL BE DIRECTED OVERLAND TO EXISTING DITCHES AND NATURAL WELL AND RETENTION AREAS ON LOT 22                                                                                                                                                                                      |  |                                     |                                     |
| 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)?                                                                                                                           |  | NO                                  | YES                                 |
| If Yes, explain the purpose and size of the impoundment:                                                                                                                                                                                                                                                  |  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
|                                                                                                                                                                                                                                                                                                           |  |                                     |                                     |
| 19. Has the site of the proposed action or an adjoining property been the location of an active or closed solid waste management facility?                                                                                                                                                                |  | NO                                  | YES                                 |
| If Yes, describe:                                                                                                                                                                                                                                                                                         |  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
|                                                                                                                                                                                                                                                                                                           |  |                                     |                                     |
| 20. Has the site of the proposed action or an adjoining property been the subject of remediation (ongoing or completed) for hazardous waste?                                                                                                                                                              |  | NO                                  | YES                                 |
| If Yes, describe:                                                                                                                                                                                                                                                                                         |  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
|                                                                                                                                                                                                                                                                                                           |  |                                     |                                     |
| <b>I CERTIFY THAT THE INFORMATION PROVIDED ABOVE IS TRUE AND ACCURATE TO THE BEST OF MY KNOWLEDGE</b><br><br>Applicant/sponsor/name: <u>IBRAHIM SALKIC</u> Date: <u>6/9/21</u><br>Signature: <u><i>Ibrahim Salkic</i></u> Title: _____                                                                    |  |                                     |                                     |

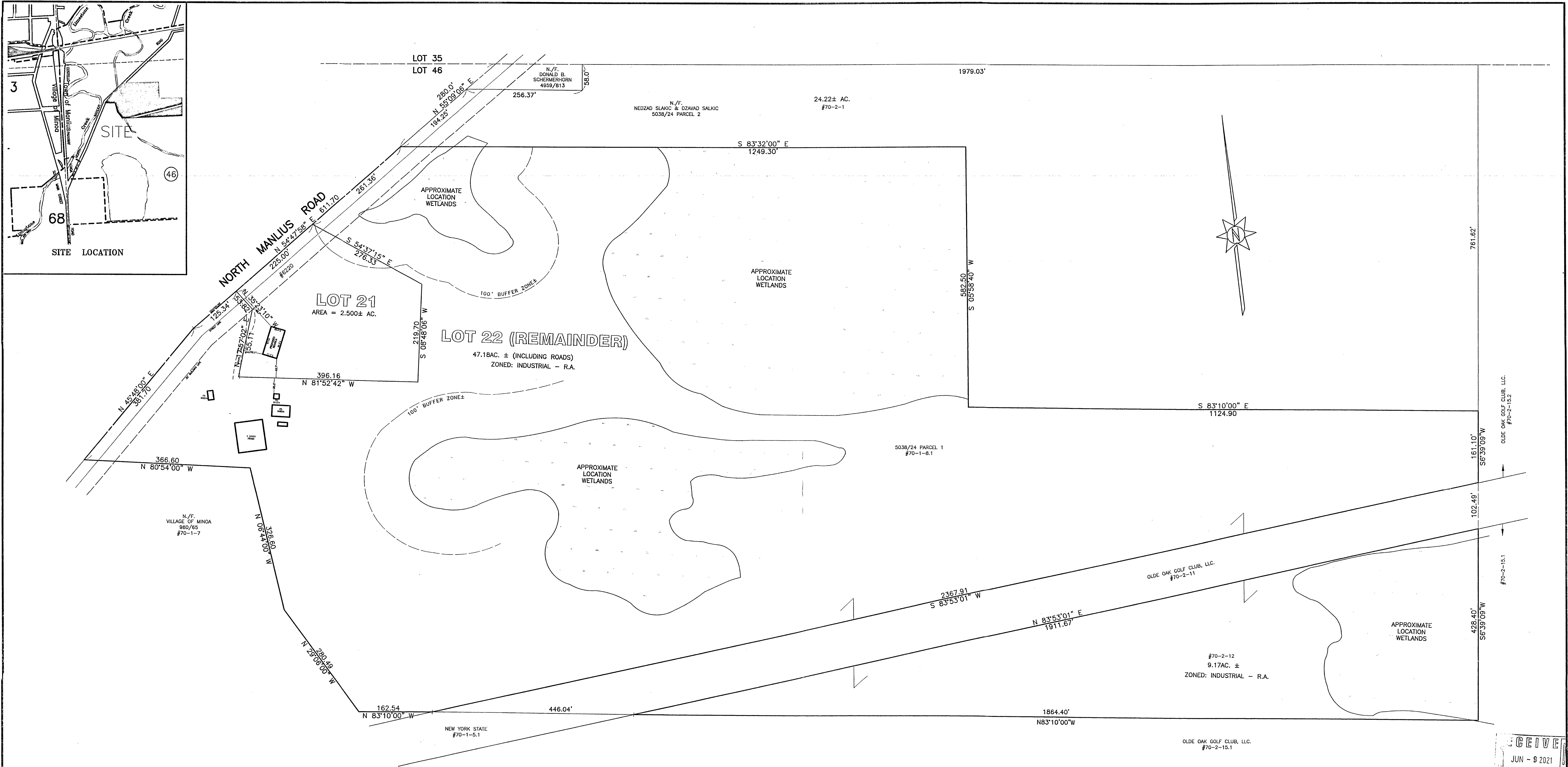
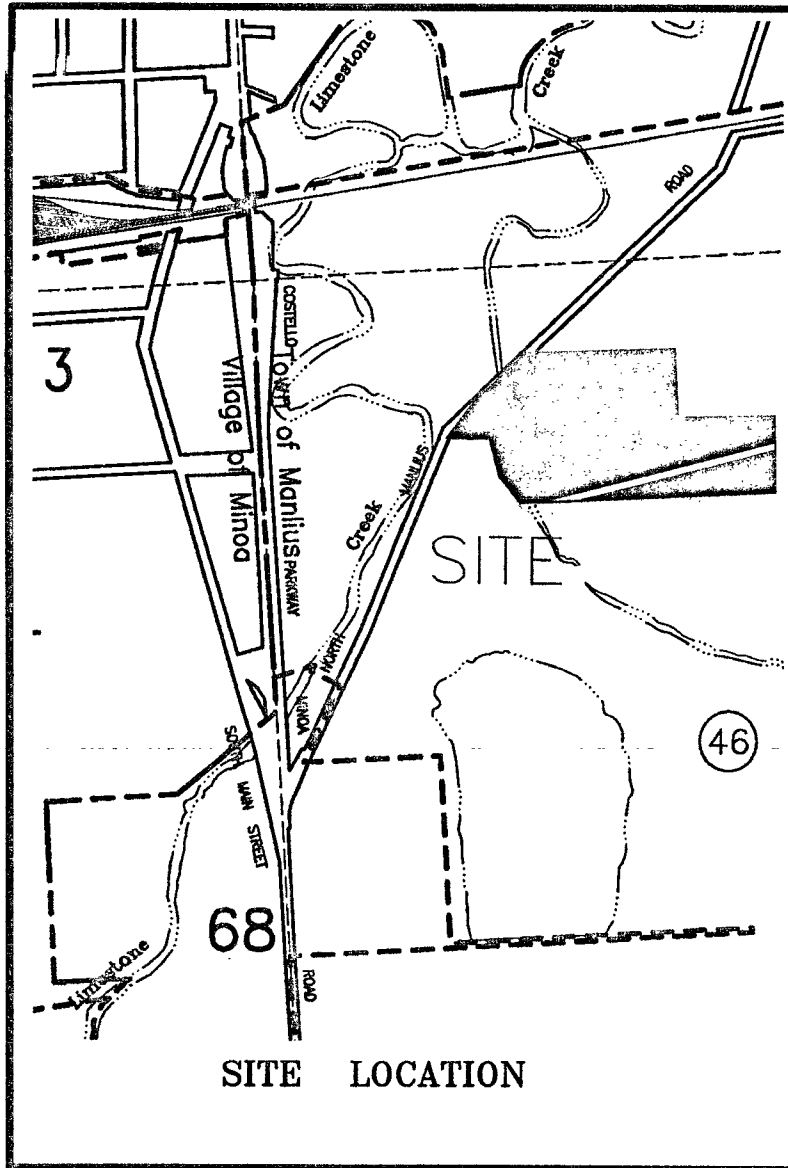
# EAF Mapper Summary Report

Monday, May 24, 2021 9:04 AM

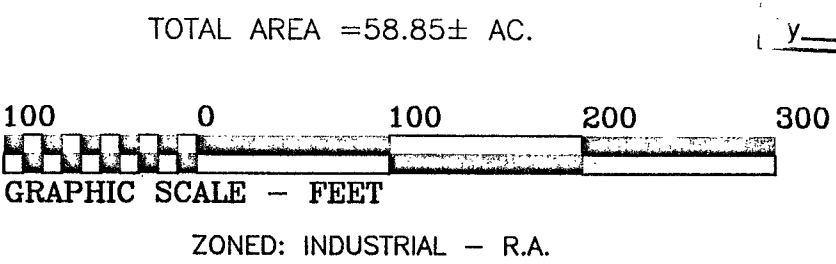


|                                                                                               |                                                                                                                                   |
|-----------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| 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]                                                   | No                                                                                                                                |
| Part 1 / Question 13a [Wetlands or Other Regulated Waterbodies]                               | Yes - Digital mapping information on local and federal wetlands and waterbodies is known to be incomplete. Refer to EAF Workbook. |
| Part 1 / Question 15 [Threatened or Endangered Animal]                                        | Yes                                                                                                                               |
| Part 1 / Question 15 [Threatened or Endangered Animal - Name]                                 | Indiana Bat                                                                                                                       |
| Part 1 / Question 16 [100 Year Flood Plain]                                                   | Yes                                                                                                                               |
| Part 1 / Question 20 [Remediation Site]                                                       | No                                                                                                                                |





NOTE:  
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION WETLAND LOCATION AS PER NEW YORK STATE FRESHWATER WETLANDS MAP No. 11. WETLAND BOUNDARIES NEAR "DISTURBED AREAS" REQUIRE FIELD DELINEATION FOR 100' BUFFER LOCATION.



COUNTY HEALTH DEPARTMENT APPROVAL

SUBDIVISION OF LAND

PLANNING BOARD CHAIRPERSON  
TOWN OF MANLIUS

I HEREBY APPROVE THIS TRACT MAP.

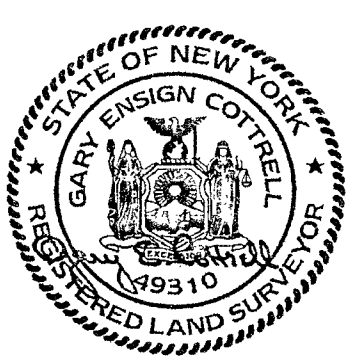
DZAVAD SALKIC, OWNER  
5961 NORTH BURDICK STREET  
EAST SYRACUSE, NY 13057

I HEREBY APPROVE THIS TRACT MAP.

NEDZAD SALKIC, OWNER  
5961 NORTH BURDICK STREET  
EAST SYRACUSE, NY 13057

NOT A VALID SUBDIVISION UNLESS THIS PLAT IS APPENDED WITH THE RECORDING DATA OF THE MAP FILING WITH THE ONONDAGA COUNTY CLERK'S OFFICE.

THE UNDERSIGNED CERTIFIES THAT THIS MAP WAS MADE FROM AN ACTUAL SURVEY ON 04-14-2021 OF LOT 1, THE REMAINDER SHOWN FROM FILED MAPS, DEEDS AND AERIALS. VOID WITHOUT SIGNER'S EMBOSSED SEAL.

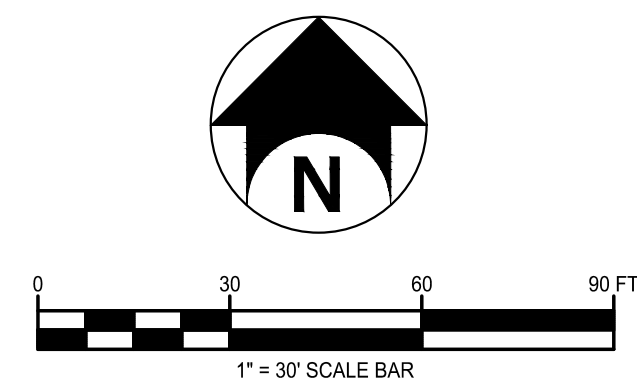
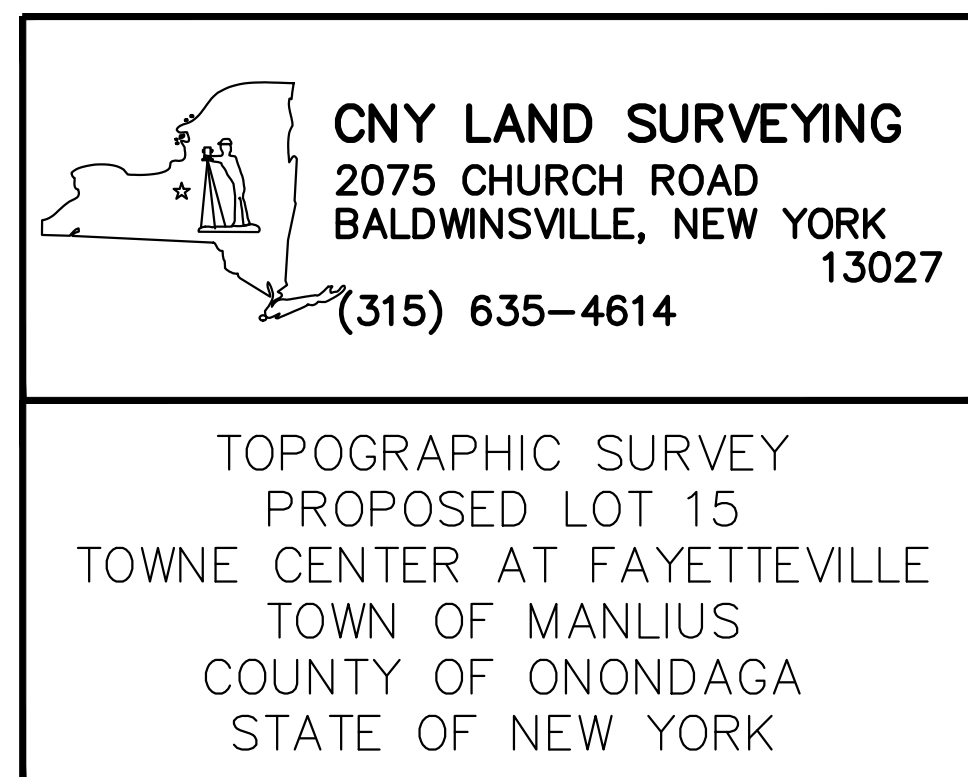


|                                                                                                                   |                    |             |  |
|-------------------------------------------------------------------------------------------------------------------|--------------------|-------------|--|
| NORTH MANLIUS SALKIC SUBD. MAN46 (ADD) ©20210608PRO-RJ-DWG                                                        |                    |             |  |
| ~ CONCEPT PLAN ~                                                                                                  |                    |             |  |
| <b>NEDZAD &amp; DZAVAD SALKIC SUBDIVISION</b>                                                                     |                    |             |  |
| RESUBD. OF LOT 2 - OROPALLO SUBD. #9154                                                                           |                    |             |  |
| PART OF LOT 46 - TOWN OF MANLIUS                                                                                  |                    |             |  |
| ONONDAGA COUNTY, N. Y.                                                                                            |                    |             |  |
| I.D: 70-1-8.1                                                                                                     | FILE: ROLL: 70-1-8 | BIN: 2K     |  |
| DATE: 04-14-2021                                                                                                  | SCALE: 1" = 100'   | B/P: 417/25 |  |
| REVISIONS                                                                                                         |                    |             |  |
|                                                                                                                   |                    |             |  |
|                                                                                                                   |                    |             |  |
|                                                                                                                   |                    |             |  |
| COTTRELL LAND SURVEYORS, PC.<br>7308 STATE RTE 173, MANLIUS, NY 13104<br>(315)682-8121, WWW.COTTRELLSURVEYORS.COM |                    |             |  |



## 1 OF 18



[illegible][illegible]

NOT FOR  
CONSTRUCTION  
-- % SUBMISSION

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|                                       |                                       |
|---------------------------------------|---------------------------------------|
| Project Manager<br><b>A HART, RLA</b> | Discipline Lead<br><b>E SHAW, RLA</b> |
| Designer<br><b>V MICKEL</b>           | Reviewer<br><b>K HURLEY, PE</b>       |
| Date Issued<br><b>06/30/2021</b>      | Project Number<br><b>15105.00</b>     |

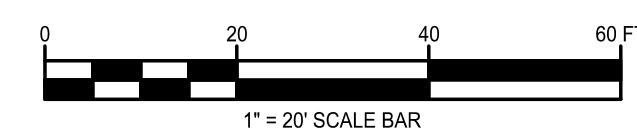
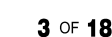
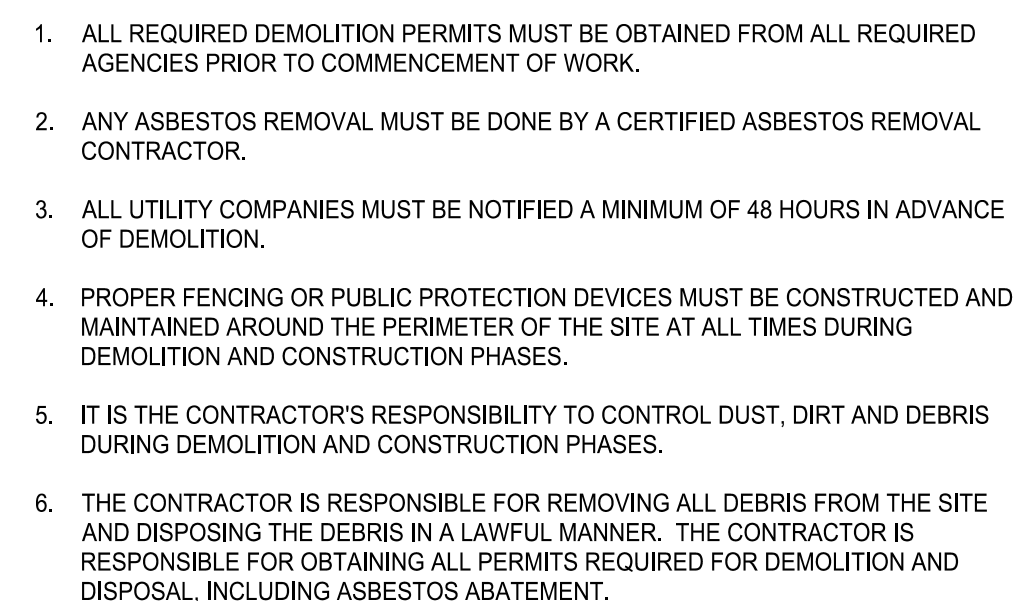
Sheet Name

## EXISTING CONDITIONS PLAN

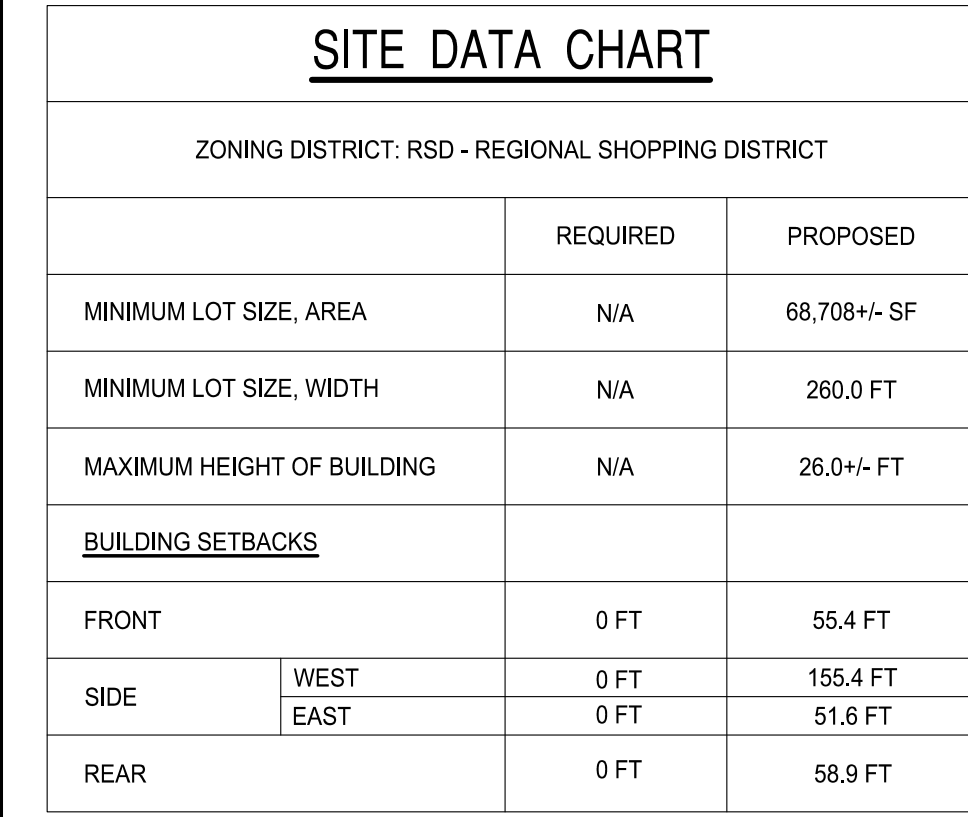
Drawing Number

# C010







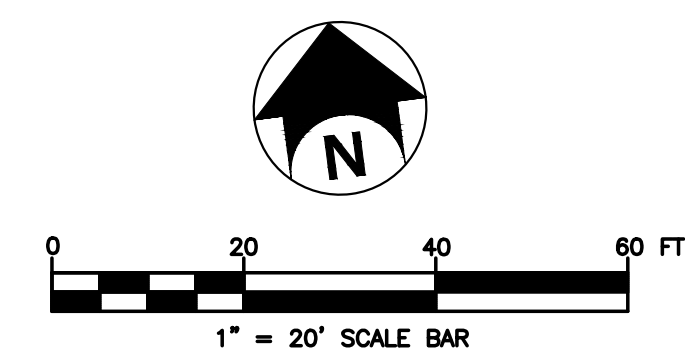
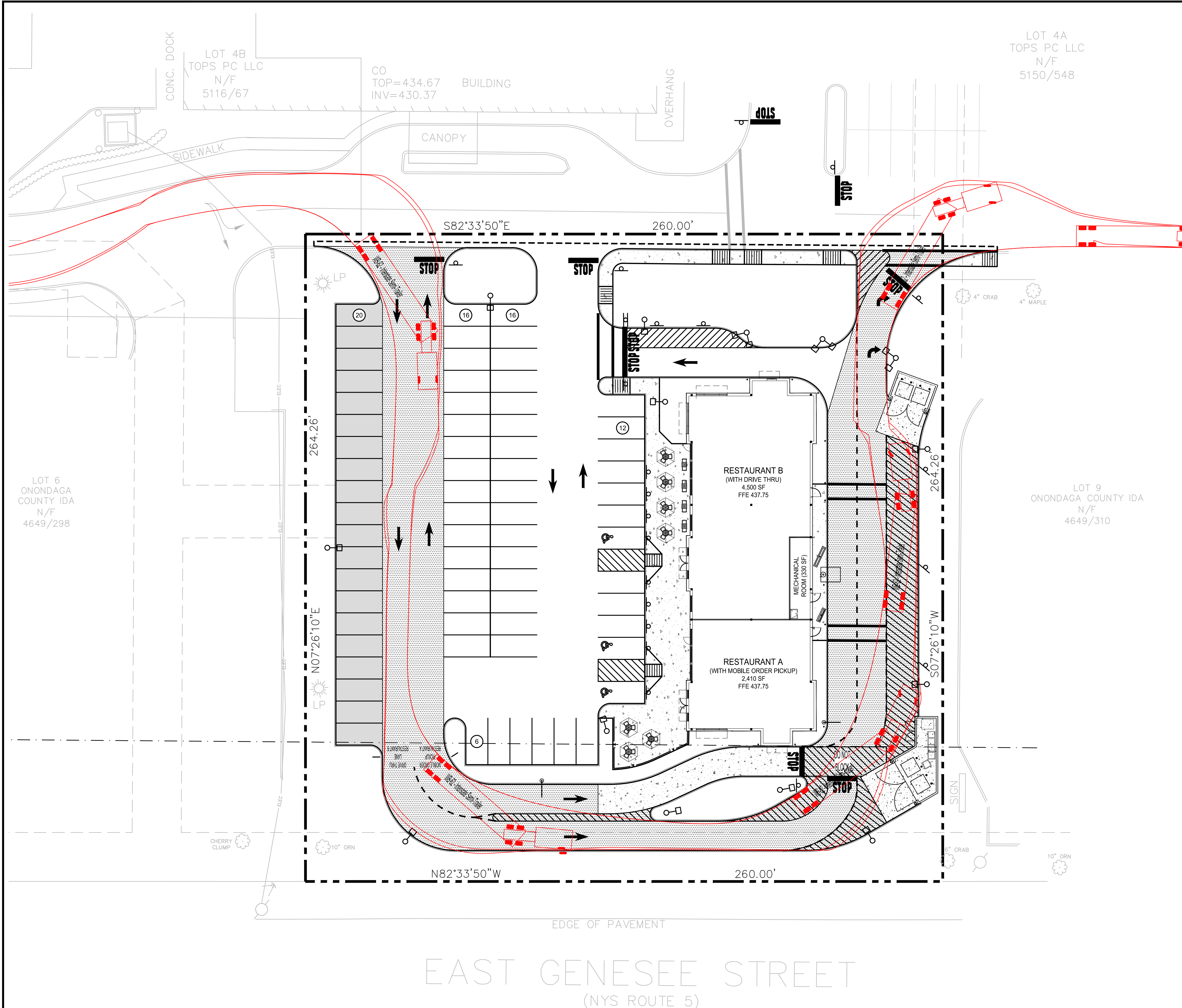


1. APPLICANT:  
ROUTE 5 DEVELOPMENT COMPANY, LLC  
540 TOWNE DRIVE  
FAYETTEVILLE, NEW YORK 13066
2. EXISTING ZONING: RSD - REGIONAL SHOPPING DISTRICT  
PROPOSED ZONING: RSD - REGIONAL SHOPPING DISTRICT
3. FLOOD PLAIN INFORMATION OBTAINED FROM THE FEMA WEBSITE, DOWNLOADED ON 3/23/21. THE PROJECT IS LOCATED WITHIN A SPECIAL FLOOD HAZARD AREA, WITH A BASE FLOOD ELEVATION OF 435.75+.
4. A VARIANCE TO ALLOW THE REDUCTION OF PARKING SPACE SIZE OF 10'X20' TO 9'X19' WAS GRANTED TO FAYETTEVILLE TOWNE CENTER ON JULY 19, 2001.

PROPOSED : 70 SPACES







**Route 5 Development  
Company, LLC.**

**PROPOSED  
RESTAURANT A /  
RESTAURANT B**

LOT 15 -TOWNE CENTER  
AT FAYETTEVILLE  
406 TOWNE DRIVE  
FAYETTEVILLE, NY 13066

[illegible]

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CONSTRUCTION  
-- % SUBMISSION

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|                                       |                                       |
|---------------------------------------|---------------------------------------|
| Project Manager<br><b>A HART, RLA</b> | Discipline Lead<br><b>E SHAW, RLA</b> |
| Designer<br><b>V MICKEL</b>           | Reviewer<br><b>K HURLEY, PE</b>       |
| Date Issued<br><b>06/30/2021</b>      | Project Number<br><b>15105.00</b>     |

Sheet Name

## SITE PLAN - TRUCK PATH

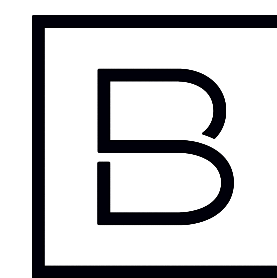
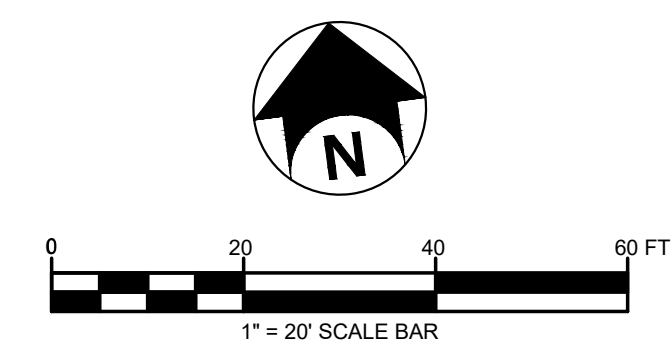
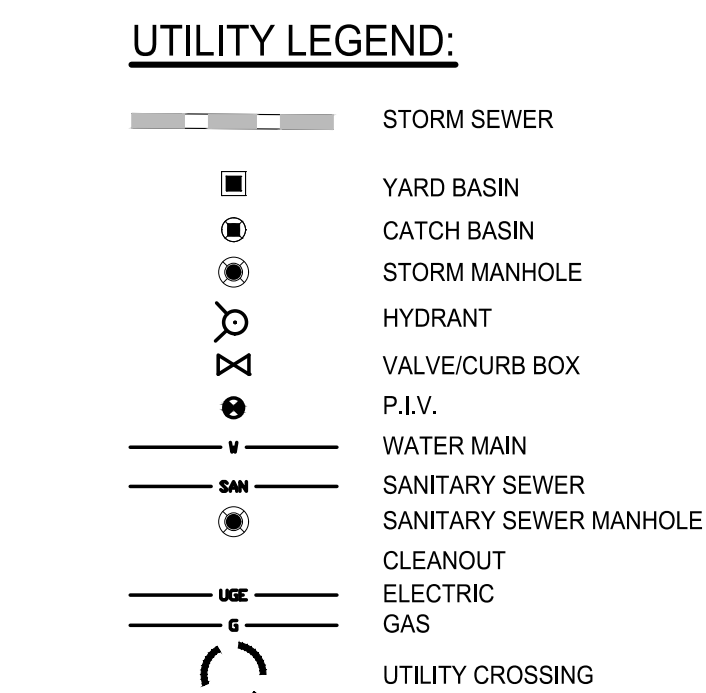
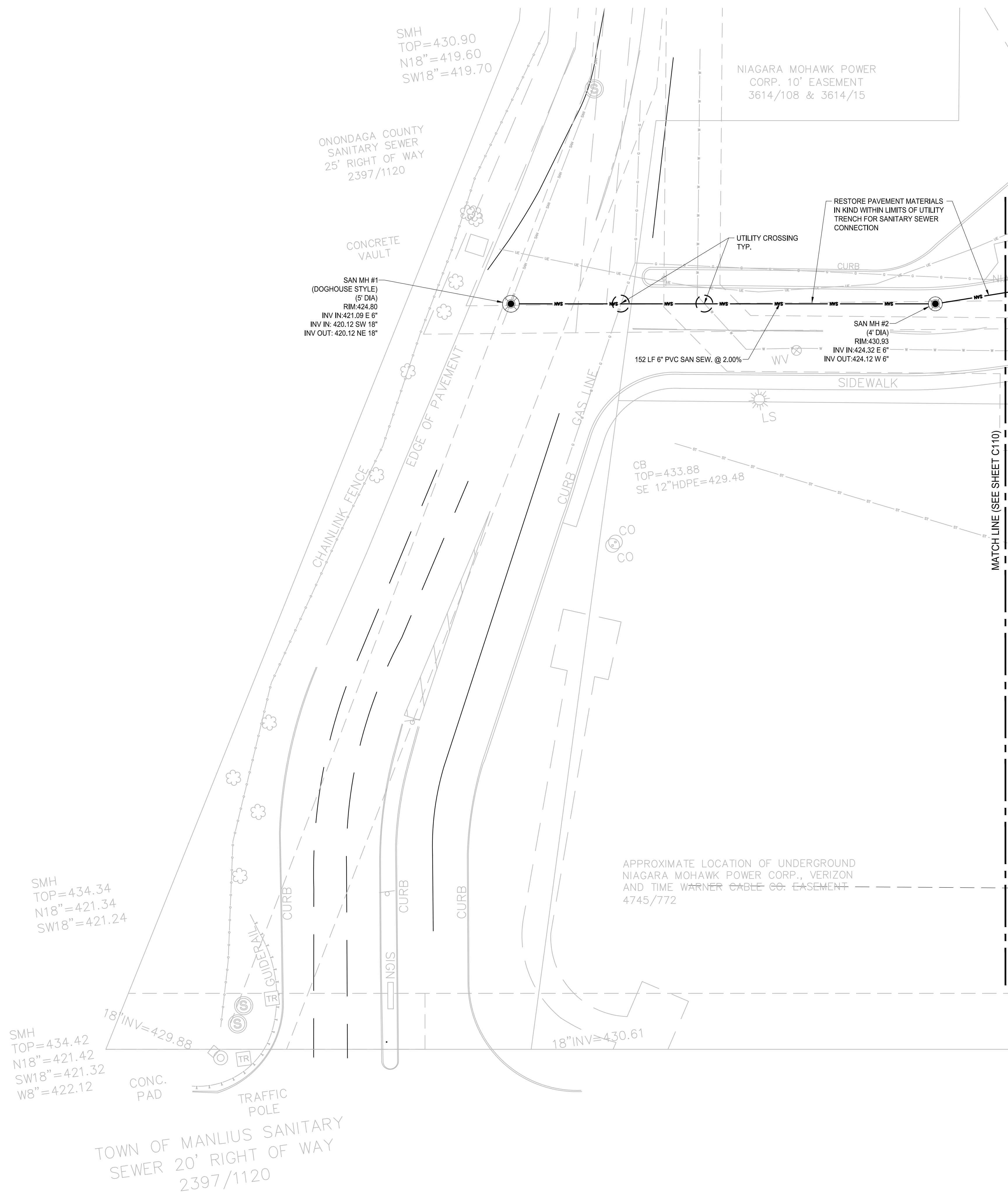
Drawing Number

# C101









**BERGMANN**  
ARCHITECTS ENGINEERS PLANNERS

[www.bergmannpc.com](http://www.bergmannpc.com)

**Route 5 Development  
Company, LLC.**

**PROPOSED  
RESTAURANT A /  
RESTAURANT B**

LOT 15 -TOWNE CENTER  
AT FAYETTEVILLE  
406 TOWNE DRIVE  
FAYETTEVILLE, NY 13066

[illegible]

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CONSTRUCTION  
-- % SUBMISSION

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|                                       |                                       |
|---------------------------------------|---------------------------------------|
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| Designer<br><b>V MICKEL</b>           | Reviewer<br><b>K HURLEY, PE</b>       |
| Date Issued<br><b>06/30/2021</b>      | Project Number<br><b>15105.00</b>     |

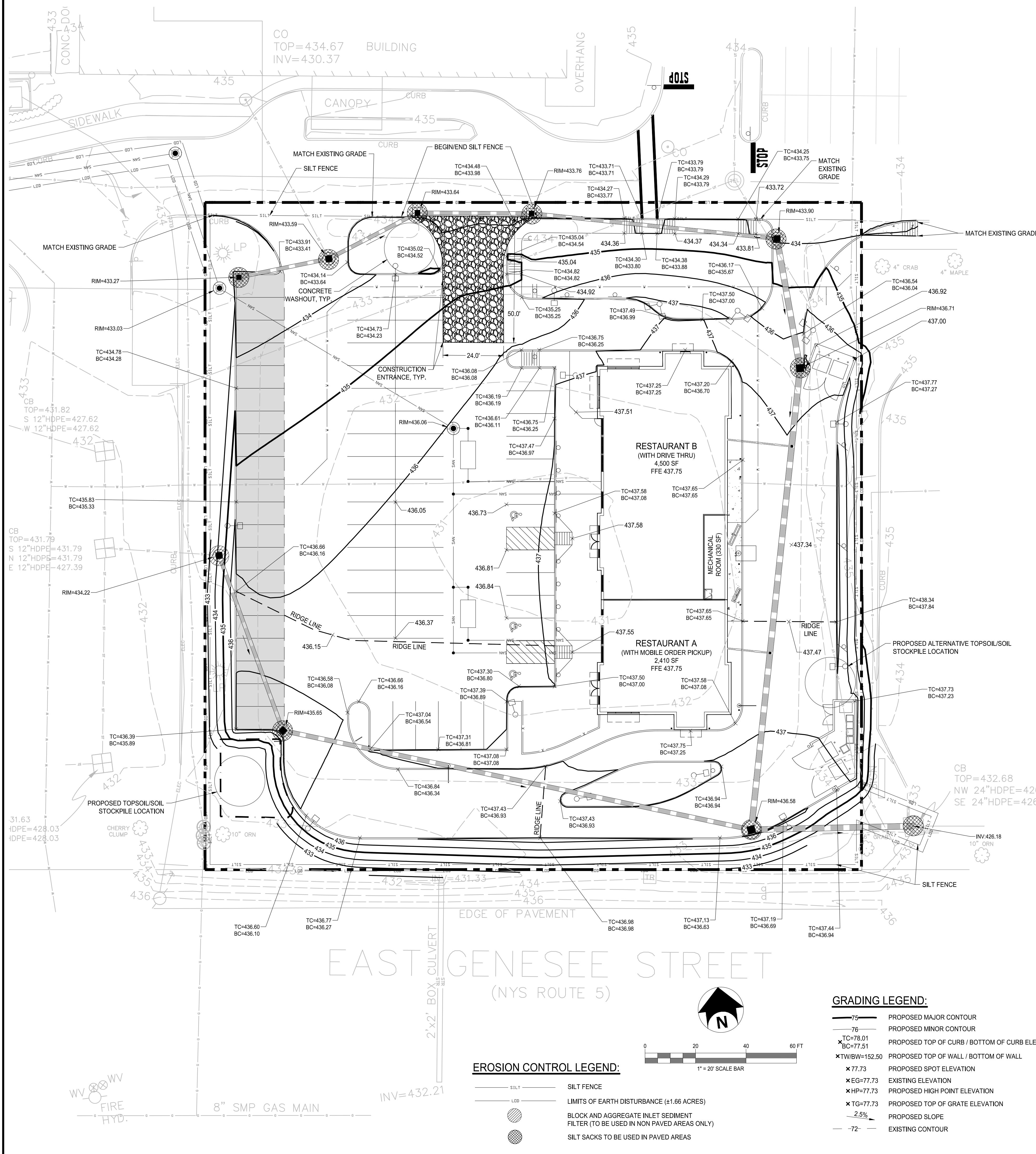
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**UTILITY PLAN - 2 OF 2**

Drawing Number

# C111





## GRADING NOTES

1. REFER TO EROSION AND SEDIMENT CONTROL PLAN FOR REQUIRED EROSION AND SEDIMENT CONTROL MEASURES.
2. ALL SITE GRADING MUST BE PERFORMED TO INSURE POSITIVE DRAINAGE ACROSS THE ENTIRE SITE, THROUGHOUT THE PERIOD OF CONSTRUCTION AND AFTER PROJECT COMPLETION.
3. IN GENERAL, EARTHWORK AND PAVEMENT CONSTRUCTION SHOULD BE PERFORMED IN ACCORDANCE WITH THE LATEST NEW YORK STATE DOT STANDARD SPECIFICATIONS FOR CONSTRUCTION UNLESS OTHERWISE NOTED.
4. REMOVE ANY EXISTING TOPSOIL, ORGANIC SOILS, UNSUITABLE FILL, VEGETATION, TREES AND OTHER DELETERIOUS MATERIALS TO EXPOSE THE SUBGRADE SOIL. TREE ROOTS SHOULD BE COMPLETELY REMOVED.
5. EXCAVATE TO THE DEPTH OF THE FINAL SUBGRADE ELEVATION TO ALLOW FOR GRADE CHANGES AND THE PLACEMENT OF THE RECOMMENDED PAVEMENT SYSTEM.
6. ON SITE FILL MATERIAL CAN BE USED IF THE SPECIFIED COMPACTION REQUIREMENTS CAN BE ACHIEVED. IF ON SITE MATERIAL IS USED, IT SHOULD BE CLEAN AND FREE OF FROZEN SOIL, ORGANICS, OR OTHER DELETERIOUS MATERIALS.
7. THE FINAL SUBGRADE SHOULD BE THOROUGHLY PROFFERLOD USING A LOADED TANDEM AXLE TRUCK UNDER THE OBSERVATION OF GEOTECHNICAL/PAVEMENT ENGINEER. LOOSE OR YIELDING AREAS THAT CANNOT BE MECHANICALLY STABILIZED SHOULD BE REMOVED AND REPLACED WITH ENGINEERED FILL OR AS DICTATED BY FIELD CONDITIONS.
8. THE AGGREGATE BASE SHOULD BE COMPACTED TO ACHIEVE A MINIMUM OF 95 PERCENT OF THE MAXIMUM MODIFIED PROCTOR DRY DENSITY. THE BASE AND SUBGRADE COMPACTION SHOULD EXTEND A MINIMUM OF 12 INCHES BEYOND THE PAVED EDGE OR BACK OF CURB.

EROSION CONTROL NOTES:

1. THE DEVELOPER/OWNER/OPERATOR SHALL PROVIDE A TRAINED QUALIFIED INSPECTOR TO INSPECT THE PROJECT AT THE END OF EACH WORK DAY AND PROVIDE A REPORT EVERY TWO WEEKS OR EVERY WEEK.
2. INSTALL SILT FENCE, DIVERSION SWALES/BERMS, CHECK DAMS AND ALL OTHER EROSION CONTROL MEASURES AS INDICATED ON THE PLAN PRIOR TO THE START OF ANY EXCAVATION WORK. EROSION CONTROL MEASURES WILL BE IMPLEMENTED IN ACCORDANCE WITH THE NEW YORK STATE GUIDELINES FOR URBAN EROSION SEDIMENT CONTROL. MANUAL, NEW YORK STATE HEALTH DEPARTMENT, AND THE GOVERNING TOWN REQUIREMENTS.
3. CONSTRUCT INTERCEPTOR/DIVERSION SWALES/BERMS & TEMPORARY SEDIMENT BASIN(S) TO INTERCEPT SURFACE WATER AND DIRECT IT AWAY FROM WORK AREA AS INDICATED ON PLAN. SEDIMENT SHALL BE REMOVED FROM BASINS BEFORE THEY REACH 25% CAPACITY.
4. REMOVE AND STOCKPILE TOPSOIL AS DIRECTED BY THE CONSTRUCTION MANAGER REPLACE TOPSOIL TO A MINIMUM 4" DEPTH. ALL DISTURBED AREAS TO BE HYDROSEEDDED AS DIRECTED BY THE CONSTRUCTION MANAGER TO PROMOTE VEGETATION AS SOON AS PRACTICABLE.
5. IF THE SEASONS PROHIBITS TEMPORARY SEEDING, THE DISTURBED AREAS WILL BE MULCHED WITH STRAW HAY OR EQUIVALENT AND ANCHORED IN ACCORDANCE WITH THE "STANDARDS", NETTING OR LIQUID MULCH BINDER.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE AND REMOVAL OF TEMPORARY SEDIMENTATION CONTROLS. EROSION CONTROL MEASURES SHALL NOT BE REMOVED BEFORE 80% UNIFORM VEGETATION HAS BEEN ACHIEVED.
7. INSTALL INLET PROTECTION, AND RIP RAP APRONS PROGRESSIVELY AS STORM SEWER, AND DISCHARGE POINTS ARE INSTALLED.
8. ALL EROSION CONTROL MEASURES ARE TO BE REPLACED WHENEVER THEY BECOME CLOGGED OR INOPERABLE AND SHALL BE REPLACED WHEN THEY HAVE REACHED THE DESIGN LIFE INDICATED IN THE NYS GUIDELINES FOR URBAN EROSION SEDIMENT CONTROL DESIGN MANUAL.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORATION OF TOPSOIL TO ALL DISTURBED AREAS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN EROSION CONTROL MEASURES AT ALL TIMES.
10. THE CONTRACTOR SHALL DESIGNATE A TRAINED CONTRACTOR/MEMBER OF HIS/HER FIRM TO BE RESPONSIBLE TO MONITOR EROSION CONTROL, EROSION CONTROL STRUCTURES, TREE PROTECTION AND PRESERVATION THROUGHOUT CONSTRUCTION.
11. ALL DISTURBED AREAS SHALL BE FINISH GRADED TO PROMOTE VEGETATION ON ALL EXPOSED AREAS AS SOON AS PRACTICABLE. STABILIZATION PRACTICES (TEMPORARY/PERMANENT SEEDING, MULCHING, GEOTEXTILES, ETC.) MUST BE IMPLEMENTED THE NEXT DAY AND COMPLETED WITHIN SEVEN (7) DAYS WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, AND NOT EXPECTED TO RESUME WITHIN FOURTEEN (14) DAYS.
12. PAVED ROADWAYS MUST BE KEPT CLEAN AT ALL TIMES. ALL CONSTRUCTION DEBRIS AND SEDIMENT SPOILS, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHT-OF-WAYS MUST BE REMOVED IMMEDIATELY.
13. DUST SHALL BE CONTROLLED BY WATERING.
14. ADJOINING PROPERTY SHALL BE PROTECTED FROM EXCAVATION AND FILLING OPERATIONS ON THE PROPOSED SITE.
15. DIVERSION SWALES/BERMS, AND SEDIMENT TRAPS SHOULD BE RELOCATED INWARD AS PERIMETER SLOPE CONSTRUCTION PROGRESSES AND RECONSTRUCTED TO THE NYS STANDARDS & SPECIFICATIONS AT THE END OF EACH DAY TO DIVERT RUNOFF FROM SLOPED AREAS AND DIRECT TO APPROPRIATE BASINS.
16. PERIMETER AREAS SHALL BE TEMPORARILY STABILIZED WITH SEED AND MULCH PROGRESSIVELY A MINIMUM AT THE END OF EACH WEEK WITH 100% PERENNIAL RYEGRASS MIX AT A RATE OF 2-4 LBS PER 1000 SF AND MULCH 90-100 lbs/1000 SF OF WEED FREE STRAW.
17. SLOPE TRACKING SHALL BE IMPLEMENTED ON ALL SLOPE 1 ON 3 OR GREATER AT THE END OF EACH WORK DAY AND PRIOR TO FINAL SLOPE GRADING AND STABILIZATION.
18. SILT FENCE, JUTE MESH, AND/OR EROSION CONTROL BLANKETS WILL BE USED ON STEEP SLOPES AND WHEREVER NECESSARY TO PREVENT EROSION AND SEDIMENTATION OF EXISTING DRAINAGE SYSTEMS AS ORDERED BY THE ENGINEER OR SPECIFIED ON PLANS.
19. EROSION CONTROL MEASURES WILL BE IMPLEMENTED IN ACCORDANCE WITH THE NEW YORK STATE GUIDELINES FOR URBAN EROSION SEDIMENT CONTROL MANUAL, ONONDAGA COUNTY, AND THE VILLAGE OF MANLIUS REQUIREMENTS.

### SEQUENCE OF CONSTRUCTION:

1. PRE-CONSTRUCTION MEETING HELD BY PROJECT MANAGER AND THE OPERATOR'S ENGINEER PRIOR TO LAND DISTURBING ACTIVITIES.
2. HAVE A QUALIFIED PROFESSIONAL CONDUCT AN ASSESSMENT OF THE SITE PRIOR TO THE COMMENCEMENT OF CONSTRUCTION AND CERTIFY IN AN INSPECTION REPORT THAT THE APPROPRIATE EROSION AND SEDIMENT CONTROLS DESCRIBED IN THE SWPPP AS REQUIRED BY PART IV OF THE GR-615-002 HAVE BEEN PROPERLY INSTALLED OR IMPLEMENTED TO ENSURE OVERALL PREPAREDNESS OF THE SITE FOR THE COMMENCEMENT OF CONSTRUCTION.
3. CONSTRUCT TEMPORARY CONSTRUCTION EXITS AT LOCATIONS SHOWN ON THE PLANS.
4. INSTALL PERIMETER SILT FENCES AND TEMPORARY SEDIMENT BASIN IN THE LOCATIONS SHOWN ON THE PLANS.
5. INSTALL INTERCEPTOR SWALES AT LOCATIONS SHOWN ON THE PLANS.
6. BEGIN CLEARING AND GRUBBING OPERATIONS. CLEARING AND GRUBBING SHALL BE DONE ONLY IN AREAS WHERE EARTHWORK WILL BE PERFORMED AND ONLY IN AREAS WHERE BUILDING IS PLANNED TO COMMENCE WITHIN 14 DAYS AFTER CLEARING AND GRUBBING.
7. COMMENCE SITE GRADING.
8. INSTALL EROSION CONTROL BLANKETS ON ALL SLOPES GREATER THAN 3:1.
9. DISTURBED AREAS OF THE SITE WHERE CONSTRUCTION ACTIVITY HAS CEASED FOR MORE THAN 7 DAYS SHALL BE TEMPORARILY SEEDED AND WATERED STARTING THE NEXT DAY AND COMPLETED WITHIN 7 DAYS.
10. INSTALL INLET/OUTLET PROTECTION AT THE LOCATIONS OF ALL GRATE INLETS, CURB INLETS, AND AT THE ENDS OF ALL EXPOSED STORM SEWER PIPES.
11. CONSTRUCT ALL CURB, GUTTER INLETS, AREA INLETS, AND STORM SEWER MANHOLES, AS SHOWN ON THE PLANS. INLET PROTECTION MAY BE REMOVED TEMPORARILY FOR THIS CONSTRUCTION. PLACE REQUIRED RIP RAP AT LOCATIONS SHOWN ON THE PLANS.
12. REMOVE INLET PROTECTION AROUND INLETS AND MANHOLES NO MORE THAN 48 HOURS PRIOR TO PLACING STABILIZED BASE COURSE.
13. INSTALL BASE MATERIAL AS REQUIRED FOR PAVEMENT.
14. CARRY OUT FINAL GRADING AND SEEDING AND PLANTING.
15. REMOVE SILT FENCING ONLY AFTER ALL PAVING IS COMPLETE AND EXPOSED SURFACES ARE STABILIZED (80% VEGETATIVE COVER).
16. REMOVE TEMPORARY CONSTRUCTION EXITS ONLY PRIOR TO PAVEMENT CONSTRUCTION IN THESE AREAS (THESE AREAS ARE TO BE PAVED LAST).

GRADING LEGEND:

- |                        |                                                 |
|------------------------|-------------------------------------------------|
| — 75 —                 | PROPOSED MAJOR CONTOUR                          |
| — 76 —                 | PROPOSED MINOR CONTOUR                          |
| x TC=78.01<br>BC=77.51 | PROPOSED TOP OF CURB / BOTTOM OF CURB ELEVATION |
| x TW/BW=152.50         | PROPOSED TOP OF WALL / BOTTOM OF WALL           |
| x 77.73                | PROPOSED SPOT ELEVATION                         |
| x EG=77.73             | EXISTING ELEVATION                              |
| x HP=77.73             | PROPOSED HIGH POINT ELEVATION                   |
| x TG=77.73             | PROPOSED TOP OF GRATE ELEVATION                 |
| — 2.5% —               | PROPOSED SLOPE                                  |
| — 72 —                 | EXISTING CONTOUR                                |

EROSION CONTROL LEGEND:

- |                                                                                     |                                                                                       |
|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|  | <b>SILT FENCE</b>                                                                     |
|  | <b>LIMITS OF EARTH DISTURBANCE (±1.66 ACRES)</b>                                      |
|  | <b>BLOCK AND AGGREGATE INLET SEDIMENT FILTER (TO BE USED IN NON PAVED AREAS ONLY)</b> |
|  | <b>SILT SACKS TO BE USED IN PAVED AREAS</b>                                           |



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**Route 5 Development  
Company, LLC.**

**PROPOSED  
RESTAURANT A /  
RESTAURANT B**

LOT 15 -TOWNE CENTER  
AT FAYETTEVILLE  
406 TOWNE DRIVE  
FAYETTEVILLE, NY 13066

[illegible]

NOT FOR  
CONSTRUCTION  
-- % SUBMISSION

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|                    |                     |
|--------------------|---------------------|
| Project Manager    | Discipline Lead     |
| <b>A HART, RLA</b> | <b>E SHAW, RLA</b>  |
| Designer           | Reviewer            |
| <b>V MICKEL</b>    | <b>K HURLEY, PE</b> |
| Date Issued        | Project Number      |
| <b>06/30/2021</b>  | <b>15105.00</b>     |

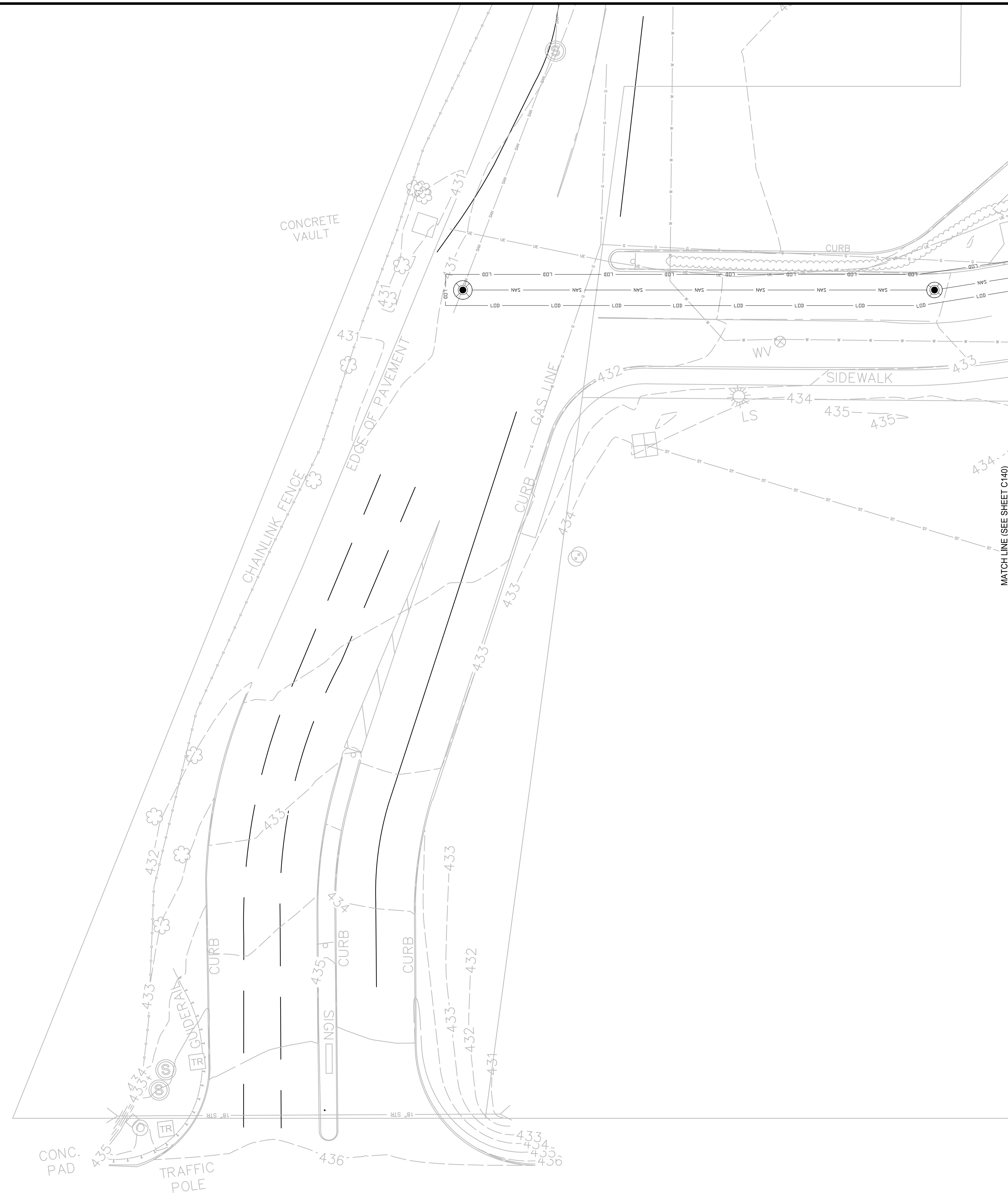
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# GRADING & EROSION CONTROL PLAN - 1 OF 2

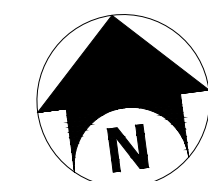
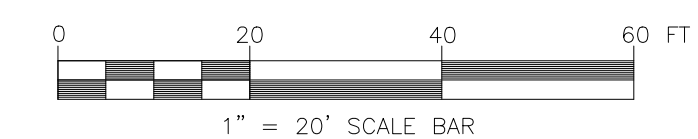
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|                                                                                       |                                                                                |
|---------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|
|  | SILT FENCE                                                                     |
|  | LIMITS OF EARTH DISTURBANCE (±1.66 ACRES)                                      |
|  | BLOCK AND AGGREGATE INLET SEDIMENT FILTER (TO BE USED IN NON PAVED AREAS ONLY) |
|  | SILT SACKS TO BE USED IN PAVED AREAS                                           |



**Route 5 Development  
Company, LLC.**

**PROPOSED  
RESTAURANT A /  
RESTAURANT B**

LOT 15 -TOWNE CENTER  
AT FAYETTEVILLE  
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[illegible]

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|                                       |                                       |
|---------------------------------------|---------------------------------------|
| Project Manager<br><b>A HART, RLA</b> | Discipline Lead<br><b>E SHAW, RLA</b> |
| Designer<br><b>V MICKEL</b>           | Reviewer<br><b>K HURLEY, PE</b>       |
| Date Issued<br><b>06/30/2021</b>      | Project Number<br><b>15105.00</b>     |

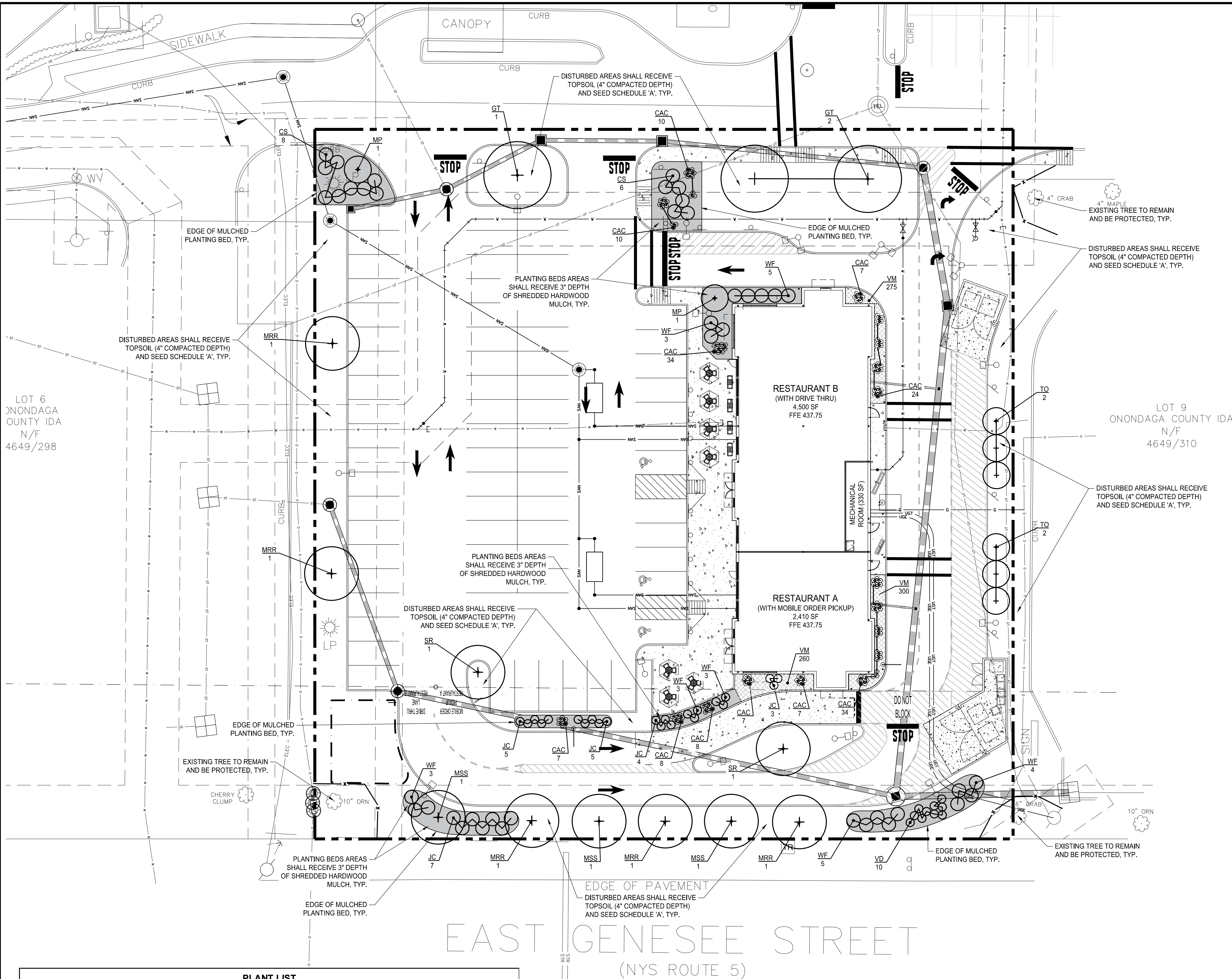
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## GRADING & EROSION CONTROL PLAN - 2 OF 2

Drawing Number

# C121





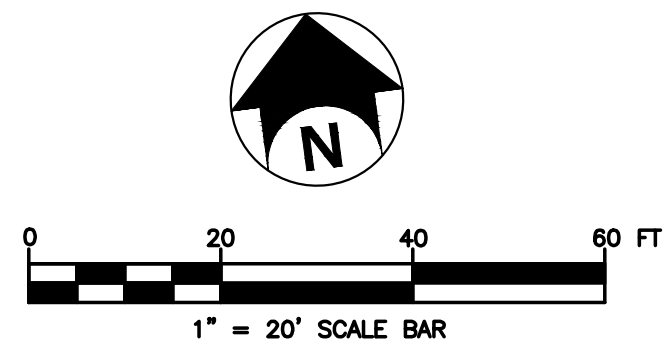
| PLANT LIST                   |      |                                            |                                  |             |                |                    |           |                    |  |
|------------------------------|------|--------------------------------------------|----------------------------------|-------------|----------------|--------------------|-----------|--------------------|--|
| Key                          | Qty. | Botanical Name                             | Common Name                      | Mature Size |                | Installed Size     | Condition | Notes              |  |
|                              |      |                                            |                                  | Height      | Spread         |                    |           |                    |  |
| Shade Trees                  |      |                                            |                                  |             |                |                    |           |                    |  |
| TA                           | 3    | Gleditsia tricanthos                       | Thornless Common Honeylocust     | 40-45' Ht.  | 25-30' Sprd.   | 2.5' Cal.          | B&B       |                    |  |
| Ornamental Trees             |      |                                            |                                  |             |                |                    |           |                    |  |
| MIR                          | 5    | Malus 'Royal Raindrops'                    | Royal Raindrops Crab             | 15-20' Ht.  | 12-16' Sprd.   | 2.5' Cal.          | B&B       | Min. 5" branch ht. |  |
| MISS                         | 3    | Malus 'Spring Snow'                        | Spring Snow Crab                 | 20-25' Ht.  | 15-20' Sprd.   | 2.5' Cal.          | B&B       | Min. 5" branch ht. |  |
| SR                           | 4    | Syringa reticulata 'Ivory Silk'            | Ivory Silk Tree Lilac            | 20-25' Ht.  | 15-20' Sprd.   | 2.5' Cal.          | B&B       |                    |  |
| Deciduous / Evergreen Shrubs |      |                                            |                                  |             |                |                    |           |                    |  |
| CS                           | 14   | Cornus sericea 'Farrow'                    | Arctic Fire Dogwood              | 3-4' Ht.    | 3-4' Sprd.     | No. 5 (30" Ht.)    | Cont.     |                    |  |
| JC                           | 24   | Juniperus ch. 'Sea Green'                  | Sea Green Juniper                | 4-6' Ht.    | 6-8' Sprd.     | 36" Sprd.          | B&B       |                    |  |
| MP                           | 2    | Myrica Pensylvanica                        | Northern Bayberry                | 5-10' Ht.   | 5-10' Sprd.    | 3' Ht.             | B&B       |                    |  |
| TO                           | 6    | Thuja occidentalis 'Emerald Green'         | Emerald Green Arborvitae         | 7-15' Ht.   | 3-4' Sprd.     | 6' Ht.             | B&B       |                    |  |
| VD                           | 10   | Viburnum dentatum 'Blue Muffin'            | Blue Muffin Arrowwood Viburnum   | 3-5' Ht.    | 3-4' Sprd.     | No. 5 (24-30" Ht.) | Cont.     |                    |  |
| WF                           | 26   | Weigela florida 'Alexandra'                | Wine & Roses Weigela             | 4-5' Ht.    | 4-5' Sprd.     | No. 5 (24-30" Ht.) | Cont.     |                    |  |
| Perennials / Groundcovers    |      |                                            |                                  |             |                |                    |           |                    |  |
| VM                           | 835  | Vinca minor                                | Periwinkle                       | 6-9" Ht.    |                |                    | Cont.     | plant 9" o.c.      |  |
| Ornamental Grasses           |      |                                            |                                  |             |                |                    |           |                    |  |
| CAC                          | 132  | Calamagrostis x acutiflora 'Karl Foerster' | Karl Foerster Feather Reed Grass | 3-5' Ht.    | 1.5-2.5' Sprd. | No. 3              | Cont.     |                    |  |

1. ALL PLANTS MUST BE HEALTHY, VIGOROUS, AND FREE OF PESTS AND DISEASE.
2. STANDARDS SET FORTH IN "AMERICAN STANDARD FOR NURSERY STOCK", ANSI, Z60.1 (LATEST EDITION), REPRESENT GUIDELINE SPECIFICATIONS ONLY AND SHALL CONSTITUTE MINIMUM QUALITY REQUIREMENTS FOR PLANT MATERIAL.
3. ALL PLANTS MUST BE HARDY UNDER CLIMATE CONDITIONS THAT EXIST AT THE PROJECT SITE AND GROWN AT A NURSERY AT THE SAME HARDNESS ZONE AS THE PROJECT LOCATION.
4. NO SUBSTITUTIONS SHALL BE PERMITTED WITHOUT PRIOR WRITTEN APPROVAL OF OWNER'S REPRESENTATIVE.
5. ALL TREES MUST BE STRAIGHT TRUNKED, INJURY FREE, AND FULL HEADED.
6. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL QUANTITIES SHOWN ON THESE PLANS BEFORE PRICING THE WORK.
7. ANY DISCREPANCY WITH QUANTITIES, LOCATIONS AND / OR FIELD CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE OR LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
8. MULCH ALL ISLANDS AND PLANTINGS IN LAWN AREAS WITH DOUBLE GROUND HARDWOOD BARK MULCH. MULCH SHALL BE AGED A MIN. OF ONE (1) YEAR FOR PARTIAL DECOMPOSITION. IT SHALL BE SCREENED TO EXCLUDE PARTICLES LARGER THAN ONE (1) INCH IN DIAMETER. MATERIAL SHALL BE COMPOSED OF BARK AND HAVE A LOW WOOD CONTENT WITH NO HIDDEN WOODS FROM CONSTRUCTION DEBRIS. PALLETES OR PRESSURE TREATED LUMBER AND BE FREE OF WEEDS, SEEDS, AND GREEN LEAF MATTER. IT SHALL BE NATURALLY DARK BROWN IN COLOR. NO DYED MULCH WILL BE ACCEPTED. MULCH DEPTH SHALL BE THREE (3) INCHES UNLESS OTHERWISE DIRECTED.
9. ANY PLANT WHICH DIES, TURNS BROWN, OR DEFOLIATES (PRIOR TO FINAL ACCEPTANCE OF THE WORK) SHALL BE PROMPTLY REMOVED FROM THE SITE AND REPLACED WITH MATERIAL OF THE SAME SPECIES, QUANTITY AND SIZE MEETING ALL PLANT LIST SPECIFICATIONS.
10. THE CONTRACTOR IS RESPONSIBLE FOR FULLY MAINTAINING ALL PLANT MATERIALS (INCLUDING, BUT NOT LIMITED TO: WATERING, SPRAYING, MULCHING, FERTILIZING, AND REMOVAL OF STAKES AND GUYS) AND LAWN AREAS UNTIL FINAL ACCEPTANCE BY THE OWNER.
11. THE CONTRACTOR SHALL COMPLETELY GUARANTEE ALL PLANT MATERIAL FOR A PERIOD OF ONE (1) YEAR, BEGINNING ON THE DATE OF FINAL ACCEPTANCE. THE CONTRACTOR SHALL PROMPTLY MAKE ALL REPLACEMENTS BEFORE THE END OF THE GUARANTEE PERIOD.
12. ALL AREAS DISTURBED BY UTILITY INSTALLATION AND SITE GRADING ACTIVITY SHALL RECEIVE APPROVED TOPSOIL TO A COMPACTED DEPTH OF FOUR (4) INCHES, UNLESS OTHERWISE SPECIFIED BY THE GOVERNING MUNICIPALITY, BE FINE GRADED, SEEDED, MULCHED AND WATERED UNTIL A HEALTHY STAND OF GRASS IS OBTAINED.
13. ALL TOPSOIL SHALL BE SCREENED LOAM SURFACE SOIL, FREE OF STONES AND SHALL HAVE THE FOLLOWING MINIMUM REQUIREMENTS:
  - a) AN ORGANIC CONTENT OF 6-12%
  - b) SOIL ACIDITY RANGE OF pH 6.0 TO pH 6.8
  - c) SOLUBLE SALTS OF 1000 PPM OR LESS
  - d) MAXIMUM CLAY CONTENT OF 15-20%
14. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING, AT THEIR EXPENSE, A CERTIFIED SOIL TEST ANALYSIS OF ON SITE AND / OR IMPORTED TOPSOIL. TOPSOIL ANALYSIS TO INCLUDE THE FOLLOWING DATA:
  - a) pH FACTOR.
  - b) MECHANICAL ANALYSIS, INCLUDING SIEVE ANALYSIS PROVIDING SEPARATE SAND, SILT AND CLAY PERCENTAGES.
  - c) PERCENTAGE OF ORGANIC CONTENT BY WEIGHT
  - d) NUTRIENT LEVELS INCLUDING NITROGEN, PHOSPHOROUS AND POTASSIUM.
15. SHOULD TESTS AND ANALYSIS INDICATE THAT SOIL PROPOSED FOR USE IS DEFICIENT IN ANY OF THE ABOVE REQUIREMENTS; A SYSTEM OF AMELIORATING MAY BE PROPOSED FOR APPROVAL. ANY SYSTEM PROPOSED SHALL PROVIDE FOR AN ACIDITY RANGE OF Ph 6.0 TO 6.8 INCLUSIVE.
16. COMPOST SHALL MEET THE FOLLOWING MINIMUM REQUIREMENTS:
  - a) ORGANIC CONTENT OF 35-60% (DRY WEIGHT BASIS)
  - b) LOOSE AND FRIABLE WITH MOISTURE CONTENT OF 35-60% (WET WEIGHT BASIS)
  - c) PARTICLE SIZE SHALL BE <1/2 INCH (100% PASSING)
  - d) SOLUBLE SALTS CONCENTRATION SHALL BE <4.0 MMHOS/CM (DS/M), MAXIMUM
  - e) pH RANGE OF 6.0-8.5
17. PLANTING MIX FOR PLANT PITS SHALL BE COMPOSED OF (2) PARTS APPROVED IMPORTED OR ON-SITE SCREENED TOPSOIL AND (1) PART COMPOST.
18. LOCATIONS OF EXISTING BURIED UTILITIES SHOWN ON THE PLAN ARE BASED UPON BEST AVAILABLE INFORMATION AND ARE TO BE CONSIDERED APPROXIMATE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE LOCATIONS OF ALL UNDERGROUND UTILITY LINES ADJACENT TO THE WORK AREA. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ANY AND ALL DAMAGE TO UTILITIES, STRUCTURES AND SITE APPURTENANCES, ETC., WHICH OCCURS AS A RESULT OF THE LANDSCAPE INSTALLATION.
19. THE CONTRACTOR IS RESPONSIBLE FOR INSTALLING ALL PLANT MATERIAL PER DETAILS, ANY DEVIATIONS FROM THE DETAIL MUST BE APPROVED BY THE OWNER'S REPRESENTATIVE OR LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
20. SEE SHEET C505 FOR LANDSCAPE DETAILS.
21. UPON FINAL ACCEPTANCE OF THE LANDSCAPE INSTALLATION, THE OWNER WILL ASSUME MAINTENANCE OF THE LANDSCAPED AREAS.
22. EXISTING TREES TO REMAIN SHALL BE PROTECTED BY INSTALLING A TEMPORARY FENCE AT THE OUTER LIMITS OF THE TREE CANOPY.

 SHADE / ORNAMENTAL / EVERGREEN TREE  
 SHRUB / PERENNIAL / ORNAMENTAL GRASS  
 MULCHED PLANTING BED AREA  
 GROUND COVER PLANTING AREA  
 VEGETATION PROTECTION BARRIER

5 lbs./1,000 s.f.

30% CREEPING RED FESCUE (MIN. 3 VARIETIES)  
50% PERENNIAL RYEGRASS (MIN. 3 VARIETIES)  
20% KENTUCKY BLUEGRASS (MIN. 3 VARIETIES)

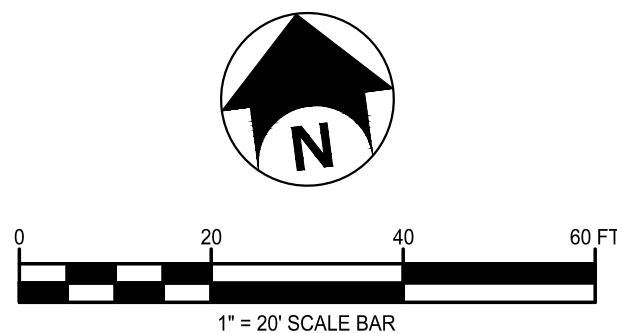




The site plan illustrates a restaurant development with two main buildings, parking areas, and landscaping. The plan includes the following details:

- Buildings:**
  - RESTAURANT B (WITH DRIVE THRU):** 4,500 SF, FFE 437.75
  - RESTAURANT A (WITH MOBILE ORDER PICKUP):** 2,410 SF, FFE 437.75
  - MECHANICAL ROOM (330 SF):** Located adjacent to Restaurant B.
- Parking and Driveways:**
  - Multiple parking stalls are shown, many with dimensions (e.g., 10.0, 10.5, 11.0, 11.5, 12.0, 12.5, 13.0, 13.5, 14.0, 14.5, 15.0, 15.5, 16.0, 16.5, 17.0, 17.5, 18.0, 18.5, 19.0, 19.5, 20.0, 20.5, 21.0, 21.5, 22.0, 22.5, 23.0, 23.5, 24.0, 24.5, 25.0, 25.5, 26.0, 26.5, 27.0, 27.5, 28.0, 28.5, 29.0, 29.5, 30.0, 30.5, 31.0, 31.5, 32.0, 32.5, 33.0, 33.5, 34.0, 34.5, 35.0, 35.5, 36.0, 36.5, 37.0, 37.5, 38.0, 38.5, 39.0, 39.5, 40.0, 40.5, 41.0, 41.5, 42.0, 42.5, 43.0, 43.5, 44.0, 44.5, 45.0, 45.5, 46.0, 46.5, 47.0, 47.5, 48.0, 48.5, 49.0, 49.5, 50.0, 50.5, 51.0, 51.5, 52.0, 52.5, 53.0, 53.5, 54.0, 54.5, 55.0, 55.5, 56.0, 56.5, 57.0, 57.5, 58.0, 58.5, 59.0, 59.5, 60.0, 60.5, 61.0, 61.5, 62.0, 62.5, 63.0, 63.5, 64.0, 64.5, 65.0, 65.5, 66.0, 66.5, 67.0, 67.5, 68.0, 68.5, 69.0, 69.5, 70.0, 70.5, 71.0, 71.5, 72.0, 72.5, 73.0, 73.5, 74.0, 74.5, 75.0, 75.5, 76.0, 76.5, 77.0, 77.5, 78.0, 78.5, 79.0, 79.5, 80.0, 80.5, 81.0, 81.5, 82.0, 82.5, 83.0, 83.5, 84.0, 84.5, 85.0, 85.5, 86.0, 86.5, 87.0, 87.5, 88.0, 88.5, 89.0, 89.5, 90.0, 90.5, 91.0, 91.5, 92.0, 92.5, 93.0, 93.5, 94.0, 94.5, 95.0, 95.5, 96.0, 96.5, 97.0, 97.5, 98.0, 98.5, 99.0, 99.5, 100.0, 100.5, 101.0, 101.5, 102.0, 102.5, 103.0, 103.5, 104.0, 104.5, 105.0, 105.5, 106.0, 106.5, 107.0, 107.5, 108.0, 108.5, 109.0, 109.5, 110.0, 110.5, 111.0, 111.5, 112.0, 112.5, 113.0, 113.5, 114.0, 114.5, 115.0, 115.5, 116.0, 116.5, 117.0, 117.5, 118.0, 118.5, 119.0, 119.5, 120.0, 120.5, 121.0, 121.5, 122.0, 122.5, 123.0, 123.5, 124.0, 124.5, 125.0, 125.5, 126.0, 126.5, 127.0, 127.5, 128.0, 128.5, 129.0, 129.5, 130.0, 130.5, 131.0, 131.5, 132.0, 132.5, 133.0, 133.5, 134.0, 134.5, 135.0, 135.5, 136.0, 136.5, 137.0, 137.5, 138.0, 138.5, 139.0, 139.5, 140.0, 140.5, 141.0, 141.5, 142.0, 142.5, 143.0, 143.5, 144.0, 144.5, 145.0, 145.5, 146.0, 146.5, 147.0, 147.5, 148.0, 148.5, 149.0, 149.5, 150.0, 150.5, 151.0, 151.5, 152.0, 152.5, 153.0, 153.5, 154.0, 154.5, 155.0, 155.5, 156.0, 156.5, 157.0, 157.5, 158.0, 158.5, 159.0, 159.5, 160.0, 160.5, 161.0, 161.5, 162.0, 162.5, 163.0, 163.5, 164.0, 164.5, 165.0, 165.5, 166.0, 166.5, 167.0, 167.5, 168.0, 168.5, 169.0, 169.5, 170.0, 170.5, 171.0, 171.5, 172.0, 172.5, 173.0, 173.5, 174.0, 174.5, 175.0, 175.5, 176.0, 176.5, 177.0, 177.5, 178.0, 178.5, 179.0, 179.5, 180.0, 180.5, 181.0, 181.5, 182.0, 182.5, 183.0, 183.5, 184.0, 184.5, 185.0, 185.5, 186.0, 186.5, 187.0, 187.5, 188.0, 188.5, 189.0, 189.5, 190.0, 190.5, 191.0, 191.5, 192.0, 192.5, 193.0, 193.5, 194.0, 194.5, 195.0, 195.5, 196.0, 196.5, 197.0, 197.5, 198.0, 198.5, 199.0, 199.5, 200.0, 200.5, 201.0, 201.5, 202.0, 202.5, 203.0, 203.5, 204.0, 204.5, 205.0, 205.5, 206.0, 206.5, 207.0, 207.5, 208.0, 208.5, 209.0, 209.5, 210.0, 210.5, 211.0, 211.5, 212.0, 212.5, 213.0, 213.5, 214.0, 214.5, 215.0, 215.5, 216.0, 216.5, 217.0, 217.5, 218.0, 218.5, 219.0, 219.5, 220.0, 220.5, 221.0, 221.5, 222.0, 222.5, 223.0, 223.5, 224.0, 224.5, 225.0, 225.5, 226.0, 226.5, 227.0, 227.5, 228.0, 228.5, 229.0, 229.5, 230.0, 230.5, 231.0, 231.5, 232.0, 232.5, 233.0, 233.5, 234.0, 234.5, 235.0, 235.5, 236.0, 236.5, 237.0, 237.5, 238.0, 238.5, 239.0, 239.5, 240.0, 240.5, 241.0, 241.5, 242.0, 242.5, 243.0, 243.5, 244.0, 244.5, 245.0, 245.5, 246.0, 246.5, 247.0, 247.5, 248.0, 248.5, 249.0, 249.5, 250.0, 250.5, 251.0, 251.5, 252.0, 252.5, 253.0, 253.5, 254.0, 254.5, 255.0, 255.5, 256.0, 256.5, 257.0, 257.5, 258.0, 258.5, 259.0, 259.5, 260.0, 260.5, 261.0, 261.5, 262.0, 262.5, 263.0, 263.5, 264.0, 264.5, 265.0, 265.5, 266.0, 266.5, 267.0, 267.5, 268.0, 268.5, 269.0, 269.5, 270.0, 270.5, 271.0, 271.5, 272.0, 272.5, 273.0, 273.5, 274.0, 274.5, 275.0, 275.5, 276.0, 276.5, 277.0, 277.5, 278.0, 278.5, 279.0, 279.5, 280.0, 280.5, 281.0, 281.5, 282.0, 282.5, 283.0, 283.5, 284.0, 284.5, 285.0, 285.5, 286.0, 286.5, 287.0, 287.5, 288.0, 288.5, 289.0, 289.5, 290.0, 290.5, 291.0, 291.5, 292.0, 292.5, 293.0, 293.5, 294.0, 294.5, 295.0, 295.5, 296.0, 296.5, 297.0, 297.5, 298.0, 298.5, 299.0, 299.5, 300.

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StatArea_2
Illuminance (Fc)
Average = 5.62
Maximum = 6.2
Minimum = 4.8
Avg/Min Ratio = 1.17
Max/Min Ratio = 1.29
```



**Route 5 Development  
Company, LLC.**

**PROPOSED  
RESTAURANT A /  
RESTAURANT B**

LOT 15 -TOWNE CENTER  
AT FAYETTEVILLE  
406 TOWNE DRIVE  
FAYETTEVILLE, NY 13066

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|                                       |                                       |
|---------------------------------------|---------------------------------------|
| Project Manager<br><b>A HART, RLA</b> | Discipline Lead<br><b>E SHAW, RLA</b> |
| Designer<br><b>V MICKEL</b>           | Reviewer<br><b>K HURLEY, PE</b>       |
| Date Issued<br><b>06/30/2021</b>      | Project Number<br><b>15105.00</b>     |

Sheet Name

## PHOTOMETRIC PLAN

Drawing Number

# C150

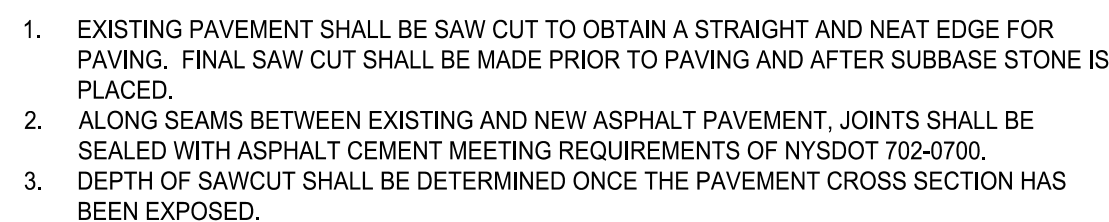




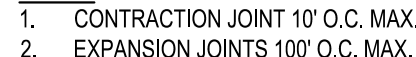




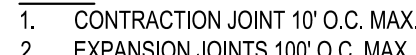




N.T.S.



N.T.S.



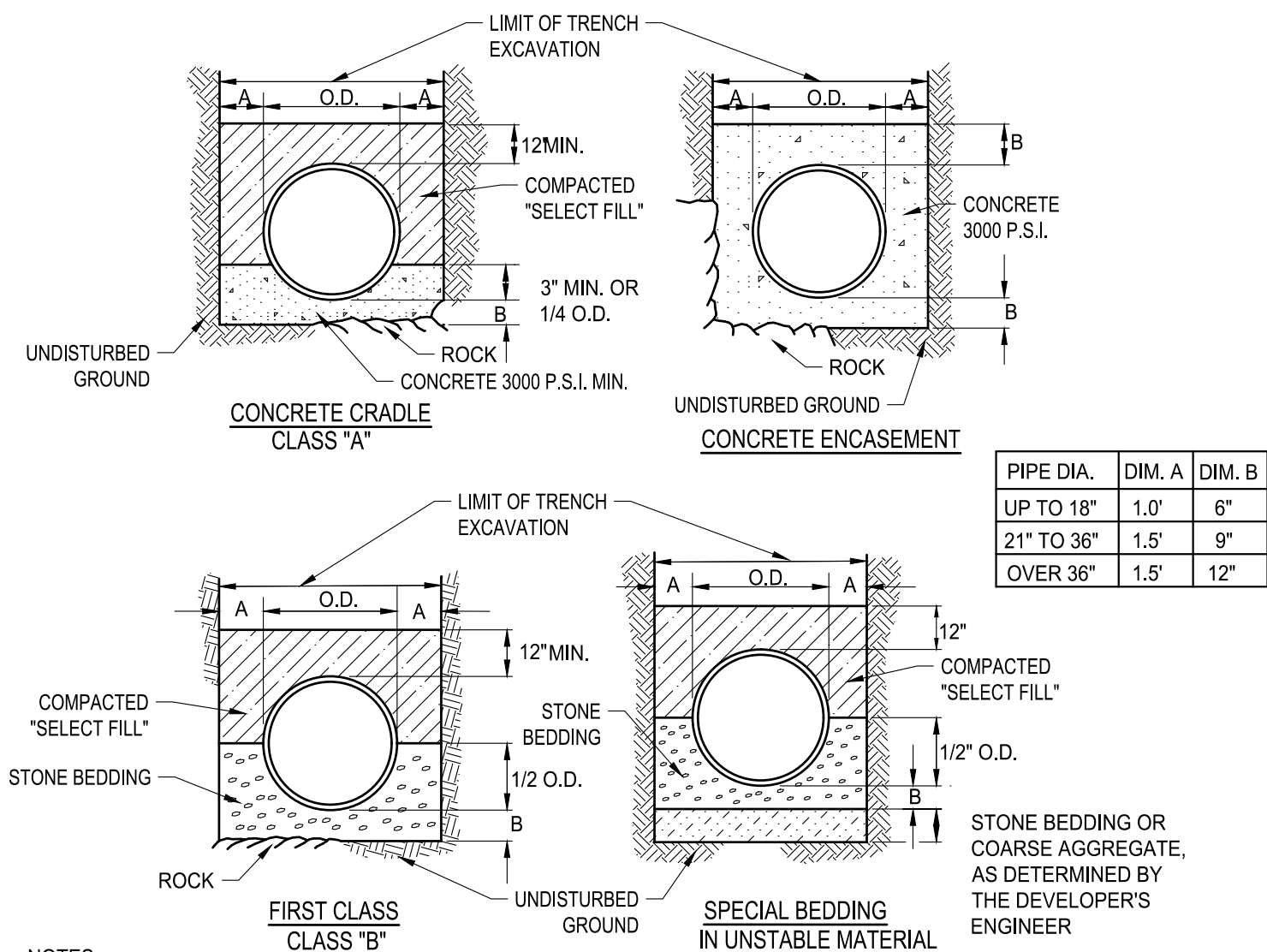
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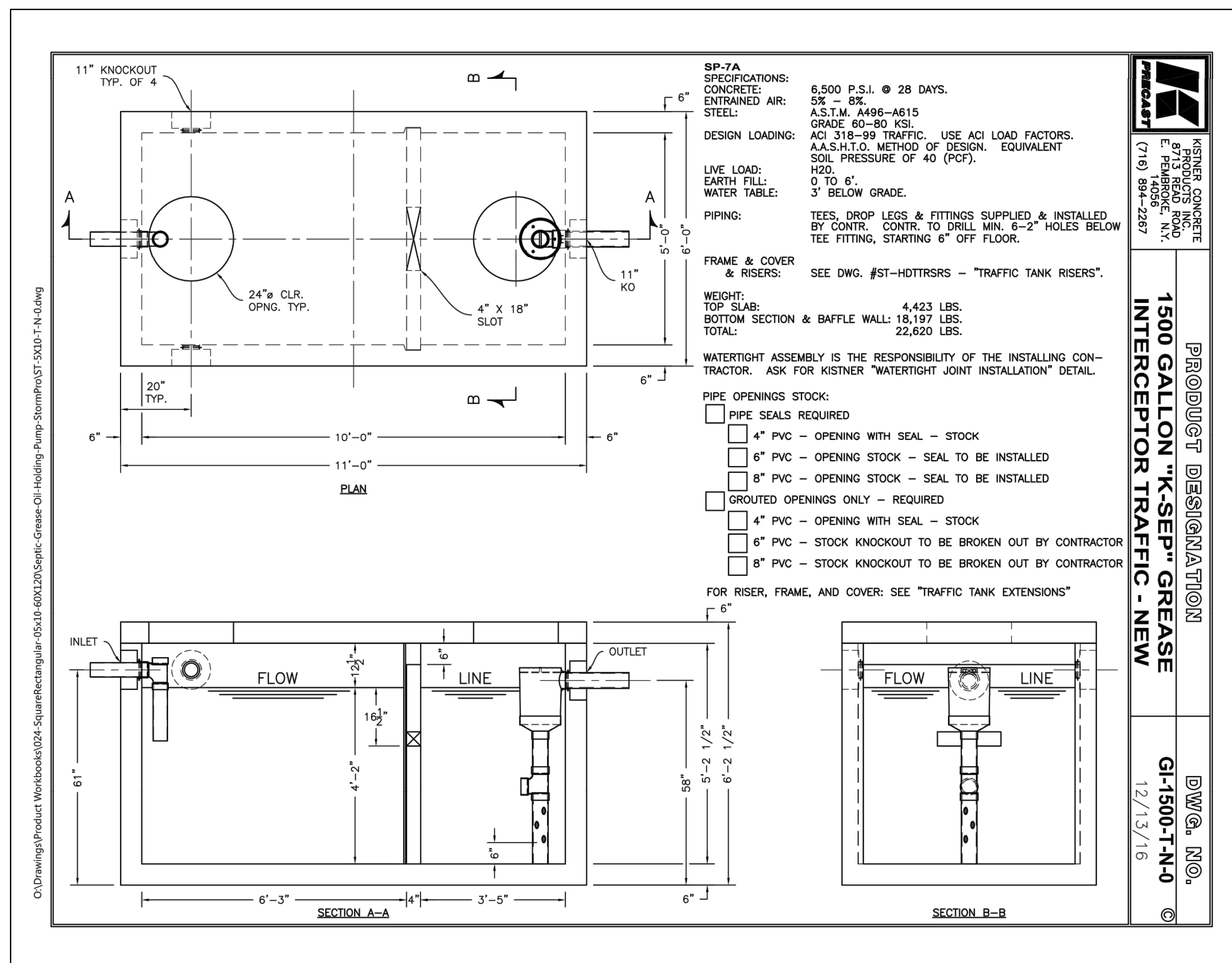
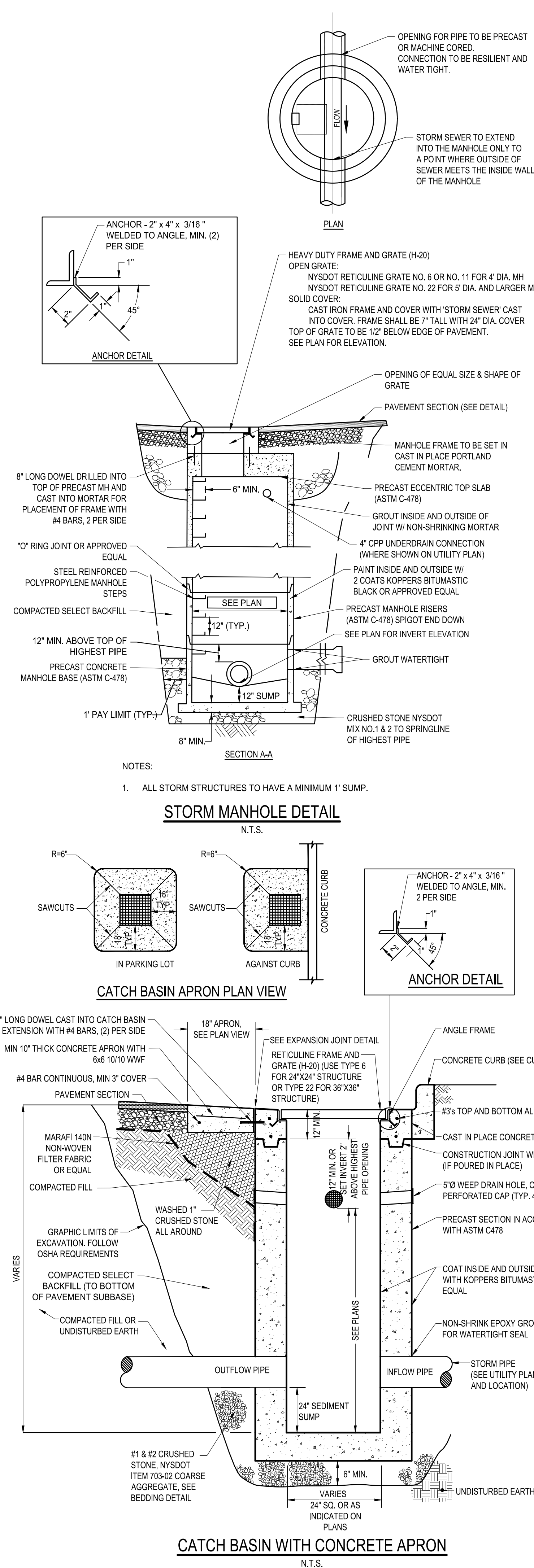
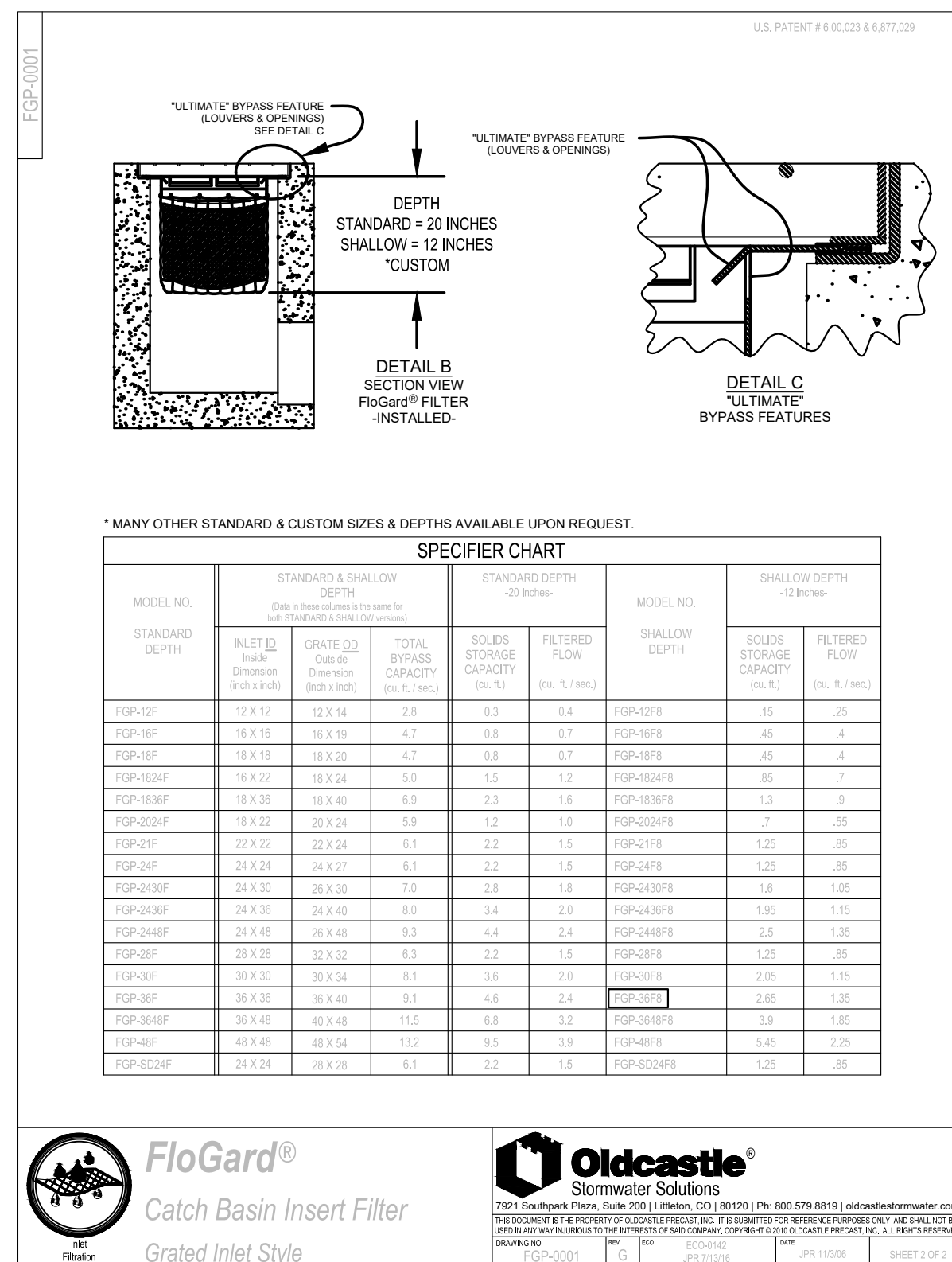
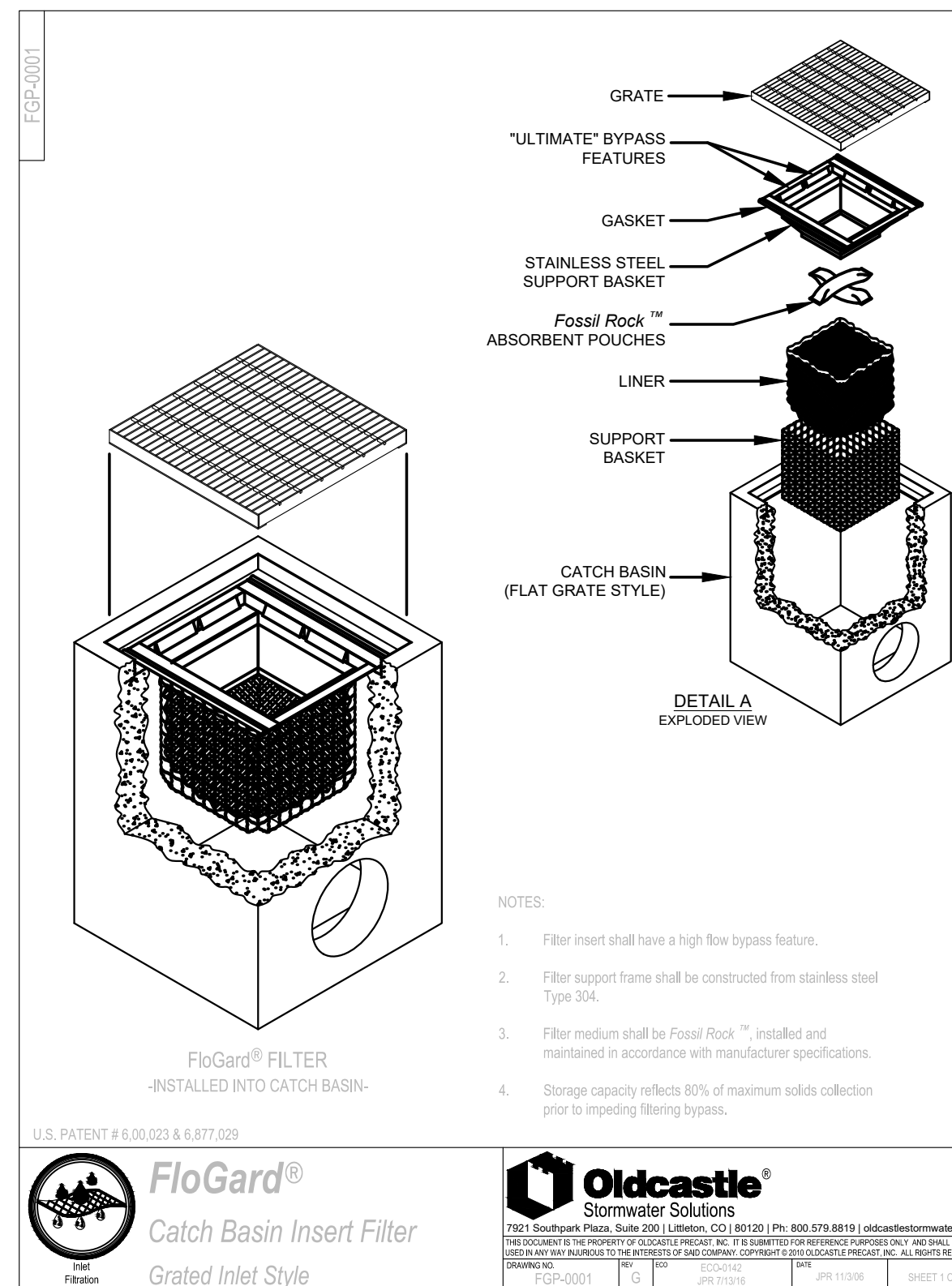
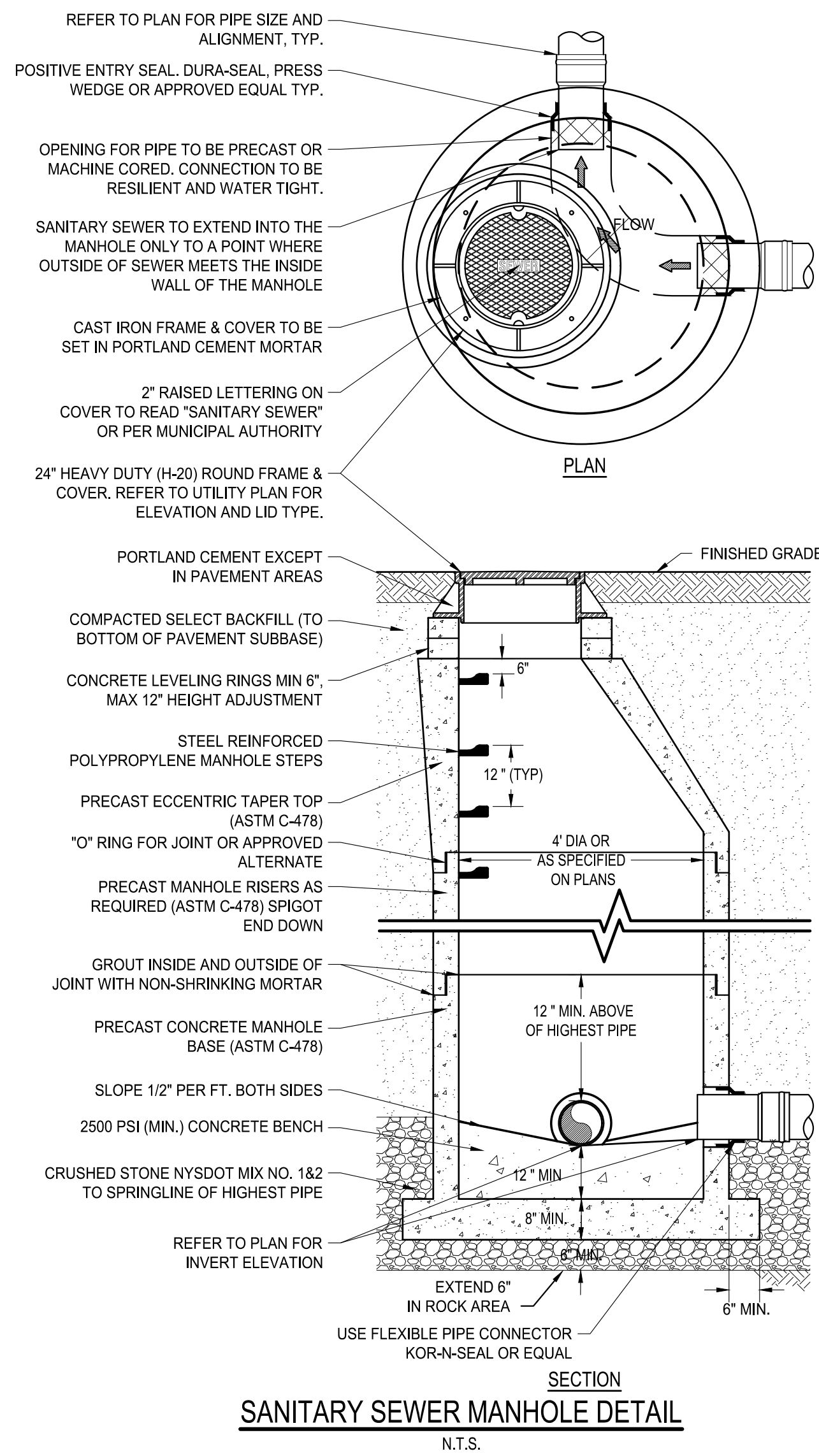






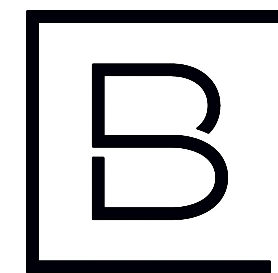
## UTILITY BEDDING MATERIAL DETAIL

N.T.S.



## GREASE TRAP DETAIL

N.T.S.



**BERGMANN**  
ARCHITECTS ENGINEERS PLANNERS

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Suite 200  
Rochester, NY 14604

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**Route 5 Development  
Company, LLC.**

**PROPOSED  
RESTAURANT A /  
RESTAURANT B**

LOT 15 -TOWNE CENTER  
AT FAYETTEVILLE  
406 TOWNE DRIVE  
FAYETTEVILLE, NY 13066

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|                                       |                                       |
|---------------------------------------|---------------------------------------|
| Project Manager<br><b>A HART, RLA</b> | Discipline Lead<br><b>E SHAW, RLA</b> |
| Designer<br><b>V MICKEL</b>           | Reviewer<br><b>K HURLEY, PE</b>       |
| Date Issued<br><b>06/30/2021</b>      | Project Number<br><b>15105.00</b>     |

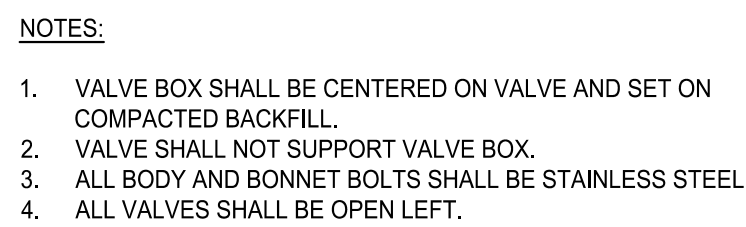
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## MISCELLANEOUS DETAILS

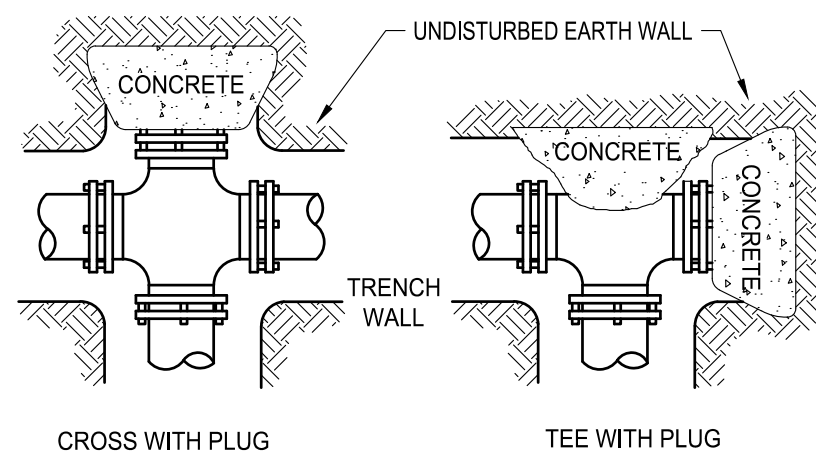
Drawing Number

# C503





GATE VALVE DETAIL (WATER MAIN)  
N.T.S.



| HORIZONTAL THRUST BLOCKING                  |               |       |     |         |
|---------------------------------------------|---------------|-------|-----|---------|
| (BLOCKING HEIGHT GREATER THAN PIPE O.D.)    |               |       |     |         |
| (BLOCKING WIDTH BETWEEN 1 & 2 TIMES HEIGHT) |               |       |     |         |
| REQUIRED SQ. FT. OF UNDISTURBED             |               |       |     |         |
| EARTH WALL FOR REACTION BACKING             |               |       |     |         |
| TYPE OF FITTINGS                            |               |       |     |         |
| PIPE<br>SIZE                                | TEE &<br>PLUG | BENDS |     |         |
|                                             |               | 90°   | 45° | 22 1/2° |
| 4-6"                                        | 3.2           | 4.5   | 2.5 | 1.3     |
| 8"                                          | 3.2           | 5.6   | 2.5 | 1.3     |
| 12"                                         | 3.2           | 12.75 | 3.7 | 1.3     |

## HORIZONTAL THRUST BLOCKING



**DOWNWARD THRUST BLOCKING**  
(SEE HORIZONTAL BLOCKING DETAIL)  
(ALL BENDS SIMILAR)

| UPWARD THRUST BLOCKING                                    |            |            |      |            |            |      |            |            |      |            |            |      |
|-----------------------------------------------------------|------------|------------|------|------------|------------|------|------------|------------|------|------------|------------|------|
| (REQUIRED REINFORCING BARS & CUBIC YARDS OF P.C. CONCRETE |            |            |      |            |            |      |            |            |      |            |            |      |
| PIPE SIZE                                                 | 90° BEND   |            |      | 45° BEND   |            |      | 22½° BEND  |            |      | 11½° BEND  |            |      |
|                                                           | CONC. C.Y. | REINF QTY. | SIZE | CONC. C.Y. | REINF QTY. | SIZE | CONC. C.Y. | REINF QTY. | SIZE | CONC. C.Y. | REINF QTY. | SIZE |
| 4-6"                                                      | 2.6        | 4          | #5   | 2.1        | 4          | #5   | 1.1        | 4          | #5   | 0.6        | 4          | #5   |
| 8"                                                        | 2.9        | 4          | #5   | 2.1        | 4          | #5   | 1.1        | 4          | #5   | 0.6        | 4          | #5   |
| 12"                                                       | 6.6        | 4          | #5   | 4.7        | 4          | #5   | 2.5        | 4          | #5   | 1.3        | 4          | #5   |

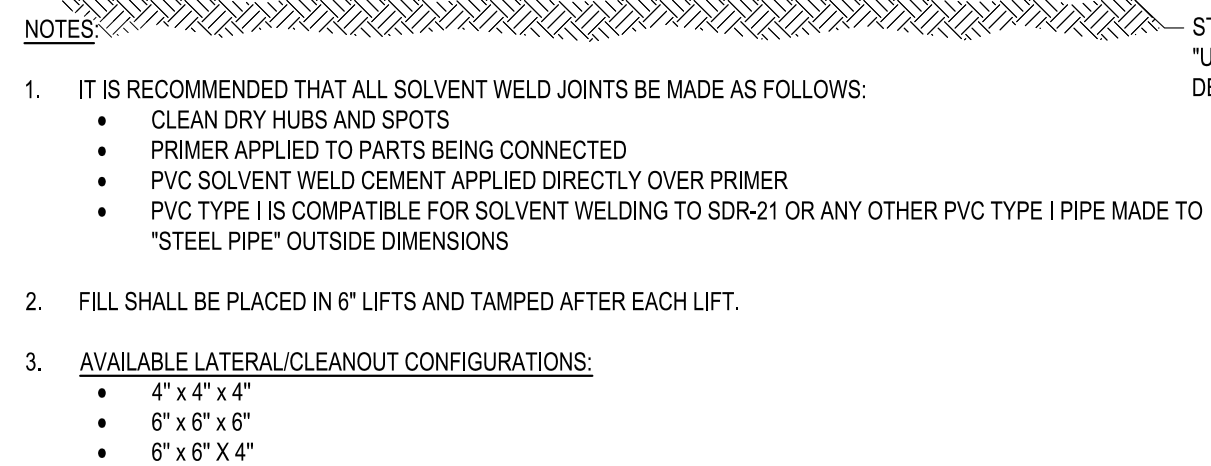
## VERTICAL THRUST BLOCKING

- NOTES:
1. DO NOT COVER BELLS OR FLANGES WITH CONCRETE
  2. WRAP ALL FITTINGS WITH VISQUEEN.
  3. BACK ALL TEES ACCORDING TO SIZE OF BRANCH.
  4. BACKING FUTURE LINE EXTENSIONS SHALL BE SUCH THAT LATER REMOVAL IS POSSIBLE.
  5. ALL BENDS WHERE FITTINGS ARE USED, BOTH HORIZONTAL OR VERTICAL SHALL BE BACKED.
  6. REACTION BACKING TABLE IS BASED ON 150 P.S.I. AND SOIL BEARING PRESSURE OF 2,000 lb./sq.ft. ADDITIONAL BACKING MAY BE REQUIRED IN SOME AREAS AS DIRECTED BY ENGINEERS.
  7. ALL CONCRETE SHALL BE 2500 P.S.I. MIN. .

THRUST BLOCKING DETAIL  
N.T.S.



- NOTES:**
1. INSTALL THE RODS ON SIDES OF PIPE; NOT TOP AND BOTTOM.
  2. THIS DETAIL APPLIES TO RELOCATION OF WATER MAINS UNDER THE PROPOSED STORM SEWER AND TO INSTALL THE PROPOSED WATER MAIN UNDER OTHER EXISTING UTILITIES OR CONFLICTS.
  3. THE EXISTING WATER MAIN SHALL BE LOWERED AT ALL CROSSINGS UNLESS OTHERWISE DIRECTED BY THE ENGINEER IN THE FIELD.



SEWER LATERAL CLEAN-OUT  
N.T.S.



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**Route 5 Development  
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| Date Issued<br><b>06/30/2021</b>      | Project Number<br><b>15105.00</b>     |

Sheet Name

## MISCELLANEOUS DETAILS

Drawing Number

# C504









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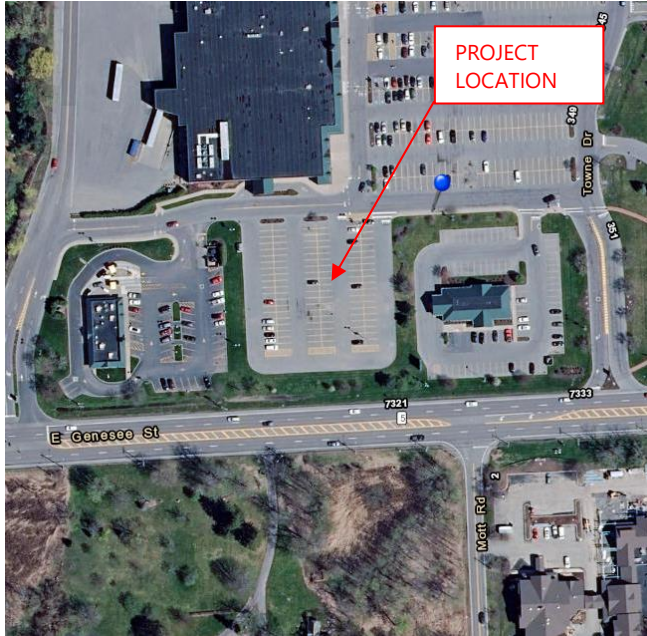
## Proposed Restaurant A and Restaurant B

406 Towne Drive, Fayetteville, NY 13066

## Stormwater Management Report

PREPARED FOR: Route 5 Development Company, LLC

540 Towne Drive, Fayetteville, NY 13066



Bergmann

Office:

280 East Broad Street, Suite 200  
Rochester, NY 14604

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April 29, 2021

Rev: June 30, 2021





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## 1.0 GENERAL INFORMATION

### 1.1 PROJECT DESCRIPTION

This Stormwater Management Report is for the approximate 7,420 sf proposed retail development at 406 Towne Drive, Fayetteville, NY. The project site is bounded by three commercial sites to the west, north and east. East Genesee Street is located to the south.

The existing site contains 1.39 acres of impervious surfaces. The proposed site contains 1.435 acres of impervious surfaces. This proposed site design results in a 0.045 (3%) increase in impervious surfaces in comparison to the existing developed site. However, this increase does not result in an increase in peak flow created by the proposed development and will not cause an impact to existing downstream structures and properties from the proposed site improvements. With the increase of 3% impervious surfaces, the proposed project site will need to meet the requirements of the New York State Stormwater Management Design Manual (Chapter 9 – Redevelopment) and needs to provide water quality treatment.

#### SOIL CLASSIFICATION

According to the Natural Resources Conservation Service website (NRCS), there are five (5) mapped soil units identified on the project property (see Appendix D). Teel Silt Loam is the dominant soil type and is located on approximately 73 percent of the project contributing drainage area. Teel is moderately well drained with a restrictive layer of more than 80". Hamlin Silt Loam consist of well-drained soil with a depth of 3' to 6' water level. Fluvaquents are frequently flooded with a depth to restrictive layer of 80". to somewhat excessively drained soils that have been smoothed or filled.

The complete list of soils found on the project site is identified in the table below (see Appendix D for soils map).

**Table I- Onondaga County Soils Summary**

| Symbol | Soil Name             | Hydrologic Soil Group |
|--------|-----------------------|-----------------------|
| Te     | Teel Silt Loam        | B                     |
| CfB    | Cazenovia Silt Loam   | B                     |
| FL     | Fluvaquents           | ---                   |
| Hb     | Hamlin Silt Loam      | B                     |
| Wn     | Wayland Soils Complex | D                     |





## 2.0 HYDROLOGY

### 2.1 METHODOLOGY

Stormwater runoff rates discharged from the site under the existing conditions provide the basis on which to compare the impacts of the proposed site improvements. Analysis points are established where runoff exits the site to provide a fixed location at which existing and proposed stormwater quantities can be compared. The areas draining to each analysis points are delineated using topographic survey maps, grading plans and utility plans. HydroCAD 10.00-24 by HydroCAD Software Solutions LLC was used to model the existing and proposed condition. This program simulates the USDA Soil Conservation Service's TR-20 hydrologic model to analyze discharges from drainage areas and retention basins.

The parameters required to calculate stormwater runoff are area, curve number, and time of concentration. Each drainage area is evaluated using the guidelines described in USDA Soil Conservation Service's TR-55 to determine the curve number and time of concentration.

The runoff curve number (CN) is based on a weighted average of ground cover and soil type. The underlying soil types are described in County soil maps. Site and grading plans and survey maps outline existing and proposed ground cover. CN values for specific locations are determined from the tables presented in TR-55.

Time of concentration ( $T_c$ ) represents the amount of time it takes for runoff to travel from the hydraulically most distant point of the watershed to the point of analysis. Surface roughness, slope, channel shape and flow patterns are the factors that affect the time of concentration. Stormwater runoff flows through the drainage area as sheet flow, shallow concentrated flow, open channel flow, or concentrated flow (such as in storm sewers). For this report sheet flow will become shallow concentrated flow after a maximum of 100 feet for the existing and proposed conditions. The sum of the travel times over the various surfaces within the assumed flow path for a specific drainage area determines that area's time of concentration. The figures and formulas in TR-55 are employed to compute travel times for sheet flow and shallow concentrated flow. Manning's equation is used to determine flow velocities through pipes.

### 2.2 EXISTING CONDITIONS

The existing drainage area comprises a total of 1.83 acres. This includes the entire developed portion of the site. This area consists of pavement and grass. This area drains via sheet flow across the existing site and a stormwater drainage system.

Table II summarizes the hydrologic characteristics of the drainage area described above. See Appendix A for computations for the existing drainage conditions.





**Table II**  
**Existing Conditions Summary**

| Drainage Area | Size (ac) | Composite Cn | Tc (min) |
|---------------|-----------|--------------|----------|
| Area E-1      | 1.83      | 89           | 6.0      |
|               |           |              |          |

### 2.3 PROPOSED CONDITIONS

The proposed drainage area comprises a total of 1.83 acres. This includes the proposed disturbed portion of the site. This area consists of pavement, building and grass. This area drains via sheet flow and a closed conduit storm sewer system.

Table III summarizes the hydrologic characteristics of the drainage area described above. See Appendix B for computations for the proposed drainage conditions.

**Table III**  
**Proposed Conditions Summary**

| Drainage Area | Size (ac) | Composite Cn | Tc (min) |
|---------------|-----------|--------------|----------|
| Area P-1      | 1.01      | 92           | 6.0      |
| Area P-2      | 0.26      | 88           | 6.0      |
| Area P-3      | 0.56      | 85           | 6.0      |

## 3.0 STORMWATER MANAGEMENT & SPDES PHASE II REQUIREMENTS

### State Pollutant Discharge Elimination System (SPDES)

Since the subject site will have land disturbance of more than 1-acre a State Pollutant Discharge Elimination System (SPDES) permit will be completed as part of the project. A Storm Water Pollution Prevention Plan (SWPPP) has been developed in accordance with the EPA Phase II regulations. The SWPPP will be for the most part modeled on the New York State DEC Guidelines and will meet the following criteria as the principal objectives contained in an approved SWPPP.





- 1) Reduction or elimination of erosion and sediment loading to waterbodies during construction activities.
- 2) Control the impact of storm water runoff on the water quality of the receiving waters.
- 3) Control the increase volume and peak runoff rate of runoff during and after construction.
- 4) Maintenance of storm water controls during and after completion of construction.

The aforementioned objectives will be accomplished by incorporating several of the design criteria outlined within the Technical Guidelines provided by New York State Department of Environmental Conservation, Stormwater Management Design Manual and summarized below.

### 3.1 WATER QUALITY AND QUANTITY VOLUME

The New York State Department of Environmental Conservation, Stormwater Management Design Manual was used to determine the water quality criteria. Specifically, the unified storm water sizing criteria was followed for water quality to meet the State of New York pollutant goals. The water quantity volume is intended to improve water quality by capturing and treating 90% of the average annual storm water runoff volume. The following equation is given within the design manual for calculating the water quality storage volume and was used to size subject practices.

Per Chapter 9 of the Stormwater Management Design Manual this project would be considered a redevelopment project since there are existing developed areas on site. The increase in impervious area and stormwater discharge from the site. Under Section 9.2.1 Water Quality and Quantity Controls are sized by:

#### A. Water Quantity

- I. Redevelopment activities that result in no change to the discharge from the site, the ten-year and hundred-year criteria does not apply.

#### B. Water Quality – treatment objectives shall be achieved by the following:

- I. For both new development and redevelopment, treatment would be required for 25% of the existing, disturbed impervious area, however, the stormwater management practices for the new development portion of the project must be designed in accordance with the sizing in Chapter 4.
- II. Plans that use alternate SMPs are to treat 75% of the water quality volume from the disturbed, impervious area as well as runoff from additional runoff from tributary areas.

### 3.2 CHANNEL PROTECTION VOLUME

The New York State Department of Environmental Conservation, Stormwater Management Design Manual is used to determine the water quantity criteria. Specifically, mitigating the 10-year and 100-year post-development runoff rates to the predevelopment runoff rates.





#### A. Water Quantity (Chapter 9.2.1)

- I. Channel Protection is not required if there are no changes to hydrology that increases the discharge rate to the proposed site.

### 3.3 RUNOFF REDUCTION VOLUME

The Runoff Reduction Volume (RRv) for the site shall be equal to 100% of the water quality volume per section 4.3 of the Stormwater Management Design Manual. Runoff Reduction Volume (RRv) is not required for redevelopment sites.

### 3.4 OVERBANK FLOOD

Overbank flood protection is provided by controlling the peak discharge from the 10-year storm to 10-year predevelopment rates. Overbank flood protection is not required for a redevelopment project if there is no increase in the impervious area or changes to the hydrology that increases the discharge rate. The HydroCAD report contained in Appendix A and B of this report as well as Table IV below show that there is no increase in discharge from this site for the 10-year storm.

### 3.5 EXTREME STORM

Extreme storm protection is provided by controlling the peak discharge from the 100-year storm to 100-year predevelopment rates. Extreme storm protection is not required for a redevelopment project if there is no increase in the impervious area or changes to the hydrology that increases the discharge rate. The HydroCAD report contained in Appendix A and B of this report as well as Table V below shows that there is no increase in discharge from this site for the 100-year storm.





## 4.0 SUMMARY OF FINDINGS

### 4.1 SUMMARY OF RESULTS

Tables IV and V depict the peak discharges from the site for each of the design storms for the existing and proposed conditions.

**Table IV-Existing and Proposed Peak Discharge for the 1-Year Storm (cfs)**

| Drainage Area | 1 yr Design Storm Discharge |          |
|---------------|-----------------------------|----------|
|               | Existing                    | Proposed |
| Existing E-1  | 3.35                        |          |
| Proposed P-T  |                             | 1.25     |

**Table V-Existing and Proposed Peak Discharge for the 10-Year Storm (cfs)**

| Drainage Area | 10 yr Design Storm Discharge |          |
|---------------|------------------------------|----------|
|               | Existing                     | Proposed |
| Existing E-1  | 7.19                         |          |
| Proposed P-T  |                              | 2.84     |

**Table VI-Existing and Proposed Peak Discharge for the 100-Year Storm (cfs)**

| Drainage Area      | 100 yr Design Storm Discharge |          |
|--------------------|-------------------------------|----------|
|                    | Existing                      | Proposed |
| Existing E-1       | 11.75                         |          |
| Proposed P-1 & P-2 |                               | 5.64     |

As depicted in the tables above, the peak discharge from the site for each of the design storms will be decreased after this project is constructed.





## 4.2 CONCLUSION

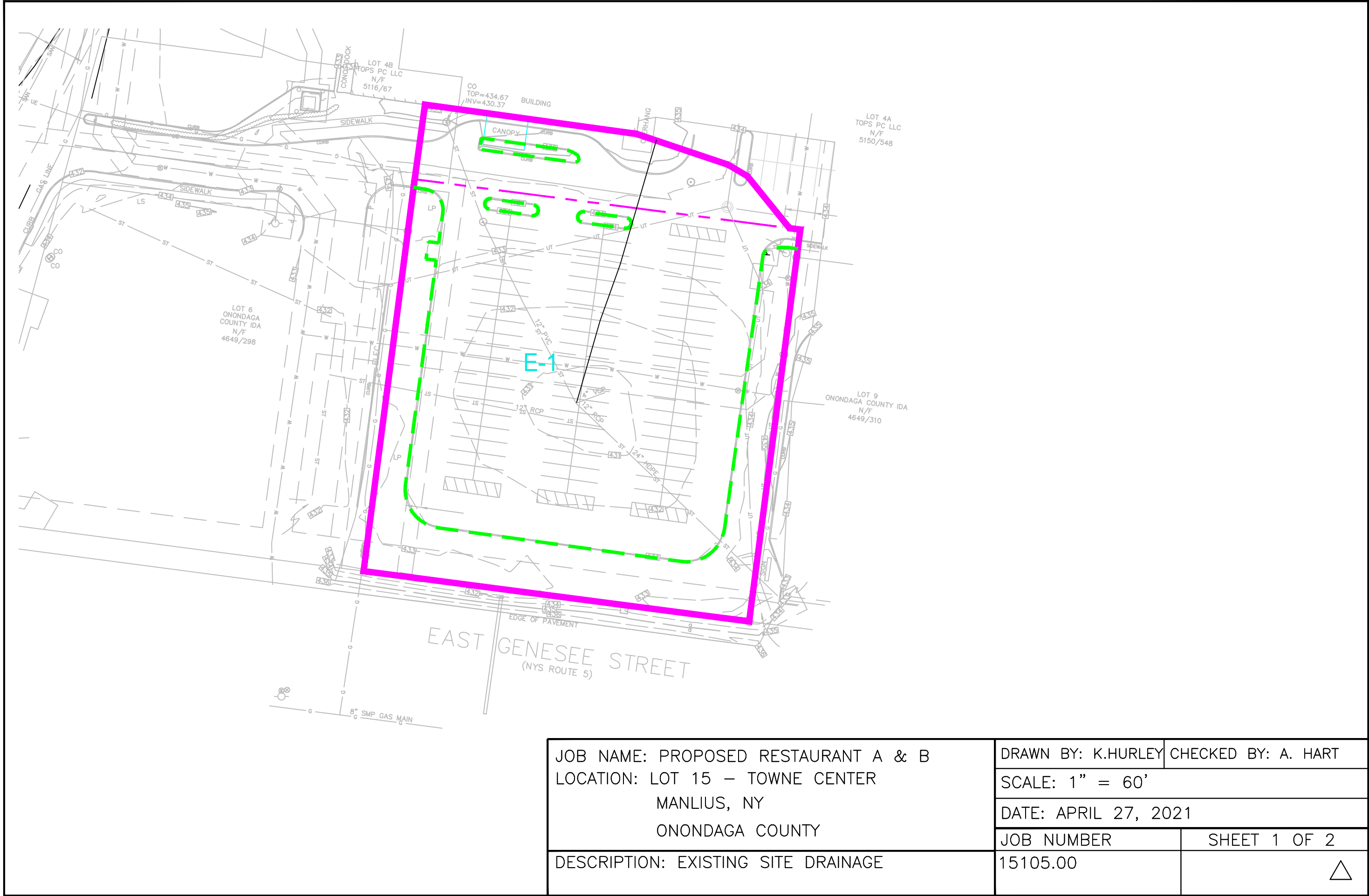
Based on the calculations attached in the Appendices of this report, the proposed site design will provide water quality treatment of 75% due to the use of alternate SMP for the redevelopment areas and 100% water quality treatment for new impervious areas. Therefore, this project has provided sufficient mitigation to minimize the effect to stream systems and properties.





**Appendix A**

***Existing Conditions Drainage Map  
And Hydrograph Reports***



JOB NAME: PROPOSED RESTAURANT A & B  
LOCATION: LOT 15 – TOWNE CENTER  
MANLIUS, NY  
ONONDAGA COUNTY

DESCRIPTION: EXISTING SITE DRAINAGE

DRAWN BY: K.HURLEY | CHECKED BY: A. HART

SCALE: 1" = 60'

DATE: APRIL 27, 2021

JOB NUMBER

15105.00

SHEET 1 OF 2





**015105 COR Existing**

Prepared by BERGMANN

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Restaurant A&B  
Type II 24-hr 1-yr Rainfall=2.04"

Printed 4/28/2021

Page 1

**Summary for Subcatchment E-1: Existing Drainage**

Runoff = 3.35 cfs @ 11.97 hrs, Volume= 0.163 af, Depth= 1.06"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 1.00-140.00 hrs, dt= 0.05 hrs  
Type II 24-hr 1-yr Rainfall=2.04"

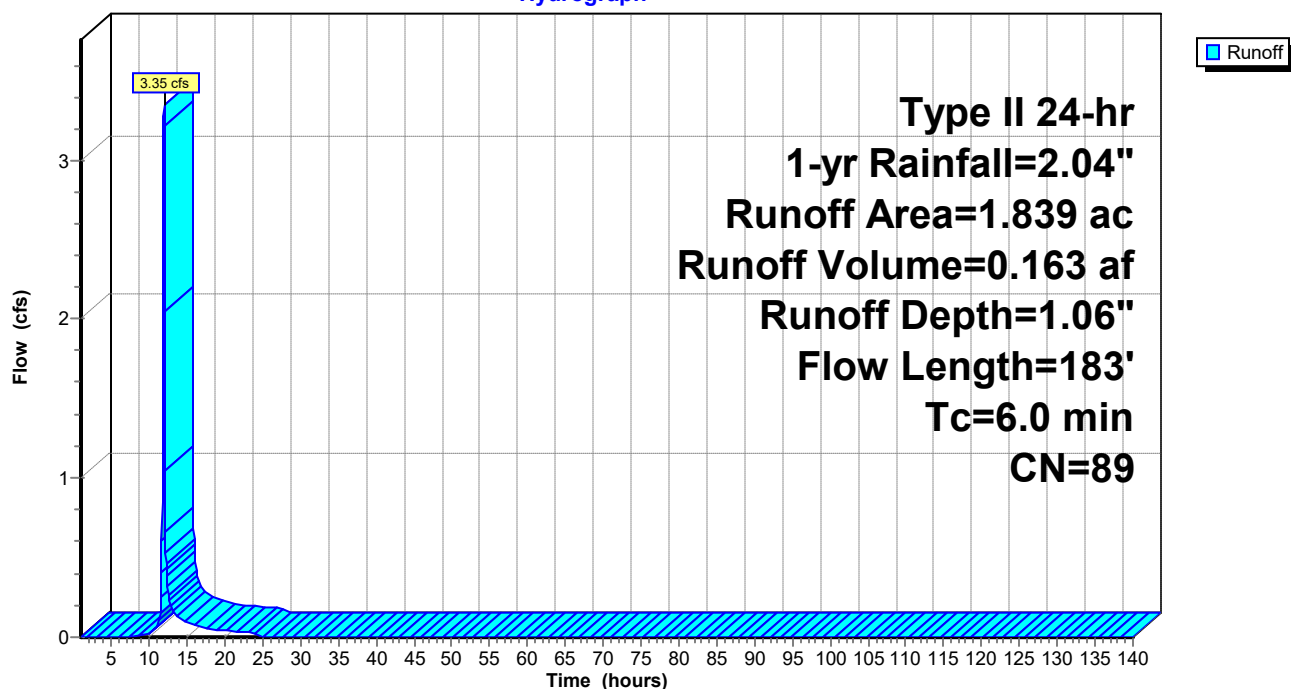
| Area (ac) | CN | Description                   |
|-----------|----|-------------------------------|
| 1.390     | 98 | Unconnected pavement, HSG B   |
| 0.449     | 61 | >75% Grass cover, Good, HSG B |
| 1.839     | 89 | Weighted Average              |
| 0.449     |    | 24.42% Pervious Area          |
| 1.390     |    | 75.58% Impervious Area        |
| 1.390     |    | 100.00% Unconnected           |

| Tc (min) | Length (feet) | Slope (ft/ft) | Velocity (ft/sec) | Capacity (cfs) | Description                            |
|----------|---------------|---------------|-------------------|----------------|----------------------------------------|
| 1.2      | 100           | 0.0280        | 1.36              |                | <b>Sheet Flow, Pavement Sheet Flow</b> |
|          |               |               |                   |                | Smooth surfaces n= 0.011 P2= 2.38"     |
| 0.4      | 83            | 0.0270        | 3.34              |                | <b>Shallow Concentrated Flow, BC</b>   |
|          |               |               |                   |                | Paved Kv= 20.3 fps                     |
| 4.4      |               |               |                   |                | <b>Direct Entry, Balance to 6 min</b>  |
| 6.0      | 183           | Total         |                   |                |                                        |

**Subcatchment E-1: Existing Drainage**

Hydrograph



**015105 COR Existing**

Prepared by BERGMANN

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Restaurant A&B  
Type II 24-hr 10-yr Rainfall=3.48"

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Page 2

**Summary for Subcatchment E-1: Existing Drainage**

Runoff = 7.19 cfs @ 11.97 hrs, Volume= 0.358 af, Depth= 2.34"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 1.00-140.00 hrs, dt= 0.05 hrs  
Type II 24-hr 10-yr Rainfall=3.48"

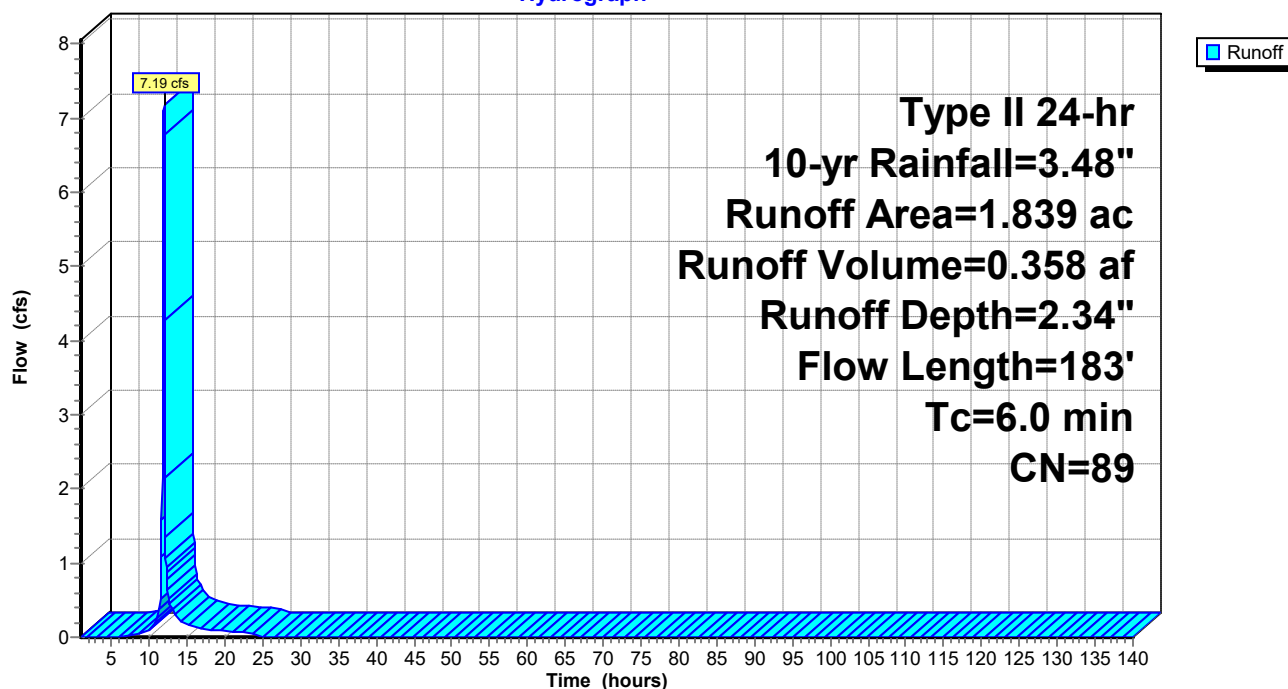
| Area (ac) | CN | Description                   |
|-----------|----|-------------------------------|
| 1.390     | 98 | Unconnected pavement, HSG B   |
| 0.449     | 61 | >75% Grass cover, Good, HSG B |
| 1.839     | 89 | Weighted Average              |
| 0.449     |    | 24.42% Pervious Area          |
| 1.390     |    | 75.58% Impervious Area        |
| 1.390     |    | 100.00% Unconnected           |

| Tc (min) | Length (feet) | Slope (ft/ft) | Velocity (ft/sec) | Capacity (cfs) | Description                            |
|----------|---------------|---------------|-------------------|----------------|----------------------------------------|
| 1.2      | 100           | 0.0280        | 1.36              |                | <b>Sheet Flow, Pavement Sheet Flow</b> |
|          |               |               |                   |                | Smooth surfaces n= 0.011 P2= 2.38"     |
| 0.4      | 83            | 0.0270        | 3.34              |                | <b>Shallow Concentrated Flow, BC</b>   |
|          |               |               |                   |                | Paved Kv= 20.3 fps                     |
| 4.4      |               |               |                   |                | <b>Direct Entry, Balance to 6 min</b>  |
| 6.0      | 183           | Total         |                   |                |                                        |

**Subcatchment E-1: Existing Drainage**

Hydrograph





**015105 COR Existing**

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Restaurant A&B  
Type II 24-hr 100-yr Rainfall=5.17"

Printed 4/28/2021

Page 3

**Summary for Subcatchment E-1: Existing Drainage**

Runoff = 11.75 cfs @ 11.96 hrs, Volume= 0.603 af, Depth= 3.93"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 1.00-140.00 hrs, dt= 0.05 hrs  
Type II 24-hr 100-yr Rainfall=5.17"

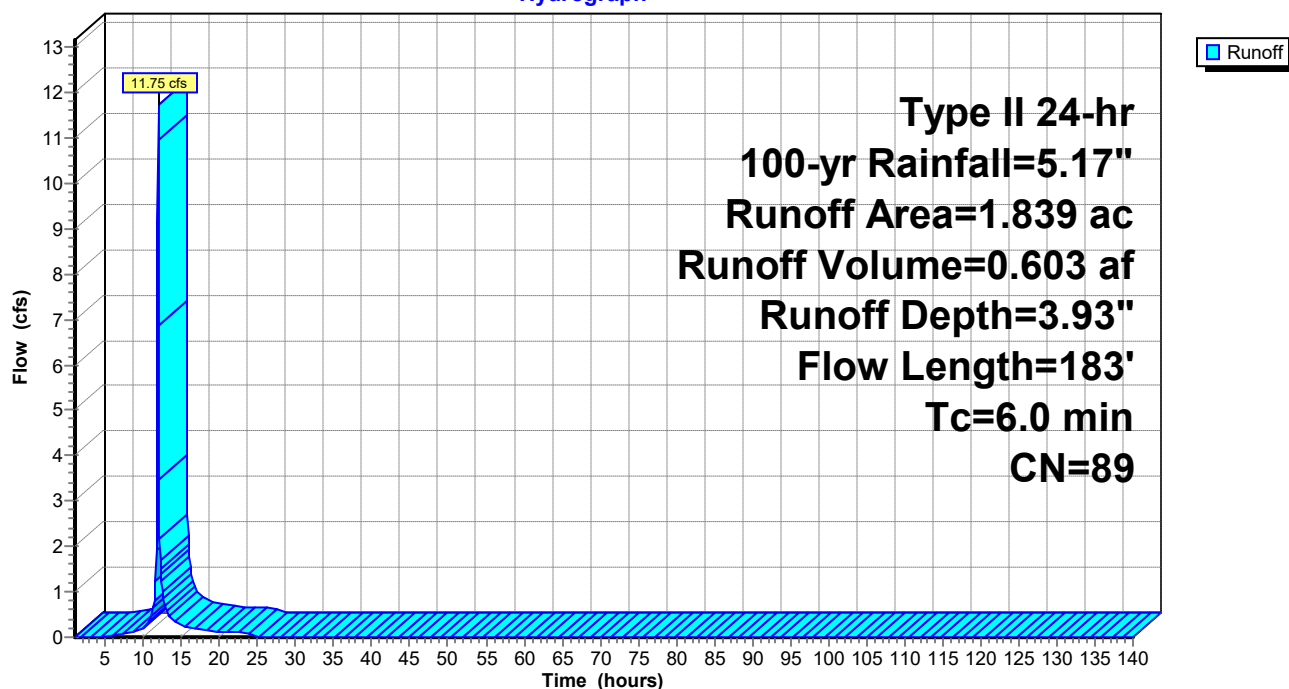
| Area (ac) | CN | Description                   |
|-----------|----|-------------------------------|
| 1.390     | 98 | Unconnected pavement, HSG B   |
| 0.449     | 61 | >75% Grass cover, Good, HSG B |
| 1.839     | 89 | Weighted Average              |
| 0.449     |    | 24.42% Pervious Area          |
| 1.390     |    | 75.58% Impervious Area        |
| 1.390     |    | 100.00% Unconnected           |

| Tc (min) | Length (feet) | Slope (ft/ft) | Velocity (ft/sec) | Capacity (cfs) | Description                            |
|----------|---------------|---------------|-------------------|----------------|----------------------------------------|
| 1.2      | 100           | 0.0280        | 1.36              |                | <b>Sheet Flow, Pavement Sheet Flow</b> |
|          |               |               |                   |                | Smooth surfaces n= 0.011 P2= 2.38"     |
| 0.4      | 83            | 0.0270        | 3.34              |                | <b>Shallow Concentrated Flow, BC</b>   |
|          |               |               |                   |                | Paved Kv= 20.3 fps                     |
| 4.4      |               |               |                   |                | <b>Direct Entry, Balance to 6 min</b>  |
| 6.0      | 183           | Total         |                   |                |                                        |

**Subcatchment E-1: Existing Drainage**

Hydrograph

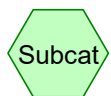
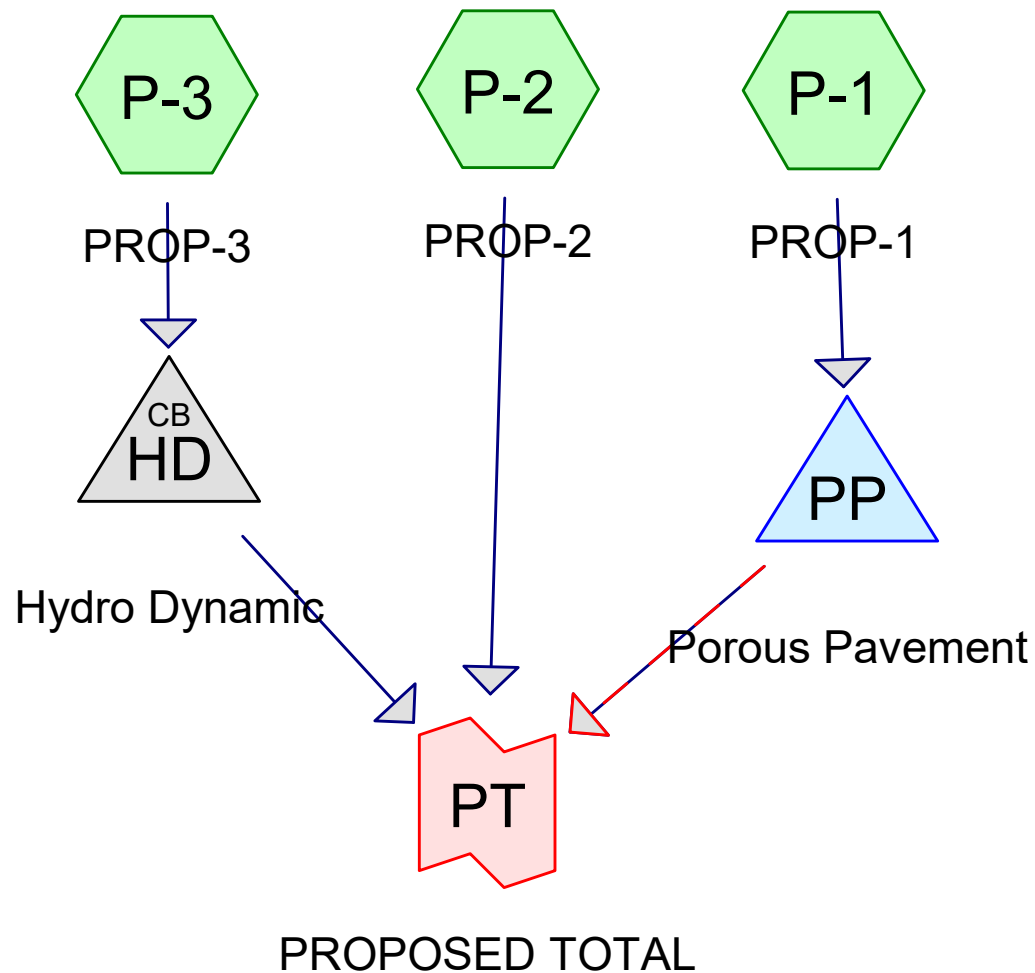




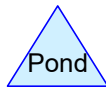
**Appendix B**

***Proposed Conditions Drainage Map  
And Hydrograph Reports***





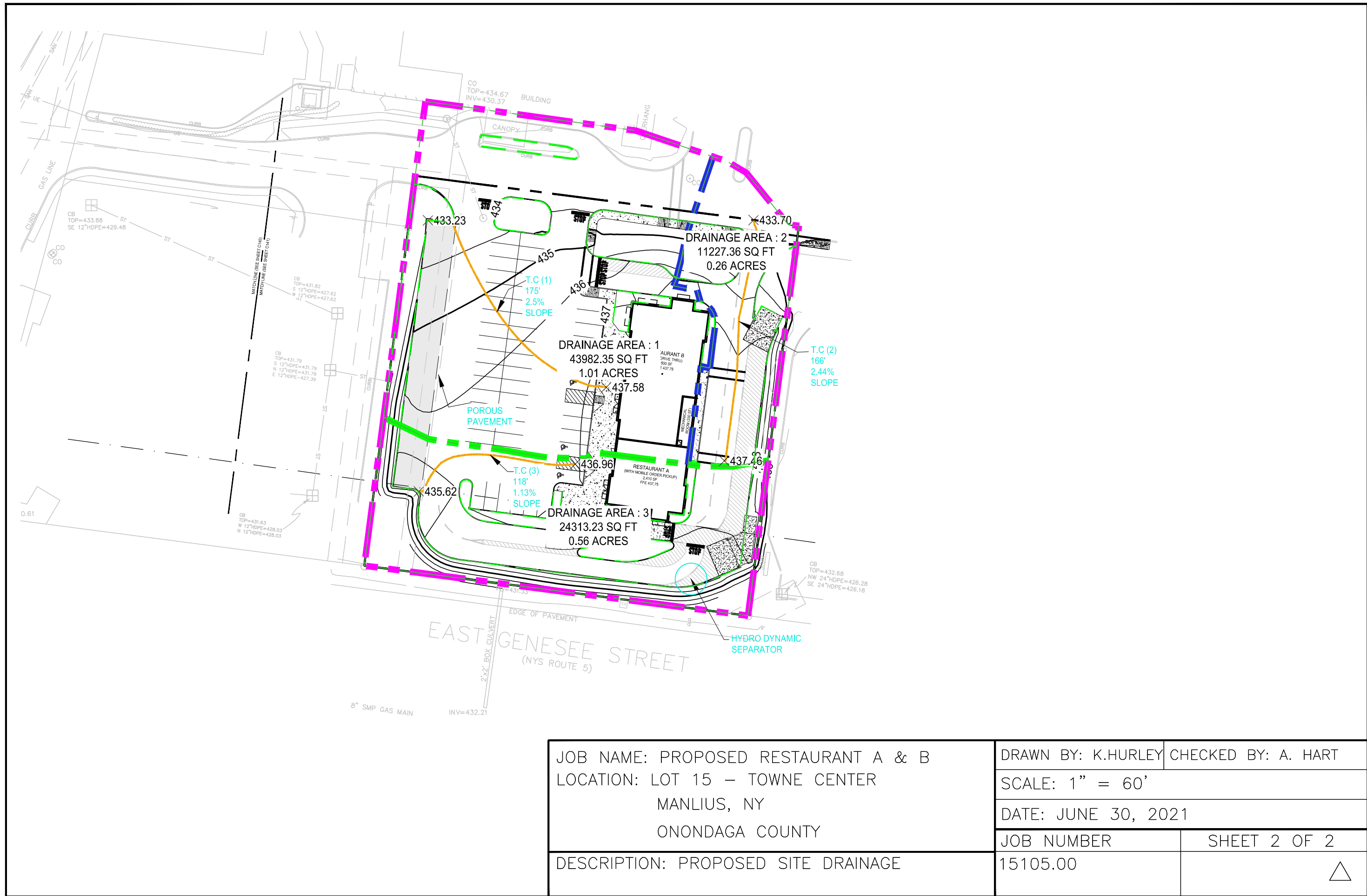
Reach



**Routing Diagram for 015105 COR Proposed**

Prepared by VRTHOR2012, Printed 6/30/2021

HydroCAD® 10.00-24 s/n 03498 © 2018 HydroCAD Software Solutions LLC



|                                                                                                          |                     |                                                                                       |
|----------------------------------------------------------------------------------------------------------|---------------------|---------------------------------------------------------------------------------------|
| JOB NAME: PROPOSED RESTAURANT A & B<br>LOCATION: LOT 15 – TOWNE CENTER<br>MANLIUS, NY<br>ONONDAGA COUNTY | DRAWN BY: K.HURLEY  | CHECKED BY: A. HART                                                                   |
|                                                                                                          | SCALE: 1” = 60’     |                                                                                       |
|                                                                                                          | DATE: JUNE 30, 2021 |                                                                                       |
|                                                                                                          | JOB NUMBER          | SHEET 2 OF 2                                                                          |
| DESCRIPTION: PROPOSED SITE DRAINAGE                                                                      | 15105.00            |  |



**015105 COR Proposed**

Prepared by VRTHOR2012

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Type II 24-hr 1-yr Rainfall=2.04"

Printed 6/30/2021

Page 1

**Summary for Subcatchment P-1: PROP-1**

Runoff = 2.17 cfs @ 11.97 hrs, Volume= 0.107 af, Depth= 1.27"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 1.00-140.00 hrs, dt= 0.05 hrs  
Type II 24-hr 1-yr Rainfall=2.04"

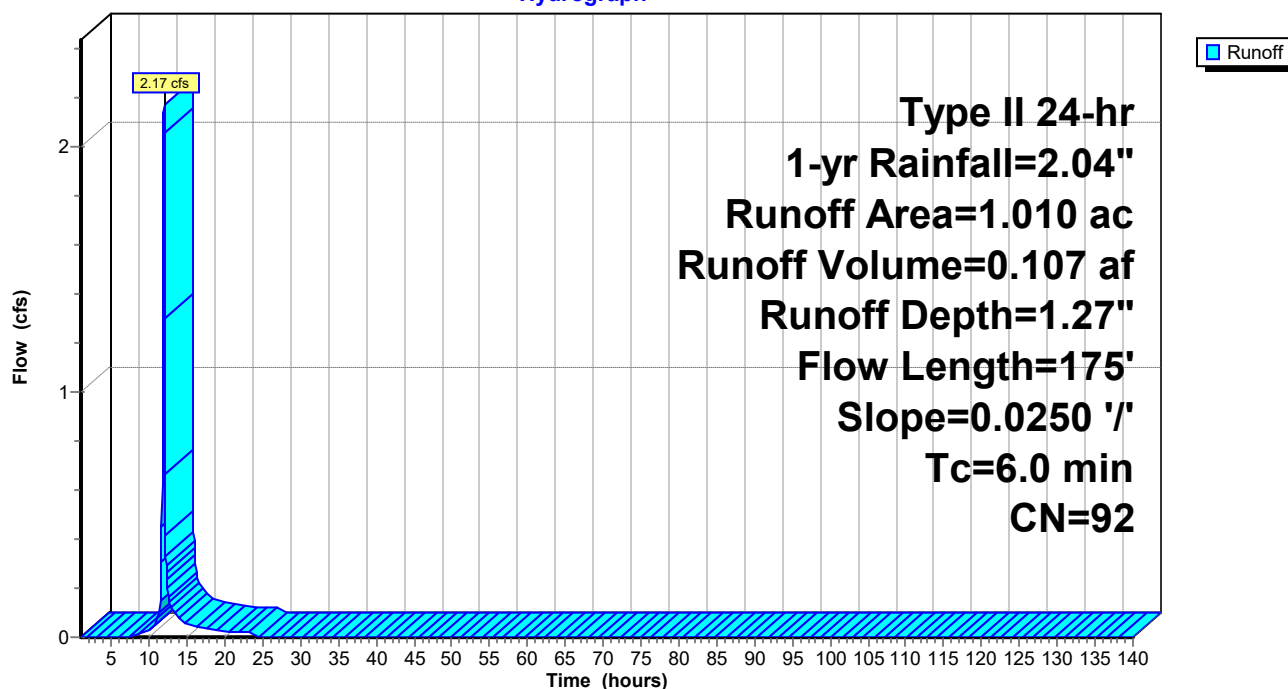
| Area (ac) | CN | Description                   |
|-----------|----|-------------------------------|
| * 0.066   | 70 | Porous Pavement               |
| 0.819     | 98 | Unconnected roofs, HSG B      |
| 0.125     | 61 | >75% Grass cover, Good, HSG B |
| 1.010     | 92 | Weighted Average              |
| 0.191     |    | 18.91% Pervious Area          |
| 0.819     |    | 81.09% Impervious Area        |
| 0.819     |    | 100.00% Unconnected           |

| Tc (min) | Length (feet) | Slope (ft/ft) | Velocity (ft/sec) | Capacity (cfs) | Description                            |
|----------|---------------|---------------|-------------------|----------------|----------------------------------------|
| 1.3      | 100           | 0.0250        | 1.30              |                | <b>Sheet Flow, AB</b>                  |
|          |               |               |                   |                | Smooth surfaces n= 0.011 P2= 2.38"     |
| 0.4      | 75            | 0.0250        | 3.21              |                | <b>Shallow Concentrated Flow, BC</b>   |
|          |               |               |                   |                | Paved Kv= 20.3 fps                     |
| 4.3      |               |               |                   |                | <b>Direct Entry, Min Tc Correction</b> |
| 6.0      | 175           | Total         |                   |                |                                        |

**Subcatchment P-1: PROP-1**

Hydrograph



**015105 COR Proposed**

Prepared by VRTHOR2012

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Type II 24-hr 1-yr Rainfall=2.04"

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Page 2

**Summary for Subcatchment P-2: PROP-2**

Runoff = 0.45 cfs @ 11.97 hrs, Volume= 0.022 af, Depth= 1.00"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 1.00-140.00 hrs, dt= 0.05 hrs  
Type II 24-hr 1-yr Rainfall=2.04"

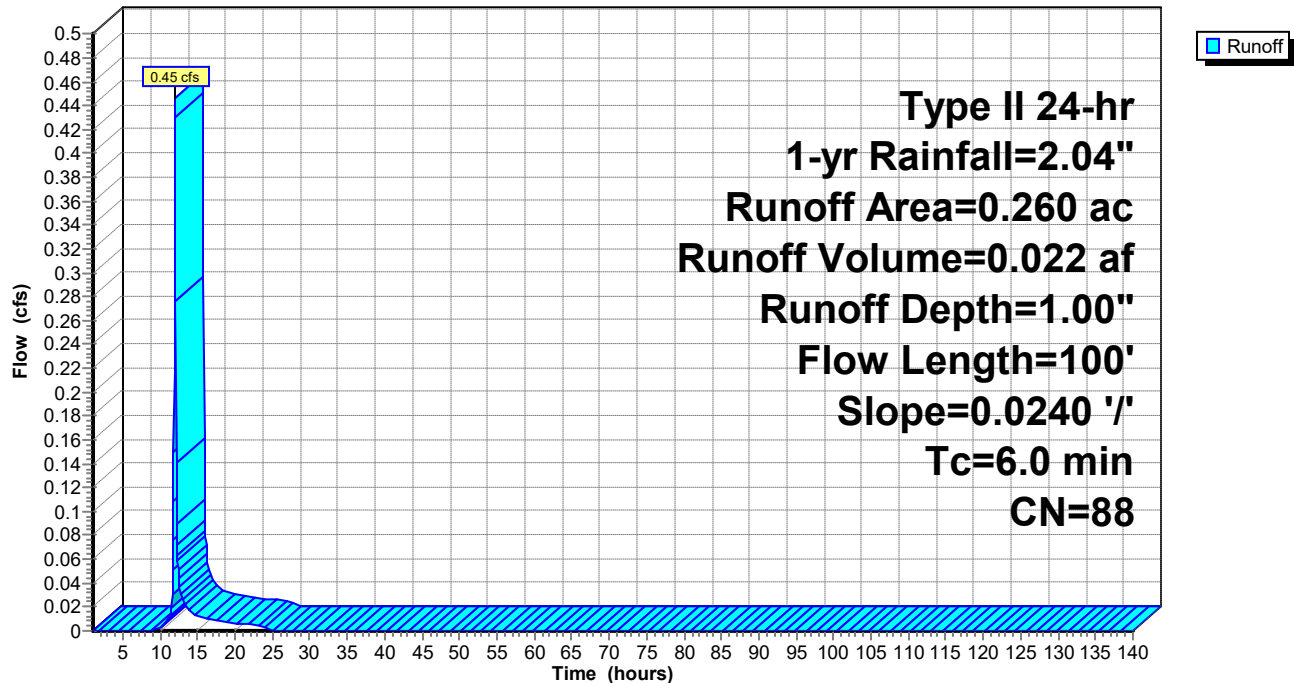
| Area (ac) | CN | Description                   |
|-----------|----|-------------------------------|
| 0.072     | 61 | >75% Grass cover, Good, HSG B |
| 0.188     | 98 | Unconnected roofs, HSG B      |
| 0.260     | 88 | Weighted Average              |
| 0.072     |    | 27.69% Pervious Area          |
| 0.188     |    | 72.31% Impervious Area        |
| 0.188     |    | 100.00% Unconnected           |

| Tc (min) | Length (feet) | Slope (ft/ft) | Velocity (ft/sec) | Capacity (cfs) | Description                            |
|----------|---------------|---------------|-------------------|----------------|----------------------------------------|
| 1.3      | 100           | 0.0240        | 1.28              |                | <b>Sheet Flow, AB</b>                  |
|          |               |               |                   |                | Smooth surfaces n= 0.011 P2= 2.38"     |
| 4.7      |               |               |                   |                | <b>Direct Entry, Min Tc Correction</b> |
| 6.0      | 100           | Total         |                   |                |                                        |

**Subcatchment P-2: PROP-2**

Hydrograph





**015105 COR Proposed**

Prepared by VRTHOR2012

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Type II 24-hr 1-yr Rainfall=2.04"

Printed 6/30/2021

Page 3

**Summary for Subcatchment P-3: PROP-3**

Runoff = 0.80 cfs @ 11.98 hrs, Volume= 0.038 af, Depth= 0.82"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 1.00-140.00 hrs, dt= 0.05 hrs  
Type II 24-hr 1-yr Rainfall=2.04"

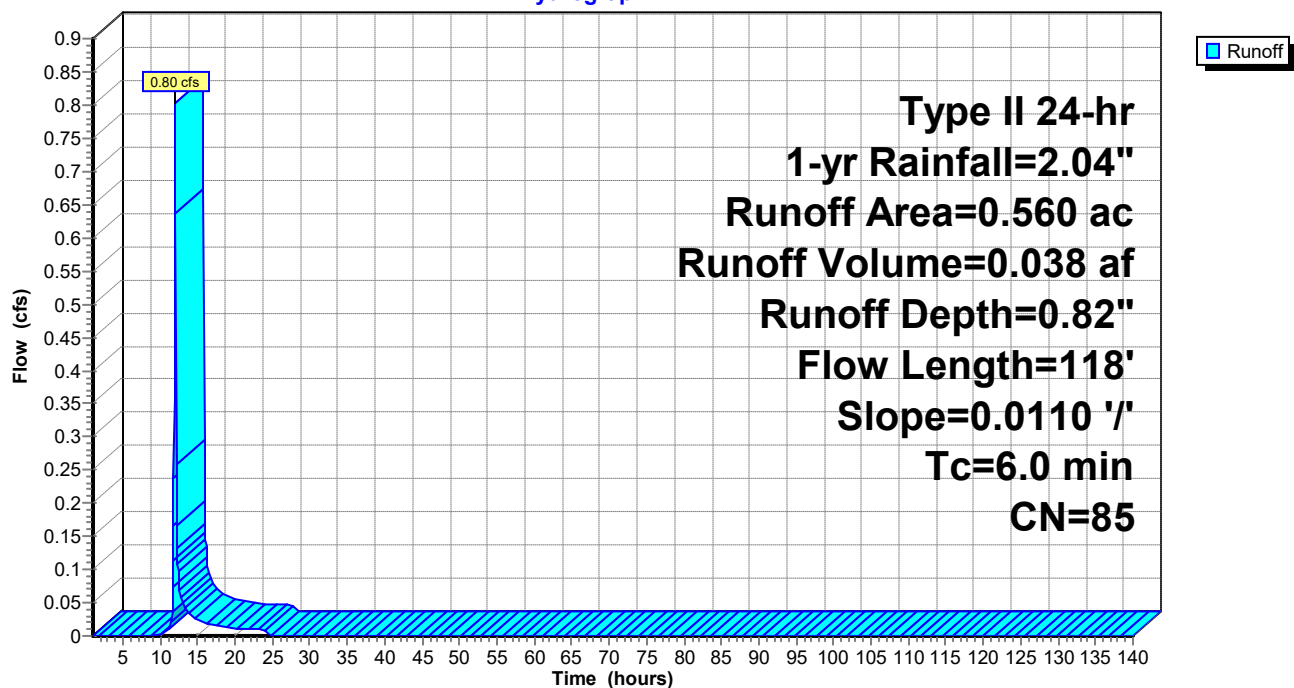
| Area (ac) | CN | Description                   |
|-----------|----|-------------------------------|
| 0.193     | 61 | >75% Grass cover, Good, HSG B |
| 0.367     | 98 | Unconnected pavement, HSG B   |
| 0.560     | 85 | Weighted Average              |
| 0.193     |    | 34.46% Pervious Area          |
| 0.367     |    | 65.54% Impervious Area        |
| 0.367     |    | 100.00% Unconnected           |

| Tc (min) | Length (feet) | Slope (ft/ft) | Velocity (ft/sec) | Capacity (cfs) | Description                            |
|----------|---------------|---------------|-------------------|----------------|----------------------------------------|
| 1.8      | 100           | 0.0110        | 0.93              |                | <b>Sheet Flow, AB</b>                  |
|          |               |               |                   |                | Smooth surfaces n= 0.011 P2= 2.38"     |
| 0.1      | 18            | 0.0110        | 2.13              |                | <b>Shallow Concentrated Flow, BC</b>   |
|          |               |               |                   |                | Paved Kv= 20.3 fps                     |
| 4.1      |               |               |                   |                | <b>Direct Entry, Min Tc Correction</b> |
| 6.0      | 118           | Total         |                   |                |                                        |

**Subcatchment P-3: PROP-3**

Hydrograph



### Summary for Pond HD: Hydro Dynamic

Inflow Area = 0.560 ac, 65.54% Impervious, Inflow Depth = 0.82" for 1-yr event  
 Inflow = 0.80 cfs @ 11.98 hrs, Volume= 0.038 af  
 Outflow = 0.80 cfs @ 11.98 hrs, Volume= 0.038 af, Atten= 0%, Lag= 0.0 min  
 Primary = 0.80 cfs @ 11.98 hrs, Volume= 0.038 af

Routing by Dyn-Stor-Ind method, Time Span= 1.00-140.00 hrs, dt= 0.05 hrs

Peak Elev= 426.80' @ 11.98 hrs

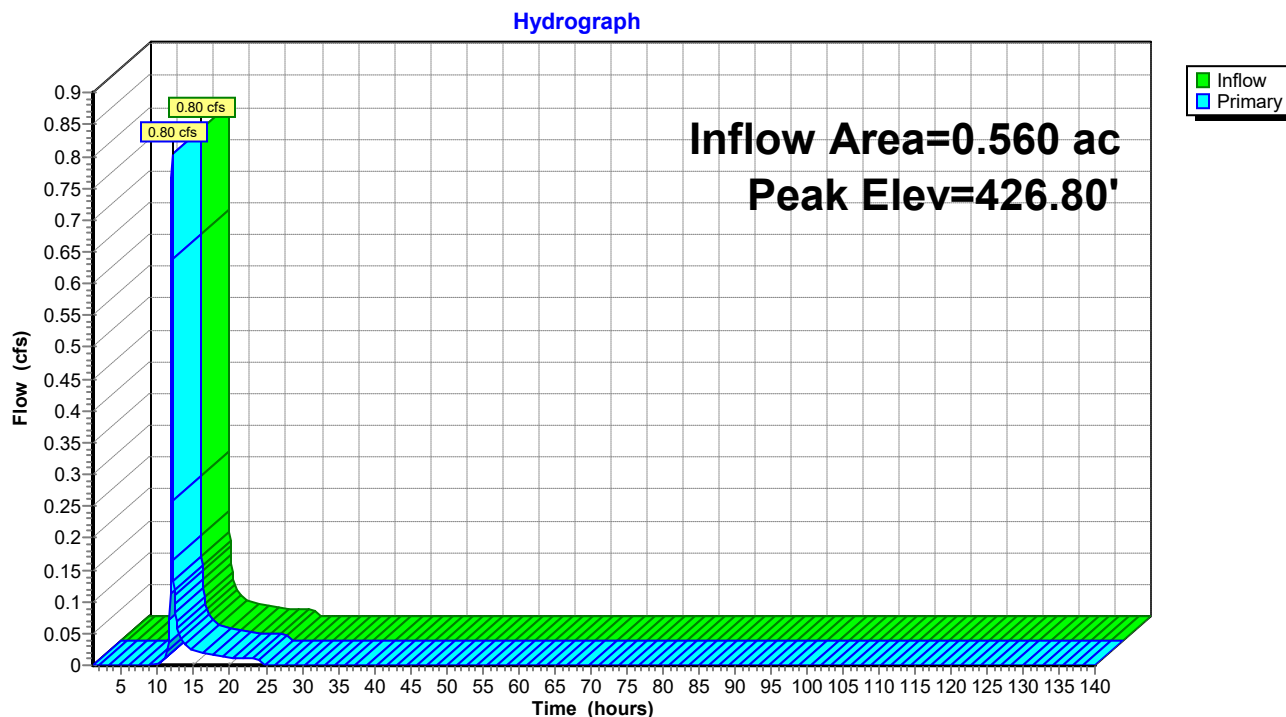
| Device | Routing  | Invert  | Outlet Devices                    |
|--------|----------|---------|-----------------------------------|
| #1     | Device 2 | 426.43' | <b>24.0" Vert. INLET</b> C= 0.600 |
| #2     | Primary  | 426.43' | <b>20.000 cfs Constant Flow</b>   |

**Primary OutFlow** Max=0.77 cfs @ 11.98 hrs HW=426.79' TW=0.00' (Dynamic Tailwater)

2=Constant Flow (Passes 0.77 cfs of 20.00 cfs potential flow)

1=INLET (Orifice Controls 0.77 cfs @ 2.03 fps)

### Pond HD: Hydro Dynamic





**Summary for Pond PP: Porous Pavement**

Inflow Area = 1.010 ac, 81.09% Impervious, Inflow Depth = 1.27" for 1-yr event  
 Inflow = 2.17 cfs @ 11.97 hrs, Volume= 0.107 af  
 Outflow = 0.32 cfs @ 11.80 hrs, Volume= 0.107 af, Atten= 85%, Lag= 0.0 min  
 Discarded = 0.32 cfs @ 11.80 hrs, Volume= 0.107 af  
 Primary = 0.00 cfs @ 1.00 hrs, Volume= 0.000 af  
 Secondary = 0.00 cfs @ 1.00 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 1.00-140.00 hrs, dt= 0.05 hrs

Peak Elev= 431.46' @ 12.21 hrs Surf.Area= 0.080 ac Storage= 0.033 af

Plug-Flow detention time= (not calculated: outflow precedes inflow)

Center-of-Mass det. time= 26.9 min ( 838.9 - 812.0 )

| Volume | Invert | Avail.Storage | Storage Description |
|--------|--------|---------------|---------------------|
|--------|--------|---------------|---------------------|

|    |         |           |                                                                                           |
|----|---------|-----------|-------------------------------------------------------------------------------------------|
| #1 | 430.42' | 14.915 af | <b>Custom Stage Data (Conic)</b> Listed below (Recalc)<br>37.287 af Overall x 40.0% Voids |
|----|---------|-----------|-------------------------------------------------------------------------------------------|

| Elevation<br>(feet) | Surf.Area<br>(acres) | Inc.Store<br>(acre-feet) | Cum.Store<br>(acre-feet) | Wet.Area<br>(acres) |
|---------------------|----------------------|--------------------------|--------------------------|---------------------|
| 430.42              | 0.080                | 0.000                    | 0.000                    | 0.080               |
| 433.42              | 0.080                | 0.240                    | 0.240                    | 0.094               |
| 434.50              | 100.000              | 37.047                   | 37.287                   | 100.014             |

| Device | Routing | Invert | Outlet Devices |
|--------|---------|--------|----------------|
|--------|---------|--------|----------------|

|    |           |         |                                                                                                                                                                                                                 |
|----|-----------|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| #1 | Primary   | 428.21' | <b>15.0" Round Culvert</b><br>L= 141.0' CPP, square edge headwall, Ke= 0.500<br>Inlet / Outlet Invert= 428.21' / 427.50' S= 0.0050 ' S Cc= 0.900<br>n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf |
| #2 | Discarded | 430.42' | <b>4.000 in/hr Exfiltration over Horizontal area</b>                                                                                                                                                            |
| #3 | Device 1  | 433.62' | <b>36.0" x 36.0" Horiz. Orifice/Grate</b> C= 0.600<br>Limited to weir flow at low heads                                                                                                                         |
| #4 | Secondary | 434.12' | <b>25.0' long x 10.0' breadth Broad-Crested Rectangular Weir</b><br>Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60<br>Coef. (English) 2.49 2.56 2.70 2.69 2.68 2.69 2.67 2.64                              |

**Discarded OutFlow** Max=0.32 cfs @ 11.80 hrs HW=430.51' (Free Discharge)

↑ **2=Exfiltration** (Exfiltration Controls 0.32 cfs)

**Primary OutFlow** Max=0.00 cfs @ 1.00 hrs HW=430.42' TW=0.00' (Dynamic Tailwater)

↑ **1=Culvert** (Passes 0.00 cfs of 5.82 cfs potential flow)

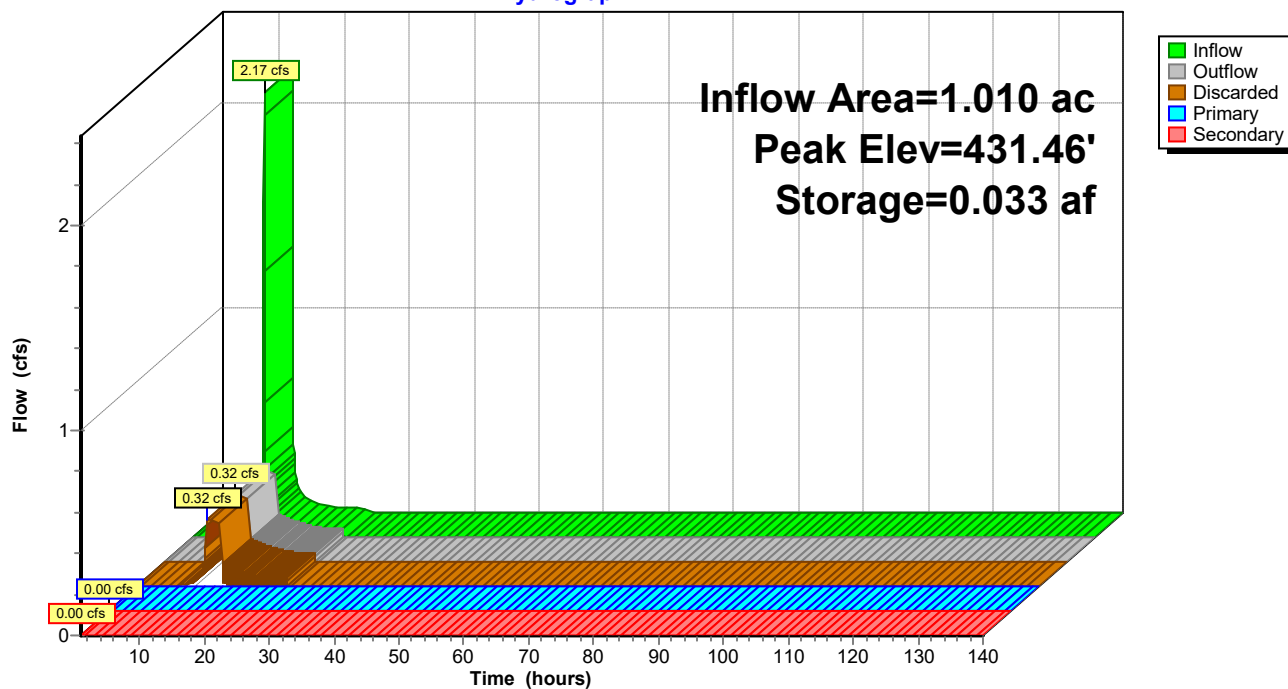
↑ **3=Orifice/Grate** ( Controls 0.00 cfs)

**Secondary OutFlow** Max=0.00 cfs @ 1.00 hrs HW=430.42' TW=0.00' (Dynamic Tailwater)

↑ **4=Broad-Crested Rectangular Weir** ( Controls 0.00 cfs)

**Pond PP: Porous Pavement**

Hydrograph

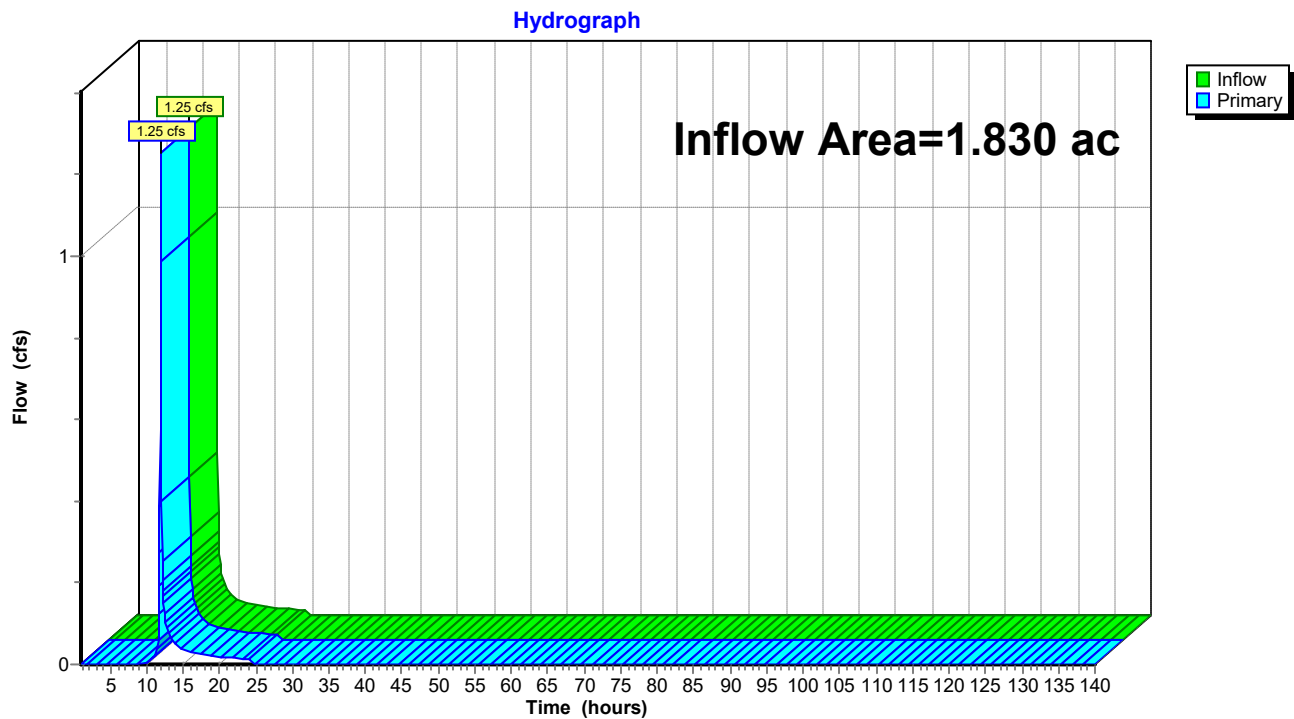




**Summary for Link PT: PROPOSED TOTAL**

Inflow Area = 1.830 ac, 75.08% Impervious, Inflow Depth = 0.39" for 1-yr event  
Inflow = 1.25 cfs @ 11.98 hrs, Volume= 0.060 af  
Primary = 1.25 cfs @ 11.98 hrs, Volume= 0.060 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 1.00-140.00 hrs, dt= 0.05 hrs

**Link PT: PROPOSED TOTAL**

**015105 COR Proposed**

Prepared by VRTHOR2012

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Type II 24-hr 10-yr Rainfall=3.43"

Printed 6/30/2021

Page 8

**Summary for Subcatchment P-1: PROP-1**

Runoff = 4.23 cfs @ 11.96 hrs, Volume= 0.216 af, Depth= 2.57"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 1.00-140.00 hrs, dt= 0.05 hrs  
Type II 24-hr 10-yr Rainfall=3.43"

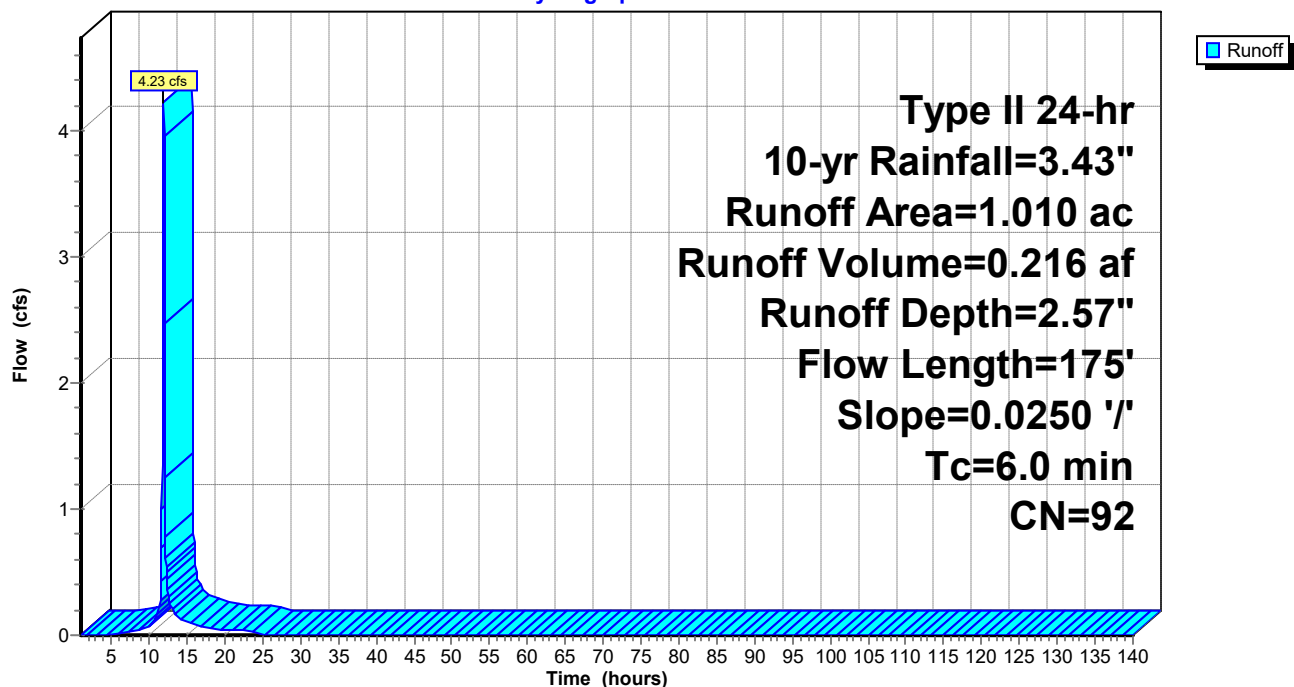
| Area (ac) | CN | Description                   |
|-----------|----|-------------------------------|
| * 0.066   | 70 | Porous Pavement               |
| 0.819     | 98 | Unconnected roofs, HSG B      |
| 0.125     | 61 | >75% Grass cover, Good, HSG B |
| 1.010     | 92 | Weighted Average              |
| 0.191     |    | 18.91% Pervious Area          |
| 0.819     |    | 81.09% Impervious Area        |
| 0.819     |    | 100.00% Unconnected           |

| Tc (min) | Length (feet) | Slope (ft/ft) | Velocity (ft/sec) | Capacity (cfs) | Description                            |
|----------|---------------|---------------|-------------------|----------------|----------------------------------------|
| 1.3      | 100           | 0.0250        | 1.30              |                | <b>Sheet Flow, AB</b>                  |
|          |               |               |                   |                | Smooth surfaces n= 0.011 P2= 2.38"     |
| 0.4      | 75            | 0.0250        | 3.21              |                | <b>Shallow Concentrated Flow, BC</b>   |
|          |               |               |                   |                | Paved Kv= 20.3 fps                     |
| 4.3      |               |               |                   |                | <b>Direct Entry, Min Tc Correction</b> |
| 6.0      | 175           | Total         |                   |                |                                        |

**Subcatchment P-1: PROP-1**

Hydrograph





**015105 COR Proposed**

Prepared by VRTHOR2012

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Type II 24-hr 10-yr Rainfall=3.43"

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**Summary for Subcatchment P-2: PROP-2**

Runoff = 0.97 cfs @ 11.97 hrs, Volume= 0.048 af, Depth= 2.20"

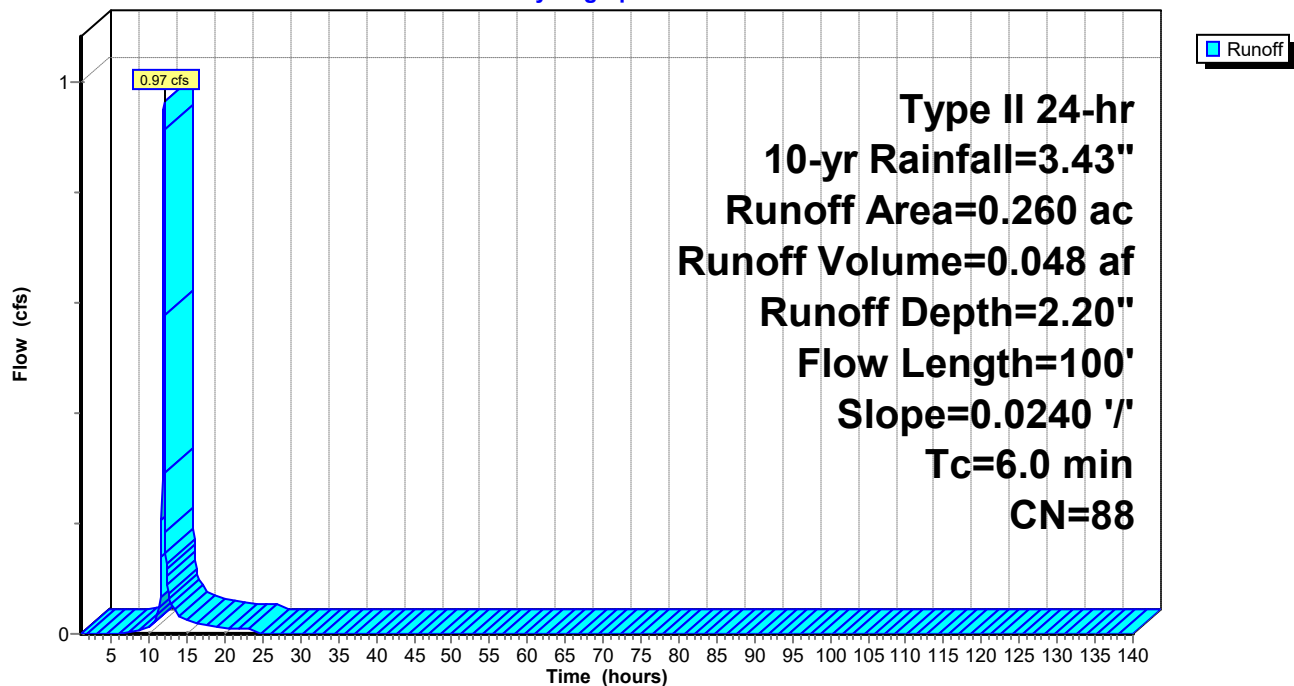
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 1.00-140.00 hrs, dt= 0.05 hrs  
Type II 24-hr 10-yr Rainfall=3.43"

| Area (ac) | CN | Description                   |
|-----------|----|-------------------------------|
| 0.072     | 61 | >75% Grass cover, Good, HSG B |
| 0.188     | 98 | Unconnected roofs, HSG B      |
| 0.260     | 88 | Weighted Average              |
| 0.072     |    | 27.69% Pervious Area          |
| 0.188     |    | 72.31% Impervious Area        |
| 0.188     |    | 100.00% Unconnected           |

| Tc (min) | Length (feet) | Slope (ft/ft) | Velocity (ft/sec) | Capacity (cfs) | Description                            |
|----------|---------------|---------------|-------------------|----------------|----------------------------------------|
| 1.3      | 100           | 0.0240        | 1.28              |                | <b>Sheet Flow, AB</b>                  |
|          |               |               |                   |                | Smooth surfaces n= 0.011 P2= 2.38"     |
| 4.7      |               |               |                   |                | <b>Direct Entry, Min Tc Correction</b> |
| 6.0      | 100           | Total         |                   |                |                                        |

**Subcatchment P-2: PROP-2**

Hydrograph



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Type II 24-hr 10-yr Rainfall=3.43"

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**Summary for Subcatchment P-3: PROP-3**

Runoff = 1.87 cfs @ 11.97 hrs, Volume= 0.091 af, Depth= 1.96"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 1.00-140.00 hrs, dt= 0.05 hrs  
Type II 24-hr 10-yr Rainfall=3.43"

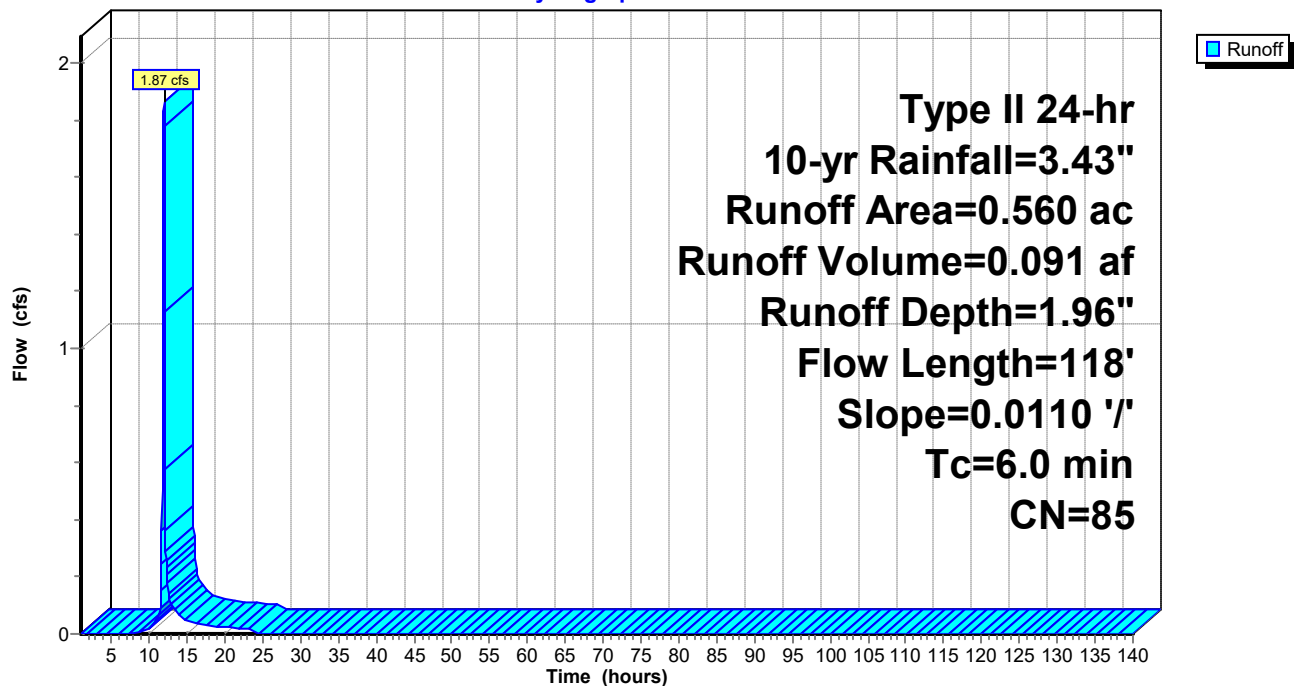
| Area (ac) | CN | Description                   |
|-----------|----|-------------------------------|
| 0.193     | 61 | >75% Grass cover, Good, HSG B |
| 0.367     | 98 | Unconnected pavement, HSG B   |
| 0.560     | 85 | Weighted Average              |
| 0.193     |    | 34.46% Pervious Area          |
| 0.367     |    | 65.54% Impervious Area        |
| 0.367     |    | 100.00% Unconnected           |

| Tc (min) | Length (feet) | Slope (ft/ft) | Velocity (ft/sec) | Capacity (cfs) | Description                            |
|----------|---------------|---------------|-------------------|----------------|----------------------------------------|
| 1.8      | 100           | 0.0110        | 0.93              |                | <b>Sheet Flow, AB</b>                  |
|          |               |               |                   |                | Smooth surfaces n= 0.011 P2= 2.38"     |
| 0.1      | 18            | 0.0110        | 2.13              |                | <b>Shallow Concentrated Flow, BC</b>   |
|          |               |               |                   |                | Paved Kv= 20.3 fps                     |
| 4.1      |               |               |                   |                | <b>Direct Entry, Min Tc Correction</b> |
| 6.0      | 118           | Total         |                   |                |                                        |

**Subcatchment P-3: PROP-3**

Hydrograph





### Summary for Pond HD: Hydro Dynamic

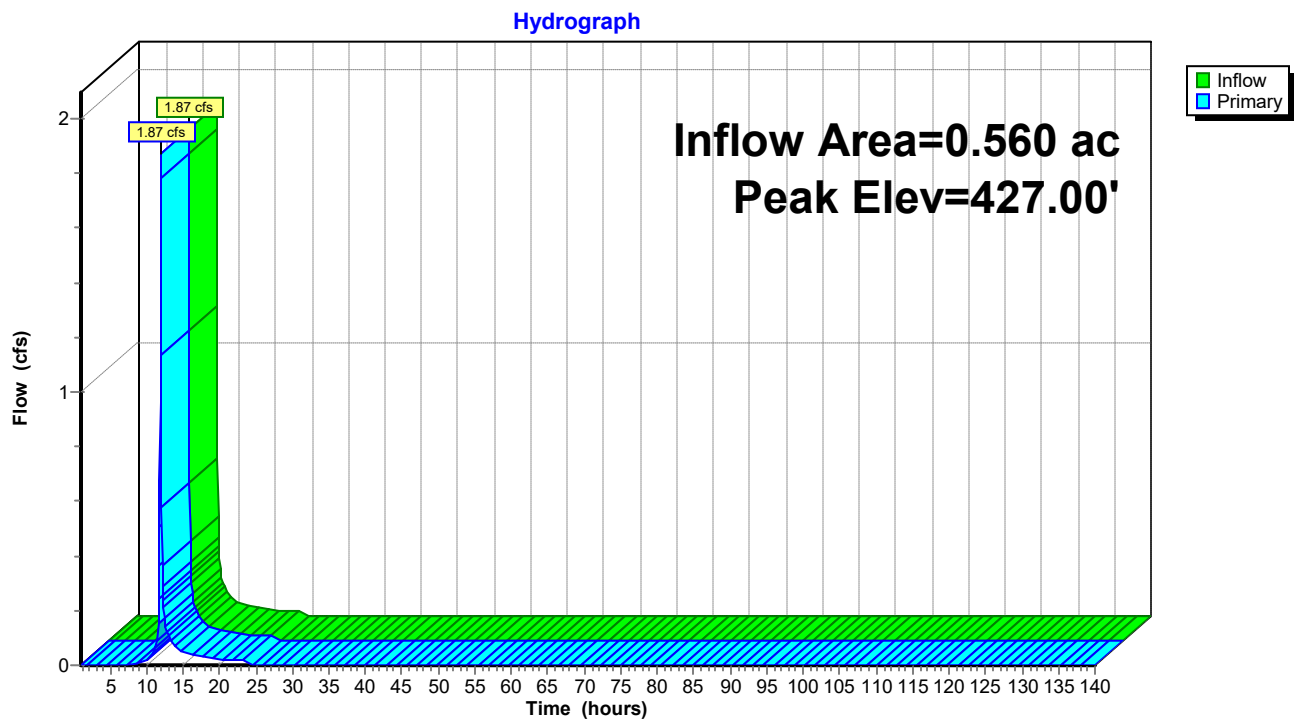
Inflow Area = 0.560 ac, 65.54% Impervious, Inflow Depth = 1.96" for 10-yr event  
 Inflow = 1.87 cfs @ 11.97 hrs, Volume= 0.091 af  
 Outflow = 1.87 cfs @ 11.97 hrs, Volume= 0.091 af, Atten= 0%, Lag= 0.0 min  
 Primary = 1.87 cfs @ 11.97 hrs, Volume= 0.091 af

Routing by Dyn-Stor-Ind method, Time Span= 1.00-140.00 hrs, dt= 0.05 hrs  
 Peak Elev= 427.00' @ 11.97 hrs

| Device | Routing  | Invert  | Outlet Devices                    |
|--------|----------|---------|-----------------------------------|
| #1     | Device 2 | 426.43' | <b>24.0" Vert. INLET</b> C= 0.600 |
| #2     | Primary  | 426.43' | <b>20.000 cfs Constant Flow</b>   |

**Primary OutFlow** Max=1.81 cfs @ 11.97 hrs HW=426.99' TW=0.00' (Dynamic Tailwater)  
 ↳ **2=Constant Flow** (Passes 1.81 cfs of 20.00 cfs potential flow)  
 ↳ **1=INLET** (Orifice Controls 1.81 cfs @ 2.54 fps)

### Pond HD: Hydro Dynamic



**Summary for Pond PP: Porous Pavement**

Inflow Area = 1.010 ac, 81.09% Impervious, Inflow Depth = 2.57" for 10-yr event  
 Inflow = 4.23 cfs @ 11.96 hrs, Volume= 0.216 af  
 Outflow = 0.32 cfs @ 11.70 hrs, Volume= 0.217 af, Atten= 92%, Lag= 0.0 min  
 Discarded = 0.32 cfs @ 11.70 hrs, Volume= 0.217 af  
 Primary = 0.00 cfs @ 1.00 hrs, Volume= 0.000 af  
 Secondary = 0.00 cfs @ 1.00 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 1.00-140.00 hrs, dt= 0.05 hrs  
 Peak Elev= 433.09' @ 12.54 hrs Surf.Area= 0.080 ac Storage= 0.085 af

Plug-Flow detention time= (not calculated: outflow precedes inflow)  
 Center-of-Mass det. time= 82.7 min ( 874.9 - 792.1 )

| Volume | Invert | Avail.Storage | Storage Description |
|--------|--------|---------------|---------------------|
|--------|--------|---------------|---------------------|

|    |         |           |                                                                                           |
|----|---------|-----------|-------------------------------------------------------------------------------------------|
| #1 | 430.42' | 14.915 af | <b>Custom Stage Data (Conic)</b> Listed below (Recalc)<br>37.287 af Overall x 40.0% Voids |
|----|---------|-----------|-------------------------------------------------------------------------------------------|

| Elevation<br>(feet) | Surf.Area<br>(acres) | Inc.Store<br>(acre-feet) | Cum.Store<br>(acre-feet) | Wet.Area<br>(acres) |
|---------------------|----------------------|--------------------------|--------------------------|---------------------|
| 430.42              | 0.080                | 0.000                    | 0.000                    | 0.080               |
| 433.42              | 0.080                | 0.240                    | 0.240                    | 0.094               |
| 434.50              | 100.000              | 37.047                   | 37.287                   | 100.014             |

| Device | Routing | Invert | Outlet Devices |
|--------|---------|--------|----------------|
|--------|---------|--------|----------------|

|    |           |         |                                                                                                                                                                                                                           |
|----|-----------|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| #1 | Primary   | 428.21' | <b>15.0" Round Culvert</b><br>L= 141.0' CPP, square edge headwall, Ke= 0.500<br>Inlet / Outlet Invert= 428.21' / 427.50' S= 0.0050 ' S= 0.0050 ' Cc= 0.900<br>n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf |
| #2 | Discarded | 430.42' | <b>4.000 in/hr Exfiltration over Horizontal area</b>                                                                                                                                                                      |
| #3 | Device 1  | 433.62' | <b>36.0" x 36.0" Horiz. Orifice/Grate</b> C= 0.600<br>Limited to weir flow at low heads                                                                                                                                   |
| #4 | Secondary | 434.12' | <b>25.0' long x 10.0' breadth Broad-Crested Rectangular Weir</b><br>Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60<br>Coef. (English) 2.49 2.56 2.70 2.69 2.68 2.69 2.67 2.64                                        |

**Discarded OutFlow** Max=0.32 cfs @ 11.70 hrs HW=430.53' (Free Discharge)

↑ **2=Exfiltration** (Exfiltration Controls 0.32 cfs)

**Primary OutFlow** Max=0.00 cfs @ 1.00 hrs HW=430.42' TW=0.00' (Dynamic Tailwater)

↑ **1=Culvert** (Passes 0.00 cfs of 5.82 cfs potential flow)

↑ **3=Orifice/Grate** ( Controls 0.00 cfs)

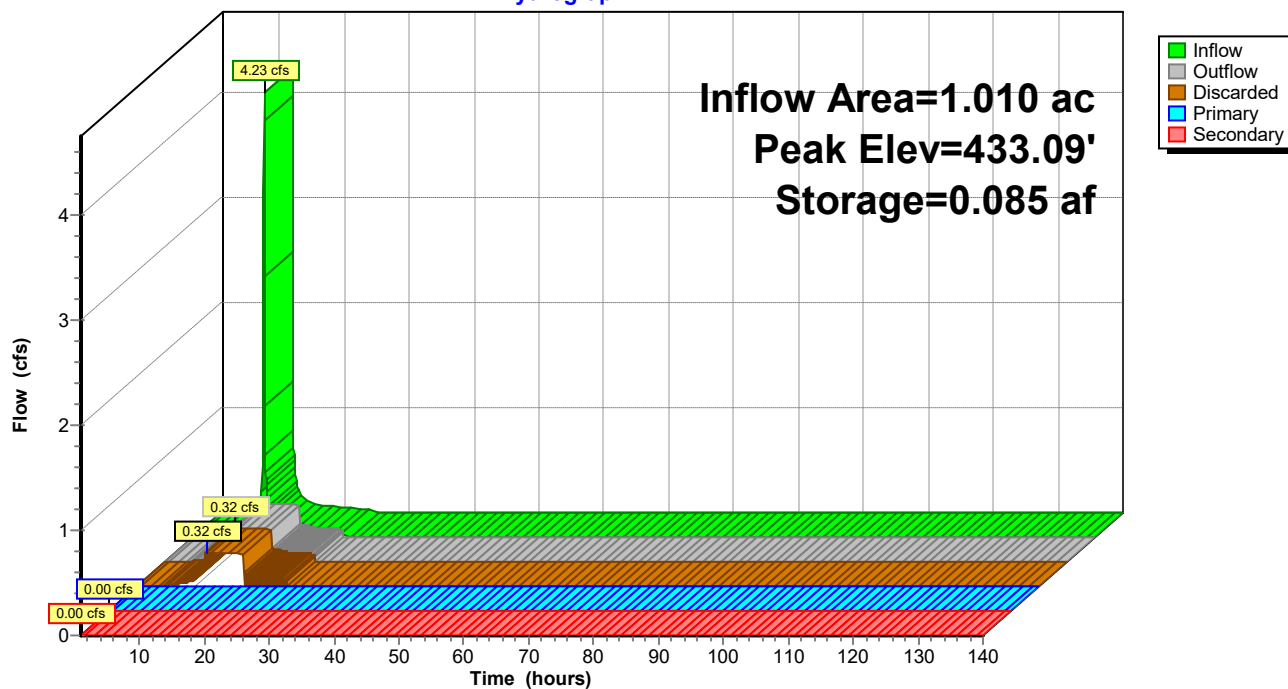
**Secondary OutFlow** Max=0.00 cfs @ 1.00 hrs HW=430.42' TW=0.00' (Dynamic Tailwater)

↑ **4=Broad-Crested Rectangular Weir** ( Controls 0.00 cfs)



**Pond PP: Porous Pavement**

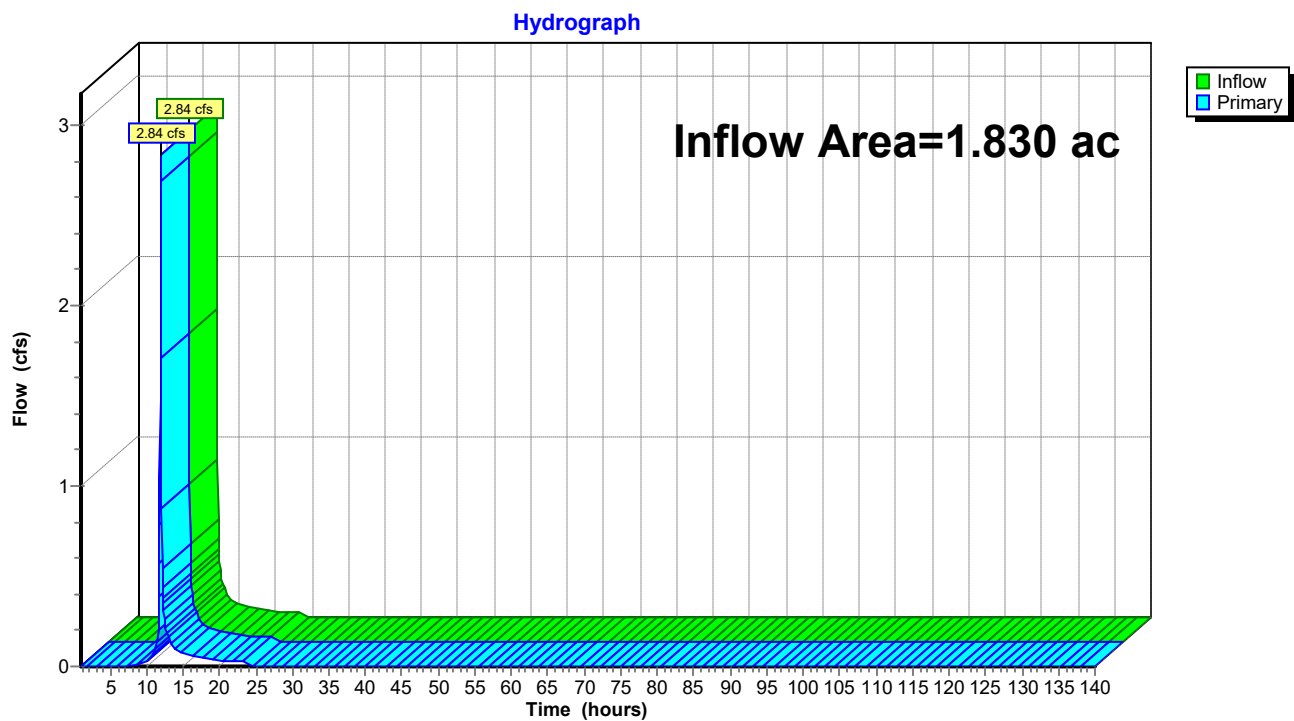
Hydrograph



**Summary for Link PT: PROPOSED TOTAL**

Inflow Area = 1.830 ac, 75.08% Impervious, Inflow Depth = 0.91" for 10-yr event  
Inflow = 2.84 cfs @ 11.97 hrs, Volume= 0.139 af  
Primary = 2.84 cfs @ 11.97 hrs, Volume= 0.139 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 1.00-140.00 hrs, dt= 0.05 hrs

**Link PT: PROPOSED TOTAL**



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Type II 24-hr 100-yr Rainfall=5.77"

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**Summary for Subcatchment P-1: PROP-1**

Runoff = 7.66 cfs @ 11.96 hrs, Volume= 0.408 af, Depth= 4.84"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 1.00-140.00 hrs, dt= 0.05 hrs  
Type II 24-hr 100-yr Rainfall=5.77"

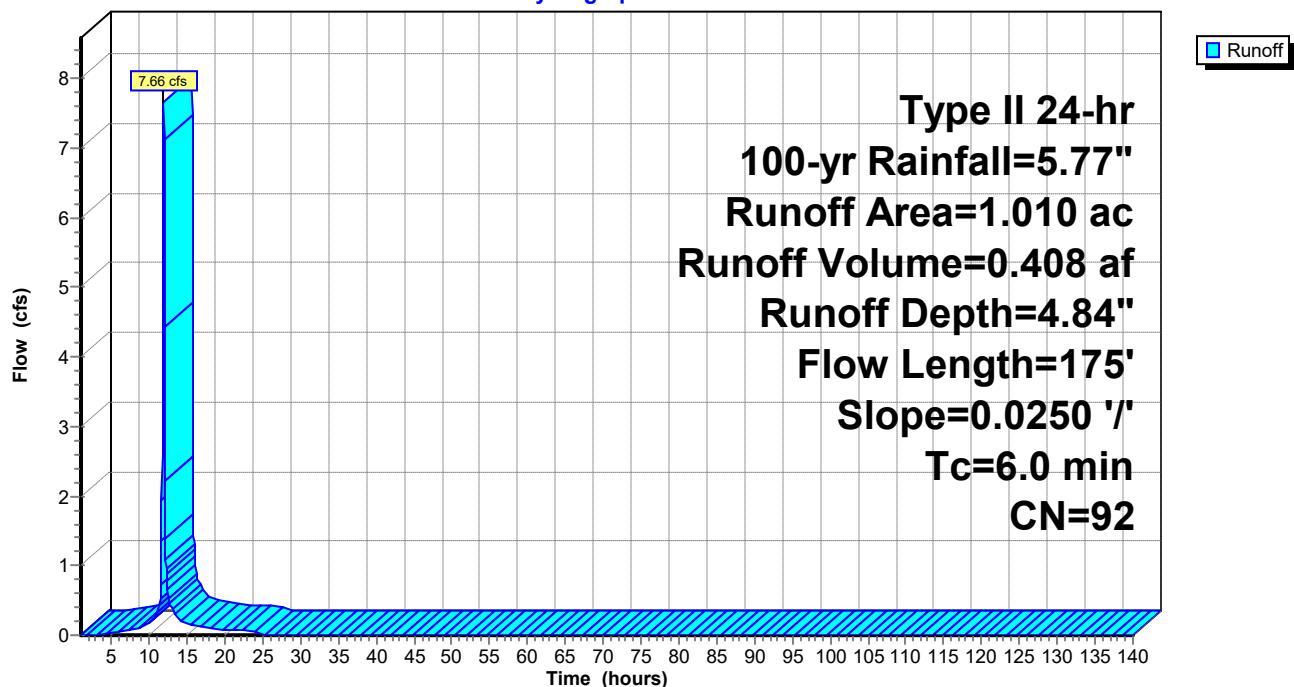
| Area (ac) | CN | Description                   |
|-----------|----|-------------------------------|
| * 0.066   | 70 | Porous Pavement               |
| 0.819     | 98 | Unconnected roofs, HSG B      |
| 0.125     | 61 | >75% Grass cover, Good, HSG B |
| 1.010     | 92 | Weighted Average              |
| 0.191     |    | 18.91% Pervious Area          |
| 0.819     |    | 81.09% Impervious Area        |
| 0.819     |    | 100.00% Unconnected           |

| Tc (min) | Length (feet) | Slope (ft/ft) | Velocity (ft/sec) | Capacity (cfs) | Description                            |
|----------|---------------|---------------|-------------------|----------------|----------------------------------------|
| 1.3      | 100           | 0.0250        | 1.30              |                | <b>Sheet Flow, AB</b>                  |
|          |               |               |                   |                | Smooth surfaces n= 0.011 P2= 2.38"     |
| 0.4      | 75            | 0.0250        | 3.21              |                | <b>Shallow Concentrated Flow, BC</b>   |
|          |               |               |                   |                | Paved Kv= 20.3 fps                     |
| 4.3      |               |               |                   |                | <b>Direct Entry, Min Tc Correction</b> |
| 6.0      | 175           | Total         |                   |                |                                        |

**Subcatchment P-1: PROP-1**

Hydrograph



**015105 COR Proposed**

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Type II 24-hr 100-yr Rainfall=5.77"

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**Summary for Subcatchment P-2: PROP-2**

Runoff = 1.86 cfs @ 11.96 hrs, Volume= 0.095 af, Depth= 4.40"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 1.00-140.00 hrs, dt= 0.05 hrs  
Type II 24-hr 100-yr Rainfall=5.77"

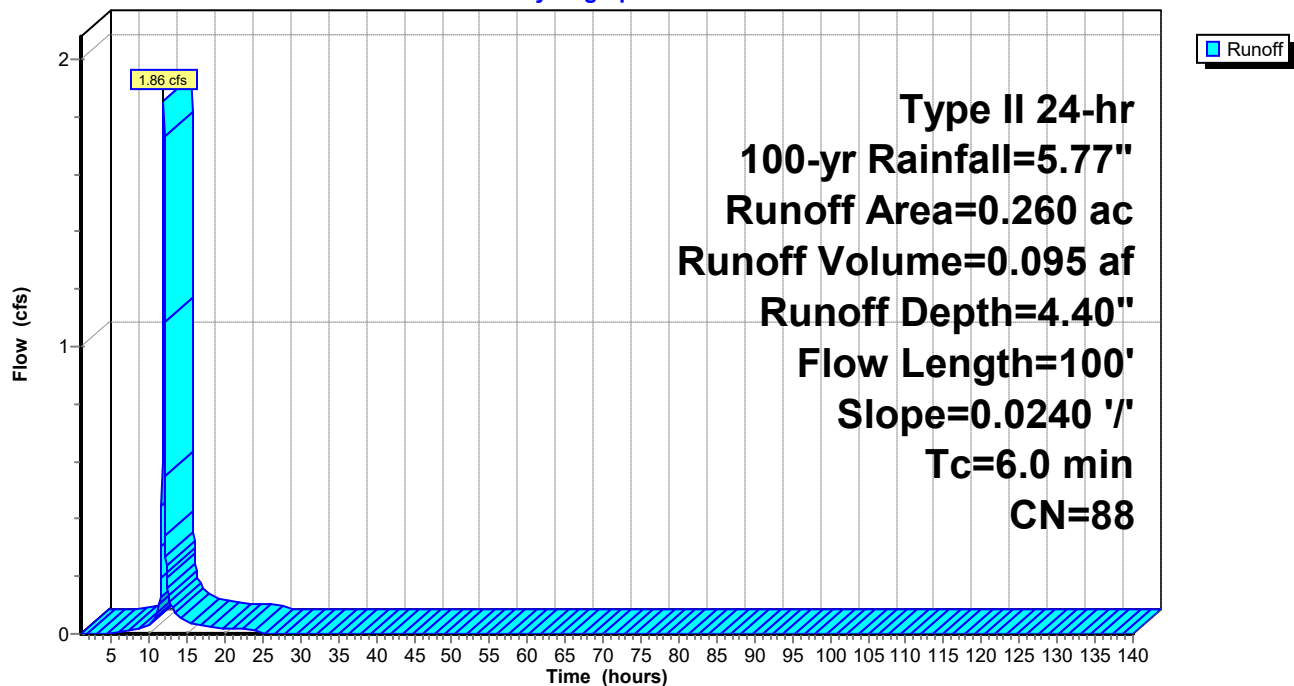
| Area (ac) | CN | Description                   |
|-----------|----|-------------------------------|
| 0.072     | 61 | >75% Grass cover, Good, HSG B |
| 0.188     | 98 | Unconnected roofs, HSG B      |
| 0.260     | 88 | Weighted Average              |
| 0.072     |    | 27.69% Pervious Area          |
| 0.188     |    | 72.31% Impervious Area        |
| 0.188     |    | 100.00% Unconnected           |

| Tc (min) | Length (feet) | Slope (ft/ft) | Velocity (ft/sec) | Capacity (cfs) | Description                            |
|----------|---------------|---------------|-------------------|----------------|----------------------------------------|
| 1.3      | 100           | 0.0240        | 1.28              |                | <b>Sheet Flow, AB</b>                  |
|          |               |               |                   |                | Smooth surfaces n= 0.011 P2= 2.38"     |
| 4.7      |               |               |                   |                | <b>Direct Entry, Min Tc Correction</b> |
| 6.0      | 100           | Total         |                   |                |                                        |

**Subcatchment P-2: PROP-2**

Hydrograph



**015105 COR Proposed**

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Type II 24-hr 100-yr Rainfall=5.77"

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**Summary for Subcatchment P-3: PROP-3**

Runoff = 3.79 cfs @ 11.97 hrs, Volume= 0.191 af, Depth= 4.09"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 1.00-140.00 hrs, dt= 0.05 hrs  
Type II 24-hr 100-yr Rainfall=5.77"

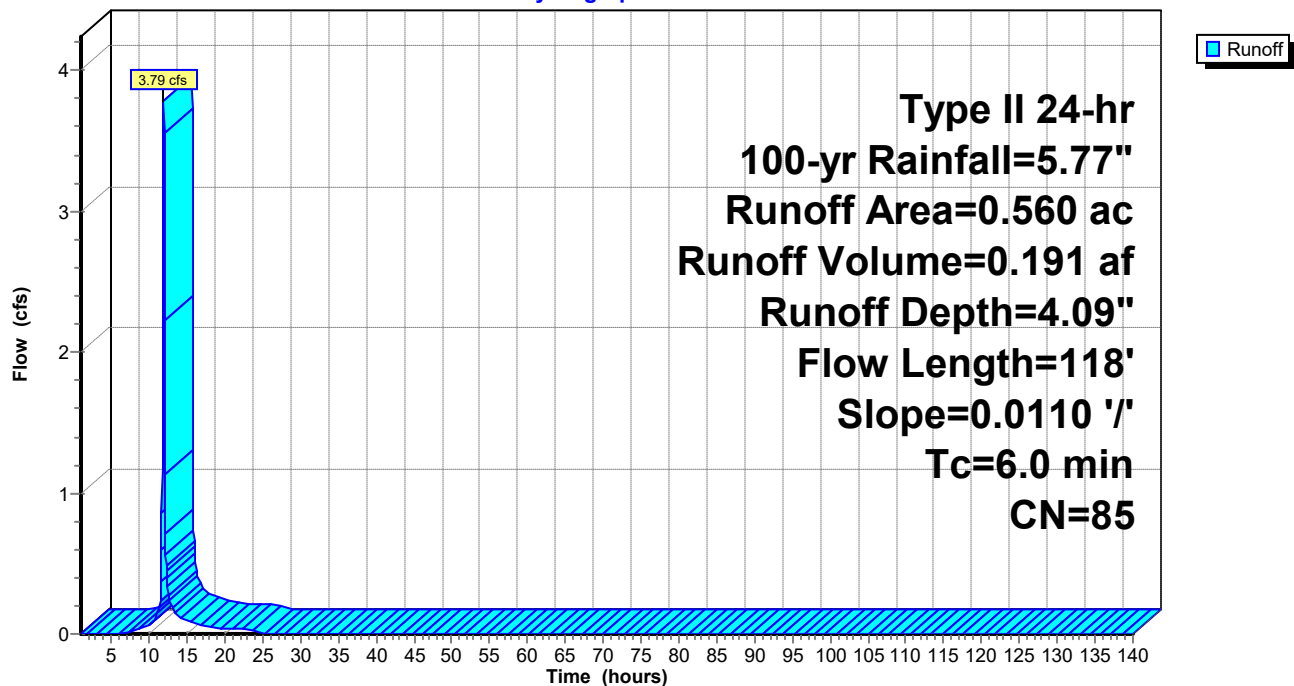
| Area (ac) | CN | Description                   |
|-----------|----|-------------------------------|
| 0.193     | 61 | >75% Grass cover, Good, HSG B |
| 0.367     | 98 | Unconnected pavement, HSG B   |
| 0.560     | 85 | Weighted Average              |
| 0.193     |    | 34.46% Pervious Area          |
| 0.367     |    | 65.54% Impervious Area        |
| 0.367     |    | 100.00% Unconnected           |

| Tc (min) | Length (feet) | Slope (ft/ft) | Velocity (ft/sec) | Capacity (cfs) | Description                            |
|----------|---------------|---------------|-------------------|----------------|----------------------------------------|
| 1.8      | 100           | 0.0110        | 0.93              |                | <b>Sheet Flow, AB</b>                  |
|          |               |               |                   |                | Smooth surfaces n= 0.011 P2= 2.38"     |
| 0.1      | 18            | 0.0110        | 2.13              |                | <b>Shallow Concentrated Flow, BC</b>   |
|          |               |               |                   |                | Paved Kv= 20.3 fps                     |
| 4.1      |               |               |                   |                | <b>Direct Entry, Min Tc Correction</b> |
| 6.0      | 118           | Total         |                   |                |                                        |

**Subcatchment P-3: PROP-3**

Hydrograph





### Summary for Pond HD: Hydro Dynamic

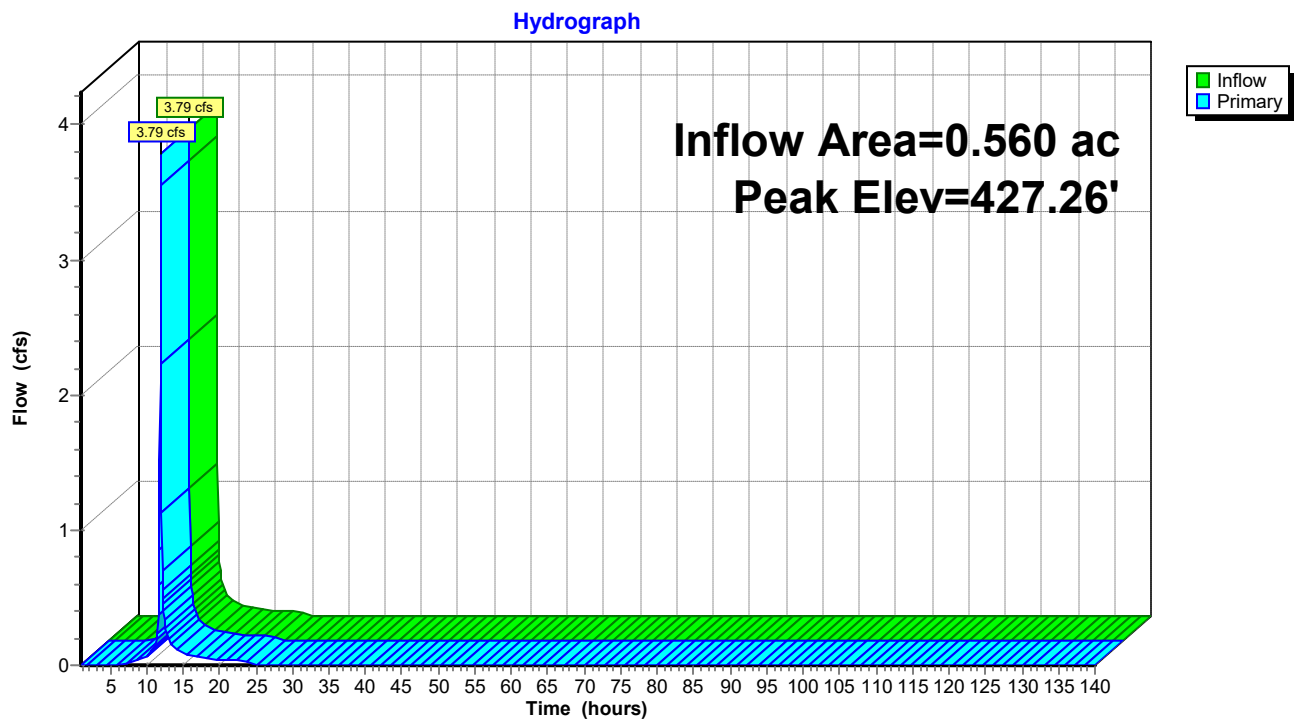
Inflow Area = 0.560 ac, 65.54% Impervious, Inflow Depth = 4.09" for 100-yr event  
 Inflow = 3.79 cfs @ 11.97 hrs, Volume= 0.191 af  
 Outflow = 3.79 cfs @ 11.97 hrs, Volume= 0.191 af, Atten= 0%, Lag= 0.0 min  
 Primary = 3.79 cfs @ 11.97 hrs, Volume= 0.191 af

Routing by Dyn-Stor-Ind method, Time Span= 1.00-140.00 hrs, dt= 0.05 hrs  
 Peak Elev= 427.26' @ 11.97 hrs

| Device | Routing  | Invert  | Outlet Devices                    |
|--------|----------|---------|-----------------------------------|
| #1     | Device 2 | 426.43' | <b>24.0" Vert. INLET</b> C= 0.600 |
| #2     | Primary  | 426.43' | <b>20.000 cfs Constant Flow</b>   |

**Primary OutFlow** Max=3.68 cfs @ 11.97 hrs HW=427.24' TW=0.00' (Dynamic Tailwater)  
 ↳ **2=Constant Flow** (Passes 3.68 cfs of 20.00 cfs potential flow)  
 ↳ **1=INLET** (Orifice Controls 3.68 cfs @ 3.07 fps)

### Pond HD: Hydro Dynamic



### Summary for Pond PP: Porous Pavement

Inflow Area = 1.010 ac, 81.09% Impervious, Inflow Depth = 4.84" for 100-yr event  
 Inflow = 7.66 cfs @ 11.96 hrs, Volume= 0.408 af  
 Outflow = 5.37 cfs @ 12.04 hrs, Volume= 0.408 af, Atten= 30%, Lag= 4.6 min  
 Discarded = 5.37 cfs @ 12.04 hrs, Volume= 0.408 af  
 Primary = 0.00 cfs @ 1.00 hrs, Volume= 0.000 af  
 Secondary = 0.00 cfs @ 1.00 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 1.00-140.00 hrs, dt= 0.05 hrs  
 Peak Elev= 433.52' @ 12.04 hrs Surf.Area= 1.331 ac Storage= 0.118 af

Plug-Flow detention time= (not calculated: outflow precedes inflow)  
 Center-of-Mass det. time= 75.7 min ( 850.6 - 774.9 )

| Volume | Invert | Avail.Storage | Storage Description |
|--------|--------|---------------|---------------------|
|--------|--------|---------------|---------------------|

|    |         |           |                                                                                           |
|----|---------|-----------|-------------------------------------------------------------------------------------------|
| #1 | 430.42' | 14.915 af | <b>Custom Stage Data (Conic)</b> Listed below (Recalc)<br>37.287 af Overall x 40.0% Voids |
|----|---------|-----------|-------------------------------------------------------------------------------------------|

| Elevation<br>(feet) | Surf.Area<br>(acres) | Inc.Store<br>(acre-feet) | Cum.Store<br>(acre-feet) | Wet.Area<br>(acres) |
|---------------------|----------------------|--------------------------|--------------------------|---------------------|
| 430.42              | 0.080                | 0.000                    | 0.000                    | 0.080               |
| 433.42              | 0.080                | 0.240                    | 0.240                    | 0.094               |
| 434.50              | 100.000              | 37.047                   | 37.287                   | 100.014             |

| Device | Routing | Invert | Outlet Devices |
|--------|---------|--------|----------------|
|--------|---------|--------|----------------|

|    |           |         |                                                                                                                                                                                                                           |
|----|-----------|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| #1 | Primary   | 428.21' | <b>15.0" Round Culvert</b><br>L= 141.0' CPP, square edge headwall, Ke= 0.500<br>Inlet / Outlet Invert= 428.21' / 427.50' S= 0.0050 ' S= 0.0050 ' Cc= 0.900<br>n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf |
| #2 | Discarded | 430.42' | <b>4.000 in/hr Exfiltration over Horizontal area</b>                                                                                                                                                                      |
| #3 | Device 1  | 433.62' | <b>36.0" x 36.0" Horiz. Orifice/Grate</b> C= 0.600<br>Limited to weir flow at low heads                                                                                                                                   |
| #4 | Secondary | 434.12' | <b>25.0' long x 10.0' breadth Broad-Crested Rectangular Weir</b><br>Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60<br>Coef. (English) 2.49 2.56 2.70 2.69 2.68 2.69 2.67 2.64                                        |

**Discarded OutFlow** Max=5.25 cfs @ 12.04 hrs HW=433.52' (Free Discharge)

↑ **2=Exfiltration** (Exfiltration Controls 5.25 cfs)

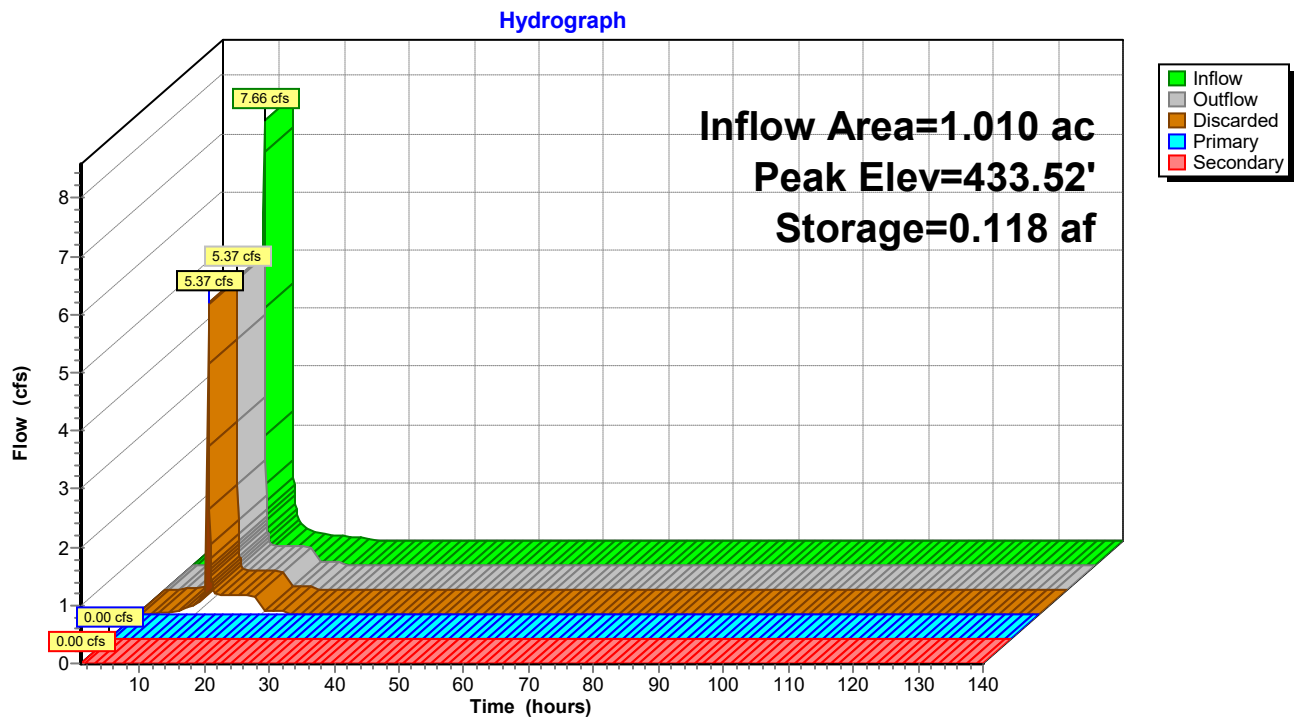
**Primary OutFlow** Max=0.00 cfs @ 1.00 hrs HW=430.42' TW=0.00' (Dynamic Tailwater)

↑ **1=Culvert** (Passes 0.00 cfs of 5.82 cfs potential flow)

↑ **3=Orifice/Grate** ( Controls 0.00 cfs)

**Secondary OutFlow** Max=0.00 cfs @ 1.00 hrs HW=430.42' TW=0.00' (Dynamic Tailwater)

↑ **4=Broad-Crested Rectangular Weir** ( Controls 0.00 cfs)

**Pond PP: Porous Pavement**



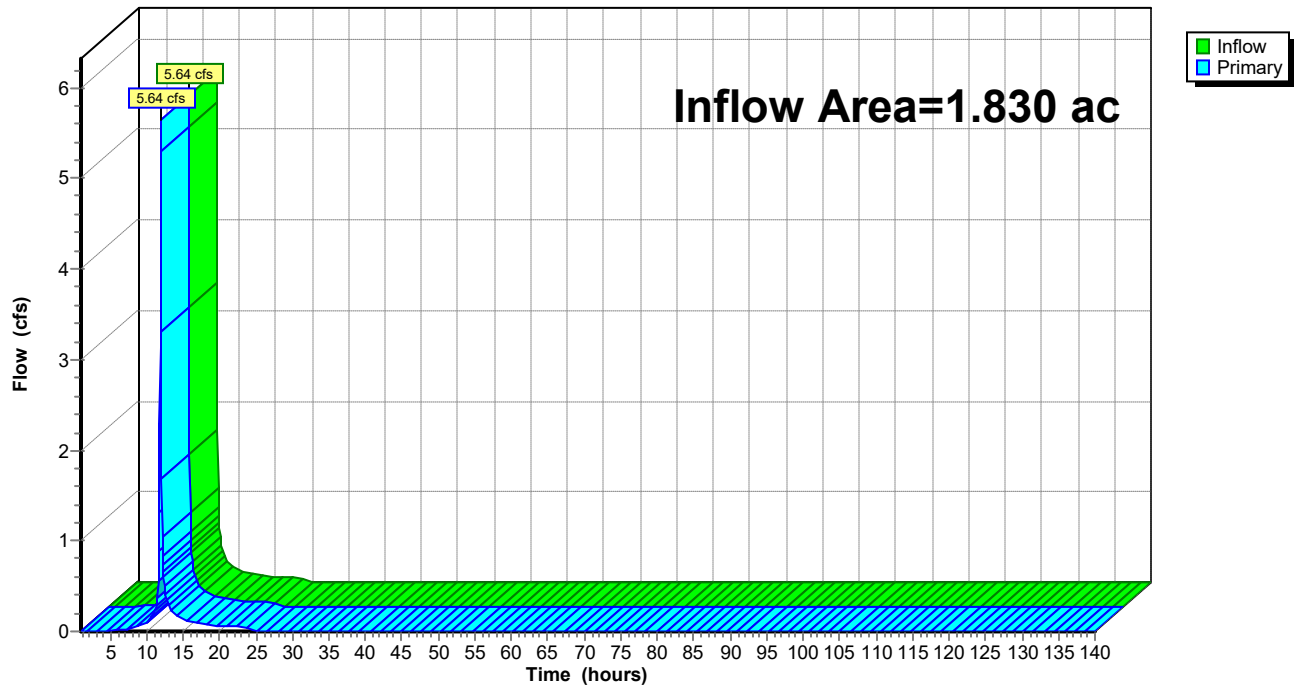
**Summary for Link PT: PROPOSED TOTAL**

Inflow Area = 1.830 ac, 75.08% Impervious, Inflow Depth = 1.88" for 100-yr event  
Inflow = 5.64 cfs @ 11.97 hrs, Volume= 0.286 af  
Primary = 5.64 cfs @ 11.97 hrs, Volume= 0.286 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 1.00-140.00 hrs, dt= 0.05 hrs

**Link PT: PROPOSED TOTAL**

Hydrograph





## **Appendix C**

***Water Quality Volume/Channel Protection Volume  
(Does not apply to this project-Refer to Sections 3.1 & 3.2)***

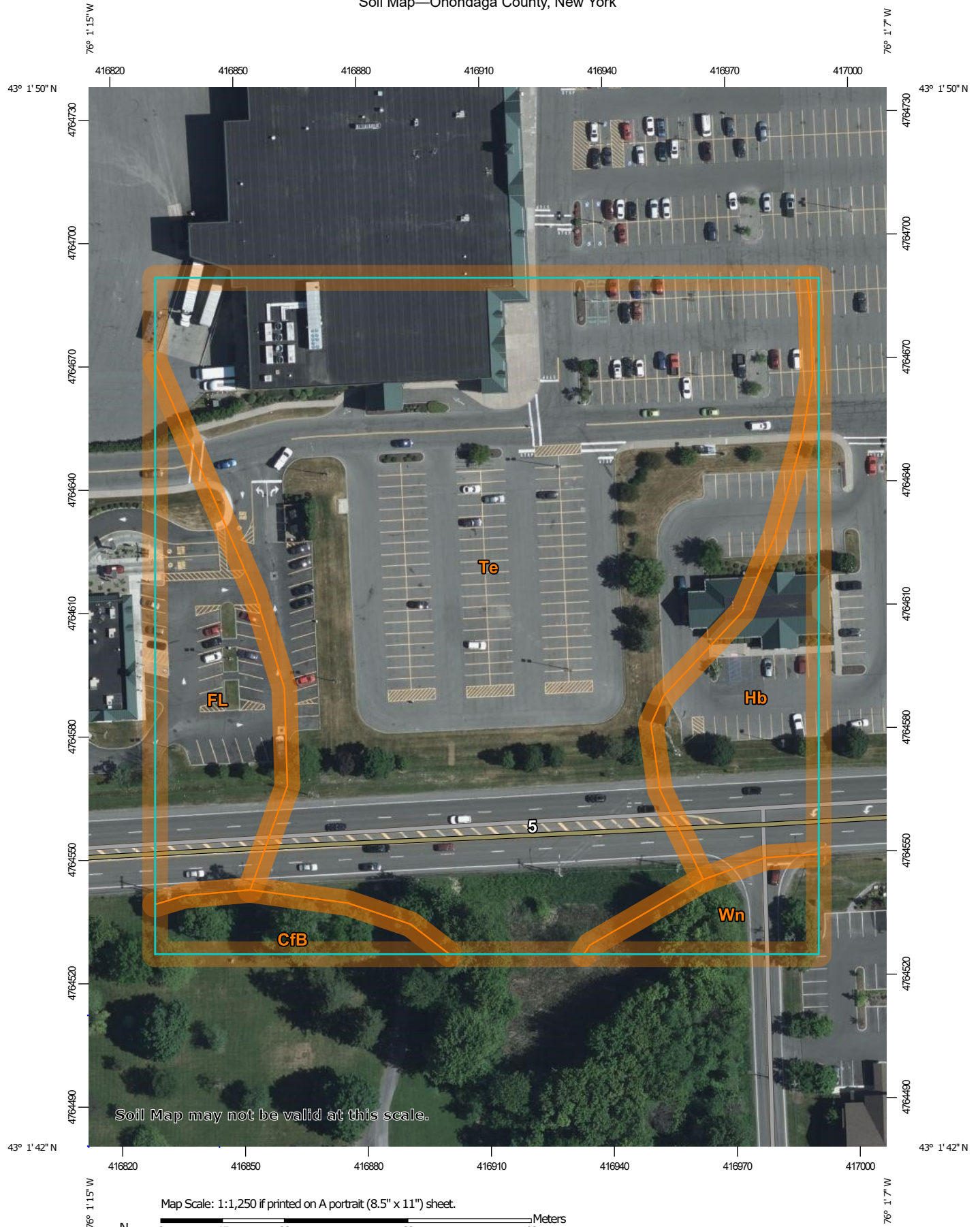


## *Appendix D*

### *Soils*



# Soil Map—Onondaga County, New York



**Natural Resources  
Conservation Service**

Web Soil Survey  
National Cooperative Soil Survey

3/4/2021  
Page 1 of 3

## MAP LEGEND

### Area of Interest (AOI)

 Area of Interest (AOI)

### Soils

 Soil Map Unit Polygons

 Soil Map Unit Lines

 Soil Map Unit Points

### Special Point Features



Blowout



Borrow Pit



Clay Spot



Closed Depression



Gravel Pit



Gravelly Spot



Landfill



Lava Flow



Marsh or swamp



Mine or Quarry



Miscellaneous Water



Perennial Water



Rock Outcrop



Saline Spot



Sandy Spot



Severely Eroded Spot



Sinkhole



Slide or Slip



Sodic Spot



Spoil Area



Stony Spot



Very Stony Spot



Wet Spot



Other



Special Line Features

### Water Features



Streams and Canals

### Transportation



Rails



Interstate Highways



US Routes



Major Roads



Local Roads

### Background



Aerial Photography

## MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed 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: Onondaga County, New York

Survey Area Data: Version 15, Jun 11, 2020

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: May 21, 2020—Jun 17, 2020

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

## Map Unit Legend

| Map Unit Symbol                    | Map Unit Name                                                    | Acres in AOI | Percent of AOI |
|------------------------------------|------------------------------------------------------------------|--------------|----------------|
| CfB                                | Cazenovia silt loam, 2 to 8 percent slopes                       | 0.2          | 3.2%           |
| FL                                 | Fluvaquents, frequently flooded                                  | 0.7          | 10.6%          |
| Hb                                 | Hamlin silt loam                                                 | 0.7          | 9.9%           |
| Te                                 | Teel silt loam                                                   | 4.8          | 72.9%          |
| Wn                                 | Wayland soils complex, 0 to 3 percent slopes, frequently flooded | 0.2          | 3.4%           |
| <b>Totals for Area of Interest</b> |                                                                  | <b>6.6</b>   | <b>100.0%</b>  |

HSG

B

—

B

B

D



## Onondaga County, New York

### Te—Teel silt loam

#### Map Unit Setting

*National map unit symbol:* 9vkv

*Elevation:* 600 to 1,800 feet

*Mean annual precipitation:* 38 to 42 inches

*Mean annual air temperature:* 45 to 48 degrees F

*Frost-free period:* 110 to 190 days

*Farmland classification:* All areas are prime farmland

#### Map Unit Composition

*Teel and similar soils:* 80 percent

*Minor components:* 20 percent

*Estimates are based on observations, descriptions, and transects of the mapunit.*

#### Description of Teel

##### Setting

*Landform:* Flood plains

*Landform position (two-dimensional):* Summit

*Landform position (three-dimensional):* Talf

*Down-slope shape:* Concave

*Across-slope shape:* Convex

*Parent material:* Silty alluvium

##### Typical profile

*H1 - 0 to 10 inches:* silt loam

*H2 - 10 to 28 inches:* silt loam

*H3 - 28 to 60 inches:* silt loam

##### Properties and qualities

*Slope:* 0 to 3 percent

*Depth to restrictive feature:* More than 80 inches

*Drainage class:* Moderately well drained

*Capacity of the most limiting layer to transmit water (Ksat):* Moderately high to high (0.57 to 1.98 in/hr)

*Depth to water table:* About 18 to 24 inches

*Frequency of flooding:* OccasionalNone

*Frequency of ponding:* None

*Calcium carbonate, maximum content:* 1 percent

*Available water capacity:* High (about 9.1 inches)

##### Interpretive groups

*Land capability classification (irrigated):* None specified

*Land capability classification (nonirrigated):* 2w

*Hydrologic Soil Group:* B/D

*Hydric soil rating:* No

### **Minor Components**

#### **Howard**

*Percent of map unit:* 5 percent

*Hydric soil rating:* No

#### **Hamlin**

*Percent of map unit:* 5 percent

*Hydric soil rating:* No

#### **Wayland**

*Percent of map unit:* 5 percent

*Landform:* Flood plains

*Hydric soil rating:* Yes

#### **Herkimer**

*Percent of map unit:* 5 percent

*Hydric soil rating:* No

## **Data Source Information**

Soil Survey Area: Onondaga County, New York

Survey Area Data: Version 15, Jun 11, 2020

## Onondaga County, New York

### Hb—Hamlin silt loam

#### Map Unit Setting

*National map unit symbol:* 9vgz

*Elevation:* 360 to 1,260 feet

*Mean annual precipitation:* 38 to 42 inches

*Mean annual air temperature:* 45 to 48 degrees F

*Frost-free period:* 110 to 190 days

*Farmland classification:* All areas are prime farmland

#### Map Unit Composition

*Hamlin and similar soils:* 85 percent

*Minor components:* 15 percent

*Estimates are based on observations, descriptions, and transects of the mapunit.*

#### Description of Hamlin

##### Setting

*Landform:* Flood plains

*Landform position (two-dimensional):* Summit

*Landform position (three-dimensional):* Rise

*Down-slope shape:* Convex

*Across-slope shape:* Convex

*Parent material:* Silty alluvium mainly from areas of siltstone, shale, and limestone

##### Typical profile

*H1 - 0 to 9 inches:* silt loam

*H2 - 9 to 16 inches:* silt loam

*H3 - 16 to 41 inches:* silt loam

*H4 - 41 to 60 inches:* silt loam

##### Properties and qualities

*Slope:* 0 to 3 percent

*Depth to restrictive feature:* More than 80 inches

*Drainage class:* Well drained

*Capacity of the most limiting layer to transmit water*

*(Ksat):* Moderately high to high (0.57 to 1.98 in/hr)

*Depth to water table:* About 36 to 72 inches

*Frequency of flooding:* OccasionalNone

*Frequency of ponding:* None

*Calcium carbonate, maximum content:* 1 percent

*Available water capacity:* High (about 11.0 inches)

##### Interpretive groups

*Land capability classification (irrigated):* None specified

*Land capability classification (nonirrigated):* 1

*Hydrologic Soil Group:* B

*Hydric soil rating:* No



### **Minor Components**

#### **Herkimer**

*Percent of map unit:* 5 percent

*Hydric soil rating:* No

#### **Teel**

*Percent of map unit:* 5 percent

*Hydric soil rating:* No

#### **Howard**

*Percent of map unit:* 5 percent

*Hydric soil rating:* No

## **Data Source Information**

Soil Survey Area: Onondaga County, New York

Survey Area Data: Version 15, Jun 11, 2020

## Onondaga County, New York

### FL—Fluvaquents, frequently flooded

#### Map Unit Setting

*National map unit symbol:* 9vgn

*Elevation:* 300 to 1,800 feet

*Mean annual precipitation:* 38 to 42 inches

*Mean annual air temperature:* 45 to 48 degrees F

*Frost-free period:* 110 to 190 days

*Farmland classification:* Not prime farmland

#### Map Unit Composition

*Fluvaquents and similar soils:* 75 percent

*Minor components:* 25 percent

*Estimates are based on observations, descriptions, and transects of the mapunit.*

#### Description of Fluvaquents

##### Setting

*Landform:* Flood plains

*Landform position (two-dimensional):* Toeslope

*Landform position (three-dimensional):* Dip

*Down-slope shape:* Concave

*Across-slope shape:* Concave

*Parent material:* Alluvium with highly variable texture

##### Typical profile

*H1 - 0 to 5 inches:* mucky silt loam

*H2 - 5 to 70 inches:* very gravelly silt loam

##### Properties and qualities

*Slope:* 0 to 5 percent

*Depth to restrictive feature:* More than 80 inches

*Drainage class:* Poorly drained

*Capacity of the most limiting layer to transmit water*

*(Ksat):* Moderately low to high (0.06 to 5.95 in/hr)

*Depth to water table:* About 0 inches

*Frequency of flooding:* FrequentNone

*Frequency of ponding:* Frequent

*Calcium carbonate, maximum content:* 15 percent

*Available water capacity:* Moderate (about 6.5 inches)

##### Interpretive groups

*Land capability classification (irrigated):* None specified

*Land capability classification (nonirrigated):* 5w

*Hydrologic Soil Group:* A/D

*Hydric soil rating:* Yes

### **Minor Components**

#### **Teel**

*Percent of map unit:* 5 percent

*Hydric soil rating:* No

#### **Saprists**

*Percent of map unit:* 5 percent

*Landform:* Marshes, swamps

*Hydric soil rating:* Yes

#### **Warners**

*Percent of map unit:* 5 percent

*Landform:* Flood plains

*Hydric soil rating:* Yes

#### **Wayland**

*Percent of map unit:* 5 percent

*Landform:* Flood plains

*Hydric soil rating:* Yes

#### **Hamlin**

*Percent of map unit:* 5 percent

*Hydric soil rating:* No

## **Data Source Information**

Soil Survey Area: Onondaga County, New York

Survey Area Data: Version 15, Jun 11, 2020





# BERGMANN

ARCHITECTS ENGINEERS PLANNERS

Proposed Restaurant A and Restaurant B  
406 Towne Drive, Fayetteville, NY 13066  
Storm Water Pollution Prevention Plan (SWPPP)  
**PREPARED FOR: Route 5 Development Company, LLC**  
**540 Towne Drive, Fayetteville, NY 13066**



Bergmann

Office:

280 East Broad Street, Suite 200  
Rochester, NY 14604

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Contact: Andrew Hart, RLA, ASLA

Email: [AHart@bergmannpc.com](mailto:AHart@bergmannpc.com)

April 29, 2021

Rev: June 30, 2021



## **Stormwater Pollution Prevention Plan (SWPPP) Restaurant A and Restaurant B, Fayetteville, New York**

The following information is required to be included on the SWPPP site map by the SPDES General Permit for Construction Activity, (GP-0-20-001):

1. Direction(s) of storm water flow and approximate slopes anticipated after major grading activities.
2. Total areas of soil disturbance and areas that will not be disturbed.
3. Locations of major structural and nonstructural BMPs identified in the SWPPP.
4. Locations where stabilization practices are expected to occur.
5. Locations of off-site material, waste, borrow and equipment storage areas.
6. Locations of all Waters of the United States (including Wetlands and surface waters of the state).
7. Locations where storm water discharge to a surface water and/or discharge to MS4.
8. Areas where final stabilization has been accomplished and no further construction-phase permit requirements apply.

## **INSTRUCTIONS TO OWNER/OPERATOR/OPERATORS ENGINEER AND CONTRACTORS**

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### **Responsibilities for Compliance with Storm Water Discharge Permit Regulations at Construction Sites**

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 permit requirements. This preparation shall also include providing a description of the Project as it relates to site ownership and development responsibilities.
2. Prepare the NOI form for the Operator's signature and forward to Operator for signature; SWPPP must be complete prior to NOI submittal.
3. Include a signed NOI in the SWPPP prepared for the Project.
4. Participate at the pre-construction meeting with Contractor and appropriate subcontractors, which should include a review with all parties the requirements of the SWPPP, if requested by Operator.
5. Review Contractor's SWPPP records on a periodic basis to ensure compliance with requirements for reports and inspection and maintenance logs, if requested by Operator.
6. Certify to Operator the Contractor's compliance with SWPPP record keeping requirements, if requested by Operator.



## Operator's Responsibilities:

1. Require the Contractor to implement fully the SWPPP prepared for the site by the Operator's Engineer.
2. Forward a copy of the original permit certificate received from the regulatory agency to the Contractor for inclusion in the SWPPP Ledger and display at the Project.
3. Ensure (through periodic observations by Operator's Project Manager) and document that the Contractor is implementing the controls, inspections, maintenance, record-keeping, and all other requirements of the SWPPP.
4. File an appropriately signed Notice of Termination ("NOT") form when site work construction is completed and stabilization is achieved.
5. Request and receive all SWPPP records from the Contractor and archive those records for a minimum of five (5) years after the NOT is filed.

## Contractor's Responsibilities:

1. Sign the SWPPP Contractor's Certification Form in the SWPPP prepared for the Project (Appendix H).
2. Provide subcontractor training and require all subcontractors to sign the Subcontractor's Certification Form in the SWPPP prepared for the Project (Appendix I).
3. Implement the Erosion and Sediment Control Plans, and other requirements of the SWPPP.
4. Provide Trained Individuals, and documentation of qualifications, for the controls implemented at the Project.
5. Conduct all necessary inspections at the required intervals and prepare and retain written documentation of those inspections and all other written documentation required by the Construction General Permit.
6. Keep a copy of the SWPPP, all NOI's, permit certificates, permit language, Materials Management Process (MMP), inspection records, and other required records on the Project.
7. Post in a prominent place at the Project entrance and inside the job trailer office wall those documents required to be posted under the terms of the Construction General Permit including, the NOI (Appendix D).
8. Update and make changes to the SWPPP and supporting documents (such as the BMPs) as needed and with the approval of the Operator and the Operator's Engineer.
9. Transfer the SWPPP documents, along with all NOI's, permit certificates, NOT's, and written records required by the Construction General Permit to the Operator for archiving.





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## **Appendix A**

# **Written Storm Water Pollution Prevention Plan**





## I SCOPE

- a. **PURPOSE:** Development and proper implementation of the New York State Department of Environmental Conservation (NYSDEC), State Pollutant Discharge Elimination System (SPDES) Construction General Permit governing stormwater discharges during construction and the National Pollutant Discharge Elimination System (NPDES) Construction General Permit governing storm water discharges during construction, and in accordance with Erosion and Sediment Control practices is critical. The Contractor's participation in this program is mandatory and its non-compliance is subject to various remedies, including without limitation, monetary set-offs, withholding payments; reimbursement for costs, expenses (including reasonable attorney's fees), fines and civil penalties incurred by the Operator. This section provides a descriptive explanation of the Storm Water Pollution Prevention Program and required Contractor participation.
- b. **SPDES CONSTRUCTION GENERAL PERMIT FOR STORM WATER DISCHARGE FROM CONSTRUCTION SITES:** Regulations promulgated by the NYSDEC to regulate the discharge of storm water from Construction Activity on sites where one (1) or more acre of soil is disturbed. One of the ways to comply with these regulations for affected sites is to request coverage under the SPDES General Permit for Stormwater Discharges from Construction Activities (GP-0-20-001). In order to use the Construction General Permit, a Notice of Intent (NOI) form must be completed and mailed to the NYSDEC. Authorization to discharge stormwater under the General Permit will be effective when the owner or operator has satisfied all of the criteria listed in Part II, B of the SPDES General Permit for Construction Activity (GP-0-20-001).
- c. **NOTICE OF INTENT:** The Operator will petition the NYSDEC for stormwater discharges during construction at this site to be covered by the SPDES General Permit for Stormwater Discharges from Construction Activity, GP-0-20-001, following completion of this SWPPP. An NOI form will be filed by the Operator. Authorization to discharge stormwater from Construction Activities is effective Five (5) calendar days after the NYSDEC receives the complete NOI.
- d. **RESPONSIBILITIES OF CONTRACTOR REGARDING THE CONSTRUCTION GENERAL PERMIT:** The Contractor shall manage the discharge of stormwater from the site in accordance with the NYSDEC General Permit for Stormwater Discharges from Construction Activities and the following provisions:
  1. The Contractor shall be responsible for conducting the Storm Water Management **practices in accordance with the permit.**
  2. The Contractor shall be responsible for any enforcement action taken or imposed by federal, state, or local agencies, including the cost of fines, construction delays (stop work orders), and remedial actions resulting from the Contractor's failure to comply with the permit provisions.
- e. **PRE-CONSTRUCTION MEETING:** A Pre-Construction SWPPP Meeting (although not required by the General Permit) may occur before any land disturbing activities are started. If a pre-construction SWPPP meeting is held it should include a review and explanation of the following topics:



- Erosion and sediment control for water quality protection
  - Implementation of Erosion and Sediment Control Plans
  - The importance to proper installation of erosion and sediment control measures
  - Regular inspection by **Qualified Inspector** of erosion and sediment control measures
  - Diligent maintenance to erosion and sediment control measures
  - Contemporaneous preparation of accurate and complete records regarding inspection and maintenance of erosion and sediment control measures
  - Record-keeping for inspections and maintenance activities
- f. SWPPP CERTIFICATION REQUIREMENTS FOR THE CONTRACTOR AND SUBCONTRACTOR(S): The SWPPP shall provide forms for both the Contractor and Subcontractor(s) identifying the Company Name, Business Address and Telephone Number along with the Responsible Person for the Contractor and all subcontractors' who will implement the measures identified in the SWPPP. **The Contractor shall sign the Contractor's Certification Statement (Appendix H) and all Subcontractors shall sign the Subcontractor's Certification Statement (Appendix I) verifying they have been instructed on how to comply with and fully understand the requirements of the NYSDEC and SWPPP. These certifications must be signed, by a responsible corporate officer or other party meeting the "Signatory Requirements" in Part VII Section H & Part III.A.5. of the NYS DEC SPDES General Permit for Stormwater Runoff from construction Activity (GP-0-20-001), on behalf of each entity, prior to the beginning of any Construction Activities and shall be filed in the Project's SWPPP.**
- g. SWPPP LOCATION REQUIREMENTS: The SWPPP Ledger is meant to be a working document that shall be maintained at the site of the Construction Activities at all times throughout the Project, shall be readily available upon request by the Operator's personnel or NYSDEC or any other agency with regulatory authority over storm water issues, and shall be kept on-site until the site complies with the Final Stabilization section of this document. A copy of the General Permit (GP-0-20-001), NOI, NOI Acknowledgment Letter, MS4 Acceptance Form (if applicable) SWPPP, and inspection reports shall be maintained at the construction site until all disturbed areas have achieved final stabilization and the Notice of Termination has been submitted to the Department. The documents must be maintained in a secure location, such as a job trailer, on-site construction office, or mailbox with lock; that is accessible during normal working hours to an individual performing a compliance inspection.
- h. SWPPP: **A minimum of Two (2) copies of the SWPPP, in three (3) ring binders shall be provided by the Operator's Engineer.** One (1) copy shall be provided for use by the General Contractor and One (1) copy shall be provided as an original.



- i. **INSPECTIONS AND RECORD-KEEPING:** Inspections are required as described in Part IV, C of the General Permit GP-0-20-001 by a qualified inspector.
  1. **INSPECTOR QUALIFICATIONS** - Inspections must be conducted by a “Qualified” Inspector. “Qualified” is defined as a person knowledgeable in the principles and practices of erosion and sediment controls who possesses the skills to assess conditions at the construction site that could impact storm water quality and to assess the effectiveness of any sediment and erosion control measures selected to control the quality of storm water discharges from the Construction Activity such as a licensed Professional Engineer, Certified Professional in Erosion and Sediment Control(CPESC), licensed Landscape Architect. It also means that someone working under the direct supervision of a licensed Professional Engineer, or 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 an individual performing the site inspection has received four (4) hours of training, endorsed by the Department, from a Soil and Water Conservation District, CPESC, Inc. or other department endorsed entity in proper erosion and sediment control principles no later than two (2) years from the date of the current general permit issued. After receiving the initial training, an individual working under the direct supervision of a licensed Professional Engineer or licensed Landscape Architect shall receive four (4) hours of training every three (3) years. Inspections of post construction stormwater management practices that include structural components, such as a dam for impoundment shall be performed by a licensed Professional Engineer.
  2. **RAINFALL MONITORING** – A rain gage should be maintained on the site and a record of the rainfall amounts (in tenths of an inch) and dates shall be recorded every 24 hours on the Rain Log (Appendix P).
  3. **INSPECTOR RESPONSIBILITIES** – The Qualified Inspector shall be trained in all the inspection and maintenance practices necessary for keeping the Erosion and Sediment Controls that are used onsite in good working order. They will also be trained in the completion of, initiation of actions required by, and the filing of the inspection forms. Documentation of Qualified Inspector training will be kept on site with the SWPPP.
  4. **INSPECTION PROCEDURES** - Inspections must include all areas of the site disturbed by Construction Activities and areas used for storage of materials that are exposed to precipitation. Qualified Inspectors must look for evidence of, or the potential for, pollutants entering the storm water conveyance system. Erosion and Sediment Control measures identified in the SWPPP must be observed to ensure proper operation. Discharge locations must be inspected to ascertain whether Erosion and Sediment Control measures are effective in preventing significant impacts to Waters of the United States, where accessible. Where discharge locations are inaccessible, nearby downstream locations must be inspected to the extent that such inspections are practicable. Locations where vehicles enter or exit the site must be inspected for evidence of off-site tracking. The following inspection and maintenance practices will be used to maintain Erosion and Sediment Controls and stabilization measures:





- a. All control measures will be inspected at least at the frequency identified in this Section. Conduct at least one (1) site inspection every seven (7) calendar days.
  - b. All measures will be maintained in good working order; if repairs or other measures are found to be necessary, they will be initiated within 24 hours of report, and completed within 48 hours of report and documented with photos.
  - c. Built up sediment will be removed from silt fence when it has reached 25% of the height of the fence.
  - d. Silt fences will be inspected for depth of sediment, tears, etc., to see if the fabric is securely attached to the fence posts, and to see that the fence posts are securely in the ground.
  - e. Temporary and permanent seeding and all other stabilization measures will be inspected for bare spots, washouts, and healthy growth.
  - f. An Inspection Report (Appendix J) will be completed after each inspection. Copies of the report forms to be completed by the Qualified Inspector(s) are included in this SWPPP.
  - g. Disturbed Areas and materials storage areas will be inspected for evidence of or potential for pollutants entering stormwater systems.
  - h. Report to U.S. Environmental Protection Agency, or NYSDEC within 24 hours any noncompliance with the SWPPP that will endanger public health or the environment. Follow up with a written report within 5 days of the noncompliance event. The following events require 24 hour reporting: a) any unanticipated bypass which exceeds any effluent limitation in the permit, b) any upset which exceeds any effluent limitation in the permit, and c) a violation of a maximum daily discharge limitation for any of the pollutants listed by the EPA in the permit to be reported within 24 hours. The written submission must contain a description of the non-compliance and its cause; the period of non-compliance, including exact dates and times, and if the non-compliance has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent recurrence of the non-compliance.
  - i. Spills or Releases of Hazardous Substances or Oil in excess of reportable quantities (as established under 40 CFR Part 110, 40 CFR Part 117 or 40 CFR Part 302) must be reported.
5. MONITORING – There are no monitoring requirements required under this SWPPP and NOI coverage.
6. THIRD PARTY INSPECTIONS – Where required or requested by the Operator, third party inspections by the design engineer shall be in addition to and shall not replace inspections by the Contractor (Qualified Inspector). The third party inspector shall complete and sign any inspection report and include a copy of the report in the SWPPP following each inspection.
7. RECORDKEEPING - It is imperative that documentation of the inspection and maintenance of all erosion and sediment control measures as soon as possible after the inspection and/or maintenance is completed. The inspection reports identify any incidents of non-compliance with the permit conditions. Where a report does not identify any incidents of non-compliance, the report must contain a certification that the Project complies with the SWPPP and the



Construction General Permit or other applicable State Permit. The report must be signed in accordance Part VII.H of the General Permit (GP-0-20-001). These records are used to prove that the required inspection and maintenance were performed and shall be placed in the SWPPP Ledger. In addition to inspection and maintenance reports, records should be kept of the Construction Activities that occur on the site. The Contractor shall retain copies of the SWPPP, all reports and data for a minimum of **five (5) years** after the project is complete in paper and CD format.

The forms found in this SWPPP shall be used by the Qualified Inspector(s) to inventory and report the condition of each measure to assist in maintaining the erosion and sediment control measures in good working order. The following list identifies the required Inspection and Maintenance documentation and record keeping that must be maintained by the Contractor under this SWPPP:

|                   |                                                            |
|-------------------|------------------------------------------------------------|
| <b>Appendix J</b> | <b>Inspection Report</b>                                   |
| <b>Appendix K</b> | <b>Stabilization Schedule</b>                              |
| <b>Appendix L</b> | <b>Implementation Schedule</b>                             |
| <b>Appendix M</b> | <b>Modification Report</b>                                 |
| <b>Appendix N</b> | <b>Final Stabilization/Notice of Termination Checklist</b> |
| <b>Appendix O</b> | <b>Reportable Quantity Release Form</b>                    |
| <b>Appendix P</b> | <b>Project Rainfall Log</b>                                |

These report forms shall become an integral part of the SWPPP and shall be made readily accessible to governmental inspection officials, the Operator's Engineer, and the Operator for review upon request during visits to the Project site. In addition, copies of the reports shall be provided to any of these persons, upon request, via mail or facsimile transmission. Inspection and maintenance report forms are to be maintained by the permittee for five years following the final stabilization of the site.

8. OTHER RECORD KEEPING REQUIREMENTS - The Contractor shall keep the following records related to Construction Activities at the site:
  - Dates when major grading activities occur and the areas which were graded
  - Dates and details concerning the installation of structural controls
  - Dates when Construction Activities cease in an area
  - Dates when stabilization measures are initiated
  - Dates when an area is stabilized, either temporarily or permanently
  - Dates of rainfall and the amount of rainfall
  - Dates and descriptions of the character and amount of any spills of Hazardous Substances or Oil
  - Records of reports filed with regulatory agencies if reportable quantities of Hazardous Substances or Oil spilled
- j. SWPPP MODIFICATIONS: The inspection report should also identify if any revisions to the SWPPP are warranted due to unexpected conditions. The SWPPP is meant to be a dynamic working guide that is to be kept current and amended whenever:



1. There is a change in design, construction, operation, or maintenance at the construction site that has or could have a significant effect on the discharge of pollutants to the Waters of the United States that has not been previously addressed in the SWPPP. In addition to modifying the SWPPP, the site map may also require an amendment.
2. Inspections or investigations by site staff, or by local, state or federal officials, determine that the discharges the SWPPP is ineffective in eliminating or significantly minimizing pollutants in storm water discharges from the construction site. Modifications that are the result of an inspection must be initiated within 24 hours and completed within 48 hours.
3. Based on the results of an inspection, it must be modified as necessary to include additional or modified BMPs designed to correct problems identified. Revisions to the SWPPP must be completed within seven (7) calendar days following the inspection.
4. There is a release containing a Hazardous Substance or Oil in an amount equal or more than a reportable quantity established under either 40 CFR Part 110, 40 CFR Part 117 or 40 CFR Part 302 occurs during a 24-hour period. Revisions to the SWPPP must be completed within seven (7) calendar days of knowledge of the release.

Any such changes to the SWPPP must be made in writing on the Modification Report (Appendix M) within 7 days of the date such modification or amendment is made. Changes must also be drawn on the Progress Drawing.

- k. FINAL STABILIZATION AND TERMINATION OF PERMIT COVERAGE: A site can be considered finally stabilized when all soil disturbing activities have been completed and:
  1. A uniform perennial vegetative cover with a density of **80%** for the unpaved areas and areas not covered by permanent structures has been established or equivalent permanent stabilization measures have been established.
  2. The facility no longer discharges storm water associated with Construction Activities.
  3. A Notice of Termination (NOT) form filed by the Operator(s) with the NYSDEC. The NOT must be submitted within 30 days of final stabilization.





## II PROJECT NAME AND LOCATION

Restaurant A and Restaurant B  
406 Towne Drive  
Fayetteville, NY 13066  
Onondaga County

A general location map with enough detail to identify the location of the construction site, the receiving waters within one (1) mile of the site (if applicable) is included in Appendix B.

## III OPERATOR'S NAME AND ADDRESS

Route 5 Development Company, LLC  
540 Towne Drive  
Fayetteville, NY 13066

## IV PROJECT DESCRIPTION

This Stormwater Management Report is for the approximate 7,420 sf proposed restaurant development at 406 Towne Drive, Fayetteville, NY. The project is located in Onondaga County. This SWPPP addresses all phases of the project including access drives, walkways, utility infrastructure, and building foundation preparation. The project site is bounded by three commercial sites to the west, north and east. East Genesee Street is located to the south.

The projects contributing drainage area is 1.83 acres and the existing site contains 1.39 acres of impervious surfaces. The proposed site contains 1.435 acres of impervious surfaces. This proposed site design results in a 0.045 (3%) increase in impervious surfaces in comparison to the existing developed site. However, this increase does not result in an increase in peak flow created by the proposed development and will not cause an impact to existing downstream structures and properties from the proposed site improvements. With the increase of 3% impervious surfaces, the proposed project site will need to meet the requirements of the New York State Stormwater Management Design Manual (Chapter 9 – Redevelopment) and needs to provide water quality treatment.

The project property is approximately 1.58 acres, with an approximate total site disturbance, including grading and impervious cover is 1.58 acres. The estimated time for completion of the construction on the project is 6 months. General soil disturbing activities will generally include:

- Construction of temporary construction exit points
- Demolition of pavement's, and associated utilities
- Clearing and grubbing
- Installation of storm sewer pipes, inlets, and quality structures
- Installation of electric, gas, and communication services
- Construction of curb, drives, and walkways
- Construction of foundations
- Final grading

**V EXISTING SITE CONDITIONS:****1. Existing Conditions:**

The project site tributary area is approximately 1.83 acres.

The topography of the project site ranges from elevations 431 to 435 feet. The site has slopes ranging from 1% to 8%. Runoff is conveyed via overland shallow sheet flow and a closed stormwater system.

**VI NAME OF RECEIVING WATERS**

There are no waterbodies within 1000+ feet of the project site.

**VII DESCRIPTION OF SOILS**

Soil Types within the Subject Area

i)

| Symbol | Soil Name             | Hydrologic Soil Group |
|--------|-----------------------|-----------------------|
| Te     | Teel Silt Loam        | B                     |
| CfB    | Cazenovia Silt Loam   | B                     |
| FL     | Fluvaquents           | ---                   |
| Hb     | Hamlin Silt Loam      | B                     |
| Wn     | Wayland Soils Complex | D                     |

**VIII EROSION AND SEDIMENT CONTROLS**

- a. In areas where soil disturbance activity has temporarily or permanently ceased, the application of soil stabilization measures must be initiated by the end of the next business day and completed within fourteen (14) days from the date the current soil disturbance activity ceased. The soil stabilization measures selected shall be in conformance with the technical standard, New York State Standards and Specifications for Erosion and Sediment Control, dated November 2016.
- b. The project will utilize temporary and permanent erosion and sediment control practices to prevent sediment from leaving the project area. A list of the practices anticipated are as follows:

| Temporary Structural                |                                       |       |                          |                           |       |
|-------------------------------------|---------------------------------------|-------|--------------------------|---------------------------|-------|
|                                     | BMP                                   | Notes |                          | BMP                       | Notes |
| <input checked="" type="checkbox"/> | Inlet Protection                      |       | <input type="checkbox"/> | Brush Barrier             |       |
| <input type="checkbox"/>            | Outlet Protection                     |       | <input type="checkbox"/> | Temporary Stream Crossing |       |
| <input checked="" type="checkbox"/> | Perimeter Protection                  |       | <input type="checkbox"/> | Pipe Slope Drain          |       |
| <input checked="" type="checkbox"/> | Stabilized Construction Entrance/Exit |       | <input type="checkbox"/> | Wind Fence                |       |



| Temporary Structural                |                                                              |                         |                                     |                              |                        |
|-------------------------------------|--------------------------------------------------------------|-------------------------|-------------------------------------|------------------------------|------------------------|
|                                     | BMP                                                          | Notes                   |                                     | BMP                          | Notes                  |
| <input type="checkbox"/>            | Stone Staging Area                                           |                         | <input checked="" type="checkbox"/> | Temporary Diversion Channels |                        |
| <input type="checkbox"/>            | Temporary Sediment Basin                                     |                         | <input type="checkbox"/>            | Temporary Diversion Berms    |                        |
| <input type="checkbox"/>            | Temporary Gravel and Riprap Sediment Trap                    |                         | <input type="checkbox"/>            | Other                        |                        |
| <input checked="" type="checkbox"/> | Temporary Rock Dam Sediment Trap                             |                         | <input type="checkbox"/>            | Other                        |                        |
| <input type="checkbox"/>            | Check Dam                                                    |                         | <input type="checkbox"/>            | Other                        |                        |
| <input checked="" type="checkbox"/> | Sediment Fence                                               |                         | <input type="checkbox"/>            |                              |                        |
| <input checked="" type="checkbox"/> | Temporary Seeding                                            |                         | <input type="checkbox"/>            | Chemical Stabilization       |                        |
| <input checked="" type="checkbox"/> | Temporary Mulching                                           |                         | <input type="checkbox"/>            | Other                        |                        |
| <input type="checkbox"/>            | Rolled Erosion Control Product (RECP)                        | 1 on 3 slope or greater | <input type="checkbox"/>            | Other                        |                        |
| <input type="checkbox"/>            | Slope Tracking (Soil Roughening)                             |                         | <input type="checkbox"/>            | Other                        |                        |
| <input checked="" type="checkbox"/> | Watering to Minimize Wind Erosion                            |                         | <input type="checkbox"/>            | Other                        |                        |
| Permanent Stabilization             |                                                              |                         |                                     |                              |                        |
|                                     | BMP                                                          | Notes                   |                                     | BMP                          | Notes                  |
| <input type="checkbox"/>            | RECP (all slopes exceeding 3:1 (3 horizontal to 1 vertical)) |                         | <input type="checkbox"/>            | Vegetation Protection        |                        |
| <input checked="" type="checkbox"/> | Permanent Seeding                                            |                         | <input type="checkbox"/>            | Sod                          |                        |
| <input checked="" type="checkbox"/> | Permanent Planting (vegetative landscaping)                  |                         | <input type="checkbox"/>            | Other                        |                        |
| <input checked="" type="checkbox"/> | Mulching                                                     |                         | <input type="checkbox"/>            | Other                        |                        |
| Permanent Structural                |                                                              |                         |                                     |                              |                        |
|                                     | BMP                                                          | Notes                   |                                     | BMP                          | Notes                  |
| <input type="checkbox"/>            | Outlet Protection                                            |                         | <input type="checkbox"/>            | Stormwater Channel           |                        |
| <input checked="" type="checkbox"/> | Storm Drainage System                                        |                         | <input type="checkbox"/>            | Retaining Wall               |                        |
| <input checked="" type="checkbox"/> | Curb                                                         |                         | <input type="checkbox"/>            | Gradient Terrace             |                        |
| <input type="checkbox"/>            | Stormwater Pond                                              |                         | <input type="checkbox"/>            | Stormwater Retention Pond    |                        |
| <input type="checkbox"/>            | Stormwater Infiltration                                      |                         | <input type="checkbox"/>            | Stormwater Filtration        |                        |
| <input type="checkbox"/>            | Bio Swale                                                    |                         | <input type="checkbox"/>            | Bio Retention Basin          |                        |
| <input checked="" type="checkbox"/> | Other                                                        | Pervious Pavement       | <input checked="" type="checkbox"/> | Other                        | Hydrodynamic Separator |

c. Sequence of Major Construction Activities

The Contractor will be responsible for implementing the following Erosion and Sediment Control and Storm Water Management control measures. The Contractor may designate these tasks to certain subcontractors as he sees fit, but the ultimate





responsibility for implementing these controls and ensuring their proper functioning remains with the Contractor. The order of activities will be as listed below and on the erosion and sediment control plan (Sequence of Construction).

## Construction Sequence

1. Pre-construction meeting held to include Project Manager, Operator's Engineer, Contractor, NYSDEC, and Sub-contractors prior to land disturbing activities.
2. Construct construction entrance/exit at locations designated on plans.
3. Install perimeter silt fence.
4. Begin asphalt and site appurtenance demolition.
5. Begin clearing and grubbing operations. Clearing and grubbing shall be done only in areas where earthwork will be performed and only in areas where construction is planned to commence within 14 days after clearing and grubbing.
6. Have a qualified professional conduct an assessment of the site prior to the commencement of construction and certify in an inspection report that the appropriate erosion and sediment controls described in the SWPPP and required by the NYSDEC permit have been adequately installed or implemented to ensure overall preparedness of the site for the commencement of construction.
7. Strip topsoil and stockpile in a location acceptable to construction manager. When stockpile is complete, install perimeter silt fence, seed surface with 100% perennial ryegrass mixture at a rate of 2-4 lbs. per 1000 sf. Apply 90-100 lbs per 1000 sf of mulch.
8. Commence earthwork cut and fills. The work shall be progressed to allow a reasonable transfer of cut and fill earth for rough grading and earth moving. The contractor will be given some latitude to vary from the following schedule in order to meet the field conditions encountered. Contractor shall review variations to SWPPP with design engineer and qualified professional prior to implementation. All changes to SWPPP drawings must be documented within onsite SWPPP.
9. Stabilize all areas as soon as practicable, idle in excess of 7 days and in which construction will not commence within 14 days.
10. Following rough grading, utility installation should begin, trench excavation/backfill areas should be stabilized progressively at the end of each workday with seed and straw mulch at a rate of 100% perennial rye grass at 2-4 lbs/1000 sf mulched at 90-100 lbs/1000 sf.
11. Construct all curb inlets, area inlets, and storm sewer manholes, as shown on the plans.
12. Install inlet/outlet protection at the locations of all grade inlets, curb inlets, and at the ends of all exposed storm sewer pipes prior to final paving.
13. Stabilize all idle areas starting the next day and completing within 14 days when construction will not commence within 14 days.



14. As roadway and access drives are brought to grade, they will be stabilized with crushed stone subbase at a depth specified on plans to prevent erosion as soon as practicable. Inlet protection may be removed temporarily for this construction.
15. As landscaped areas are brought to grade, stabilize with topsoil, seeding and mulching per specifications.
16. Clean sub-base where required and proceed with paving.
17. Remove temporary construction exits only prior to pavement construction (these areas are to be paved last).
18. The developer/owner/operator shall have a qualified professional assess the site and final report to determine all permanent stormwater measures have been installed per plans and 80% uniform germination/stabilization has been achieved prior to the removal of all remaining temporary erosion and sediment control devices.

## C. Storm Water Management

Due to the 3% increase of proposed impervious surfaces as compared to the existing impervious surfaces, there will be stormwater management facilities required for this project site to address the water quality requirements. The Owner shall be responsible for maintaining stormwater management facilities in accordance with the New York State Stormwater Management Design Manual.

### 1. WATER QUALITY VOLUME

The New York State Department of Environmental Conservation, Stormwater Management Design Manual was used to determine the water quality criteria. Specifically, the unified storm water sizing criteria was followed for water quality to meet the State of New York pollutant goals. The water quantity volume is intended to improve water quality by capturing and treating 90% of the average annual storm water runoff volume. The following equation is given within the design manual for calculating the water quality storage volume and was used to size subject practices.

Per Chapter 9 of the Stormwater Management Design Manual this project would be considered a redevelopment project with additional impervious areas since there is no increase in stormwater discharge flow from the site. Under Section 9.2.1 Water Quality and Quantity Controls are sized by:

#### A. Water Quantity

- I. Redevelopment activities and additional impervious areas result in no change to the discharge from the site, the ten-year and hundred-year criteria does not apply.

- B. Water Quality – treatment objectives for the redevelopment activities and additional impervious areas shall be achieved by the following:



- I. Water quality for the redevelopment activities will be addressed by providing 75% of the new construction (due to the use of an alternate SMP). The redevelopment water quality will be addressed with the use of a hydro-dynamic water separator. The new impervious areas water quality will be addressed by the use of impervious pavement.

## 2. CHANNEL PROTECTION VOLUME

The New York State Department of Environmental Conservation, Stormwater Management Design Manual is used to determine the water quantity criteria. Specifically, mitigating the 10-year and 100-year post-development runoff rates to the predevelopment runoff rates.

- A. Water Quantity (Chapter 9.2.1)
- II. Channel Protection is not required if there are no changes to hydrology that increases the discharge rate to the proposed site.

## 3. RUNOFF REDUCTION VOLUME

The Runoff Reduction Volume (RRv) for the site shall be equal to 100% of the water quality volume per section 4.3 of the Stormwater Management Design Manual. Runoff Reduction Volume (RRv) is not required for redevelopment sites. Water quality will be address for the proposed impervious areas with the use of the porous pavement.

## 4. OVERBANK FLOOD

Overbank flood protection is provided by controlling the peak discharge from the 10-year storm to 10-year predevelopment rates. Overbank flood protection is not required for a redevelopment project or new impervious areas if there is no increase in the impervious area or changes to the hydrology that increases the discharge rate. The HydroCAD report contained in Appendix A and B of this report as well as Table IV below show that there is no increase in discharge from this site for the 10-year storm.

## 5. EXTREME STORM

Extreme storm protection is provided by controlling the peak discharge from the 100-year storm to 100-year predevelopment rates. Extreme storm protection is not required for a redevelopment project or new impervious areas if there is no increase in the impervious area or changes to the hydrology that increases the discharge rate. The HydroCAD report contained in Appendix A and B of this report as well as Table V below shows that there is no increase in discharge from this site for the 100-year storm.

## 6. SUMMARY OF RESULTS

Tables IV and V depict the peak discharges from the site for each of the design storms for the existing and proposed conditions.





**Table I-Existing and Proposed Peak Discharge for the 1-Year Storm (cfs)**

| Drainage Area | 1 yr Design Storm Discharge |          |
|---------------|-----------------------------|----------|
|               | Existing                    | Proposed |
| Existing E-1  | 3.35                        | 1.25     |
| Proposed PT   |                             |          |

**Table II-Existing and Proposed Peak Discharge for the 10-Year Storm (cfs)**

| Drainage Area | 10 yr Design Storm Discharge |          |
|---------------|------------------------------|----------|
|               | Existing                     | Proposed |
| Existing E-1  | 7.19                         | 2.84     |
| Proposed PT   |                              |          |

**Table III-Existing and Proposed Peak Discharge for the 100-Year Storm (cfs)**

| Drainage Area | 100 yr Design Storm Discharge |          |
|---------------|-------------------------------|----------|
|               | Existing                      | Proposed |
| Existing E-1  | 11.75                         | 5.64     |
| Proposed PT   |                               |          |

As depicted in the tables above, the peak discharge from the site for each of the design storms will be decreased after this project is constructed.



### Post Construction Stormwater BMP Operation and Maintenance Plan

An Operations and Maintenance Plan is included to address the inspection, operation and maintenance of all post construction BMPs identified in this plan. The Contractor is responsible for proper installation, maintenance and functioning of all best management practices shown on the drawings until final stabilization is achieved. A copy of the Post Construction Stormwater BMP Operations and Maintenance Plan is included in Appendix S of this document.

## **IX OTHER CONTROLS**

### **a. Off-Site Vehicle Tracking**

A stabilized construction entrance/exit will be provided at each entrance used for construction access to help reduce vehicle tracking of sediments. The paved streets adjacent to the site entrance will be inspected daily and swept as necessary to remove any excess mud, dirt, or rock tracked from the site. In the event that mud, dirt or rock continue to be tracked off site, the Contractor shall maintain the construction entrance by adding additional stone, replacing the entrance or extending the length of the entrance/exit, until the tracking is minimized or removed. Dump trucks hauling material from the construction site will be covered with a tarpaulin. The job Contractor's Superintendent will be responsible for seeing that these procedures are followed.

### **b. Excavation Spoil Materials**

Excavation spoil materials may be generated during excavations including, but not limited to footings and utilities installation. These materials must be properly managed to prevent them from contributing to storm water discharges. The materials generated from the development of this Project will be managed by the following method: Stockpiled on-site, the general site contractor to specify location and provide erosion control for excavated spoil materials.

### **c. Dust Control**

Minimizing wind erosion and controlling dust will be accomplished by one or more of the following methods

- Covering 30% or more of the soil surface with a non-erodible material.
- Roughening the soil to produce ridges perpendicular to the prevailing wind. Ridges should be about six (6) inches in height.
- Frequent watering of excavation and fill areas.
- Providing gravel or paving at entrance/exit drives, parking areas and transit paths.

### **d. Equipment Service Area**

The Contractor shall identify an area on the Erosion and Sediment Control Plan for equipment cleaning, maintenance and repair. This area shall be protected by a temporary perimeter berm preventing all surface runoff from leaving the area, or equivalent measure, and shall be located no closer than 100' from any Waters of the United States or state, and shall be located no closer than 50' from any storm inlet.



External washing of trucks and other construction vehicles must be confined to this area. No engine degreasing or asphalt equipment or tool washing is permitted.

e. Material Stockpiles

Stormwater runoff to and from material stockpiles shall be controlled to prevent materials from creating a diversion of surface water to disturbed soils or from entering the surface water. Topsoil stockpiles shall be surrounded with perimeter sediment control measures such as silt fence and be covered with non-erosive material as soon as practicable but no longer than 14 days after completion of the pile. Non-erosive material may include temporary seeding with straw mulch and tackifier, Mulch, or other material providing suitable cover.

f. Masonry Mixing Area

Non-stormwater discharges into storm drainage systems or waterways containing slurries from concrete or mortar mixing operations shall not be permitted. Masonry mixing areas shall be located a minimum distance of 100 linear feet from drainage ways, inlets and surface waters and all storm water runoff from these areas shall be contained by a berm or other measures. Run-on water to these areas will be diverted to prevent mixing of clean water and water contaminated with concrete slurry.

## **X COMPLIANCE WITH STATE AND LOCAL REGULATIONS**

At a minimum, the Contractor will obtain copies of any and all local and state regulations which are applicable to Storm Water Management, Erosion and Sediment Control, and pollution minimization at this Project and will comply fully with such regulations. The Contractor will submit written evidence of such compliance if requested by the Operator or any agent of a regulatory body. The Contractor will comply with all conditions of the *NYSDEC* General Permit for Stormwater Discharges from Construction Activities including the conditions related to maintaining the SWPPP and evidence of compliance with the SWPPP at the Project and allowing regulatory personnel access to the Project and to records in order to determine compliance. The Contractor shall also comply with any additional or more stringent requirements imposed by the permit issued by an approved state storm water program, or with permits issued, or requirements imposed by the Municipality to which the Project discharges storm water. Requirements with which the Contractor must comply include installation of post-construction measures required by the State, County, or City.

## **XI MATERIALS MANAGEMENT PLAN**

a. Progress Drawing

A Progress Drawing consisting of a print of the Erosion and Sediment Control Plans shall be posted inside the job trailer wall. The Progress Drawing will be used to record the locations of the Job Trailer, Sanitary Waste Facilities, Solid Waste Facilities, Fuel Storage Area, Equipment Service Area, and Concrete Washout Pit. Any time any of these facilities are relocated on the site, a new location will be noted on the Progress Drawing and a Modification Report (Appendix M) will be prepared.



## Materials Covered

The following materials or substances are expected to be present onsite during construction:

|                               |                          |
|-------------------------------|--------------------------|
| Concrete/Additives/Wastes     | Cleaning solvents        |
| Detergents                    | Petroleum based products |
| Paints/Solvents               | Pesticides               |
| Acids                         | Fertilizers              |
| Solid and construction wastes | Sanitary wastes          |
| Soil stabilization additives  |                          |

## b. Materials Management Practices

The following are the material management practices that will be used to reduce the risk of spills or other accidental exposure of materials and substances to stormwater runoff. The Contractor's Superintendent will be responsible for ensuring that these procedures are followed:

### 1. Good Housekeeping

The following good housekeeping practices will be followed onsite during construction:

- a) An effort will be made to store only enough products required to do the job.
- b) All materials stored onsite will be stored in a neat, orderly manner and, if possible, under a roof or in a containment area. At a minimum, all containers will be stored with their lids on when not in use. Drip pans shall be provided under all dispensers.
- c) Products will be kept in their original containers with the original manufacturer's label in legible condition.
- d) Substances will not be mixed with one another unless recommended by the manufacturer.
- e) Whenever possible, all of a product will be used up before disposing of the container.
- f) Manufacturer's recommendations for proper use and disposal will be followed.
- g) The Contractor's Superintendent will be responsible for daily inspections to ensure proper use and disposal of materials.

### 2. Hazardous Substances

These practices will be used to reduce the risks associated with Hazardous Substances. Material Safety Data Sheets (MSDS's) for each product with hazardous properties that is used at the Project will be obtained and used for the proper management of potential wastes that may result from these products. An MSDS will be posted in the immediate area where such product is stored and/or used and another copy of each MSDS will be maintained in the job trailer at the Project. Each employee who must handle a Hazardous Substance will be instructed on the use of MSDS sheets and the specific information in the applicable MSDS for the product he/she is using, particularly regarding spill control techniques.





- a) Products will be kept in original containers with the original labels in legible condition.
- b) Original labels and MSDS's will be procured and used for each product.
- c) If surplus product must be disposed manufacturer's and local/state/federal required methods for proper disposal must be followed.

### 3. Hazardous Waste

It is imperative that all Hazardous Waste be properly identified and handled in accordance with all applicable Hazardous Waste Standards, including the storage, transport and disposal of the Hazardous Wastes. There are significant penalties for the improper handling of Hazardous Wastes. It is important that the Site Superintendent seeks appropriate assistance in making the determination of whether a substance or material is a Hazardous Waste. For example, Hazardous Waste may include certain Hazardous Substances, as well as pesticides, paints, paint solvents, cleaning solvents, pesticides, contaminated soils, and other materials, substances or chemicals that have been discarded (or are to be discarded) as being out-of-date, contaminated, or otherwise unusable, and can include the containers for those substances; other materials and substances can also be or become Hazardous Wastes, however. The Contractor's Superintendent is also responsible for ensuring that all site personnel are instructed as to these Hazardous Waste requirements and that the requirements are being followed.

### 4. Product Specific Practices

The following product specific practices will be followed on the job site:

#### a) Petroleum Products

All onsite vehicles will be monitored for leaks and receive regular preventative maintenance to reduce the chance of leakage. Petroleum products will be stored in tightly sealed containers which are clearly labeled. Petroleum storage tanks shall be located at minimum 100 linear feet from drainage ways, inlets and surface waters. Maximum total aggregate above ground storage capacity (for the total permit area) shall not exceed 1,320 gallons (which includes both bulk and equipment operational storage volumes in fuel tanks 55 gallons and greater). Total aggregate petroleum storage exceeding 1,320 gallons shall require preparation, certification (using a Professional Engineer or providing a Self-Certified SPCC Plan if applicable) and implementation of a Spill Prevention Control and Countermeasures (SPCC) Plan. The SPCC Plan must be prepared and fully implemented prior to the commencement of work. The SPCC Plan, if needed, will be furnished by the Contractor. **Any petroleum storage tanks stored onsite will be located within a containment area that is designed with an impervious surface between the tank and the ground. The secondary containment must be designed to provide a containment volume that is equal to 110% of the volume of the largest tank. Any mobile petroleum tank shall be parked in a vehicular service area surrounded by a berm that provides a containment volume that is equal to 110% of the volume of the largest tank.**



Containment must provide sufficient volume to contain expected precipitation and 110% volume of the largest tank. Accumulated rainwater or spills from containment areas are to be promptly pumped into a containment device and disposed of properly by a licensed Hazardous Waste transporter. Drip pans shall be provided for all dispensers. Any asphalt substances used onsite will be applied according to the manufacturer's recommendations. The location of any fuel tanks and/or equipment storage areas must be identified on the PROGRESS DRAWING by the Contractor once the locations have been determined.

b) Fertilizers

Fertilizers will be applied only in the minimum amounts recommended by the manufacturer. Once applied, fertilizer will be worked in the soil to limit exposure to storm water. Storage will be in a covered shed. The contents of any partially used bags of fertilizer will be transferred to a sealable plastic bin to avoid spills.

c) Paints, Paint Solvents, and Cleaning Solvents

All containers will be tightly sealed and stored when not in use. Excess paint and solvents will not be discharged to the storm sewer system but will be properly disposed of according to manufacturer's instructions or state and federal regulations.

d) Concrete Wastes

Concrete trucks will be allowed to wash out or discharge surplus concrete or drum wash water on the site, but only in specifically designated diked and impervious washouts which have been prepared to prevent contact between the concrete wash and storm water. A standard detail on the construction of the concrete wash out is included on the design plans. Waste generated from concrete wash water shall not be allowed to flow into drainage ways, inlets, receiving waters or highway right of ways, or any location other than the designated concrete washout. Waste concrete may be poured into forms to make riprap or other useful concrete products. Proper signage designating the "Concrete Washout" shall be placed near the facility. Concrete Washouts shall be located at minimum 100 linear feet from drainage ways, inlets and surface waters.

The hardened residue from the concrete wash out areas will be disposed of in the same manner as other non-hazardous construction waste materials or may be broken up and used on site as deemed appropriate by the Contractor. Maintenance of the washout is to include removal of hardened concrete. The Facility shall have sufficient volume to contain all the concrete waste resulting from washout and a minimum freeboard of 12 inches. Facility shall not be filled beyond 95% capacity and shall be cleaned out once 75% full unless a new facility is constructed. The Contractor's Superintendent will be responsible for seeing that these procedures are followed.



Saw-cut Portland Cement Concrete (PCC) slurry shall not be allowed to enter storm drains or Watercourses. Saw-cut residue should not be left on the surface of pavement or be allowed to flow over and off pavement. Residue from saw-cutting and grinding shall be collected by vacuum and disposed of in the concrete washout facility.

**The Project may require the use of multiple concrete wash out areas.**

These concrete wash out areas are to be made available to all trades and subcontractors working on the Project. The Contractor may designate certain wash out areas for particular trades or subcontractors, but the Contractor is responsible for the management of all concrete washout areas on the Project. All concrete wash out areas will be located in an area where the likelihood of the area contributing to storm water discharges is negligible. If required, additional BMPs must be implemented to prevent concrete wastes from contributing to storm water discharges. The location of concrete wash out area(s) must be identified on the PROGRESS DRAWING by the Contractor once the locations have been determined. In addition, a standard detail on the construction of the concrete wash out is included on the design plans.

e) Solid and Construction Wastes

All waste materials will be collected and stored in an appropriately covered container and/or securely contained metal dumpster rented from a local waste management company which must be a licensed solid waste management company. The dumpster will comply with all local and state solid waste management regulations.

All trash and construction debris from the site will be deposited in the dumpster. The dumpster will be emptied a minimum of once per week or more often if necessary. Once building construction has commenced, the dumpster will be emptied a minimum of once per week or when 95% full, or more often if necessary, to prevent over-flow and the trash will be hauled to a landfill. No construction waste materials will be buried on site. All personnel will be instructed regarding the correct procedures for waste disposal.

All waste dumpsters and roll-off containers will be located in an area where the likelihood of the containers contributing to storm water discharges is negligible. Solid waste containers shall be located no less than 50 feet from any storm inlet, drainage way, or surface water. If required, additional BMPs must be implemented, such as gravel bags, wattles, dikes, berms, and fences around the base to prevent wastes from contributing to storm water discharges. The location of waste dumpsters and roll-off containers must be identified on the PROGRESS DRAWING by the Contractor once the locations have been determined.

f) Sanitary Wastes

A minimum of one portable sanitary unit will be provided for every ten (10) workers on the site. All sanitary waste will be collected from the portable



units a minimum of one time per week by a licensed portable facility provider in complete compliance with local and state regulations.

All sanitary waste units will be located in an area where the likelihood of the unit contributing to storm water discharges is negligible. Additional containment BMPs must be implemented, such as gravel bags or specially designed plastic skid containers around the base, to prevent wastes from contributing to storm water discharges. The location of sanitary waste units must be identified on the PROGRESS DRAWING by the contractor once the locations have been determined

g) Contaminated Soils

Any contaminated soils (resulting from spills of Hazardous Substances or Oil or discovered during the course of construction) which may result from Construction Activities will be contained and cleaned up in accordance with applicable state and federal regulations. Contaminated soils not resulting from Construction Activities, or which pre-existed Construction Activities, but which are discovered by virtue of Construction Activities, should be reported in the same manner as spills, but with sufficient information to indicate that the discovery of an existing condition is being reported. If there is a release that occurs by virtue of the discovery of existing contamination, this should be reported as a spill, if it otherwise meets the requirements for a reportable spill.

D. Spill Prevention and Response Procedures

The Contractor will train all personnel in the proper handling and cleanup of spilled Hazardous Substances or Oil. No spilled Hazardous Substances or Oil will be allowed to come in contact with storm water discharges. If such contact occurs, the storm water discharge will be contained on site until appropriate measures in compliance with state and federal regulations are taken to dispose of such contaminated storm water. It shall be the responsibility of the Contractor's Superintendent to be properly trained, and to train all personnel in spill prevention and clean up procedures.

1. In order to prevent or minimize the potential for a spill of Hazardous Substances or Oil to come into contact with storm water, the following steps will be implemented:

- a) All Hazardous Substances or Oil (such as pesticides, petroleum products, fertilizers, detergents, construction chemicals, acids, paints, paint solvents, cleaning solvents, additives for soil stabilization, concrete curing compounds and additives, etc.) will be stored in a secure location, with their lids on, preferably under cover, when not in use.
- b) The minimum practical quantity of all such materials will be kept at the Project.
- c) A spill control and containment kit (containing, for example, absorbent materials, acid neutralizing powder, brooms, dust pans, mops, rags, gloves, goggles, plastic and metal trash containers, etc.) will be provided at the storage site.





- d) Manufacturer's recommended methods for spill cleanup will be clearly posted and site personnel will be trained regarding these procedures and the location of the information and cleanup supplies.
  - e) It is the Contractors responsibility to ensure that all Hazardous Waste discovered or generated at the Project site is disposed of properly by a licensed hazardous material disposal company. The Contractor is responsible for not exceeding Hazardous Waste storage requirements mandated by the EPA or state and local authority.
2. In the event of a spill of Hazardous Substances or Oil, the following procedures must be followed:
- a) **All measures must be taken to contain and abate the spill and to prevent the discharge of the Hazardous Substance or Oil to storm water or off-site. (The spill area must be kept well ventilated and personnel must wear appropriate protective clothing to prevent injury from contact with the Hazardous Substances.)**
  - b) **If the release is equal to or in excess of a reportable quantity, the SWPPP must be modified within seven (7) calendar days of knowledge of the discharge to provide a description of the release, the circumstances leading to the release, and the date of the release. The SWPPP must identify measures to prevent the recurrence of such releases and to respond to such releases. The form in Appendix 15 must be completed in accordance with this requirement.**

## **XII CONTROL OF NON-STORM WATER DISCHARGES**

Certain types of discharges are allowable under the NYSDEC General Permit for Stormwater Discharges from Construction Activities, and it is the intent of this SWPPP to allow such discharges. These types of discharges will be allowed under the conditions that no pollutants will be allowed to come in contact with the water prior to or after its discharge. The control measures which have been outlined previously in this SWPPP will be strictly followed to ensure that no contamination of these non-storm water discharges takes place. The following non-storm water discharges are allowed by the NYSDEC and may occur at the Project:

1. Discharges from fire-fighting activities;
2. Fire hydrant flushings;
3. Waters used to wash vehicles where detergents are not used;
4. Water used to control dust;
5. Potable water including uncontaminated water line flushings;
6. Routine external building wash down that does not use detergents;
7. Pavement wash waters where spills or leaks of toxic or hazardous materials have not occurred (unless all spilled material has been removed) and where detergents are not used;
8. Uncontaminated air conditioning or compressor condensate;
9. Uncontaminated ground water or spring water;
10. Foundation or footing drains where flows are not contaminated with process materials such as solvents;
11. Uncontaminated excavation dewatering;
12. Landscape irrigation



### **XIII HISTORICAL PROPERTIES**

There are no places or properties which are listed or would be eligible for listing on the State or National Register of Historic Places that will be impacted by this construction. The No Impact letter is provided in Appendix T indicates the site is not within an archeological sensitive area therefore no further action is required.

### **XIV INDUSTRIAL ACTIVITIES**

There are no discharges planned from industrial activities as part of this project.

### **XV ENHANCED PHOSPHORUS REMOVAL STANDARDS**

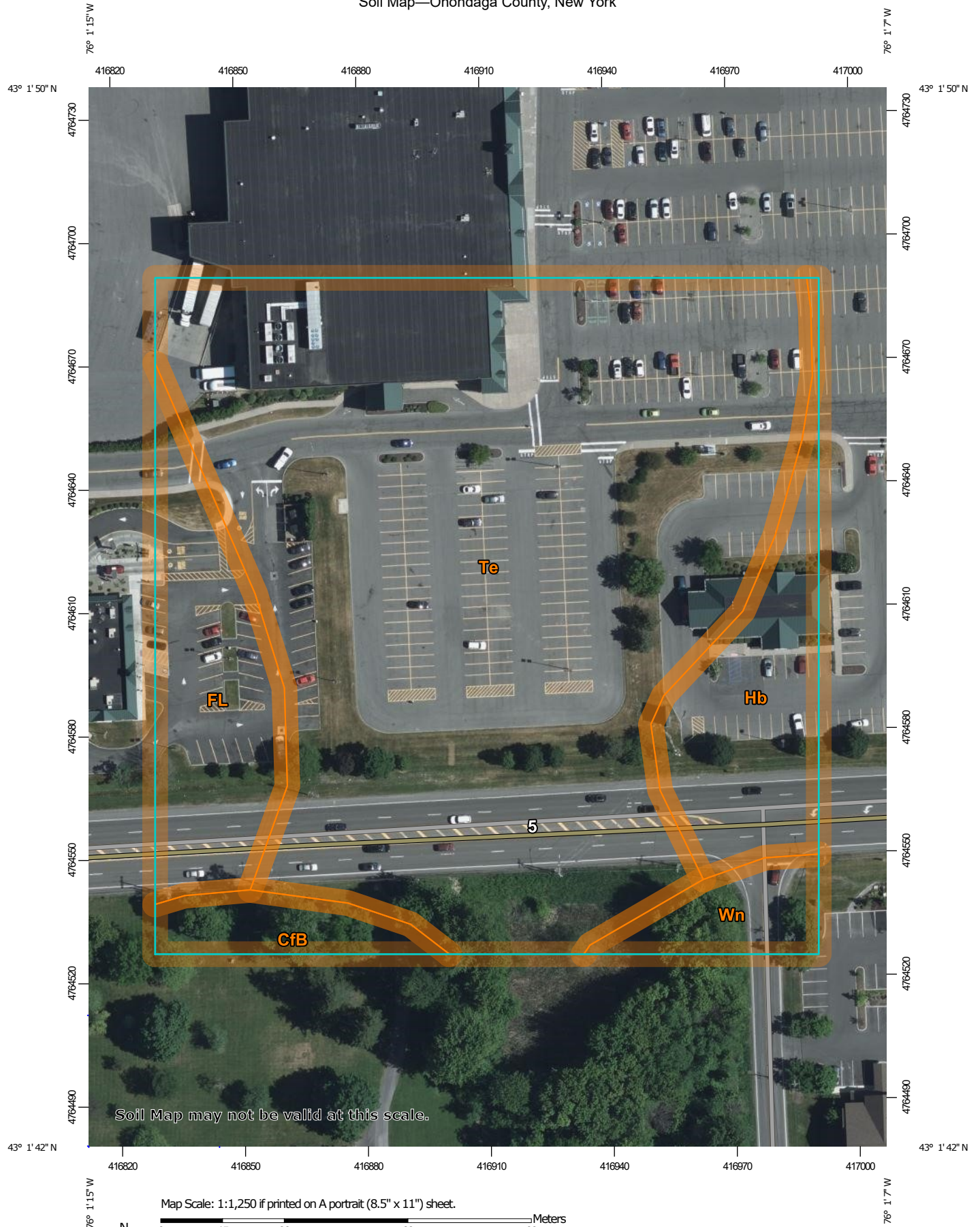
This project is not required to provide enhanced phosphorus removal practices.



## **Appendix B**

### **Site and Soils Mapping**

# Soil Map—Onondaga County, New York



**Natural Resources  
Conservation Service**

Web Soil Survey  
National Cooperative Soil Survey

3/4/2021  
Page 1 of 3



## MAP LEGEND

### Area of Interest (AOI)

 Area of Interest (AOI)

### Soils

 Soil Map Unit Polygons

 Soil Map Unit Lines

 Soil Map Unit Points

### Special Point Features



Blowout



Borrow Pit



Clay Spot



Closed Depression



Gravel Pit



Gravelly Spot



Landfill



Lava Flow



Marsh or swamp



Mine or Quarry



Miscellaneous Water



Perennial Water



Rock Outcrop



Saline Spot



Sandy Spot



Severely Eroded Spot



Sinkhole



Slide or Slip



Sodic Spot



Spoil Area



Stony Spot



Very Stony Spot



Wet Spot



Other



Special Line Features

### Water Features



Streams and Canals

### Transportation



Rails



Interstate Highways



US Routes



Major Roads



Local Roads

### Background



Aerial Photography

## MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed 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: Onondaga County, New York

Survey Area Data: Version 15, Jun 11, 2020

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: May 21, 2020—Jun 17, 2020

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

## Map Unit Legend

| Map Unit Symbol                    | Map Unit Name                                                    | Acres in AOI | Percent of AOI |
|------------------------------------|------------------------------------------------------------------|--------------|----------------|
| CfB                                | Cazenovia silt loam, 2 to 8 percent slopes                       | 0.2          | 3.2%           |
| FL                                 | Fluvaquents, frequently flooded                                  | 0.7          | 10.6%          |
| Hb                                 | Hamlin silt loam                                                 | 0.7          | 9.9%           |
| Te                                 | Teel silt loam                                                   | 4.8          | 72.9%          |
| Wn                                 | Wayland soils complex, 0 to 3 percent slopes, frequently flooded | 0.2          | 3.4%           |
| <b>Totals for Area of Interest</b> |                                                                  | <b>6.6</b>   | <b>100.0%</b>  |

HSG

B

—

B

B

D

## Onondaga County, New York

### Te—Teel silt loam

#### Map Unit Setting

*National map unit symbol:* 9vkv

*Elevation:* 600 to 1,800 feet

*Mean annual precipitation:* 38 to 42 inches

*Mean annual air temperature:* 45 to 48 degrees F

*Frost-free period:* 110 to 190 days

*Farmland classification:* All areas are prime farmland

#### Map Unit Composition

*Teel and similar soils:* 80 percent

*Minor components:* 20 percent

*Estimates are based on observations, descriptions, and transects of the mapunit.*

#### Description of Teel

##### Setting

*Landform:* Flood plains

*Landform position (two-dimensional):* Summit

*Landform position (three-dimensional):* Talf

*Down-slope shape:* Concave

*Across-slope shape:* Convex

*Parent material:* Silty alluvium

##### Typical profile

*H1 - 0 to 10 inches:* silt loam

*H2 - 10 to 28 inches:* silt loam

*H3 - 28 to 60 inches:* silt loam

##### Properties and qualities

*Slope:* 0 to 3 percent

*Depth to restrictive feature:* More than 80 inches

*Drainage class:* Moderately well drained

*Capacity of the most limiting layer to transmit water (Ksat):* Moderately high to high (0.57 to 1.98 in/hr)

*Depth to water table:* About 18 to 24 inches

*Frequency of flooding:* OccasionalNone

*Frequency of ponding:* None

*Calcium carbonate, maximum content:* 1 percent

*Available water capacity:* High (about 9.1 inches)

##### Interpretive groups

*Land capability classification (irrigated):* None specified

*Land capability classification (nonirrigated):* 2w

*Hydrologic Soil Group:* B/D

*Hydric soil rating:* No

### **Minor Components**

#### **Howard**

*Percent of map unit:* 5 percent

*Hydric soil rating:* No

#### **Hamlin**

*Percent of map unit:* 5 percent

*Hydric soil rating:* No

#### **Wayland**

*Percent of map unit:* 5 percent

*Landform:* Flood plains

*Hydric soil rating:* Yes

#### **Herkimer**

*Percent of map unit:* 5 percent

*Hydric soil rating:* No

## **Data Source Information**

Soil Survey Area: Onondaga County, New York

Survey Area Data: Version 15, Jun 11, 2020



## Onondaga County, New York

### Hb—Hamlin silt loam

#### Map Unit Setting

*National map unit symbol:* 9vgz

*Elevation:* 360 to 1,260 feet

*Mean annual precipitation:* 38 to 42 inches

*Mean annual air temperature:* 45 to 48 degrees F

*Frost-free period:* 110 to 190 days

*Farmland classification:* All areas are prime farmland

#### Map Unit Composition

*Hamlin and similar soils:* 85 percent

*Minor components:* 15 percent

*Estimates are based on observations, descriptions, and transects of the mapunit.*

#### Description of Hamlin

##### Setting

*Landform:* Flood plains

*Landform position (two-dimensional):* Summit

*Landform position (three-dimensional):* Rise

*Down-slope shape:* Convex

*Across-slope shape:* Convex

*Parent material:* Silty alluvium mainly from areas of siltstone, shale, and limestone

##### Typical profile

*H1 - 0 to 9 inches:* silt loam

*H2 - 9 to 16 inches:* silt loam

*H3 - 16 to 41 inches:* silt loam

*H4 - 41 to 60 inches:* silt loam

##### Properties and qualities

*Slope:* 0 to 3 percent

*Depth to restrictive feature:* More than 80 inches

*Drainage class:* Well drained

*Capacity of the most limiting layer to transmit water*

*(Ksat):* Moderately high to high (0.57 to 1.98 in/hr)

*Depth to water table:* About 36 to 72 inches

*Frequency of flooding:* OccasionalNone

*Frequency of ponding:* None

*Calcium carbonate, maximum content:* 1 percent

*Available water capacity:* High (about 11.0 inches)

##### Interpretive groups

*Land capability classification (irrigated):* None specified

*Land capability classification (nonirrigated):* 1

*Hydrologic Soil Group:* B

*Hydric soil rating:* No

### **Minor Components**

#### **Herkimer**

*Percent of map unit:* 5 percent

*Hydric soil rating:* No

#### **Teel**

*Percent of map unit:* 5 percent

*Hydric soil rating:* No

#### **Howard**

*Percent of map unit:* 5 percent

*Hydric soil rating:* No

## **Data Source Information**

Soil Survey Area: Onondaga County, New York

Survey Area Data: Version 15, Jun 11, 2020

## Onondaga County, New York

### FL—Fluvaquents, frequently flooded

#### Map Unit Setting

*National map unit symbol:* 9vgn

*Elevation:* 300 to 1,800 feet

*Mean annual precipitation:* 38 to 42 inches

*Mean annual air temperature:* 45 to 48 degrees F

*Frost-free period:* 110 to 190 days

*Farmland classification:* Not prime farmland

#### Map Unit Composition

*Fluvaquents and similar soils:* 75 percent

*Minor components:* 25 percent

*Estimates are based on observations, descriptions, and transects of the mapunit.*

#### Description of Fluvaquents

##### Setting

*Landform:* Flood plains

*Landform position (two-dimensional):* Toeslope

*Landform position (three-dimensional):* Dip

*Down-slope shape:* Concave

*Across-slope shape:* Concave

*Parent material:* Alluvium with highly variable texture

##### Typical profile

*H1 - 0 to 5 inches:* mucky silt loam

*H2 - 5 to 70 inches:* very gravelly silt loam

##### Properties and qualities

*Slope:* 0 to 5 percent

*Depth to restrictive feature:* More than 80 inches

*Drainage class:* Poorly drained

*Capacity of the most limiting layer to transmit water*

*(Ksat):* Moderately low to high (0.06 to 5.95 in/hr)

*Depth to water table:* About 0 inches

*Frequency of flooding:* FrequentNone

*Frequency of ponding:* Frequent

*Calcium carbonate, maximum content:* 15 percent

*Available water capacity:* Moderate (about 6.5 inches)

##### Interpretive groups

*Land capability classification (irrigated):* None specified

*Land capability classification (nonirrigated):* 5w

*Hydrologic Soil Group:* A/D

*Hydric soil rating:* Yes

### **Minor Components**

#### **Teel**

*Percent of map unit:* 5 percent

*Hydric soil rating:* No

#### **Saprists**

*Percent of map unit:* 5 percent

*Landform:* Marshes, swamps

*Hydric soil rating:* Yes

#### **Warners**

*Percent of map unit:* 5 percent

*Landform:* Flood plains

*Hydric soil rating:* Yes

#### **Wayland**

*Percent of map unit:* 5 percent

*Landform:* Flood plains

*Hydric soil rating:* Yes

#### **Hamlin**

*Percent of map unit:* 5 percent

*Hydric soil rating:* No

## **Data Source Information**

Soil Survey Area: Onondaga County, New York

Survey Area Data: Version 15, Jun 11, 2020

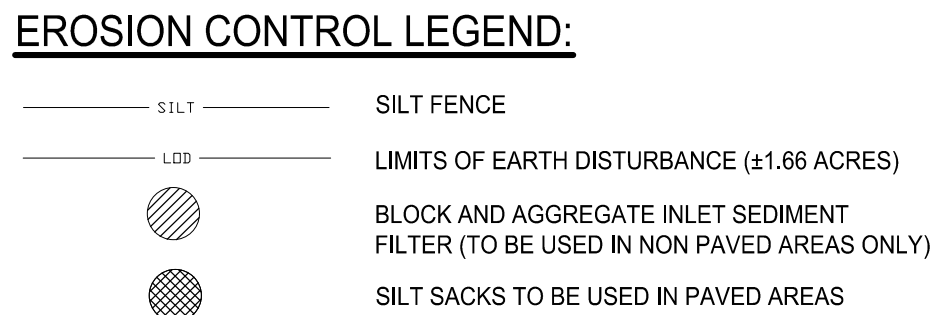




## **Appendix C**

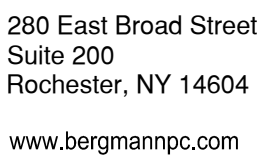
# **Erosion and Sedimentation Control Plan(s) and Details**





1. THE DEVELOPER/OWNER/OPERATOR SHALL PROVIDE A TRAINED QUALIFIED INSPECTOR TO INSPECT THE PROJECT AT THE END OF EACH WORK WEEK AND PROVIDE A REPORT AT LEAST ONCE PER WEEK.
2. INSTALL SILT FENCE, DIVERSION SWALES/BERMS, CHECK DAMS AND ALL OTHER EROSION CONTROL MEASURES AS INDICATED ON THE PLAN PRIOR TO THE START OF ANY EXCAVATION WORK. EROSION CONTROL MEASURES WILL BE IMPLEMENTED IN ACCORDANCE WITH THE NEW YORK STATE GUIDELINES FOR URBAN EROSION SEDIMENT CONTROL. MANUAL, NEW YORK STATE HEALTH DEPARTMENT, AND THE GOVERNING TOWN REQUIREMENTS.
3. CONSTRUCT INTERCEPTOR/DIVERSION SWALES/BERMS & TEMPORARY SEDIMENT BASINS TO INTERCEPT SURFACE WATER AND DIRECT IT AWAY FROM WORK AREA AS INDICATED ON PLAN. SEDIMENT SHALL BE REMOVED FROM BASINS BEFORE THEY REACH 25% CAPACITY.
4. REMOVE AND STOCKPILE TOPSOIL AS DIRECTED BY THE CONSTRUCTION MANAGER REPLACE TOPSOIL TO A MINIMUM 4" DEPTH. ALL DISTURBED AREAS TO BE HYDROSEEDS AS DIRECTED BY THE CONSTRUCTION MANAGER TO PROMOTE VEGETATION AS SOON AS PRACTICABLE.
5. IF THE SEASONS PROHIBITS TEMPORARY SEEDING, THE DISTURBED AREAS WILL BE MULCHED WITH STRAW HAY OR EQUIVALENT AND ANCHORED IN ACCORDANCE WITH THE "STANDARDS", NETTING OR LIQUID MULCH BINDER.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE AND REMOVAL OF TEMPORARY SEDIMENTATION CONTROLS. EROSION CONTROL MEASURES SHALL NOT BE REMOVED BEFORE 80% UNIFORM VEGETATION HAS BEEN ACHIEVED.
7. INSTALL INLET PROTECTION, AND RIP RAP APRONS PROGRESSIVELY AS STORM SEWER, AND DISCHARGE POINTS ARE INSTALLED.
8. ALL EROSION CONTROL MEASURES ARE TO BE REPLACED WHENEVER THEY BECOME CLOGGED OR INOPERABLE AND SHALL BE REPLACED WHEN THEY HAVE REACHED THE DESIGN LIFE INDICATED IN THE NYS GUIDELINES FOR URBAN EROSION SEDIMENT CONTROL DESIGN MANUAL.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORATION OF TOPSOIL TO ALL DISTURBED AREAS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN EROSION CONTROL MEASURES AT ALL TIMES.
10. THE CONTRACTOR SHALL DESIGNATE A TRAINED CONTRACTOR/MEMBER OF HIS/HER FIRM TO BE RESPONSIBLE TO MONITOR EROSION CONTROL, EROSION CONTROL STRUCTURES, TREE PROTECTION AND PRESERVATION THROUGHOUT CONSTRUCTION.
11. ALL DISTURBED AREAS SHALL BE FINISH GRADED TO PROMOTE VEGETATION ON ALL EXPOSED AREAS AS SOON AS PRACTICABLE. STABILIZATION PRACTICES (TEMPORARY/PERMANENT SEEDING, MULCHING, GEOTEXTILES, ETC.) MUST BE IMPLEMENTED THE NEXT DAY AND COMPLETED WITHIN SEVEN (7) DAYS WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, AND NOT EXPECTED TO RESUME WITHIN FOURTEEN (14) DAYS.
12. PAVED ROADWAYS MUST BE KEPT CLEAN AT ALL TIMES. ALL CONSTRUCTION DEBRIS AND SEDIMENT SPOILS, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHT-OF-WAYS MUST BE REMOVED IMMEDIATELY.
13. DUST SHALL BE CONTROLLED BY WATERING.
14. ADJOINING PROPERTY SHALL BE PROTECTED FROM EXCAVATION AND FILLING OPERATIONS ON THE PROPOSED SITE.
15. DIVERSION SWALES/BERMS, AND SEDIMENT TRAPS SHOULD BE RELOCATED INWARD AS PERMITS SLOPE CONSTRUCTION PROGRESSES AND RECONSTRUCTED TO THE NYS STANDARDS & SPECIFICATIONS AT THE END OF EACH DAY TO DIVERT RUNOFF FROM SLOPED AREAS AND DIRECT TO APPROPRIATE BASINS.
16. PERIMETER AREAS SHALL BE TEMPORARILY STABILIZED WITH SEED AND MULCH PROGRESSIVELY A MINIMUM AT THE END OF EACH WEEK WITH 100% PERENNIAL RYEGRASS MIX AT A RATE OF 2-4 LBS PER 1000 SF AND MULCH 90-100 lbs/1000 SF OF FREE FRESH STRAW.
17. SLOPE TRACKING SHALL BE IMPLEMENTED ON ALL SLOPE 1:3 OR GREATER AT THE END OF EACH WORK DAY AND PRIOR TO FINAL SLOPE GRADING AND STABILIZATION.
18. SILT FENCE, JUTE MESH, AND/OR EROSION CONTROL BLANKETS WILL BE USED ON STEEP SLOPES AND WHEREVER NECESSARY TO CONTROL EROSION AND SILTATION OF EXISTING DRAINAGE SYSTEMS AS ORDERED BY THE ENGINEER OR SPECIFIED ON PLANS.
19. EROSION CONTROL MEASURES WILL BE IMPLEMENTED IN ACCORDANCE WITH THE NEW YORK STATE GUIDELINES FOR URBAN EROSION SEDIMENT CONTROL MANUAL, ONONDAGA COUNTY, AND THE VILLAGE OF MANLIUS REQUIREMENTS.

- PRE-CONSTRUCTION MEETING HELD BY PROJECT MANAGER AND THE OPERATOR'S ENGINEER PRIOR TO LAND DISTURBING ACTIVITIES.
2. HAVE A QUALIFIED PROFESSIONAL CONDUCT AN ASSESSMENT OF THE SITE PRIOR TO THE COMMENCEMENT OF CONSTRUCTION AND CERTIFY IN AN INSPECTION REPORT THAT THE APPROPRIATE EROSION AND SEDIMENT CONTROLS DESCRIBED IN THE SWPPP AS REQUIRED BY PART IV OF THE GP-0-15-002 HAVE BEEN ADEQUATELY INSTALLED OR IMPLEMENTED TO ENSURE OVERALL PREPAREDNESS OF THE SITE FOR THE COMMENCEMENT OF CONSTRUCTION.
3. CONSTRUCT TEMPORARY CONSTRUCTION EXITS AT LOCATIONS SHOWN ON THE PLANS.
4. INSTALL PERIMETER SILT FENCES AND TEMPORARY SEDIMENT BASIN IN THE LOCATIONS SHOWN ON THE PLANS.
5. INSTALL INTERCEPTOR SWALES AT LOCATIONS SHOWN ON THE PLANS.
6. BEGIN CLEARING AND GRUBBING OPERATIONS. CLEARING AND GRUBBING SHALL BE DONE ONLY IN AREAS WHERE EARTHWORK WILL BE PERFORMED AND ONLY IN AREAS WHERE BUILDING IS PLANNED TO COMMENCE WITHIN 14 DAYS AFTER CLEARING AND GRUBBING.
7. COMMENCE SITE GRADING.
8. INSTALL EROSION CONTROL BLANKETS ON ALL SLOPES GREATER THAN 3:1.
9. DISTURBED AREAS OF THE SITE WHERE CONSTRUCTION ACTIVITY HAS CEASED FOR MORE THAN 7 DAYS SHALL BE TEMPORARILY SEEDED AND WATERED STARTING THE NEXT DAY AND COMPLETED WITHIN 7 DAYS.
10. INSTALL INLET/OUTLET PROTECTION AT THE LOCATIONS OF ALL GRATE INLETS, CURB INLETS, AND AT THE ENDS OF ALL EXPOSED STORM SEWER PIPES.
11. CONSTRUCT ALL CURB, GUTTER INLETS, AREA INLETS, AND STORM SEWER MANHOLES, AS SHOWN ON THE PLANS. INLET PROTECTION MAY BE REMOVED TEMPORARILY FOR THIS CONSTRUCTION. PLACE REQUIRED RIP RAP AT LOCATIONS SHOWN ON THE PLANS.
12. REMOVE INLET PROTECTION AROUND INLETS AND MANHOLES NO MORE THAN 48 HOURS PRIOR TO PLACING STABILIZED BASE COURSE.
13. INSTALL BASE MATERIAL AS REQUIRED FOR PAVEMENT.
14. CARRY OUT FINAL GRADING AND SEEDING AND PLANTING.
15. REMOVE SILT FENCING ONLY AFTER ALL PAVING IS COMPLETE AND EXPOSED SURFACES ARE STABILIZED (80% VEGETATIVE COVER).
16. REMOVE TEMPORARY CONSTRUCTION EXITS ONLY PRIOR TO PAVEMENT CONSTRUCTION IN THESE AREAS (THESE AREAS ARE TO BE PAVED LAST).



LOT 15 -TOWNE CENTER  
AT FAYETTEVILLE  
406 TOWNE DRIVE  
FAYETTEVILLE, NY 13066

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NOT FOR  
CONSTRUCTION  
-- % SUBMISSION

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|                                       |                                       |
|---------------------------------------|---------------------------------------|
| Project Manager<br><b>A HART, RLA</b> | Discipline Lead<br><b>E SHAW, RLA</b> |
| Designer<br><b>V MICKEL</b>           | Reviewer<br><b>K HURLEY, PE</b>       |
| Date Issued<br><b>06/30/2021</b>      | Project Number<br><b>15105.00</b>     |

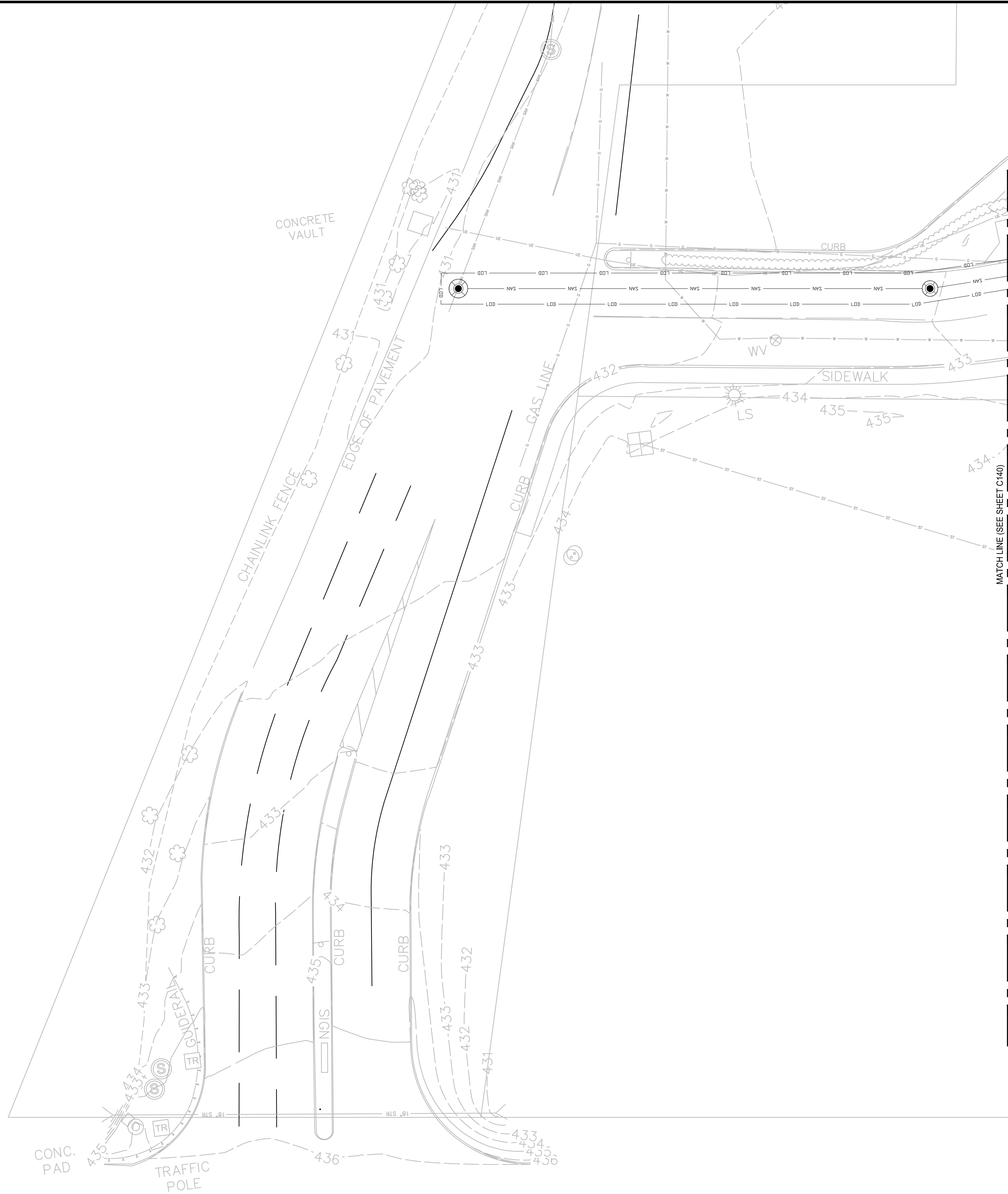
Sheet Name

# EROSION & SEDIMENT CONTROL PLAN - 1 OF 2

Drawing Number

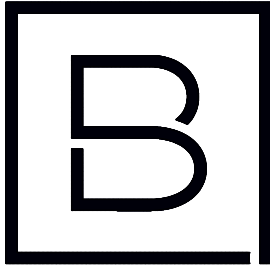
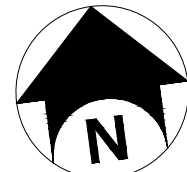
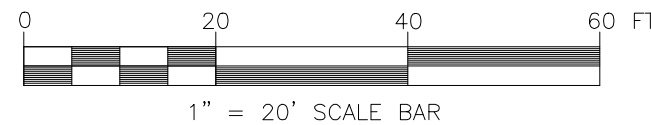
# C140





EROSION CONTROL LEGEND:

- SILT FENCE
- LIMITS OF EARTH DISTURBANCE (±1.66 ACRES)
- BLOCK AND AGGREGATE INLET SEDIMENT FILTER (TO BE USED IN NON PAVED AREAS ONLY)
- SILT SACKS TO BE USED IN PAVED AREAS



**BERGMANN**  
ARCHITECTS ENGINEERS PLANNERS

280 East Broad Street  
Suite 200  
Rochester, NY 14604  
www.bergmannpc.com

**Route 5 Development  
Company, LLC.**

**PROPOSED  
RESTAURANT A /  
RESTAURANT B**

LOT 15 -TOWNE CENTER  
AT FAYETTEVILLE  
406 TOWNE DRIVE  
FAYETTEVILLE, NY 13066

| Date Revised | Description  |
|--------------|--------------|
| 06-29-2021   | AMH COMMENTS |
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CONSTRUCTION  
— % SUBMISSION

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|                                       |                                       |
|---------------------------------------|---------------------------------------|
| Project Manager<br><b>A HART, RLA</b> | Discipline Lead<br><b>E SHAW, RLA</b> |
| Designer<br><b>V MICKEL</b>           | Reviewer<br><b>K HURLEY, PE</b>       |
| Date Issued<br><b>06/30/2021</b>      | Project Number<br><b>15105.00</b>     |

Sheet Name

**GRADING & EROSION  
CONTROL PLAN - 2 OF 2**

Drawing Number

**C121**







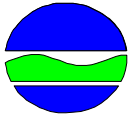






## **Appendix D**

### **Notice of Intent (NOI)**

**NOTICE OF INTENT****New York State Department of Environmental Conservation****Division of Water****625 Broadway, 4th Floor****Albany, New York 12233-3505**
**NYR**        
 (for DEC use only)

**Stormwater Discharges Associated with Construction Activity Under State  
 Pollutant Discharge Elimination System (SPDES) General Permit # GP-0-15-002**

All sections must be completed unless otherwise noted. Failure to complete all items may result in this form being returned to you, thereby delaying your coverage under this General Permit. Applicants must read and understand the conditions of the permit and prepare a Stormwater Pollution Prevention Plan prior to submitting this NOI. Applicants are responsible for identifying and obtaining other DEC permits that may be required.

**-IMPORTANT-  
 RETURN THIS FORM TO THE ADDRESS ABOVE**

**OWNER/OPERATOR MUST SIGN FORM**

**Owner/Operator Information**

Owner/Operator (Company Name/Private Owner Name/Municipality Name)

Owner/Operator Contact Person Last Name (NOT CONSULTANT)

Owner/Operator Contact Person First Name

Owner/Operator Mailing Address

City

State

Zip

-

Phone (Owner/Operator)

-

-

Fax (Owner/Operator)

-

-

Email (Owner/Operator)



FED TAX ID

-

-



(not required for individuals)

## Project Site Information

Project/Site Name

[illegible]

Street Address (NOT P.O. BOX)

[illegible]

Side of Street

☐ North    ☐ South    ☐ East    ☐ West

City/Town/Village (THAT ISSUES BUILDING PERMIT)

[illegible]

State

Zip

County

DEC Region

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Name of Nearest Cross Street

[illegible]

Distance to Nearest Cross Street (Feet)

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## Project In Relation to Cross Street

☐ North    ☐ South    ☐ East    ☐ West

Tax Map Numbers  
Section-Block-Parcel

[illegible]

## Tax Map Numbers

[illegible]

1. Provide the Geographic Coordinates for the project site in NYTM Units. To do this you **must** go to the NYSDEC Stormwater Interactive Map on the DEC website at:

[www.dec.ny.gov/imsmaps/stormwater/viewer.htm](http://www.dec.ny.gov/imsmaps/stormwater/viewer.htm)

Zoom into your Project Location such that you can accurately click on the centroid of your site. Once you have located your project site, go to the tool boxes on the top and choose "i"(identify). Then click on the center of your site and a new window containing the X, Y coordinates in UTM will pop up. Transcribe these coordinates into the boxes below. For problems with the interactive map use the help function.

**X Coordinates (Easting)**

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Y Coordinates (Northing)

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2. What is the nature of this construction project?

- **New Construction**

- Redevelopment with increase in impervious area

- Redevelopment with no increase in impervious area



**SELECT ONLY ONE CHOICE FOR EACH**

### Post-Development Future Land Use

- ☐ FOREST
- ☐ PASTURE/OPEN LAND
- ☐ CULTIVATED LAND
- ☐ SINGLE FAMILY HOME
- ☐ SINGLE FAMILY SUBDIVISION
- ☐ TOWN HOME RESIDENTIAL
- ☐ MULTIFAMILY RESIDENTIAL
- ☐ INSTITUTIONAL/SCHOOL
- ☐ INDUSTRIAL
- ☐ COMMERCIAL
- ☐ ROAD/HIGHWAY
- ☐ RECREATIONAL/SPORTS FIELD
- ☐ BIKE PATH/TRAIL
- ☐ LINEAR UTILITY
- ☐ PARKING LOT
- ☐ OTHER

[illegible]

- |                                                                | Number of Lots |  |  |
|----------------------------------------------------------------|----------------|--|--|
| <input type="radio"/> SINGLE FAMILY HOME                       |                |  |  |
| <input type="radio"/> SINGLE FAMILY SUBDIVISION                |                |  |  |
| <input type="radio"/> TOWN HOME RESIDENTIAL                    |                |  |  |
| <input type="radio"/> MULTIFAMILY RESIDENTIAL                  |                |  |  |
| <input type="radio"/> INSTITUTIONAL/SCHOOL                     |                |  |  |
| <input type="radio"/> INDUSTRIAL                               |                |  |  |
| <input type="radio"/> COMMERCIAL                               |                |  |  |
| <input type="radio"/> MUNICIPAL                                |                |  |  |
| <input type="radio"/> ROAD/HIGHWAY                             |                |  |  |
| <input type="radio"/> RECREATIONAL/SPORTS FIELD                |                |  |  |
| <input type="radio"/> BIKE PATH/TRAIL                          |                |  |  |
| <input type="radio"/> LINEAR UTILITY (water, sewer, gas, etc.) |                |  |  |
| <input type="radio"/> PARKING LOT                              |                |  |  |
| <input type="radio"/> CLEARING/GRADING ONLY                    |                |  |  |
| <input type="radio"/> DEMOLITION, NO REDEVELOPMENT             |                |  |  |
| <input type="radio"/> WELL DRILLING ACTIVITY *(Oil, Gas, etc.) |                |  |  |
| <input type="radio"/> OTHER                                    |                |  |  |

[illegible]

**\*Note:** for gas well drilling, non-high volume hydraulic fractured wells only

4. In accordance with the larger common plan of development or sale, enter the total project site area; the total area to be disturbed; existing impervious area to be disturbed (for redevelopment activities); and the future impervious area constructed within the disturbed area. (Round to the nearest tenth of an acre.)

### Total Site Area

|  |  |  |  |  |  |
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### Total Area To Be Disturbed

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**Existing Impervious  
Area To Be Disturbed**

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**Future Impervious  
Area Within  
Disturbed Area**

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5. Do you plan to disturb more than 5 acres of soil at any one time? ☐ Yes ☐ No

6. Indicate the percentage of each Hydrologic Soil Group(HSG) at the site.

| A |  |  | % |
|---|--|--|---|
|   |  |  |   |
|   |  |  |   |

| B |  |  | % |
|---|--|--|---|
|   |  |  |   |
|   |  |  |   |

| C |  |  | % |
|---|--|--|---|
|   |  |  |   |
|   |  |  |   |

| D |  |  | % |
|---|--|--|---|
|   |  |  |   |
|   |  |  |   |

7. Is this a phased project? ☐ Yes ☐ No

8. Enter the planned start and end dates of the disturbance activities.

**Start Date**

|  |  |   |  |  |   |  |  |  |  |
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**End Date**

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[illegible]

☐ Wetland / State Jurisdiction On Site (Answer 9b)  
☐ Wetland / State Jurisdiction Off Site  
☐ Wetland / Federal Jurisdiction On Site (Answer 9b)  
☐ Wetland / Federal Jurisdiction Off Site  
☐ Stream / Creek On Site  
☐ Stream / Creek Off Site  
☐ River On Site  
☐ River Off Site  
☐ Lake On Site  
☐ Lake Off Site  
☐ Other Type On Site  
☐ Other Type Off Site

- ☐ Regulatory Map
- ☐ Delineated by Consultant
- ☐ Delineated by Army Corps of Engineers
- ☐ Other (identify)

[illegible][illegible]

11. Is this project located in one of the Watersheds identified in Appendix C of GP-0-15-002? ☐ Yes ☐ No

**If no, skip question 13.**

If Yes, what is the acreage to be disturbed?

|  |  |  |  |  |  |
|--|--|--|--|--|--|
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Page 4 of 14

☐ Yes    ☐ No    ☐ Unknown

[illegible][illegible]

☐ Yes    ☐ No    ☐ Unknown

☐ Yes    ☐ No

☐ Yes    ☐ No

☐ Yes      ☐ No

☐ Yes    ☐ No

☐ Yes    ☐ No

☐ Yes    ☐ No

24. The Stormwater Pollution Prevention Plan (SWPPP) was prepared by:

- ☐ Professional Engineer (P.E.)
- ☐ Soil and Water Conservation District (SWCD)
- ☐ Registered Landscape Architect (R.L.A)
- ☐ Certified Professional in Erosion and Sediment Control (CPESC)
- ☐ Owner/Operator
- ☐ Other

[illegible]

SWPPP Preparer

[illegible]

Contact Name (Last, Space, First)

[illegible]

### Mailing Address

[illegible]

City

[illegible]

State Zip

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Fax

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Email

[illegible][illegible]

## SWPPP Preparer Certification

I hereby certify that the Stormwater Pollution Prevention Plan (SWPPP) for this project has been prepared in accordance with the terms and conditions of the GP-0-15-002. Furthermore, I understand that certifying false, incorrect or inaccurate information is a violation of this permit and the laws of the State of New York and could subject me to criminal, civil and/or administrative proceedings.

**First Name**

[illegible]

MI

7

**Last Name**

[illegible]

**Signature**

Date \_\_\_\_\_

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25. Has a construction sequence schedule for the planned management practices been prepared? ☐ Yes ☐ No

☐ Yes    ☐ No

26. Select **all** of the erosion and sediment control practices that will be employed on the project site:

## Temporary Structural

- ☐ Check Dams
- ☐ Construction Road Stabilization
- ☐ Dust Control
- ☐ Earth Dike
- ☐ Level Spreader
- ☐ Perimeter Dike/Swale
- ☐ Pipe Slope Drain
- ☐ Portable Sediment Tank
- ☐ Rock Dam
- ☐ Sediment Basin
- ☐ Sediment Traps
- ☐ Silt Fence
- ☐ Stabilized Construction Entrance
- ☐ Storm Drain Inlet Protection
- ☐ Straw/Hay Bale Dike
- ☐ Temporary Access Waterway Crossing
- ☐ Temporary Stormdrain Diversion
- ☐ Temporary Swale
- ☐ Turbidity Curtain
- ☐ Water bars

## Biotechnical

- **Brush Matting**
- **Wattling**

**Other**

[illegible]

## Vegetative Measures

- ☐ **Brush Matting**
- ☐ **Dune Stabilization**
- ☐ **Grassed Waterway**
- ☐ **Mulching**
- ☐ **Protecting Vegetation**
- ☐ **Recreation Area Improvement**
- ☐ **Seeding**
- ☐ **Sodding**
- ☐ **Straw/Hay Bale Dike**
- ☐ **Streambank Protection**
- ☐ **Temporary Swale**
- ☐ **Topsoiling**
- ☐ **Vegetating Waterways**

## Permanent Structural

- ☐ Debris Basin
- ☐ Diversion
- ☐ Grade Stabilization Structure
- ☐ Land Grading
- ☐ Lined Waterway (Rock)
- ☐ Paved Channel (Concrete)
- ☐ Paved Flume
- ☐ Retaining Wall
- ☐ Riprap Slope Protection
- ☐ Rock Outlet Protection
- ☐ Streambank Protection

### Post-construction Stormwater Management Practice (SMP) Requirements

**Important: Completion of Questions 27-39 is not required if response to Question 22 is No.**

27. Identify all site planning practices that were used to prepare the final site plan/layout for the project.

- ☐ Preservation of Undisturbed Areas
- ☐ Preservation of Buffers
- ☐ Reduction of Clearing and Grading
- ☐ Locating Development in Less Sensitive Areas
- ☐ Roadway Reduction
- ☐ Sidewalk Reduction
- ☐ Driveway Reduction
- ☐ Cul-de-sac Reduction
- ☐ Building Footprint Reduction
- ☐ Parking Reduction

27a. Indicate which of the following soil restoration criteria was used to address the requirements in Section 5.1.6("Soil Restoration") of the Design Manual (2010 version).

- ☐ All disturbed areas will be restored in accordance with the Soil Restoration requirements in Table 5.3 of the Design Manual (see page 5-22).
- ☐ Compacted areas were considered as impervious cover when calculating the **WQv Required**, and the compacted areas were assigned a post-construction Hydrologic Soil Group (HSG) designation that is one level less permeable than existing conditions for the hydrology analysis.

28. Provide the total Water Quality Volume (WQv) required for this project (based on final site plan/layout).

**Total WQv Required**

.     acre-feet

29. Identify the RR techniques (Area Reduction), RR techniques(Volume Reduction) and Standard SMPs with RRV Capacity in Table 1 (See Page 9) that were used to reduce the Total WQv Required(#28).

Also, provide in Table 1 the total impervious area that contributes runoff to each technique/practice selected. For the Area Reduction Techniques, provide the total contributing area (includes pervious area) and, if applicable, the total impervious area that contributes runoff to the technique/practice.

**Note:** Redevelopment projects shall use Tables 1 and 2 to identify the SMPs used to treat and/or reduce the WQv required. If runoff reduction techniques will not be used to reduce the required WQv, skip to question 33a after identifying the SMPs.

**Table 1 - Runoff Reduction (RR) Techniques  
and Standard Stormwater Management  
Practices (SMPs)**

| <u>RR Techniques (Area Reduction)</u>                                           | <u>Total Contributing<br/>Area (acres)</u>                                                                                                                                  | <u>Total Contributing<br/>Impervious Area(acres)</u>                                                                                                                               |
|---------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <input type="radio"/> Conservation of Natural Areas (RR-1) ...                  | <table border="1" style="display: inline-table; width: 60px; height: 20px;"></table> · <table border="1" style="display: inline-table; width: 60px; height: 20px;"></table> | and/or <table border="1" style="display: inline-table; width: 60px; height: 20px;"></table> · <table border="1" style="display: inline-table; width: 60px; height: 20px;"></table> |
| <input type="radio"/> Sheetflow to Riparian Buffers/Filters Strips (RR-2) ..... | <table border="1" style="display: inline-table; width: 60px; height: 20px;"></table> · <table border="1" style="display: inline-table; width: 60px; height: 20px;"></table> | and/or <table border="1" style="display: inline-table; width: 60px; height: 20px;"></table> · <table border="1" style="display: inline-table; width: 60px; height: 20px;"></table> |
| <input type="radio"/> Tree Planting/Tree Pit (RR-3) .....                       | <table border="1" style="display: inline-table; width: 60px; height: 20px;"></table> · <table border="1" style="display: inline-table; width: 60px; height: 20px;"></table> | and/or <table border="1" style="display: inline-table; width: 60px; height: 20px;"></table> · <table border="1" style="display: inline-table; width: 60px; height: 20px;"></table> |
| <input type="radio"/> Disconnection of Rooftop Runoff (RR-4) ..                 | <table border="1" style="display: inline-table; width: 60px; height: 20px;"></table> · <table border="1" style="display: inline-table; width: 60px; height: 20px;"></table> | and/or <table border="1" style="display: inline-table; width: 60px; height: 20px;"></table> · <table border="1" style="display: inline-table; width: 60px; height: 20px;"></table> |
| <u>RR Techniques (Volume Reduction)</u>                                         |                                                                                                                                                                             |                                                                                                                                                                                    |
| <input type="radio"/> Vegetated Swale (RR-5) .....                              |                                                                                                                                                                             | <table border="1" style="display: inline-table; width: 60px; height: 20px;"></table> · <table border="1" style="display: inline-table; width: 60px; height: 20px;"></table>        |
| <input type="radio"/> Rain Garden (RR-6) .....                                  |                                                                                                                                                                             | <table border="1" style="display: inline-table; width: 60px; height: 20px;"></table> · <table border="1" style="display: inline-table; width: 60px; height: 20px;"></table>        |
| <input type="radio"/> Stormwater Planter (RR-7) .....                           |                                                                                                                                                                             | <table border="1" style="display: inline-table; width: 60px; height: 20px;"></table> · <table border="1" style="display: inline-table; width: 60px; height: 20px;"></table>        |
| <input type="radio"/> Rain Barrel/Cistern (RR-8) .....                          |                                                                                                                                                                             | <table border="1" style="display: inline-table; width: 60px; height: 20px;"></table> · <table border="1" style="display: inline-table; width: 60px; height: 20px;"></table>        |
| <input type="radio"/> Porous Pavement (RR-9) .....                              |                                                                                                                                                                             | <table border="1" style="display: inline-table; width: 60px; height: 20px;"></table> · <table border="1" style="display: inline-table; width: 60px; height: 20px;"></table>        |
| <input type="radio"/> Green Roof (RR-10) .....                                  |                                                                                                                                                                             | <table border="1" style="display: inline-table; width: 60px; height: 20px;"></table> · <table border="1" style="display: inline-table; width: 60px; height: 20px;"></table>        |
| <u>Standard SMPs with RRv Capacity</u>                                          |                                                                                                                                                                             |                                                                                                                                                                                    |
| <input type="radio"/> Infiltration Trench (I-1) .....                           |                                                                                                                                                                             | <table border="1" style="display: inline-table; width: 60px; height: 20px;"></table> · <table border="1" style="display: inline-table; width: 60px; height: 20px;"></table>        |
| <input type="radio"/> Infiltration Basin (I-2) .....                            |                                                                                                                                                                             | <table border="1" style="display: inline-table; width: 60px; height: 20px;"></table> · <table border="1" style="display: inline-table; width: 60px; height: 20px;"></table>        |
| <input type="radio"/> Dry Well (I-3) .....                                      |                                                                                                                                                                             | <table border="1" style="display: inline-table; width: 60px; height: 20px;"></table> · <table border="1" style="display: inline-table; width: 60px; height: 20px;"></table>        |
| <input type="radio"/> Underground Infiltration System (I-4) .....               |                                                                                                                                                                             | <table border="1" style="display: inline-table; width: 60px; height: 20px;"></table> · <table border="1" style="display: inline-table; width: 60px; height: 20px;"></table>        |
| <input type="radio"/> Bioretention (F-5) .....                                  |                                                                                                                                                                             | <table border="1" style="display: inline-table; width: 60px; height: 20px;"></table> · <table border="1" style="display: inline-table; width: 60px; height: 20px;"></table>        |
| <input type="radio"/> Dry Swale (O-1) .....                                     |                                                                                                                                                                             | <table border="1" style="display: inline-table; width: 60px; height: 20px;"></table> · <table border="1" style="display: inline-table; width: 60px; height: 20px;"></table>        |
| <u>Standard SMPs</u>                                                            |                                                                                                                                                                             |                                                                                                                                                                                    |
| <input type="radio"/> Micropool Extended Detention (P-1) .....                  |                                                                                                                                                                             | <table border="1" style="display: inline-table; width: 60px; height: 20px;"></table> · <table border="1" style="display: inline-table; width: 60px; height: 20px;"></table>        |
| <input type="radio"/> Wet Pond (P-2) .....                                      |                                                                                                                                                                             | <table border="1" style="display: inline-table; width: 60px; height: 20px;"></table> · <table border="1" style="display: inline-table; width: 60px; height: 20px;"></table>        |
| <input type="radio"/> Wet Extended Detention (P-3) .....                        |                                                                                                                                                                             | <table border="1" style="display: inline-table; width: 60px; height: 20px;"></table> · <table border="1" style="display: inline-table; width: 60px; height: 20px;"></table>        |
| <input type="radio"/> Multiple Pond System (P-4) .....                          |                                                                                                                                                                             | <table border="1" style="display: inline-table; width: 60px; height: 20px;"></table> · <table border="1" style="display: inline-table; width: 60px; height: 20px;"></table>        |
| <input type="radio"/> Pocket Pond (P-5) .....                                   |                                                                                                                                                                             | <table border="1" style="display: inline-table; width: 60px; height: 20px;"></table> · <table border="1" style="display: inline-table; width: 60px; height: 20px;"></table>        |
| <input type="radio"/> Surface Sand Filter (F-1) .....                           |                                                                                                                                                                             | <table border="1" style="display: inline-table; width: 60px; height: 20px;"></table> · <table border="1" style="display: inline-table; width: 60px; height: 20px;"></table>        |
| <input type="radio"/> Underground Sand Filter (F-2) .....                       |                                                                                                                                                                             | <table border="1" style="display: inline-table; width: 60px; height: 20px;"></table> · <table border="1" style="display: inline-table; width: 60px; height: 20px;"></table>        |
| <input type="radio"/> Perimeter Sand Filter (F-3) .....                         |                                                                                                                                                                             | <table border="1" style="display: inline-table; width: 60px; height: 20px;"></table> · <table border="1" style="display: inline-table; width: 60px; height: 20px;"></table>        |
| <input type="radio"/> Organic Filter (F-4) .....                                |                                                                                                                                                                             | <table border="1" style="display: inline-table; width: 60px; height: 20px;"></table> · <table border="1" style="display: inline-table; width: 60px; height: 20px;"></table>        |
| <input type="radio"/> Shallow Wetland (W-1) .....                               |                                                                                                                                                                             | <table border="1" style="display: inline-table; width: 60px; height: 20px;"></table> · <table border="1" style="display: inline-table; width: 60px; height: 20px;"></table>        |
| <input type="radio"/> Extended Detention Wetland (W-2) .....                    |                                                                                                                                                                             | <table border="1" style="display: inline-table; width: 60px; height: 20px;"></table> · <table border="1" style="display: inline-table; width: 60px; height: 20px;"></table>        |
| <input type="radio"/> Pond/Wetland System (W-3) .....                           |                                                                                                                                                                             | <table border="1" style="display: inline-table; width: 60px; height: 20px;"></table> · <table border="1" style="display: inline-table; width: 60px; height: 20px;"></table>        |
| <input type="radio"/> Pocket Wetland (W-4) .....                                |                                                                                                                                                                             | <table border="1" style="display: inline-table; width: 60px; height: 20px;"></table> · <table border="1" style="display: inline-table; width: 60px; height: 20px;"></table>        |
| <input type="radio"/> Wet Swale (O-2) .....                                     |                                                                                                                                                                             | <table border="1" style="display: inline-table; width: 60px; height: 20px;"></table> · <table border="1" style="display: inline-table; width: 60px; height: 20px;"></table>        |

## Alternative SMP

**Total Contributing**  
**Impervious Area(acres)**

[illegible]

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[illegible][illegible]

30. Indicate the Total RRv provided by the RR techniques (Area/Volume Reduction) and Standard SMPs with RRv capacity identified in question 29.

**Total RRv provided**

·    acre-feet

☐ Yes    ☐ No

If Yes, go to question 36.  
If No, go to question 32.

32. Provide the Minimum RRv required based on HSG.  
[Minimum RRv Required = (P)(0.95)(Ai)/12, Ai=(S)(Aic)]

### Minimum RRV Required

|  |  |  |
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|  |  |  |
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|  |  |  |
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**acre-feet**

☐ Yes    ☐ No

**If Yes, go to question 33.**

**Note:** Use the space provided in question #39 to summarize the specific site limitations and justification for not reducing 100% of WQV required (#28). A detailed evaluation of the specific site limitations and justification for not reducing 100% of the WQV required (#28) must also be included in the SWPPP.

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33. Identify the Standard SMPs in Table 1 and, if applicable, the Alternative SMPs in Table 2 that were used to treat the remaining total WQv(=Total WQv Required in 28 - Total RRV Provided in 30).

Also, provide in Table 1 and 2 the total impervious area that contributes runoff to each practice selected.

**Note:** Use Tables 1 and 2 to identify the SMPs used on Redevelopment projects.

- 33a. Indicate the Total WQv provided (i.e. WQv treated) by the SMPs identified in question #33 and Standard SMPs with RRV Capacity identified in question 29.

**WQv Provided**

.  acre-feet

**Note:** For the standard SMPs with RRV capacity, the WQv provided by each practice = the WQv calculated using the contributing drainage area to the practice - RRV provided by the practice. (See Table 3.5 in Design Manual)

34. Provide the sum of the Total RRV provided (#30) and the WQv provided (#33a).

.

35. Is the sum of the RRV provided (#30) and the WQv provided (#33a) greater than or equal to the total WQv required (#28)? ☐ Yes ☐ No

**If Yes, go to question 36.**

**If No, sizing criteria has not been met, so NOI can not be processed. SWPPP preparer must modify design to meet sizing criteria.**

36. Provide the total Channel Protection Storage Volume (CPv) required and provided or select waiver (36a), if applicable.

**CPv Required**

.  acre-feet

**CPv Provided**

.  acre-feet

- 36a. The need to provide channel protection has been waived because:

- ☐ Site discharges directly to tidal waters or a fifth order or larger stream.
- ☐ Reduction of the total CPv is achieved on site through runoff reduction techniques or infiltration systems.

37. Provide the Overbank Flood (Qp) and Extreme Flood (Qf) control criteria or select waiver (37a), if applicable.

**Total Overbank Flood Control Criteria (Qp)**

**Pre-Development**

.  CFS

**Post-development**

.  CFS

**Total Extreme Flood Control Criteria (Qf)**

**Pre-Development**

.  CFS

**Post-development**

.  CFS

37a. The need to meet the Qp and Qf criteria has been waived because:

- ☐ Site discharges directly to tidal waters or a fifth order or larger stream.
- ☐ Downstream analysis reveals that the Qp and Qf controls are not required

- Site discharges directly to tidal waters or a fifth order or larger stream.
- Downstream analysis reveals that the Qp and Qf controls are not required

☐ Yes    ☐ No

If Yes, Identify the entity responsible for the long term  
Operation and Maintenance

[illegible]

39. Use this space to summarize the specific site limitations and justification for not reducing 100% of WQv required(#28). (See question 32a)  
This space can also be used for other pertinent project information.

40. Identify other DEC permits, existing and new, that are required for this project/facility.

- Air Pollution Control

- Coastal Erosion

☐ Hazardous Waste

○ Long Island Wells

○ Mined Land Reclamation

○ Solid Waste

○ Navigable Waters Protection / Article 15

○ Water Quality Certificate

- Dam Safety

○ Water Supply

○ Freshwater Wetlands/Article 24

- Tidal Wetlands

○ Wild, Scenic and Recreational Rivers

○ Stream Bed or Bank Protection / Article 15

○ Endangered or Threatened Species(Incidental Take Permit)

- Individual SPDES

☐ SPDES Multi-Sector GP

☐ Other

☐ None

41. Does this project require a US Army Corps of Engineers Wetland Permit? ☐ ☐ ☐ ☐ ☐ ☐

☐ Yes    ☐ No

| Wetland Permit:                  |  |  |  |  |   |
|----------------------------------|--|--|--|--|---|
| If Yes, Indicate Size of Impact. |  |  |  |  | . |

42. Is this project subject to the requirements of a regulated, traditional land use control MS4?  
(If No, skip question 43)

☐ Yes    ☐ No

43. Has the "MS4 SWPPP Acceptance" form been signed by the principal executive officer or ranking elected official and submitted along with this NOI?

☐ Yes    ☐ No

44. If this NOI is being submitted for the purpose of continuing or transferring coverage under a general permit for stormwater runoff from construction activities, please indicate the former SPDES number assigned.
- |   |   |   |  |  |  |  |
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| N | y | D |  |  |  |  |
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|---|---|---|--|--|--|--|--|--|
| N | Y | R |  |  |  |  |  |  |
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**Owner/Operator Certification**

I have read or been advised of the permit conditions and believe that I understand them. I also understand that, under the terms of the permit, there may be reporting requirements. I hereby certify that this document and the corresponding documents were prepared under my direction or supervision. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I further understand that coverage under the general permit will be identified in the acknowledgment that I will receive as a result of submitting this NOI and can be as long as sixty (60) business days as provided for in the general permit. I also understand that, by submitting this NOI, I am acknowledging that the SWPPP has been developed and will be implemented as the first element of construction, and agreeing to comply with all the terms and conditions of the general permit for which this NOI is being submitted.

**Print First Name**

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**Owner/Operator Signature**

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## **Appendix E**

### **Notice of Permit Coverage**



**Appendix F**  
**NYS DEC SPDES General Permit for Stormwater**  
**Discharges from Construction Activity**  
**(GP-0-20-001)**



Department of  
Environmental  
Conservation

NEW YORK STATE  
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SPDES GENERAL PERMIT  
FOR STORMWATER DISCHARGES

From

**CONSTRUCTION ACTIVITY**

Permit No. GP- 0-20-001

Issued Pursuant to Article 17, Titles 7, 8 and Article 70  
of the Environmental Conservation Law

Effective Date: January 29, 2020

Expiration Date: January 28, 2025

John J. Ferguson

Chief Permit Administrator

A handwritten signature in black ink, appearing to be "John J. Ferguson", written over a horizontal line.

Authorized Signature

1-23-20  
Date

Address: NYS DEC  
Division of Environmental Permits  
625 Broadway, 4th Floor  
Albany, N.Y. 12233-1750

## PREFACE

Pursuant to Section 402 of the Clean Water Act (“CWA”), stormwater *discharges* from certain *construction activities* are unlawful unless they are authorized by a *National Pollutant Discharge Elimination System (“NPDES”)* permit or by a state permit program. New York administers the approved State Pollutant Discharge Elimination System (SPDES) program with permits issued in accordance with the New York State Environmental Conservation Law (ECL) Article 17, Titles 7, 8 and Article 70.

An *owner or operator* of a *construction activity* that is eligible for coverage under this permit must obtain coverage prior to the *commencement of construction activity*. Activities that fit the definition of “*construction activity*”, as defined under 40 CFR 122.26(b)(14)(x), (15)(i), and (15)(ii), constitute construction of a *point source* and therefore, pursuant to ECL section 17-0505 and 17-0701, the *owner or operator* must have coverage under a SPDES permit prior to *commencing construction activity*. The *owner or operator* cannot wait until there is an actual *discharge* from the *construction site* to obtain permit coverage.

**\*Note: The italicized words/phrases within this permit are defined in Appendix A.**



**NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION  
SPDES GENERAL PERMIT FOR STORMWATER DISCHARGES FROM  
CONSTRUCTION ACTIVITIES**

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## Part 1. PERMIT COVERAGE AND LIMITATIONS

### A. Permit Application

This permit authorizes stormwater *discharges* to *surface waters of the State* from the following *construction activities* identified within 40 CFR Parts 122.26(b)(14)(x), 122.26(b)(15)(i) and 122.26(b)(15)(ii), provided all of the eligibility provisions of this permit are met:

1. *Construction activities* involving soil disturbances of one (1) or more acres; including disturbances of less than one acre that are part of a *larger common plan of development or sale* that will ultimately disturb one or more acres of land; excluding *routine maintenance activity* that is performed to maintain the original line and grade, hydraulic capacity or original purpose of a facility;
2. *Construction activities* involving soil disturbances of less than one (1) acre where the Department has determined that a *SPDES* permit is required for stormwater *discharges* based on the potential for contribution to a violation of a *water quality standard* or for significant contribution of *pollutants* to *surface waters of the State*.
3. *Construction activities* located in the watershed(s) identified in Appendix D that involve soil disturbances between five thousand (5,000) square feet and one (1) acre of land.

### B. Effluent Limitations Applicable to Discharges from Construction Activities

*Discharges* authorized by this permit must achieve, at a minimum, the effluent limitations in Part I.B.1. (a) – (f) of this permit. These limitations represent the degree of effluent reduction attainable by the application of best practicable technology currently available.

1. Erosion and Sediment Control Requirements - The *owner or operator* must select, design, install, implement and maintain control measures to *minimize* the *discharge of pollutants* and prevent a violation of the *water quality standards*. The selection, design, installation, implementation, and maintenance of these control measures must meet the non-numeric effluent limitations in Part I.B.1.(a) – (f) of this permit and be in accordance with the New York State Standards and Specifications for Erosion and Sediment Control, dated November 2016, using sound engineering judgment. Where control measures are not designed in conformance with the design criteria included in the technical standard, the *owner or operator* must include in the *Stormwater Pollution Prevention Plan* (“SWPPP”) the reason(s) for the

deviation or alternative design and provide information which demonstrates that the deviation or alternative design is *equivalent* to the technical standard.

- a. **Erosion and Sediment Controls.** Design, install and maintain effective erosion and sediment controls to *minimize* the *discharge* of *pollutants* and prevent a violation of the *water quality standards*. At a minimum, such controls must be designed, installed and maintained to:
  - (i) *Minimize* soil erosion through application of runoff control and soil stabilization control measure to *minimize pollutant discharges*;
  - (ii) Control stormwater *discharges*, including both peak flowrates and total stormwater volume, to *minimize* channel and *streambank* erosion and scour in the immediate vicinity of the *discharge* points;
  - (iii) *Minimize* the amount of soil exposed during *construction activity*;
  - (iv) *Minimize* the disturbance of *steep slopes*;
  - (v) *Minimize* sediment *discharges* from the site;
  - (vi) Provide and maintain *natural buffers* around surface waters, direct stormwater to vegetated areas and maximize stormwater infiltration to reduce *pollutant discharges*, unless *infeasible*;
  - (vii) *Minimize* soil compaction. Minimizing soil compaction is not required where the intended function of a specific area of the site dictates that it be compacted;
  - (viii) Unless *infeasible*, preserve a sufficient amount of topsoil to complete soil restoration and establish a uniform, dense vegetative cover; and
  - (ix) *Minimize* dust. On areas of exposed soil, *minimize* dust through the appropriate application of water or other dust suppression techniques to control the generation of pollutants that could be discharged from the site.
- b. **Soil Stabilization.** In areas where soil disturbance activity has temporarily or permanently ceased, the application of soil stabilization measures must be initiated by the end of the next business day and completed within fourteen (14) days from the date the current soil disturbance activity ceased. For construction sites that *directly discharge* to one of the 303(d) segments



listed in Appendix E or is located in one of the watersheds listed in Appendix C, the application of soil stabilization measures must be initiated by the end of the next business day and completed within seven (7) days from the date the current soil disturbance activity ceased. See Appendix A for definition of *Temporarily Ceased*.

- c. **Dewatering.** *Discharges* from *dewatering* activities, including *discharges* from *dewatering* of trenches and excavations, must be managed by appropriate control measures.
- d. **Pollution Prevention Measures.** Design, install, implement, and maintain effective pollution prevention measures to *minimize* the *discharge* of *pollutants* and prevent a violation of the *water quality standards*. At a minimum, such measures must be designed, installed, implemented and maintained to:
  - (i) *Minimize the discharge of pollutants* from equipment and vehicle washing, wheel wash water, and other wash waters. This applies to washing operations that use clean water only. Soaps, detergents and solvents cannot be used;
  - (ii) *Minimize the exposure of building materials, building products, construction wastes, trash, landscape materials, fertilizers, pesticides, herbicides, detergents, sanitary waste, hazardous and toxic waste, and other materials present on the site to precipitation and to stormwater.* Minimization of exposure is not required in cases where the exposure to precipitation and to stormwater will not result in a *discharge of pollutants*, or where exposure of a specific material or product poses little risk of stormwater contamination (such as final products and materials intended for outdoor use) ; and
  - (iii) Prevent the *discharge of pollutants* from spills and leaks and implement chemical spill and leak prevention and response procedures.
- e. **Prohibited Discharges.** The following *discharges* are prohibited:
  - (i) Wastewater from washout of concrete;
  - (ii) Wastewater from washout and cleanout of stucco, paint, form release oils, curing compounds and other construction materials;

- (iii) Fuels, oils, or other *pollutants* used in vehicle and equipment operation and maintenance;
  - (iv) Soaps or solvents used in vehicle and equipment washing; and
  - (v) Toxic or hazardous substances from a spill or other release.
- f. Surface Outlets. When discharging from basins and impoundments, the outlets shall be designed, constructed and maintained in such a manner that sediment does not leave the basin or impoundment and that erosion at or below the outlet does not occur.

### **C. Post-construction Stormwater Management Practice Requirements**

1. The *owner or operator* of a *construction activity* that requires post-construction stormwater management practices pursuant to Part III.C. of this permit must select, design, install, and maintain the practices to meet the *performance criteria* in the New York State Stormwater Management Design Manual (“Design Manual”), dated January 2015, using sound engineering judgment. Where post-construction stormwater management practices (“SMPs”) are not designed in conformance with the *performance criteria* in the Design Manual, the *owner or operator* must include in the SWPPP the reason(s) for the deviation or alternative design and provide information which demonstrates that the deviation or alternative design is *equivalent* to the technical standard.
2. The *owner or operator* of a *construction activity* that requires post-construction stormwater management practices pursuant to Part III.C. of this permit must design the practices to meet the applicable *sizing criteria* in Part I.C.2.a., b., c. or d. of this permit.

#### **a. Sizing Criteria for New Development**

- (i) Runoff Reduction Volume (“RRv”): Reduce the total Water Quality Volume (“WQv”) by application of RR techniques and standard SMPs with RRv capacity. The total WQv shall be calculated in accordance with the criteria in Section 4.2 of the Design Manual.
- (ii) Minimum RRv and Treatment of Remaining Total WQv: Construction activities that cannot meet the criteria in Part I.C.2.a.(i) of this permit due to site limitations shall direct runoff from all newly constructed impervious areas to a RR technique or standard SMP with RRv capacity unless infeasible. The specific site limitations that prevent the reduction of 100% of the WQv shall be documented in the SWPPP.

For each impervious area that is not directed to a RR technique or standard SMP with RRv capacity, the SWPPP must include documentation which demonstrates that all options were considered and for each option explains why it is considered infeasible.

**In no case shall the runoff reduction achieved from the newly constructed impervious areas be less than the Minimum RRv as calculated using the criteria in Section 4.3 of the Design Manual.** The remaining portion of the total WQv that cannot be reduced shall be treated by application of standard SMPs.

- (iii) Channel Protection Volume (“Cpv”): Provide 24 hour extended detention of the post-developed 1-year, 24-hour storm event; remaining after runoff reduction. The Cpv requirement does not apply when:
  - (1) Reduction of the entire Cpv is achieved by application of runoff reduction techniques or infiltration systems, or
  - (2) The site discharges directly to tidal waters, or fifth order or larger streams.
- (iv) *Overbank* Flood Control Criteria (“Qp”): Requires storage to attenuate the post-development 10-year, 24-hour peak discharge rate (Qp) to predevelopment rates. The Qp requirement does not apply when:
  - (1) the site discharges directly to tidal waters or fifth order or larger streams, or
  - (2) A downstream analysis reveals that *overbank* control is not required.
- (v) Extreme Flood Control Criteria (“Qf”): Requires storage to attenuate the post-development 100-year, 24-hour peak discharge rate (Qf) to predevelopment rates. The Qf requirement does not apply when:
  - (1) the site discharges directly to tidal waters or fifth order or larger streams, or
  - (2) A downstream analysis reveals that *overbank* control is not required.

**b. Sizing Criteria for New Development in Enhanced Phosphorus Removal Watershed**

- (i) Runoff Reduction Volume (RRv): Reduce the total Water Quality Volume (WQv) by application of RR techniques and standard SMPs with RRv capacity. The total WQv is the runoff volume from the 1-year, 24 hour design storm over the post-developed watershed and shall be

calculated in accordance with the criteria in Section 10.3 of the Design Manual.

- (ii) Minimum RRv and Treatment of Remaining Total WQv: *Construction activities* that cannot meet the criteria in Part I.C.2.b.(i) of this permit due to *site limitations* shall direct runoff from all newly constructed *impervious areas* to a RR technique or standard SMP with RRv capacity unless *infeasible*. The specific *site limitations* that prevent the reduction of 100% of the WQv shall be documented in the SWPPP. For each *impervious area* that is not directed to a RR technique or standard SMP with RRv capacity, the SWPPP must include documentation which demonstrates that all options were considered and for each option explains why it is considered *infeasible*.

**In no case shall the runoff reduction achieved from the newly constructed *impervious areas* be less than the Minimum RRv as calculated using the criteria in Section 10.3 of the Design Manual.** The remaining portion of the total WQv that cannot be reduced shall be treated by application of standard SMPs.

- (iii) Channel Protection Volume (Cpv): Provide 24 hour extended detention of the post-developed 1-year, 24-hour storm event; remaining after runoff reduction. The Cpv requirement does not apply when:
  - (1) Reduction of the entire Cpv is achieved by application of runoff reduction techniques or infiltration systems, or
  - (2) The site *discharges* directly to tidal waters, or fifth order or larger streams.
- (iv) Overbank Flood Control Criteria (Qp): Requires storage to attenuate the post-development 10-year, 24-hour peak *discharge* rate (Qp) to predevelopment rates. The Qp requirement does not apply when:
  - (1) the site *discharges* directly to tidal waters or fifth order or larger streams, or
  - (2) A downstream analysis reveals that *overbank* control is not required.
- (v) Extreme Flood Control Criteria (Qf): Requires storage to attenuate the post-development 100-year, 24-hour peak *discharge* rate (Qf) to predevelopment rates. The Qf requirement does not apply when:
  - (1) the site *discharges* directly to tidal waters or fifth order or larger streams, or
  - (2) A downstream analysis reveals that *overbank* control is not required.



### c. Sizing Criteria for Redevelopment Activity

- (i) Water Quality Volume (WQv): The WQv treatment objective for *redevelopment activity* shall be addressed by one of the following options. *Redevelopment activities* located in an Enhanced Phosphorus Removal Watershed (see Part III.B.3. and Appendix C of this permit) shall calculate the WQv in accordance with Section 10.3 of the Design Manual. All other *redevelopment activities* shall calculate the WQv in accordance with Section 4.2 of the Design Manual.
  - (1) Reduce the existing *impervious cover* by a minimum of 25% of the total disturbed, *impervious area*. The Soil Restoration criteria in Section 5.1.6 of the Design Manual must be applied to all newly created pervious areas, or
  - (2) Capture and treat a minimum of 25% of the WQv from the disturbed, *impervious area* by the application of standard SMPs; or reduce 25% of the WQv from the disturbed, *impervious area* by the application of RR techniques or standard SMPs with RRV capacity., or
  - (3) Capture and treat a minimum of 75% of the WQv from the disturbed, *impervious area* as well as any additional runoff from tributary areas by application of the alternative practices discussed in Sections 9.3 and 9.4 of the Design Manual., or
  - (4) Application of a combination of 1, 2 and 3 above that provide a weighted average of at least two of the above methods. Application of this method shall be in accordance with the criteria in Section 9.2.1(B) (IV) of the Design Manual.

If there is an existing post-construction stormwater management practice located on the site that captures and treats runoff from the *impervious area* that is being disturbed, the WQv treatment option selected must, at a minimum, provide treatment equal to the treatment that was being provided by the existing practice(s) if that treatment is greater than the treatment required by options 1 – 4 above.

- (ii) Channel Protection Volume (Cpv): Not required if there are no changes to hydrology that increase the *discharge* rate from the project site.
- (iii) Overbank Flood Control Criteria (Qp): Not required if there are no changes to hydrology that increase the *discharge* rate from the project site.
- (iv) Extreme Flood Control Criteria (Qf): Not required if there are no changes to hydrology that increase the *discharge* rate from the project site

**d. Sizing Criteria for Combination of Redevelopment Activity and New Development**

Construction projects that include both New Development and Redevelopment Activity shall provide post-construction stormwater management controls that meet the sizing criteria calculated as an aggregate of the Sizing Criteria in Part I.C.2.a. or b. of this permit for the New Development portion of the project and Part I.C.2.c of this permit for Redevelopment Activity portion of the project.

**D. Maintaining Water Quality**

The Department expects that compliance with the conditions of this permit will control *discharges* necessary to meet applicable *water quality standards*. It shall be a violation of the *ECL* for any discharge to either cause or contribute to a violation of *water quality standards* as contained in Parts 700 through 705 of Title 6 of the Official Compilation of Codes, Rules and Regulations of the State of New York, such as:

1. There shall be no increase in turbidity that will cause a substantial visible contrast to natural conditions;
2. There shall be no increase in suspended, colloidal or settleable solids that will cause deposition or impair the waters for their best usages; and
3. There shall be no residue from oil and floating substances, nor visible oil film, nor globules of grease.

If there is evidence indicating that the stormwater *discharges* authorized by this permit are causing, have the reasonable potential to cause, or are contributing to a violation of the *water quality standards*; the *owner or operator* must take appropriate corrective action in accordance with Part IV.C.5. of this general permit and document in accordance with Part IV.C.4. of this general permit. To address the *water quality standard* violation the *owner or operator* may need to provide additional information, include and implement appropriate controls in the SWPPP to correct the problem, or obtain an individual SPDES permit.

If there is evidence indicating that despite compliance with the terms and conditions of this general permit it is demonstrated that the stormwater *discharges* authorized by this permit are causing or contributing to a violation of *water quality standards*, or if the Department determines that a modification of the permit is necessary to prevent a violation of *water quality standards*, the authorized *discharges* will no longer be eligible for coverage under this permit. The Department may require the *owner or operator* to obtain an individual SPDES permit to continue discharging.

## **E. Eligibility Under This General Permit**

1. This permit may authorize all *discharges* of stormwater from *construction activity to surface waters of the State* and *groundwaters* except for ineligible *discharges* identified under subparagraph F. of this Part.
2. Except for non-stormwater *discharges* explicitly listed in the next paragraph, this permit only authorizes stormwater *discharges*; including stormwater runoff, snowmelt runoff, and surface runoff and drainage, from *construction activities*.
3. Notwithstanding paragraphs E.1 and E.2 above, the following non-stormwater discharges are authorized by this permit: those listed in 6 NYCRR 750-1.2(a)(29)(vi), with the following exception: “Discharges from firefighting activities are authorized only when the firefighting activities are emergencies/unplanned”; waters to which other components have not been added that are used to control dust in accordance with the SWPPP; and uncontaminated *discharges* from *construction site* de-watering operations. All non-stormwater discharges must be identified in the SWPPP. Under all circumstances, the *owner or operator* must still comply with *water quality standards* in Part I.D of this permit.
4. The *owner or operator* must maintain permit eligibility to *discharge* under this permit. Any *discharges* that are not compliant with the eligibility conditions of this permit are not authorized by the permit and the *owner or operator* must either apply for a separate permit to cover those ineligible *discharges* or take steps necessary to make the *discharge* eligible for coverage.

## **F. Activities Which Are Ineligible for Coverage Under This General Permit**

All of the following are **not** authorized by this permit:

1. *Discharges after construction activities* have been completed and the site has undergone *final stabilization*;
2. *Discharges* that are mixed with sources of non-stormwater other than those expressly authorized under subsection E.3. of this Part and identified in the SWPPP required by this permit;
3. *Discharges* that are required to obtain an individual SPDES permit or another SPDES general permit pursuant to Part VII.K. of this permit;
4. *Construction activities or discharges from construction activities* that may adversely affect an *endangered or threatened species* unless the *owner or*

*operator* has obtained a permit issued pursuant to 6 NYCRR Part 182 for the project or the Department has issued a letter of non-jurisdiction for the project. All documentation necessary to demonstrate eligibility shall be maintained on site in accordance with Part II.D.2 of this permit;

5. *Discharges* which either cause or contribute to a violation of *water quality standards* adopted pursuant to the *ECL* and its accompanying regulations;
6. *Construction activities* for residential, commercial and institutional projects:
  - a. Where the *discharges* from the *construction activities* are tributary to waters of the state classified as AA or AA-s; and
  - b. Which are undertaken on land with no existing *impervious cover*; and
  - c. Which disturb one (1) or more acres of land designated on the current United States Department of Agriculture (“USDA”) Soil Survey as Soil Slope Phase “D”, (provided the map unit name is inclusive of slopes greater than 25%), or Soil Slope Phase “E” or “F” (regardless of the map unit name), or a combination of the three designations.
7. *Construction activities* for linear transportation projects and linear utility projects:
  - a. Where the *discharges* from the *construction activities* are tributary to waters of the state classified as AA or AA-s; and
  - b. Which are undertaken on land with no existing *impervious cover*; and
  - c. Which disturb two (2) or more acres of land designated on the current USDA Soil Survey as Soil Slope Phase “D” (provided the map unit name is inclusive of slopes greater than 25%), or Soil Slope Phase “E” or “F” (regardless of the map unit name), or a combination of the three designations.



8. *Construction activities* that have the potential to affect an *historic property*, unless there is documentation that such impacts have been resolved. The following documentation necessary to demonstrate eligibility with this requirement shall be maintained on site in accordance with Part II.D.2 of this permit and made available to the Department in accordance with Part VII.F of this permit:
- a. Documentation that the *construction activity* is not within an archeologically sensitive area indicated on the sensitivity map, and that the *construction activity* is not located on or immediately adjacent to a property listed or determined to be eligible for listing on the National or State Registers of Historic Places, and that there is no new permanent building on the *construction site* within the following distances from a building, structure, or object that is more than 50 years old, or if there is such a new permanent building on the *construction site* within those parameters that NYS Office of Parks, Recreation and Historic Preservation (OPRHP), a Historic Preservation Commission of a Certified Local Government, or a qualified preservation professional has determined that the building, structure, or object more than 50 years old is not historically/archeologically significant.
    - 1-5 acres of disturbance - 20 feet
    - 5-20 acres of disturbance - 50 feet
    - 20+ acres of disturbance - 100 feet, or
  - b. DEC consultation form sent to OPRHP, and copied to the NYS DEC Agency Historic Preservation Officer (APO), and
    - (i) the State Environmental Quality Review (SEQR) Environmental Assessment Form (EAF) with a negative declaration or the Findings Statement, with documentation of OPRHP's agreement with the resolution; or
    - (ii) documentation from OPRHP that the *construction activity* will result in No Impact; or
    - (iii) documentation from OPRHP providing a determination of No Adverse Impact; or
    - (iv) a Letter of Resolution signed by the owner/operator, OPRHP and the DEC APO which allows for this *construction activity* to be eligible for coverage under the general permit in terms of the State Historic Preservation Act (SHPA); or
  - c. Documentation of satisfactory compliance with Section 106 of the National Historic Preservation Act for a coterminous project area:

- (i) No Affect
- (ii) No Adverse Affect
- (iii) Executed Memorandum of Agreement, or

d. Documentation that:

- (i) SHPA Section 14.09 has been completed by NYS DEC or another state agency.

9. *Discharges from construction activities* that are subject to an existing SPDES individual or general permit where a SPDES permit for *construction activity* has been terminated or denied; or where the *owner or operator* has failed to renew an expired individual permit.

## Part II. PERMIT COVERAGE

### A. How to Obtain Coverage

1. An *owner or operator* of a *construction activity* that is not subject to the requirements of a regulated, traditional land use control MS4 must first prepare a SWPPP in accordance with all applicable requirements of this permit and then submit a completed Notice of Intent (NOI) to the Department to be authorized to discharge under this permit.
2. An *owner or operator* of a *construction activity* that is subject to the requirements of a *regulated, traditional land use control MS4* must first prepare a SWPPP in accordance with all applicable requirements of this permit and then have the SWPPP reviewed and accepted by the *regulated, traditional land use control MS4* prior to submitting the NOI to the Department. The *owner or operator* shall have the “MS4 SWPPP Acceptance” form signed in accordance with Part VII.H., and then submit that form along with a completed NOI to the Department.
3. The requirement for an *owner or operator* to have its SWPPP reviewed and accepted by the *regulated, traditional land use control MS4* prior to submitting the NOI to the Department does not apply to an *owner or operator* that is obtaining permit coverage in accordance with the requirements in Part II.F. (Change of Owner or Operator) or where the *owner or operator* of the *construction activity* is the *regulated, traditional land use control MS4* . This exemption does not apply to *construction activities* subject to the New York City Administrative Code.

## B. Notice of Intent (NOI) Submittal

1. Prior to December 21, 2020, an owner or operator shall use either the electronic (eNOI) or paper version of the NOI that the Department prepared. Both versions of the NOI are located on the Department's website (<http://www.dec.ny.gov/>). The paper version of the NOI shall be signed in accordance with Part VII.H. of this permit and submitted to the following address:

**NOTICE OF INTENT  
NYS DEC, Bureau of Water Permits  
625 Broadway, 4<sup>th</sup> Floor  
Albany, New York 12233-3505**

2. Beginning December 21, 2020 and in accordance with EPA's 2015 NPDES Electronic Reporting Rule (40 CFR Part 127), the *owner or operator* must submit the NOI electronically using the *Department's* online NOI.
3. The *owner or operator* shall have the SWPPP preparer sign the "SWPPP Preparer Certification" statement on the NOI prior to submitting the form to the Department.
4. As of the date the NOI is submitted to the Department, the *owner or operator* shall make the NOI and SWPPP available for review and copying in accordance with the requirements in Part VII.F. of this permit.

## C. Permit Authorization

1. An *owner or operator* shall not *commence construction activity* until their authorization to *discharge* under this permit goes into effect.
2. Authorization to *discharge* under this permit will be effective when the *owner or operator* has satisfied all of the following criteria:
  - a. project review pursuant to the State Environmental Quality Review Act ("SEQRA") have been satisfied, when SEQRA is applicable. See the Department's website (<http://www.dec.ny.gov/>) for more information,
  - b. where required, all necessary Department permits subject to the *Uniform Procedures Act* ("UPA") (see 6 NYCRR Part 621), or the equivalent from another New York State agency, have been obtained, unless otherwise notified by the Department pursuant to 6 NYCRR 621.3(a)(4). *Owners or operators of construction activities* that are required to obtain UPA permits

must submit a preliminary SWPPP to the appropriate DEC Permit Administrator at the Regional Office listed in Appendix F at the time all other necessary *UPA* permit applications are submitted. The preliminary SWPPP must include sufficient information to demonstrate that the *construction activity* qualifies for authorization under this permit,

- c. the final SWPPP has been prepared, and
  - d. a complete NOI has been submitted to the Department in accordance with the requirements of this permit.
3. An *owner or operator* that has satisfied the requirements of Part II.C.2 above will be authorized to *discharge* stormwater from their *construction activity* in accordance with the following schedule:
- a. For *construction activities* that are not subject to the requirements of a *regulated, traditional land use control MS4*:
    - (i) Five (5) business days from the date the Department receives a complete electronic version of the NOI (eNOI) for *construction activities* with a SWPPP that has been prepared in conformance with the design criteria in the technical standard referenced in Part III.B.1 and the *performance criteria* in the technical standard referenced in Parts III.B., 2 or 3, for *construction activities* that require post-construction stormwater management practices pursuant to Part III.C.; or
    - (ii) Sixty (60) business days from the date the Department receives a complete NOI (electronic or paper version) for *construction activities* with a SWPPP that has not been prepared in conformance with the design criteria in technical standard referenced in Part III.B.1. or, for *construction activities* that require post-construction stormwater management practices pursuant to Part III.C., the *performance criteria* in the technical standard referenced in Parts III.B., 2 or 3, or;
    - (iii) Ten (10) business days from the date the Department receives a complete paper version of the NOI for *construction activities* with a SWPPP that has been prepared in conformance with the design criteria in the technical standard referenced in Part III.B.1 and the *performance criteria* in the technical standard referenced in Parts III.B., 2 or 3, for *construction activities* that require post-construction stormwater management practices pursuant to Part III.C.



- b. For *construction activities* that are subject to the requirements of a *regulated, traditional land use control MS4*:
  - (i) Five (5) business days from the date the Department receives both a complete electronic version of the NOI (eNOI) and signed “MS4 SWPPP Acceptance” form, or
  - (ii) Ten (10) business days from the date the Department receives both a complete paper version of the NOI and signed “MS4 SWPPP Acceptance” form.
- 4. Coverage under this permit authorizes stormwater *discharges* from only those areas of disturbance that are identified in the NOI. If an *owner or operator* wishes to have stormwater *discharges* from future or additional areas of disturbance authorized, they must submit a new NOI that addresses that phase of the development, unless otherwise notified by the Department. The *owner or operator* shall not *commence construction activity* on the future or additional areas until their authorization to *discharge* under this permit goes into effect in accordance with Part II.C. of this permit.

#### **D. General Requirements For Owners or Operators With Permit Coverage**

- 1. The *owner or operator* shall ensure that the provisions of the SWPPP are implemented from the *commencement of construction activity* until all areas of disturbance have achieved *final stabilization* and the Notice of Termination (“NOT”) has been submitted to the Department in accordance with Part V. of this permit. This includes any changes made to the SWPPP pursuant to Part III.A.4. of this permit.
- 2. The *owner or operator* shall maintain a copy of the General Permit (GP-0-20-001), NOI, *NOI Acknowledgment Letter*, SWPPP, MS4 SWPPP Acceptance form, inspection reports, responsible contractor’s or subcontractor’s certification statement (see Part III.A.6.), and all documentation necessary to demonstrate eligibility with this permit at the *construction site* until all disturbed areas have achieved *final stabilization* and the NOT has been submitted to the Department. The documents must be maintained in a secure location, such as a job trailer, on-site construction office, or mailbox with lock. The secure location must be accessible during normal business hours to an individual performing a compliance inspection.
- 3. The *owner or operator* of a *construction activity* shall not disturb greater than five (5) acres of soil at any one time without prior written authorization from the Department or, in areas under the jurisdiction of a *regulated, traditional land*

*use control MS4, the regulated, traditional land use control MS4 (provided the regulated, traditional land use control MS4 is not the owner or operator of the construction activity). At a minimum, the owner or operator must comply with the following requirements in order to be authorized to disturb greater than five (5) acres of soil at any one time:*

- a. The *owner or operator* shall have a *qualified inspector* conduct **at least** two (2) site inspections in accordance with Part IV.C. of this permit every seven (7) calendar days, for as long as greater than five (5) acres of soil remain disturbed. The two (2) inspections shall be separated by a minimum of two (2) full calendar days.
  - b. In areas where soil disturbance activity has temporarily or permanently ceased, the application of soil stabilization measures must be initiated by the end of the next business day and completed within seven (7) days from the date the current soil disturbance activity ceased. The soil stabilization measures selected shall be in conformance with the technical standard, New York State Standards and Specifications for Erosion and Sediment Control, dated November 2016.
  - c. The *owner or operator* shall prepare a phasing plan that defines maximum disturbed area per phase and shows required cuts and fills.
  - d. The *owner or operator* shall install any additional site-specific practices needed to protect water quality.
  - e. The *owner or operator* shall include the requirements above in their SWPPP.
4. In accordance with statute, regulations, and the terms and conditions of this permit, the Department may suspend or revoke an *owner's or operator's* coverage under this permit at any time if the Department determines that the SWPPP does not meet the permit requirements or consistent with Part VII.K..
  5. Upon a finding of significant non-compliance with the practices described in the SWPPP or violation of this permit, the Department may order an immediate stop to all activity at the site until the non-compliance is remedied. The stop work order shall be in writing, describe the non-compliance in detail, and be sent to the *owner or operator*.
  6. For *construction activities* that are subject to the requirements of a *regulated, traditional land use control MS4*, the *owner or operator* shall notify the

*regulated, traditional land use control MS4* in writing of any planned amendments or modifications to the post-construction stormwater management practice component of the SWPPP required by Part III.A. 4. and 5. of this permit. Unless otherwise notified by the *regulated, traditional land use control MS4*, the *owner or operator* shall have the SWPPP amendments or modifications reviewed and accepted by the *regulated, traditional land use control MS4* prior to commencing construction of the post-construction stormwater management practice.

#### **E. Permit Coverage for Discharges Authorized Under GP-0-15-002**

1. Upon renewal of SPDES General Permit for Stormwater Discharges from *Construction Activity* (Permit No. GP-0-15-002), an *owner or operator* of a *construction activity* with coverage under GP-0-15-002, as of the effective date of GP- 0-20-001, shall be authorized to *discharge* in accordance with GP- 0-20-001, unless otherwise notified by the Department.

An *owner or operator* may continue to implement the technical/design components of the post-construction stormwater management controls provided that such design was done in conformance with the technical standards in place at the time of initial project authorization. However, they must comply with the other, non-design provisions of GP-0-20-001.

#### **F. Change of Owner or Operator**

1. When property ownership changes or when there is a change in operational control over the construction plans and specifications, the original *owner or operator* must notify the new *owner or operator*, in writing, of the requirement to obtain permit coverage by submitting a NOI with the Department. For *construction activities* subject to the requirements of a *regulated, traditional land use control MS4*, the original *owner or operator* must also notify the MS4, in writing, of the change in ownership at least 30 calendar days prior to the change in ownership.
2. Once the new *owner or operator* obtains permit coverage, the original *owner or operator* shall then submit a completed NOT with the name and permit identification number of the new *owner or operator* to the Department at the address in Part II.B.1. of this permit. If the original *owner or operator* maintains ownership of a portion of the *construction activity* and will disturb soil, they must maintain their coverage under the permit.
3. Permit coverage for the new *owner or operator* will be effective as of the date the Department receives a complete NOI, provided the original *owner or*

*operator* was not subject to a sixty (60) business day authorization period that has not expired as of the date the Department receives the NOI from the new *owner or operator*.

### Part III. STORMWATER POLLUTION PREVENTION PLAN (SWPPP)

#### A. General SWPPP Requirements

1. A SWPPP shall be prepared and implemented by the *owner or operator* of each *construction activity* covered by this permit. The SWPPP must document the selection, design, installation, implementation and maintenance of the control measures and practices that will be used to meet the effluent limitations in Part I.B. of this permit and where applicable, the post-construction stormwater management practice requirements in Part I.C. of this permit. The SWPPP shall be prepared prior to the submittal of the NOI. The NOI shall be submitted to the Department prior to the *commencement of construction activity*. A copy of the completed, final NOI shall be included in the SWPPP.
2. The SWPPP shall describe the erosion and sediment control practices and where required, post-construction stormwater management practices that will be used and/or constructed to reduce the *pollutants* in stormwater *discharges* and to assure compliance with the terms and conditions of this permit. In addition, the SWPPP shall identify potential sources of pollution which may reasonably be expected to affect the quality of stormwater *discharges*.
3. All SWPPPs that require the post-construction stormwater management practice component shall be prepared by a *qualified professional* that is knowledgeable in the principles and practices of stormwater management and treatment.
4. The *owner or operator* must keep the SWPPP current so that it at all times accurately documents the erosion and sediment controls practices that are being used or will be used during construction, and all post-construction stormwater management practices that will be constructed on the site. At a minimum, the *owner or operator* shall amend the SWPPP, including construction drawings:
  - a. whenever the current provisions prove to be ineffective in minimizing *pollutants* in stormwater *discharges* from the site;



- b. whenever there is a change in design, construction, or operation at the *construction site* that has or could have an effect on the *discharge* of *pollutants*;
  - c. to address issues or deficiencies identified during an inspection by the *qualified inspector*, the Department or other regulatory authority; and
  - d. to document the final construction conditions.
5. The Department may notify the *owner or operator* at any time that the SWPPP does not meet one or more of the minimum requirements of this permit. The notification shall be in writing and identify the provisions of the SWPPP that require modification. Within fourteen (14) calendar days of such notification, or as otherwise indicated by the Department, the *owner or operator* shall make the required changes to the SWPPP and submit written notification to the Department that the changes have been made. If the *owner or operator* does not respond to the Department's comments in the specified time frame, the Department may suspend the *owner's or operator's* coverage under this permit or require the *owner or operator* to obtain coverage under an individual SPDES permit in accordance with Part II.D.4. of this permit.
6. Prior to the *commencement of construction activity*, the *owner or operator* must identify the contractor(s) and subcontractor(s) that will be responsible for installing, constructing, repairing, replacing, inspecting and maintaining the erosion and sediment control practices included in the SWPPP; and the contractor(s) and subcontractor(s) that will be responsible for constructing the post-construction stormwater management practices included in the SWPPP. The *owner or operator* shall have each of the contractors and subcontractors identify at least one person from their company that will be responsible for implementation of the SWPPP. This person shall be known as the *trained contractor*. The *owner or operator* shall ensure that at least one *trained contractor* is on site on a daily basis when soil disturbance activities are being performed.

The *owner or operator* shall have each of the contractors and subcontractors identified above sign a copy of the following certification statement below before they commence any *construction activity*:

"I hereby certify under penalty of law that I understand and agree to comply with the terms and conditions of the SWPPP and agree to implement any corrective actions identified by the *qualified inspector* during a site inspection. I also understand that the *owner or operator* must comply with

the terms and conditions of the most current version of the New York State Pollutant Discharge Elimination System ("SPDES") general permit for stormwater *discharges* from *construction activities* and that it is unlawful for any person to cause or contribute to a violation of *water quality standards*. Furthermore, I am aware that there are significant penalties for submitting false information, that I do not believe to be true, including the possibility of fine and imprisonment for knowing violations"

In addition to providing the certification statement above, the certification page must also identify the specific elements of the SWPPP that each contractor and subcontractor will be responsible for and include the name and title of the person providing the signature; the name and title of the *trained contractor* responsible for SWPPP implementation; the name, address and telephone number of the contracting firm; the address (or other identifying description) of the site; and the date the certification statement is signed. The *owner or operator* shall attach the certification statement(s) to the copy of the SWPPP that is maintained at the *construction site*. If new or additional contractors are hired to implement measures identified in the SWPPP after construction has commenced, they must also sign the certification statement and provide the information listed above.

7. For projects where the Department requests a copy of the SWPPP or inspection reports, the *owner or operator* shall submit the documents in both electronic (PDF only) and paper format within five (5) business days, unless otherwise notified by the Department.

## **B. Required SWPPP Contents**

1. Erosion and sediment control component - All SWPPPs prepared pursuant to this permit shall include erosion and sediment control practices designed in conformance with the technical standard, New York State Standards and Specifications for Erosion and Sediment Control, dated November 2016. Where erosion and sediment control practices are not designed in conformance with the design criteria included in the technical standard, the *owner or operator* must demonstrate *equivalence* to the technical standard. At a minimum, the erosion and sediment control component of the SWPPP shall include the following:
  - a. Background information about the scope of the project, including the location, type and size of project

- b. A site map/construction drawing(s) for the project, including a general location map. At a minimum, the site map shall show the total site area; all improvements; areas of disturbance; areas that will not be disturbed; existing vegetation; on-site and adjacent off-site surface water(s); floodplain/floodway boundaries; wetlands and drainage patterns that could be affected by the *construction activity*; existing and final contours ; locations of different soil types with boundaries; material, waste, borrow or equipment storage areas located on adjacent properties; and location(s) of the stormwater *discharge(s)*;
- c. A description of the soil(s) present at the site, including an identification of the Hydrologic Soil Group (HSG);
- d. A construction phasing plan and sequence of operations describing the intended order of *construction activities*, including clearing and grubbing, excavation and grading, utility and infrastructure installation and any other activity at the site that results in soil disturbance;
- e. A description of the minimum erosion and sediment control practices to be installed or implemented for each *construction activity* that will result in soil disturbance. Include a schedule that identifies the timing of initial placement or implementation of each erosion and sediment control practice and the minimum time frames that each practice should remain in place or be implemented;
- f. A temporary and permanent soil stabilization plan that meets the requirements of this general permit and the technical standard, New York State Standards and Specifications for Erosion and Sediment Control, dated November 2016, for each stage of the project, including initial land clearing and grubbing to project completion and achievement of *final stabilization*;
- g. A site map/construction drawing(s) showing the specific location(s), size(s), and length(s) of each erosion and sediment control practice;
- h. The dimensions, material specifications, installation details, and operation and maintenance requirements for all erosion and sediment control practices. Include the location and sizing of any temporary sediment basins and structural practices that will be used to divert flows from exposed soils;
- i. A maintenance inspection schedule for the contractor(s) identified in Part III.A.6. of this permit, to ensure continuous and effective operation of the erosion and sediment control practices. The maintenance inspection

schedule shall be in accordance with the requirements in the technical standard, New York State Standards and Specifications for Erosion and Sediment Control, dated November 2016;

- j. A description of the pollution prevention measures that will be used to control litter, construction chemicals and construction debris from becoming a *pollutant* source in the stormwater *discharges*;
  - k. A description and location of any stormwater *discharges* associated with industrial activity other than construction at the site, including, but not limited to, stormwater *discharges* from asphalt plants and concrete plants located on the *construction site*; and
  - l. Identification of any elements of the design that are not in conformance with the design criteria in the technical standard, New York State Standards and Specifications for Erosion and Sediment Control, dated November 2016. Include the reason for the deviation or alternative design and provide information which demonstrates that the deviation or alternative design is *equivalent* to the technical standard.
2. Post-construction stormwater management practice component – The *owner or operator* of any construction project identified in Table 2 of Appendix B as needing post-construction stormwater management practices shall prepare a SWPPP that includes practices designed in conformance with the applicable *sizing criteria* in Part I.C.2.a., c. or d. of this permit and the *performance criteria* in the technical standard, New York State Stormwater Management Design Manual dated January 2015

Where post-construction stormwater management practices are not designed in conformance with the *performance criteria* in the technical standard, the *owner or operator* must include in the SWPPP the reason(s) for the deviation or alternative design and provide information which demonstrates that the deviation or alternative design is *equivalent* to the technical standard.

The post-construction stormwater management practice component of the SWPPP shall include the following:

- a. Identification of all post-construction stormwater management practices to be constructed as part of the project. Include the dimensions, material specifications and installation details for each post-construction stormwater management practice;

- b. A site map/construction drawing(s) showing the specific location and size of each post-construction stormwater management practice;
- c. A Stormwater Modeling and Analysis Report that includes:
  - (i) Map(s) showing pre-development conditions, including watershed/subcatchments boundaries, flow paths/routing, and design points;
  - (ii) Map(s) showing post-development conditions, including watershed/subcatchments boundaries, flow paths/routing, design points and post-construction stormwater management practices;
  - (iii) Results of stormwater modeling (i.e. hydrology and hydraulic analysis) for the required storm events. Include supporting calculations (model runs), methodology, and a summary table that compares pre and post-development runoff rates and volumes for the different storm events;
  - (iv) Summary table, with supporting calculations, which demonstrates that each post-construction stormwater management practice has been designed in conformance with the *sizing criteria* included in the Design Manual;
  - (v) Identification of any *sizing criteria* that is not required based on the requirements included in Part I.C. of this permit; and
  - (vi) Identification of any elements of the design that are not in conformance with the *performance criteria* in the Design Manual. Include the reason(s) for the deviation or alternative design and provide information which demonstrates that the deviation or alternative design is *equivalent* to the Design Manual;
- d. Soil testing results and locations (test pits, borings);
- e. Infiltration test results, when required; and
- f. An operations and maintenance plan that includes inspection and maintenance schedules and actions to ensure continuous and effective operation of each post-construction stormwater management practice. The plan shall identify the entity that will be responsible for the long term operation and maintenance of each practice.



3. Enhanced Phosphorus Removal Standards - All construction projects identified in Table 2 of Appendix B that are located in the watersheds identified in Appendix C shall prepare a SWPPP that includes post-construction stormwater management practices designed in conformance with the applicable *sizing criteria* in Part I.C.2. b., c. or d. of this permit and the *performance criteria*, Enhanced Phosphorus Removal Standards included in the Design Manual. At a minimum, the post-construction stormwater management practice component of the SWPPP shall include items 2.a - 2.f. above.

### **C. Required SWPPP Components by Project Type**

Unless otherwise notified by the Department, *owners or operators of construction activities* identified in Table 1 of Appendix B are required to prepare a SWPPP that only includes erosion and sediment control practices designed in conformance with Part III.B.1 of this permit. *Owners or operators of the construction activities* identified in Table 2 of Appendix B shall prepare a SWPPP that also includes post-construction stormwater management practices designed in conformance with Part III.B.2 or 3 of this permit.

## **Part IV. INSPECTION AND MAINTENANCE REQUIREMENTS**

### **A. General Construction Site Inspection and Maintenance Requirements**

1. The *owner or operator* must ensure that all erosion and sediment control practices (including pollution prevention measures) and all post-construction stormwater management practices identified in the SWPPP are inspected and maintained in accordance with Part IV.B. and C. of this permit.
2. The terms of this permit shall not be construed to prohibit the State of New York from exercising any authority pursuant to the ECL, common law or federal law, or prohibit New York State from taking any measures, whether civil or criminal, to prevent violations of the laws of the State of New York or protect the public health and safety and/or the environment.

### **B. Contractor Maintenance Inspection Requirements**

1. The *owner or operator* of each *construction activity* identified in Tables 1 and 2 of Appendix B shall have a *trained contractor* inspect the erosion and sediment control practices and pollution prevention measures being implemented within the active work area daily to ensure that they are being maintained in effective operating condition at all times. If deficiencies are identified, the contractor shall

begin implementing corrective actions within one business day and shall complete the corrective actions in a reasonable time frame.

2. For construction sites where soil disturbance activities have been temporarily suspended (e.g. winter shutdown) and *temporary stabilization* measures have been applied to all disturbed areas, the *trained contractor* can stop conducting the maintenance inspections. The *trained contractor* shall begin conducting the maintenance inspections in accordance with Part IV.B.1. of this permit as soon as soil disturbance activities resume.
3. For construction sites where soil disturbance activities have been shut down with partial project completion, the *trained contractor* can stop conducting the maintenance inspections if all areas disturbed as of the project shutdown date have achieved *final stabilization* and all post-construction stormwater management practices required for the completed portion of the project have been constructed in conformance with the SWPPP and are operational.

### C. Qualified Inspector Inspection Requirements

The *owner or operator* shall have a *qualified inspector* conduct site inspections in conformance with the following requirements:

[Note: The *trained contractor* identified in Part III.A.6. and IV.B. of this permit **cannot** conduct the *qualified inspector* site inspections unless they meet the *qualified inspector* qualifications included in Appendix A. In order to perform these inspections, the *trained contractor* would have to be a:

- licensed Professional Engineer,
  - Certified Professional in Erosion and Sediment Control (CPESC),
  - New York State Erosion and Sediment Control Certificate Program holder
  - Registered Landscape Architect, or
  - someone working under the direct supervision of, and at the same company as, the licensed Professional Engineer or Registered Landscape Architect, provided they have received four (4) hours of Department endorsed training in proper erosion and sediment control principles from a Soil and Water Conservation District, or other Department endorsed entity].
1. A *qualified inspector* shall conduct site inspections for all *construction activities* identified in Tables 1 and 2 of Appendix B, with the exception of:
    - a. the construction of a single family residential subdivision with 25% or less *impervious cover* at total site build-out that involves a soil disturbance of one (1) or more acres of land but less than five (5) acres and is not located

in one of the watersheds listed in Appendix C and not directly discharging to one of the 303(d) segments listed in Appendix E;

- b. the construction of a single family home that involves a soil disturbance of one (1) or more acres of land but less than five (5) acres and is not located in one of the watersheds listed in Appendix C and not directly discharging to one of the 303(d) segments listed in Appendix E;
  - c. construction on agricultural property that involves a soil disturbance of one (1) or more acres of land but less than five (5) acres; and
  - d. *construction activities* located in the watersheds identified in Appendix D that involve soil disturbances between five thousand (5,000) square feet and one (1) acre of land.
2. Unless otherwise notified by the Department, the *qualified inspector* shall conduct site inspections in accordance with the following timetable:
- a. For construction sites where soil disturbance activities are on-going, the *qualified inspector* shall conduct a site inspection at least once every seven (7) calendar days.
  - b. For construction sites where soil disturbance activities are on-going and the *owner or operator* has received authorization in accordance with Part II.D.3 to disturb greater than five (5) acres of soil at any one time, the *qualified inspector* shall conduct at least two (2) site inspections every seven (7) calendar days. The two (2) inspections shall be separated by a minimum of two (2) full calendar days.
  - c. For construction sites where soil disturbance activities have been temporarily suspended (e.g. winter shutdown) and *temporary stabilization* measures have been applied to all disturbed areas, the *qualified inspector* shall conduct a site inspection at least once every thirty (30) calendar days. The *owner or operator* shall notify the DOW Water (SPDES) Program contact at the Regional Office (see contact information in Appendix F) or, in areas under the jurisdiction of a *regulated, traditional land use control MS4*, the *regulated, traditional land use control MS4* (provided the *regulated, traditional land use control MS4* is not the *owner or operator* of the *construction activity*) in writing prior to reducing the frequency of inspections.

- d. For construction sites where soil disturbance activities have been shut down with partial project completion, the *qualified inspector* can stop conducting inspections if all areas disturbed as of the project shutdown date have achieved *final stabilization* and all post-construction stormwater management practices required for the completed portion of the project have been constructed in conformance with the SWPPP and are operational. The *owner or operator* shall notify the DOW Water (SPDES) Program contact at the Regional Office (see contact information in Appendix F) or, in areas under the jurisdiction of a *regulated, traditional land use control MS4*, the *regulated, traditional land use control MS4* (provided the *regulated, traditional land use control MS4* is not the *owner or operator* of the *construction activity*) in writing prior to the shutdown. If soil disturbance activities are not resumed within 2 years from the date of shutdown, the *owner or operator* shall have the *qualified inspector* perform a final inspection and certify that all disturbed areas have achieved *final stabilization*, and all temporary, structural erosion and sediment control measures have been removed; and that all post-construction stormwater management practices have been constructed in conformance with the SWPPP by signing the “*Final Stabilization*” and “*Post-Construction Stormwater Management Practice*” certification statements on the NOT. The *owner or operator* shall then submit the completed NOT form to the address in Part II.B.1 of this permit.
  - e. For construction sites that directly *discharge* to one of the 303(d) segments listed in Appendix E or is located in one of the watersheds listed in Appendix C, the *qualified inspector* shall conduct at least two (2) site inspections every seven (7) calendar days. The two (2) inspections shall be separated by a minimum of two (2) full calendar days.
3. At a minimum, the *qualified inspector* shall inspect all erosion and sediment control practices and pollution prevention measures to ensure integrity and effectiveness, all post-construction stormwater management practices under construction to ensure that they are constructed in conformance with the SWPPP, all areas of disturbance that have not achieved *final stabilization*, all points of *discharge* to natural surface waterbodies located within, or immediately adjacent to, the property boundaries of the *construction site*, and all points of *discharge* from the *construction site*.
  4. The *qualified inspector* shall prepare an inspection report subsequent to each and every inspection. At a minimum, the inspection report shall include and/or address the following:

- a. Date and time of inspection;
- b. Name and title of person(s) performing inspection;
- c. A description of the weather and soil conditions (e.g. dry, wet, saturated) at the time of the inspection;
- d. A description of the condition of the runoff at all points of *discharge* from the *construction site*. This shall include identification of any *discharges* of sediment from the *construction site*. Include *discharges* from conveyance systems (i.e. pipes, culverts, ditches, etc.) and overland flow;
- e. A description of the condition of all natural surface waterbodies located within, or immediately adjacent to, the property boundaries of the *construction site* which receive runoff from disturbed areas. This shall include identification of any *discharges* of sediment to the surface waterbody;
- f. Identification of all erosion and sediment control practices and pollution prevention measures that need repair or maintenance;
- g. Identification of all erosion and sediment control practices and pollution prevention measures that were not installed properly or are not functioning as designed and need to be reinstalled or replaced;
- h. Description and sketch of areas with active soil disturbance activity, areas that have been disturbed but are inactive at the time of the inspection, and areas that have been stabilized (temporary and/or final) since the last inspection;
- i. Current phase of construction of all post-construction stormwater management practices and identification of all construction that is not in conformance with the SWPPP and technical standards;
- j. 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 post-construction stormwater management practice(s);
- k. Identification and status of all corrective actions that were required by previous inspection; and



- I. Digital photographs, with date stamp, that clearly show the condition of all practices that have been identified as needing corrective actions. The *qualified inspector* shall attach paper color copies of the digital photographs to the inspection report being maintained onsite within seven (7) calendar days of the date of the inspection. The *qualified inspector* shall also take digital photographs, with date stamp, that clearly show the condition of the practice(s) after the corrective action has been completed. The *qualified inspector* shall attach paper color copies of the digital photographs to the inspection report that documents the completion of the corrective action work within seven (7) calendar days of that inspection.
5. Within one business day of the completion of an inspection, the *qualified inspector* shall notify the *owner or operator* and appropriate contractor or subcontractor identified in Part III.A.6. of this permit of any corrective actions that need to be taken. The contractor or subcontractor shall begin implementing the corrective actions within one business day of this notification and shall complete the corrective actions in a reasonable time frame.
6. All inspection reports shall be signed by the *qualified inspector*. Pursuant to Part II.D.2. of this permit, the inspection reports shall be maintained on site with the SWPPP.

## **Part V. TERMINATION OF PERMIT COVERAGE**

### **A. Termination of Permit Coverage**

1. An *owner or operator* that is eligible to terminate coverage under this permit must submit a completed NOT form to the address in Part II.B.1 of this permit. The NOT form shall be one which is associated with this permit, signed in accordance with Part VII.H of this permit.
2. An *owner or operator* may terminate coverage when one or more the following conditions have been met:
  - a. Total project completion - All *construction activity* identified in the SWPPP has been completed; and all areas of disturbance have achieved *final stabilization*; and all temporary, structural erosion and sediment control measures have been removed; and all post-construction stormwater management practices have been constructed in conformance with the SWPPP and are operational;

- b. Planned shutdown with partial project completion - All soil disturbance activities have ceased; and all areas disturbed as of the project shutdown date have achieved *final stabilization*; and all temporary, structural erosion and sediment control measures have been removed; and all post-construction stormwater management practices required for the completed portion of the project have been constructed in conformance with the SWPPP and are operational;
  - c. A new *owner or operator* has obtained coverage under this permit in accordance with Part II.F. of this permit.
  - d. The *owner or operator* obtains coverage under an alternative SPDES general permit or an individual SPDES permit.
3. For *construction activities* meeting subdivision 2a. or 2b. of this Part, the *owner or operator* shall have the *qualified inspector* perform a final site inspection prior to submitting the NOT. The *qualified inspector* shall, by signing the “*Final Stabilization*” and “Post-Construction Stormwater Management Practice certification statements on the NOT, certify that all the requirements in Part V.A.2.a. or b. of this permit have been achieved.
4. For *construction activities* that are subject to the requirements of a *regulated, traditional land use control MS4* and meet subdivision 2a. or 2b. of this Part, the *owner or operator* shall have the *regulated, traditional land use control MS4* sign the “MS4 Acceptance” statement on the NOT in accordance with the requirements in Part VII.H. of this permit. The *regulated, traditional land use control MS4* official, by signing this statement, has determined that it is acceptable for the *owner or operator* to submit the NOT in accordance with the requirements of this Part. The *regulated, traditional land use control MS4* can make this determination by performing a final site inspection themselves or by accepting the *qualified inspector’s* final site inspection certification(s) required in Part V.A.3. of this permit.
5. For *construction activities* that require post-construction stormwater management practices and meet subdivision 2a. of this Part, the *owner or operator* must, prior to submitting the NOT, ensure one of the following:
- a. the post-construction stormwater management practice(s) and any right-of-way(s) needed to maintain such practice(s) have been deeded to the municipality in which the practice(s) is located,

- b. an executed maintenance agreement is in place with the municipality that will maintain the post-construction stormwater management practice(s),
- c. for post-construction stormwater management practices that are privately owned, the *owner or operator* has a mechanism in place that requires operation and maintenance of the practice(s) in accordance with the operation and maintenance plan, such as a deed covenant in the *owner or operator's* deed of record,
- d. for post-construction stormwater management practices that are owned by a public or private institution (e.g. school, university, hospital), government agency or authority, or public utility; the *owner or operator* has policy and procedures in place that ensures operation and maintenance of the practices in accordance with the operation and maintenance plan.

## **Part VI. REPORTING AND RETENTION RECORDS**

### **A. Record Retention**

The *owner or operator* shall retain a copy of the NOI, NOI Acknowledgment Letter, SWPPP, MS4 SWPPP Acceptance form and any inspection reports that were prepared in conjunction with this permit for a period of at least five (5) years from the date that the Department receives a complete NOT submitted in accordance with Part V. of this general permit.

### **B. Addresses**

With the exception of the NOI, NOT, and MS4 SWPPP Acceptance form (which must be submitted to the address referenced in Part II.B.1 of this permit), all written correspondence requested by the Department, including individual permit applications, shall be sent to the address of the appropriate DOW Water (SPDES) Program contact at the Regional Office listed in Appendix F.

## **Part VII. STANDARD PERMIT CONDITIONS**

### **A. Duty to Comply**

The *owner or operator* must comply with all conditions of this permit. All contractors and subcontractors associated with the project must comply with the terms of the SWPPP. Any non-compliance with this permit constitutes a violation of the Clean Water

Act (CWA) and the ECL and is grounds for an enforcement action against the *owner or operator* and/or the contractor/subcontractor; permit revocation, suspension or modification; or denial of a permit renewal application. Upon a finding of significant non-compliance with this permit or the applicable SWPPP, the Department may order an immediate stop to all *construction activity* at the site until the non-compliance is remedied. The stop work order shall be in writing, shall describe the non-compliance in detail, and shall be sent to the *owner or operator*.

If any human remains or archaeological remains are encountered during excavation, the *owner or operator* must immediately cease, or cause to cease, all *construction activity* in the area of the remains and notify the appropriate Regional Water Engineer (RWE). *Construction activity* shall not resume until written permission to do so has been received from the RWE.

#### **B. Continuation of the Expired General Permit**

This permit expires five (5) years from the effective date. If a new general permit is not issued prior to the expiration of this general permit, an *owner or operator* with coverage under this permit may continue to operate and *discharge* in accordance with the terms and conditions of this general permit, if it is extended pursuant to the State Administrative Procedure Act and 6 NYCRR Part 621, until a new general permit is issued.

#### **C. Enforcement**

Failure of the *owner or operator*, its contractors, subcontractors, agents and/or assigns to strictly adhere to any of the permit requirements contained herein shall constitute a violation of this permit. There are substantial criminal, civil, and administrative penalties associated with violating the provisions of this permit. Fines of up to \$37,500 per day for each violation and imprisonment for up to fifteen (15) years may be assessed depending upon the nature and degree of the offense.

#### **D. Need to Halt or Reduce Activity Not a Defense**

It shall not be a defense for an *owner or operator* in an enforcement action that it would have been necessary to halt or reduce the *construction activity* in order to maintain compliance with the conditions of this permit.

### **E. Duty to Mitigate**

The *owner or operator* and its contractors and subcontractors shall take all reasonable steps to *minimize* or prevent any *discharge* in violation of this permit which has a reasonable likelihood of adversely affecting human health or the environment.

### **F. Duty to Provide Information**

The *owner or operator* shall furnish to the Department, within a reasonable specified time period of a written request, all documentation necessary to demonstrate eligibility and any information to determine compliance with this permit or to determine whether cause exists for modifying or revoking this permit, or suspending or denying coverage under this permit, in accordance with the terms and conditions of this permit. The NOI, SWPPP and inspection reports required by this permit are public documents that the *owner or operator* must make available for review and copying by any person within five (5) business days of the *owner or operator* receiving a written request by any such person to review these documents. Copying of documents will be done at the requester's expense.

### **G. Other Information**

When the *owner or operator* becomes aware that they failed to submit any relevant facts, or submitted incorrect information in the NOI or in any of the documents required by this permit, or have made substantive revisions to the SWPPP (e.g. the scope of the project changes significantly, the type of post-construction stormwater management practice(s) changes, there is a reduction in the sizing of the post-construction stormwater management practice, or there is an increase in the disturbance area or *impervious area*), which were not reflected in the original NOI submitted to the Department, they shall promptly submit such facts or information to the Department using the contact information in Part II.A. of this permit. Failure of the *owner or operator* to correct or supplement any relevant facts within five (5) business days of becoming aware of the deficiency shall constitute a violation of this permit.

### **H. Signatory Requirements**

1. All NOIs and NOTs shall be signed as follows:
  - a. For a corporation these forms shall be signed by a responsible corporate officer. For the purpose of this section, a responsible corporate officer means:



- (i) a president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision-making functions for the corporation; or
    - (ii) the manager of one or more manufacturing, production or operating facilities, provided the manager is authorized to make management decisions which govern the operation of the regulated facility including having the explicit or implicit duty of making major capital investment recommendations, and initiating and directing other comprehensive measures to assure long term environmental compliance with environmental laws and regulations; the manager can ensure that the necessary systems are established or actions taken to gather complete and accurate information for permit application requirements; and where authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures;
  - b. For a partnership or sole proprietorship these forms shall be signed by a general partner or the proprietor, respectively; or
  - c. For a municipality, State, Federal, or other public agency these forms shall be signed by either a principal executive officer or ranking elected official. For purposes of this section, a principal executive officer of a Federal agency includes:
    - (i) the chief executive officer of the agency, or
    - (ii) a senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency (e.g., Regional Administrators of EPA).
2. The SWPPP and other information requested by the Department shall be signed by a person described in Part VII.H.1. of this permit or by a duly authorized representative of that person. A person is a duly authorized representative only if:
- a. The authorization is made in writing by a person described in Part VII.H.1. of this permit;
  - b. The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity, such as the position of plant manager, operator of a well or a well field,

superintendent, position of *equivalent* responsibility, or an individual or position having overall responsibility for environmental matters for the company. (A duly authorized representative may thus be either a named individual or any individual occupying a named position) and,

- c. The written authorization shall include the name, title and signature of the authorized representative and be attached to the SWPPP.
3. All inspection reports shall be signed by the *qualified inspector* that performs the inspection.
4. The MS4 SWPPP Acceptance form shall be signed by the principal executive officer or ranking elected official from the *regulated, traditional land use control MS4*, or by a duly authorized representative of that person.

It shall constitute a permit violation if an incorrect and/or improper signatory authorizes any required forms, SWPPP and/or inspection reports.

## **I. Property Rights**

The issuance of this permit does not convey any property rights of any sort, nor any exclusive privileges, nor does it authorize any injury to private property nor any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations. *Owners or operators* must obtain any applicable conveyances, easements, licenses and/or access to real property prior to *commencing construction activity*.

## **J. Severability**

The provisions of this permit are severable, and if any provision of this permit, or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this permit shall not be affected thereby.

## **K. Requirement to Obtain Coverage Under an Alternative Permit**

1. The Department may require any owner or operator authorized by this permit to apply for and/or obtain either an individual SPDES permit or another SPDES general permit. When the Department requires any discharger authorized by a general permit to apply for an individual SPDES permit, it shall notify the discharger in writing that a permit application is required. This notice shall

include a brief statement of the reasons for this decision, an application form, a statement setting a time frame for the owner or operator to file the application for an individual SPDES permit, and a deadline, not sooner than 180 days from owner or operator receipt of the notification letter, whereby the authorization to discharge under this general permit shall be terminated. Applications must be submitted to the appropriate Permit Administrator at the Regional Office. The Department may grant additional time upon demonstration, to the satisfaction of the Department, that additional time to apply for an alternative authorization is necessary or where the Department has not provided a permit determination in accordance with Part 621 of this Title.

2. When an individual SPDES permit is issued to a discharger authorized to *discharge* under a general SPDES permit for the same *discharge(s)*, the general permit authorization for outfalls authorized under the individual SPDES permit is automatically terminated on the effective date of the individual permit unless termination is earlier in accordance with 6 NYCRR Part 750.

#### **L. Proper Operation and Maintenance**

The *owner or operator* shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the *owner or operator* to achieve compliance with the conditions of this permit and with the requirements of the SWPPP.

#### **M. Inspection and Entry**

The *owner or operator* shall allow an authorized representative of the Department, EPA, applicable county health department, or, in the case of a *construction site* which *discharges* through an *MS4*, an authorized representative of the *MS4* receiving the discharge, upon the presentation of credentials and other documents as may be required by law, to:

1. Enter upon the owner's or operator's premises where a regulated facility or activity is located or conducted or where records must be kept under the conditions of this permit;
2. Have access to and copy at reasonable times, any records that must be kept under the conditions of this permit; and

3. Inspect at reasonable times any facilities or equipment (including monitoring and control equipment), practices or operations regulated or required by this permit.
4. Sample or monitor at reasonable times, for purposes of assuring permit compliance or as otherwise authorized by the Act or ECL, any substances or parameters at any location.

## **N. Permit Actions**

This permit may, at any time, be modified, suspended, revoked, or renewed by the Department in accordance with 6 NYCRR Part 621. The filing of a request by the *owner or operator* for a permit modification, revocation and reissuance, termination, a notification of planned changes or anticipated noncompliance does not limit, diminish and/or stay compliance with any terms of this permit.

## **O. Definitions**

Definitions of key terms are included in Appendix A of this permit.

## **P. Re-Opener Clause**

1. If there is evidence indicating potential or realized impacts on water quality due to any stormwater discharge associated with construction activity covered by this permit, the owner or operator of such discharge may be required to obtain an individual permit or alternative general permit in accordance with Part VII.K. of this permit or the permit may be modified to include different limitations and/or requirements.
2. Any Department initiated permit modification, suspension or revocation will be conducted in accordance with 6 NYCRR Part 621, 6 NYCRR 750-1.18, and 6 NYCRR 750-1.20.

## **Q. Penalties for Falsification of Forms and Reports**

In accordance with 6NYCRR Part 750-2.4 and 750-2.5, any person who knowingly makes any false material statement, representation, or certification in any application, record, report or other document filed or required to be maintained under this permit, including reports of compliance or noncompliance shall, upon conviction, be punished in accordance with ECL §71-1933 and or Articles 175 and 210 of the New York State Penal Law.

## **R. Other Permits**

Nothing in this permit relieves the *owner or operator* from a requirement to obtain any other permits required by law.



## **APPENDIX A – Acronyms and Definitions**

### **Acronyms**

APO – Agency Preservation Officer  
BMP – Best Management Practice  
CPESC – Certified Professional in Erosion and Sediment Control  
Cpv – Channel Protection Volume  
CWA – Clean Water Act (or the Federal Water Pollution Control Act, 33 U.S.C. §1251 et seq)  
DOW – Division of Water  
EAF – Environmental Assessment Form  
ECL - Environmental Conservation Law  
EPA – U. S. Environmental Protection Agency  
HSG – Hydrologic Soil Group  
MS4 – Municipal Separate Storm Sewer System  
NOI – Notice of Intent  
NOT – Notice of Termination  
NPDES – National Pollutant Discharge Elimination System  
OPRHP – Office of Parks, Recreation and Historic Places  
Qf – Extreme Flood  
Qp – Overbank Flood  
RRv – Runoff Reduction Volume  
RWE – Regional Water Engineer  
SEQR – State Environmental Quality Review  
SEQRA - State Environmental Quality Review Act  
SHPA – State Historic Preservation Act  
SPDES – State Pollutant Discharge Elimination System  
SWPPP – Stormwater Pollution Prevention Plan  
TMDL – Total Maximum Daily Load  
UPA – Uniform Procedures Act  
USDA – United States Department of Agriculture  
WQv – Water Quality Volume

## Definitions

All definitions in this section are solely for the purposes of this permit.

**Agricultural Building** – a structure designed and constructed to house farm implements, hay, grain, poultry, livestock or other horticultural products; excluding any structure designed, constructed or used, in whole or in part, for human habitation, as a place of employment where agricultural products are processed, treated or packaged, or as a place used by the public.

**Agricultural Property** – means the land for construction of a barn, *agricultural building*, silo, stockyard, pen or other structural practices identified in Table II in the “Agricultural Management Practices Catalog for Nonpoint Source Pollution in New York State” prepared by the Department in cooperation with agencies of New York Nonpoint Source Coordinating Committee (dated June 2007).

**Alter Hydrology from Pre to Post-Development Conditions** - means the post-development peak flow rate(s) has increased by more than 5% of the pre-developed condition for the design storm of interest (e.g. 10 yr and 100 yr).

**Combined Sewer** - means a sewer that is designed to collect and convey both “sewage” and “stormwater”.

**Commence (Commencement of) Construction Activities** - means the initial disturbance of soils associated with clearing, grading or excavation activities; or other construction related activities that disturb or expose soils such as demolition, stockpiling of fill material, and the initial installation of erosion and sediment control practices required in the SWPPP. See definition for “*Construction Activity(ies)*” also.

**Construction Activity(ies)** - means any clearing, grading, excavation, filling, demolition or stockpiling activities that result in soil disturbance. Clearing activities can include, but are not limited to, logging equipment operation, the cutting and skidding of trees, stump removal and/or brush root removal. Construction activity does not include routine maintenance that is performed to maintain the original line and grade, hydraulic capacity, or original purpose of a facility.

**Construction Site** – means the land area where *construction activity(ies)* will occur. See definition for “*Commence (Commencement of) Construction Activities*” and “*Larger Common Plan of Development or Sale*” also.

**Dewatering** – means the act of draining rainwater and/or groundwater from building foundations, vaults or excavations/trenches.

**Direct Discharge (to a specific surface waterbody)** - means that runoff flows from a *construction site* by overland flow and the first point of discharge is the specific surface waterbody, or runoff flows from a *construction site* to a separate storm sewer system

and the first point of discharge from the separate storm sewer system is the specific surface waterbody.

**Discharge(s)** - means any addition of any pollutant to waters of the State through an outlet or *point source*.

**Embankment** – means an earthen or rock slope that supports a road/highway.

**Endangered or Threatened Species** – see 6 NYCRR Part 182 of the Department’s rules and regulations for definition of terms and requirements.

**Environmental Conservation Law (ECL)** - means chapter 43-B of the Consolidated Laws of the State of New York, entitled the Environmental Conservation Law.

**Equivalent (Equivalence)** – means that the practice or measure meets all the performance, longevity, maintenance, and safety objectives of the technical standard and will provide an equal or greater degree of water quality protection.

**Final Stabilization** - means that all soil disturbance activities have ceased and a uniform, perennial vegetative cover with a density of eighty (80) percent over the entire pervious surface has been established; or other equivalent stabilization measures, such as permanent landscape mulches, rock rip-rap or washed/crushed stone have been applied on all disturbed areas that are not covered by permanent structures, concrete or pavement.

**General SPDES permit** - means a SPDES permit issued pursuant to 6 NYCRR Part 750-1.21 and Section 70-0117 of the ECL authorizing a category of discharges.

**Groundwater(s)** - means waters in the saturated zone. The saturated zone is a subsurface zone in which all the interstices are filled with water under pressure greater than that of the atmosphere. Although the zone may contain gas-filled interstices or interstices filled with fluids other than water, it is still considered saturated.

**Historic Property** – means any building, structure, site, object or district that is listed on the State or National Registers of Historic Places or is determined to be eligible for listing on the State or National Registers of Historic Places.

**Impervious Area (Cover)** - means all impermeable surfaces that cannot effectively infiltrate rainfall. This includes paved, concrete and gravel surfaces (i.e. parking lots, driveways, roads, runways and sidewalks); building rooftops and miscellaneous impermeable structures such as patios, pools, and sheds.

**Infeasible** – means not technologically possible, or not economically practicable and achievable in light of best industry practices.

**Larger Common Plan of Development or Sale** - means a contiguous area where multiple separate and distinct *construction activities* are occurring, or will occur, under one plan. The term “plan” in “larger common plan of development or sale” is broadly defined as any announcement or piece of documentation (including a sign, public notice or hearing, marketing plan, advertisement, drawing, permit application, State Environmental Quality Review Act (SEQRA) environmental assessment form or other documents, zoning request, computer design, etc.) or physical demarcation (including boundary signs, lot stakes, surveyor markings, etc.) indicating that *construction activities* may occur on a specific plot.

For discrete construction projects that are located within a larger common plan of development or sale that are at least 1/4 mile apart, each project can be treated as a separate plan of development or sale provided any interconnecting road, pipeline or utility project that is part of the same “common plan” is not concurrently being disturbed.

**Minimize** – means reduce and/or eliminate to the extent achievable using control measures (including best management practices) that are technologically available and economically practicable and achievable in light of best industry practices.

**Municipal Separate Storm Sewer (MS4)** - a conveyance or system of conveyances (including roads with drainage systems, municipal streets, catch basins, curbs, gutters, ditches, man-made channels, or storm drains):

- (i) Owned or operated by a State, city, town, borough, county, parish, district, association, or other public body (created by or pursuant to State law) having jurisdiction over disposal of sewage, industrial wastes, stormwater, or other wastes, including special districts under State law such as a sewer district, flood control district or drainage district, or similar entity, or an Indian tribe or an authorized Indian tribal organization, or a designated and approved management agency under section 208 of the CWA that discharges to surface waters of the State;
- (ii) Designed or used for collecting or conveying stormwater;
- (iii) Which is not a *combined sewer*; and
- (iv) Which is not part of a Publicly Owned Treatment Works (POTW) as defined at 40 CFR 122.2.

**National Pollutant Discharge Elimination System (NPDES)** - means the national system for the issuance of wastewater and stormwater permits under the Federal Water Pollution Control Act (Clean Water Act).

**Natural Buffer** – means an undisturbed area with natural cover running along a surface water (e.g. wetland, stream, river, lake, etc.).

**New Development** – means any land disturbance that does not meet the definition of Redevelopment Activity included in this appendix.

**New York State Erosion and Sediment Control Certificate Program** – a certificate program that establishes and maintains a process to identify and recognize individuals who are capable of developing, designing, inspecting and maintaining erosion and sediment control plans on projects that disturb soils in New York State. The certificate program is administered by the New York State Conservation District Employees Association.

**NOI Acknowledgment Letter** - means the letter that the Department sends to an owner or operator to acknowledge the Department's receipt and acceptance of a complete Notice of Intent. This letter documents the owner's or operator's authorization to discharge in accordance with the general permit for stormwater discharges from *construction activity*.

**Nonpoint Source** - means any source of water pollution or pollutants which is not a discrete conveyance or *point source* permitted pursuant to Title 7 or 8 of Article 17 of the Environmental Conservation Law (see ECL Section 17-1403).

**Overbank** –means flow events that exceed the capacity of the stream channel and spill out into the adjacent floodplain.

**Owner or Operator** - means the person, persons or legal entity which owns or leases the property on which the *construction activity* is occurring; an entity that has operational control over the construction plans and specifications, including the ability to make modifications to the plans and specifications; and/or an entity that has day-to-day operational control of those activities at a project that are necessary to ensure compliance with the permit conditions.

**Performance Criteria** – means the design criteria listed under the “Required Elements” sections in Chapters 5, 6 and 10 of the technical standard, New York State Stormwater Management Design Manual, dated January 2015. It does not include the Sizing Criteria (i.e. WQv, RRv, Cpv, Qp and Qf ) in Part I.C.2. of the permit.

**Point Source** - means any discernible, confined and discrete conveyance, including but not limited to any pipe, ditch, channel, tunnel, conduit, well, discrete fissure, container, rolling stock, concentrated animal feeding operation, vessel or other floating craft, or landfill leachate collection system from which *pollutants* are or may be discharged.

**Pollutant** - means dredged spoil, filter backwash, solid waste, incinerator residue, sewage, garbage, sewage sludge, munitions, chemical wastes, biological materials, radioactive materials, heat, wrecked or discarded equipment, rock, sand and industrial, municipal, agricultural waste and ballast discharged into water; which may cause or might reasonably be expected to cause pollution of the waters of the state in contravention of the standards or guidance values adopted as provided in 6 NYCRR Parts 700 et seq .



**Qualified Inspector** - means a person that is knowledgeable in the principles and practices of erosion and sediment control, such as a licensed Professional Engineer, Certified Professional in Erosion and Sediment Control (CPESC), Registered Landscape Architect, New York State Erosion and Sediment Control Certificate Program holder or other Department endorsed individual(s).

It can also mean someone working under the direct supervision of, and at the same company as, the licensed Professional Engineer or Registered Landscape Architect, provided that person has training in the principles and practices of erosion and sediment control. Training in the principles and practices of erosion and sediment control means that the individual working under the direct supervision of the licensed Professional Engineer or Registered Landscape Architect has received four (4) hours of Department endorsed training in proper erosion and sediment control principles from a Soil and Water Conservation District, or other Department endorsed entity. After receiving the initial training, the individual working under the direct supervision of the licensed Professional Engineer or Registered Landscape Architect shall receive four (4) hours of training every three (3) years.

It can also mean a person that meets the *Qualified Professional* qualifications in addition to the *Qualified Inspector* qualifications.

Note: Inspections of any post-construction stormwater management practices that include structural components, such as a dam for an impoundment, shall be performed by a licensed Professional Engineer.

**Qualified Professional** - means a person that is knowledgeable in the principles and practices of stormwater management and treatment, such as a licensed Professional Engineer, Registered Landscape Architect or other Department endorsed individual(s). Individuals preparing SWPPPs that require the post-construction stormwater management practice component must have an understanding of the principles of hydrology, water quality management practice design, water quantity control design, and, in many cases, the principles of hydraulics. All components of the SWPPP that involve the practice of engineering, as defined by the NYS Education Law (see Article 145), shall be prepared by, or under the direct supervision of, a professional engineer licensed to practice in the State of New York.

**Redevelopment Activity(ies)** – means the disturbance and reconstruction of existing impervious area, including impervious areas that were removed from a project site within five (5) years of preliminary project plan submission to the local government (i.e. site plan, subdivision, etc.).

**Regulated, Traditional Land Use Control MS4** - means a city, town or village with land use control authority that is authorized to discharge under New York State DEC's

SPDES General Permit For Stormwater Discharges from Municipal Separate Stormwater Sewer Systems (MS4s) or the City of New York's Individual SPDES Permit for their Municipal Separate Storm Sewer Systems (NY-0287890).

**Routine Maintenance Activity** - means *construction activity* that is performed to maintain the original line and grade, hydraulic capacity, or original purpose of a facility, including, but not limited to:

- Re-grading of gravel roads or parking lots,
- Cleaning and shaping of existing roadside ditches and culverts that maintains the approximate original line and grade, and hydraulic capacity of the ditch,
- Cleaning and shaping of existing roadside ditches that does not maintain the approximate original grade, hydraulic capacity and purpose of the ditch if the changes to the line and grade, hydraulic capacity or purpose of the ditch are installed to improve water quality and quantity controls (e.g. installing grass lined ditch),
- Placement of aggregate shoulder backing that stabilizes the transition between the road shoulder and the ditch or *embankment*,
- Full depth milling and filling of existing asphalt pavements, replacement of concrete pavement slabs, and similar work that does not expose soil or disturb the bottom six (6) inches of subbase material,
- Long-term use of equipment storage areas at or near highway maintenance facilities,
- Removal of sediment from the edge of the highway to restore a previously existing sheet-flow drainage connection from the highway surface to the highway ditch or *embankment*,
- Existing use of Canal Corp owned upland disposal sites for the canal, and
- Replacement of curbs, gutters, sidewalks and guide rail posts.

**Site limitations** – means site conditions that prevent the use of an infiltration technique and or infiltration of the total WQv. Typical site limitations include: seasonal high groundwater, shallow depth to bedrock, and soils with an infiltration rate less than 0.5 inches/hour. The existence of site limitations shall be confirmed and documented using actual field testing (i.e. test pits, soil borings, and infiltration test) or using information from the most current United States Department of Agriculture (USDA) Soil Survey for the County where the project is located.

**Sizing Criteria** – means the criteria included in Part I.C.2 of the permit that are used to size post-construction stormwater management control practices. The criteria include; Water Quality Volume (WQv), Runoff Reduction Volume (RRv), Channel Protection Volume (Cpv), *Overbank Flood* (Qp), and *Extreme Flood* (Qf).

**State Pollutant Discharge Elimination System (SPDES)** - means the system established pursuant to Article 17 of the ECL and 6 NYCRR Part 750 for issuance of permits authorizing discharges to the waters of the state.

**Steep Slope** – means land area designated on the current United States Department of Agriculture (“USDA”) Soil Survey as Soil Slope Phase “D”, (provided the map unit name is inclusive of slopes greater than 25%) , or Soil Slope Phase E or F, (regardless of the map unit name), or a combination of the three designations.

**Streambank** – as used in this permit, means the terrain alongside the bed of a creek or stream. The bank consists of the sides of the channel, between which the flow is confined.

**Stormwater Pollution Prevention Plan (SWPPP)** – means a project specific report, including construction drawings, that among other things: describes the construction activity(ies), identifies the potential sources of pollution at the *construction site*; describes and shows the stormwater controls that will be used to control the pollutants (i.e. erosion and sediment controls; for many projects, includes post-construction stormwater management controls); and identifies procedures the *owner or operator* will implement to comply with the terms and conditions of the permit. See Part III of the permit for a complete description of the information that must be included in the SWPPP.

**Surface Waters of the State** - shall be construed to include lakes, bays, sounds, ponds, impounding reservoirs, springs, rivers, streams, creeks, estuaries, marshes, inlets, canals, the Atlantic ocean within the territorial seas of the state of New York and all other bodies of surface water, natural or artificial, inland or coastal, fresh or salt, public or private (except those private waters that do not combine or effect a junction with natural surface waters), which are wholly or partially within or bordering the state or within its jurisdiction. Waters of the state are further defined in 6 NYCRR Parts 800 to 941.

**Temporarily Ceased** – means that an existing disturbed area will not be disturbed again within 14 calendar days of the previous soil disturbance.

**Temporary Stabilization** - means that exposed soil has been covered with material(s) as set forth in the technical standard, New York Standards and Specifications for Erosion and Sediment Control, to prevent the exposed soil from eroding. The materials can include, but are not limited to, mulch, seed and mulch, and erosion control mats (e.g. jute twisted yarn, excelsior wood fiber mats).

**Total Maximum Daily Loads (TMDLs)** - A TMDL is the sum of the allowable loads of a single pollutant from all contributing point and *nonpoint sources*. It is a calculation of the maximum amount of a pollutant that a waterbody can receive on a daily basis and still meet *water quality standards*, and an allocation of that amount to the pollutant's sources. A TMDL stipulates wasteload allocations (WLAs) for *point source* discharges, load allocations (LAs) for *nonpoint sources*, and a margin of safety (MOS).

**Trained Contractor** - means an employee from the contracting (construction) company, identified in Part III.A.6., that has received four (4) hours of Department endorsed

training in proper erosion and sediment control principles from a Soil and Water Conservation District, or other Department endorsed entity. After receiving the initial training, the *trained contractor* shall receive four (4) hours of training every three (3) years.

It can also mean an employee from the contracting (construction) company, identified in Part III.A.6., that meets the *qualified inspector* qualifications (e.g. licensed Professional Engineer, Certified Professional in Erosion and Sediment Control (CPESC), Registered Landscape Architect, New York State Erosion and Sediment Control Certificate Program holder, or someone working under the direct supervision of, and at the same company as, the licensed Professional Engineer or Registered Landscape Architect, provided they have received four (4) hours of Department endorsed training in proper erosion and sediment control principles from a Soil and Water Conservation District, or other Department endorsed entity).

The *trained contractor* is responsible for the day to day implementation of the SWPPP.

**Uniform Procedures Act (UPA) Permit** - means a permit required under 6 NYCRR Part 621 of the Environmental Conservation Law (ECL), Article 70.

**Water Quality Standard** - means such measures of purity or quality for any waters in relation to their reasonable and necessary use as promulgated in 6 NYCRR Part 700 et seq.

## APPENDIX B – Required SWPPP Components by Project Type

**Table 1**  
**Construction Activities that Require the Preparation of a SWPPP That Only**  
**Includes Erosion and Sediment Controls**

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>The following construction activities that involve soil disturbances of one (1) or more acres of land, but less than five (5) acres:</b></p> <ul style="list-style-type: none"><li>• Single family home <u>not</u> located in one of the watersheds listed in Appendix C or <u>not directly discharging</u> to one of the 303(d) segments listed in Appendix E</li><li>• Single family residential subdivisions with 25% or less impervious cover at total site build-out and <u>not</u> located in one of the watersheds listed in Appendix C and <u>not</u> directly discharging to one of the 303(d) segments listed in Appendix E</li><li>• Construction of a barn or other <i>agricultural building</i>, silo, stock yard or pen.</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <p><b>The following construction activities that involve soil disturbances between five thousand (5000) square feet and one (1) acre of land:</b></p> <p>All construction activities located in the watersheds identified in Appendix D that involve soil disturbances between five thousand (5,000) square feet and one (1) acre of land.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <p><b>The following construction activities that involve soil disturbances of one (1) or more acres of land:</b></p> <ul style="list-style-type: none"><li>• Installation of underground, linear utilities; such as gas lines, fiber-optic cable, cable TV, electric, telephone, sewer mains, and water mains</li><li>• Environmental enhancement projects, such as wetland mitigation projects, stormwater retrofits and stream restoration projects</li><li>• Pond construction</li><li>• Linear bike paths running through areas with vegetative cover, including bike paths surfaced with an impervious cover</li><li>• Cross-country ski trails and walking/hiking trails</li><li>• Sidewalk, bike path or walking path projects, surfaced with an impervious cover, that are not part of residential, commercial or institutional development;</li><li>• Sidewalk, bike path or walking path projects, surfaced with an impervious cover, that include incidental shoulder or curb work along an existing highway to support construction of the sidewalk, bike path or walking path.</li><li>• Slope stabilization projects</li><li>• Slope flattening that changes the grade of the site, but does not significantly change the runoff characteristics</li></ul> |



**Table 1 (Continued) CONSTRUCTION ACTIVITIES THAT REQUIRE THE PREPARATION OF A SWPPP  
THAT ONLY INCLUDES EROSION AND SEDIMENT CONTROLS**

**The following construction activities that involve soil disturbances of one (1) or more acres of land:**

- Spoil areas that will be covered with vegetation
- Vegetated open space projects (i.e. recreational parks, lawns, meadows, fields, downhill ski trails) excluding projects that *alter hydrology from pre to post development* conditions,
- Athletic fields (natural grass) that do not include the construction or reconstruction of *impervious area* and do not *alter hydrology from pre to post development* conditions
- Demolition project where vegetation will be established, and no redevelopment is planned
- Overhead electric transmission line project that does not include the construction of permanent access roads or parking areas surfaced with *impervious cover*
- Structural practices as identified in Table II in the “Agricultural Management Practices Catalog for Nonpoint Source Pollution in New York State”, excluding projects that involve soil disturbances of greater than five acres and construction activities that include the construction or reconstruction of impervious area
- Temporary access roads, median crossovers, detour roads, lanes, or other temporary impervious areas that will be restored to pre-construction conditions once the construction activity is complete

**Table 2**  
**CONSTRUCTION ACTIVITIES THAT REQUIRE THE PREPARATION OF A SWPPP THAT INCLUDES**  
**POST-CONSTRUCTION STORMWATER MANAGEMENT PRACTICES**

**The following construction activities that involve soil disturbances of one (1) or more acres of land:**

- Single family home located in one of the watersheds listed in Appendix C or *directly discharging* to one of the 303(d) segments listed in Appendix E
- Single family home that disturbs five (5) or more acres of land
- Single family residential subdivisions located in one of the watersheds listed in Appendix C or *directly discharging* to one of the 303(d) segments listed in Appendix E
- Single family residential subdivisions that involve soil disturbances of between one (1) and five (5) acres of land with greater than 25% impervious cover at total site build-out
- Single family residential subdivisions that involve soil disturbances of five (5) or more acres of land, and single family residential subdivisions that involve soil disturbances of less than five (5) acres that are part of a larger common plan of development or sale that will ultimately disturb five or more acres of land
- Multi-family residential developments; includes duplexes, townhomes, condominiums, senior housing complexes, apartment complexes, and mobile home parks
- Airports
- Amusement parks
- Breweries, cideries, and wineries, including establishments constructed on agricultural land
- Campgrounds
- Cemeteries that include the construction or reconstruction of impervious area (>5% of disturbed area) or *alter the hydrology from pre to post development conditions*
- Commercial developments
- Churches and other places of worship
- Construction of a barn or other *agricultural building* (e.g. silo) and structural practices as identified in Table II in the "Agricultural Management Practices Catalog for Nonpoint Source Pollution in New York State" that include the construction or reconstruction of *impervious area*, excluding projects that involve soil disturbances of less than five acres.
- Golf courses
- Institutional development; includes hospitals, prisons, schools and colleges
- Industrial facilities; includes industrial parks
- Landfills
- Municipal facilities; includes highway garages, transfer stations, office buildings, POTW's, water treatment plants, and water storage tanks
- Office complexes
- Playgrounds that include the construction or reconstruction of impervious area
- Sports complexes
- Racetracks; includes racetracks with earthen (dirt) surface
- Road construction or reconstruction, including roads constructed as part of the construction activities listed in Table 1

Table 2 (Continued)

**CONSTRUCTION ACTIVITIES THAT REQUIRE THE PREPARATION OF A SWPPP THAT INCLUDES  
POST-CONSTRUCTION STORMWATER MANAGEMENT PRACTICES**

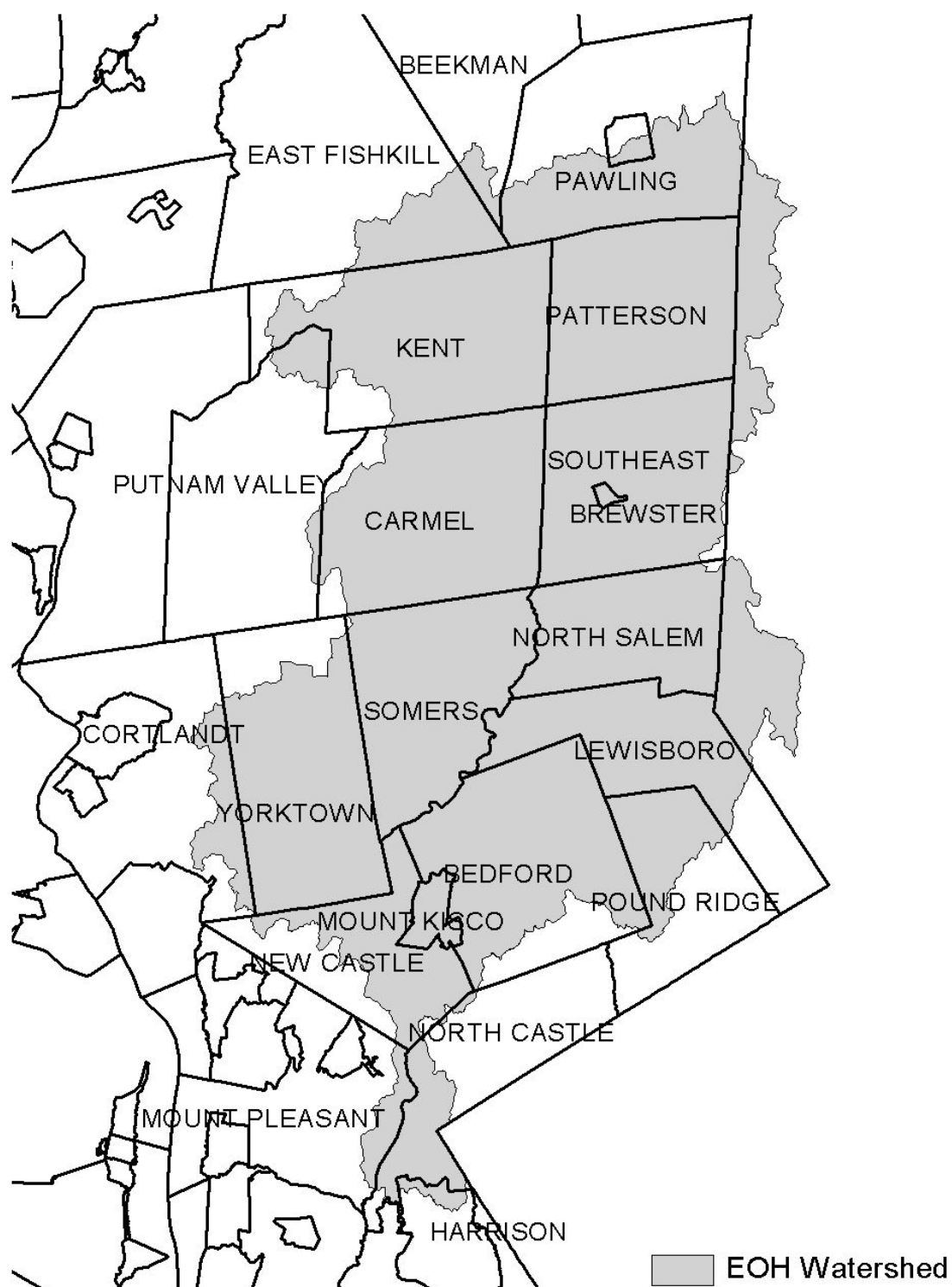
**The following construction activities that involve soil disturbances of one (1) or more acres of land:**

- Parking lot construction or reconstruction, including parking lots constructed as part of the construction activities listed in Table 1
- Athletic fields (natural grass) that include the construction or reconstruction of impervious area (>5% of disturbed area) or *alter the hydrology from pre to post development* conditions
- Athletic fields with artificial turf
- Permanent access roads, parking areas, substations, compressor stations and well drilling pads, surfaced with *impervious cover*, and constructed as part of an over-head electric transmission line project, wind-power project, cell tower project, oil or gas well drilling project, sewer or water main project or other linear utility project
- Sidewalk, bike path or walking path projects, surfaced with an impervious cover, that are part of a residential, commercial or institutional development
- Sidewalk, bike path or walking path projects, surfaced with an impervious cover, that are part of a highway construction or reconstruction project
- All other construction activities that include the construction or reconstruction of *impervious area* or *alter the hydrology from pre to post development* conditions, and are not listed in Table 1

## APPENDIX C – Watersheds Requiring Enhanced Phosphorus Removal

Watersheds where *owners or operators* of construction activities identified in Table 2 of Appendix B must prepare a SWPPP that includes post-construction stormwater management practices designed in conformance with the Enhanced Phosphorus Removal Standards included in the technical standard, New York State Stormwater Management Design Manual (“Design Manual”).

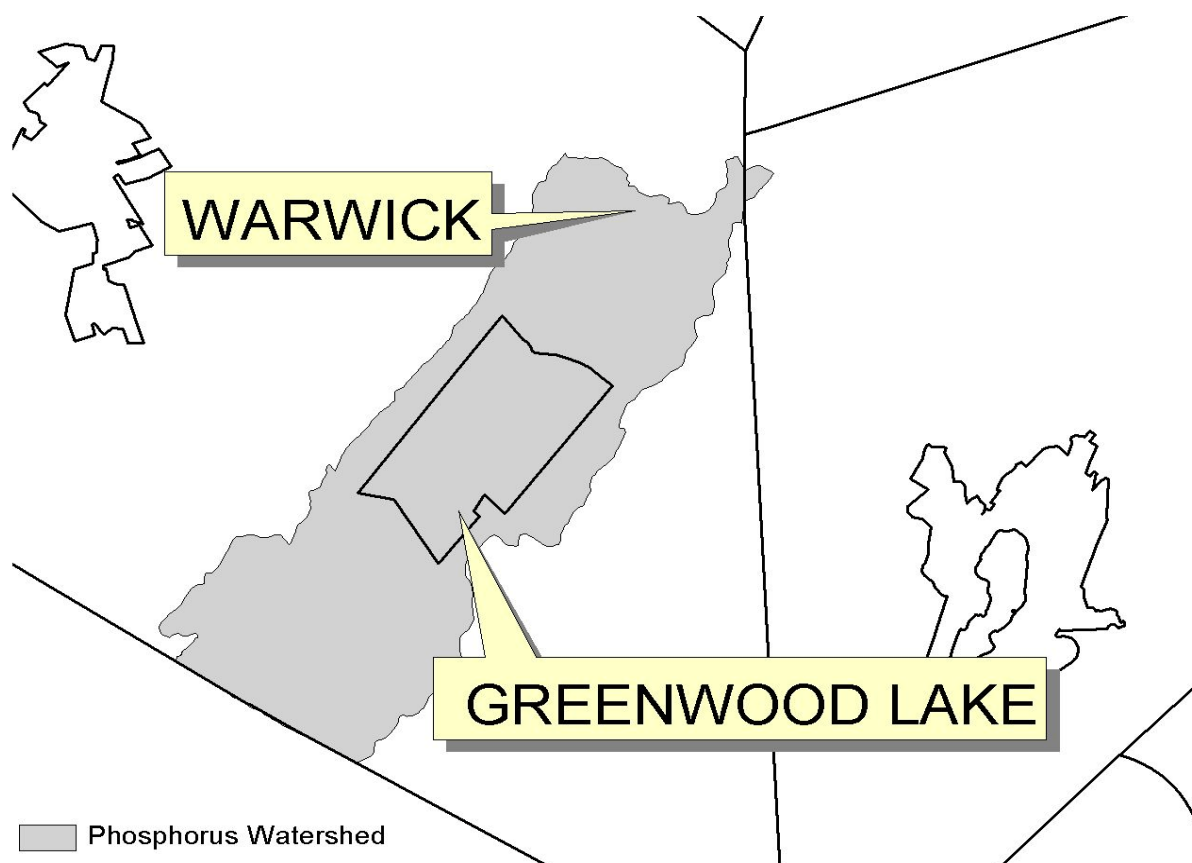
- Entire New York City Watershed located east of the Hudson River - Figure 1
- Onondaga Lake Watershed - Figure 2
- Greenwood Lake Watershed -Figure 3
- Oscawana Lake Watershed – Figure 4
- Kinderhook Lake Watershed – Figure 5

**Figure 1 - New York City Watershed East of the Hudson**

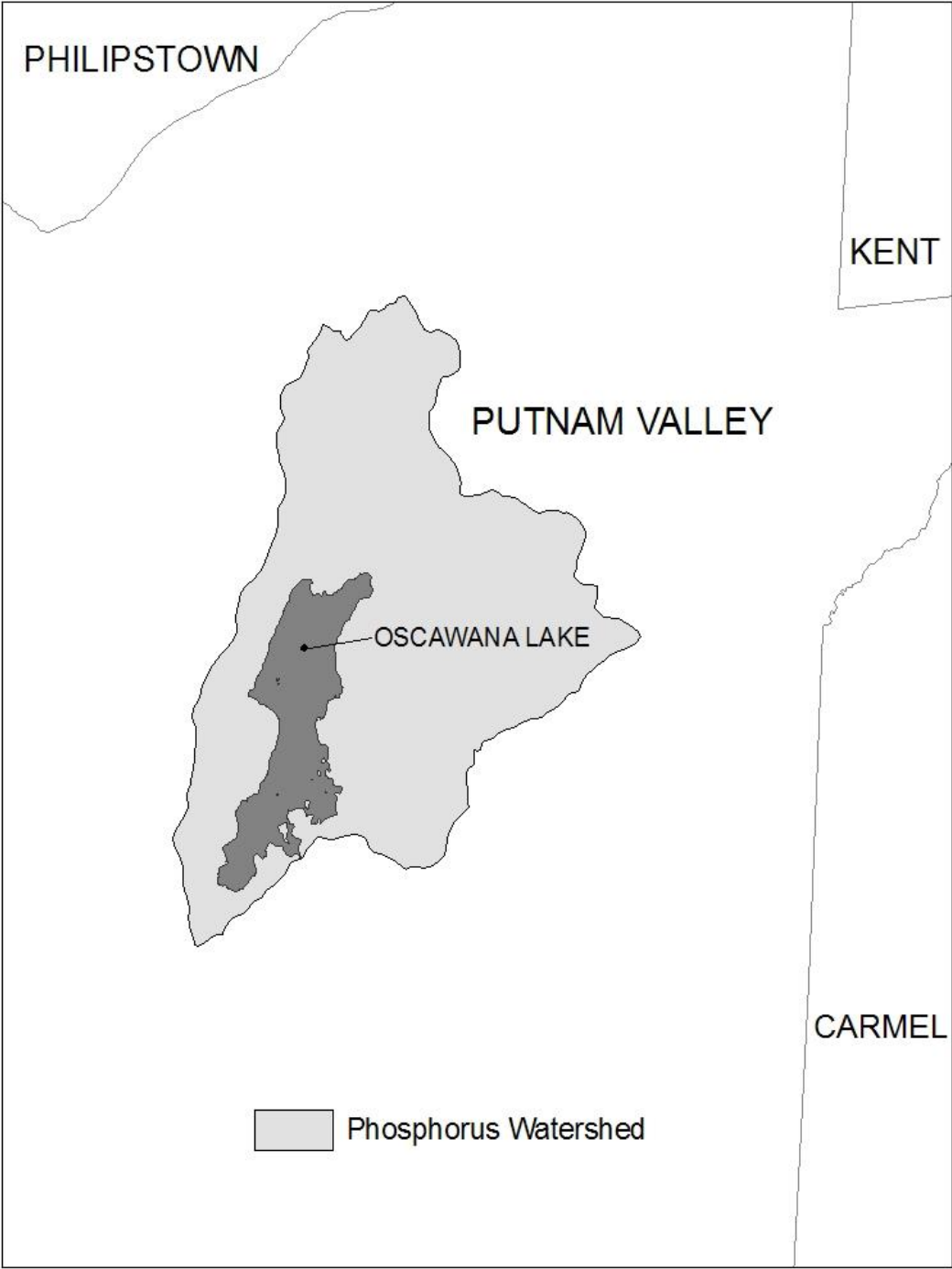


**Figure 2 - Onondaga Lake Watershed**

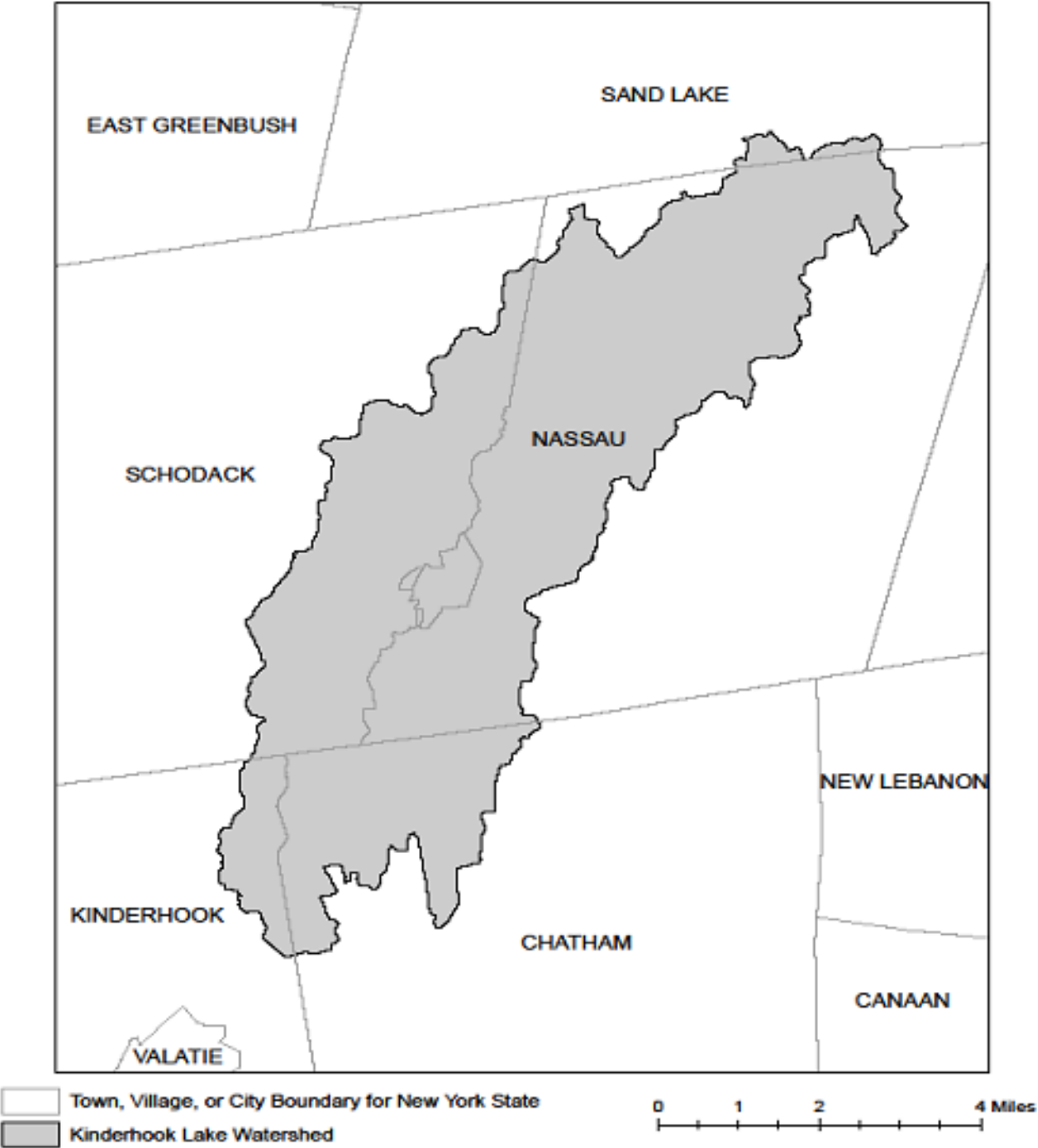
**Figure 3 - Greenwood Lake Watershed**



**Figure 4 - Oscawana Lake Watershed**



**Figure 5 - Kinderhook Lake Watershed**



## **APPENDIX D – Watersheds with Lower Disturbance Threshold**

**Watersheds where *owners or operators* of construction activities that involve soil disturbances between five thousand (5000) square feet and one (1) acre of land must obtain coverage under this permit.**

|                                                                                                      |
|------------------------------------------------------------------------------------------------------|
| Entire New York City Watershed that is located east of the Hudson River - See Figure 1 in Appendix C |
|------------------------------------------------------------------------------------------------------|



## APPENDIX E – 303(d) Segments Impaired by Construction Related Pollutant(s)

List of 303(d) segments impaired by pollutants related to *construction activity* (e.g. silt, sediment or nutrients). The list was developed using "The Final New York State 2016 Section 303(d) List of Impaired Waters Requiring a TMDL/Other Strategy" dated November 2016. *Owners or operators* of single family home and single family residential subdivisions with 25% or less total impervious cover at total site build-out that involve soil disturbances of one or more acres of land, but less than 5 acres, and *directly discharge* to one of the listed segments below shall prepare a SWPPP that includes post-construction stormwater management practices designed in conformance with the New York State Stormwater Management Design Manual ("Design Manual"), dated January 2015.

| COUNTY      | WATERBODY                                | POLLUTANT     |
|-------------|------------------------------------------|---------------|
| Albany      | Ann Lee (Shakers) Pond, Stump Pond       | Nutrients     |
| Albany      | Basic Creek Reservoir                    | Nutrients     |
| Allegany    | Amity Lake, Saunders Pond                | Nutrients     |
| Bronx       | Long Island Sound, Bronx                 | Nutrients     |
| Bronx       | Van Cortlandt Lake                       | Nutrients     |
| Broome      | Fly Pond, Deer Lake, Sky Lake            | Nutrients     |
| Broome      | Minor Tribs to Lower Susquehanna (north) | Nutrients     |
| Broome      | Whitney Point Lake/Reservoir             | Nutrients     |
| Cattaraugus | Allegheny River/Reservoir                | Nutrients     |
| Cattaraugus | Beaver (Alma) Lake                       | Nutrients     |
| Cattaraugus | Case Lake                                | Nutrients     |
| Cattaraugus | Linlyco/Club Pond                        | Nutrients     |
| Cayuga      | Duck Lake                                | Nutrients     |
| Cayuga      | Little Sodus Bay                         | Nutrients     |
| Chautauqua  | Bear Lake                                | Nutrients     |
| Chautauqua  | Chadakoin River and tribs                | Nutrients     |
| Chautauqua  | Chautauqua Lake, North                   | Nutrients     |
| Chautauqua  | Chautauqua Lake, South                   | Nutrients     |
| Chautauqua  | Findley Lake                             | Nutrients     |
| Chautauqua  | Hulburt/Clymer Pond                      | Nutrients     |
| Clinton     | Great Chazy River, Lower, Main Stem      | Silt/Sediment |
| Clinton     | Lake Champlain, Main Lake, Middle        | Nutrients     |
| Clinton     | Lake Champlain, Main Lake, North         | Nutrients     |
| Columbia    | Kinderhook Lake                          | Nutrients     |
| Columbia    | Robinson Pond                            | Nutrients     |
| Cortland    | Dean Pond                                | Nutrients     |

### 303(d) Segments Impaired by Construction Related Pollutant(s)

|            |                                         |               |
|------------|-----------------------------------------|---------------|
| Dutchess   | Fall Kill and tribs                     | Nutrients     |
| Dutchess   | Hillside Lake                           | Nutrients     |
| Dutchess   | Wappingers Lake                         | Nutrients     |
| Dutchess   | Wappingers Lake                         | Silt/Sediment |
| Erie       | Beeman Creek and tribs                  | Nutrients     |
| Erie       | Ellicott Creek, Lower, and tribs        | Silt/Sediment |
| Erie       | Ellicott Creek, Lower, and tribs        | Nutrients     |
| Erie       | Green Lake                              | Nutrients     |
| Erie       | Little Sister Creek, Lower, and tribs   | Nutrients     |
| Erie       | Murder Creek, Lower, and tribs          | Nutrients     |
| Erie       | Rush Creek and tribs                    | Nutrients     |
| Erie       | Scajaquada Creek, Lower, and tribs      | Nutrients     |
| Erie       | Scajaquada Creek, Middle, and tribs     | Nutrients     |
| Erie       | Scajaquada Creek, Upper, and tribs      | Nutrients     |
| Erie       | South Branch Smoke Cr, Lower, and tribs | Silt/Sediment |
| Erie       | South Branch Smoke Cr, Lower, and tribs | Nutrients     |
| Essex      | Lake Champlain, Main Lake, South        | Nutrients     |
| Essex      | Lake Champlain, South Lake              | Nutrients     |
| Essex      | Willsboro Bay                           | Nutrients     |
| Genesee    | Bigelow Creek and tribs                 | Nutrients     |
| Genesee    | Black Creek, Middle, and minor tribs    | Nutrients     |
| Genesee    | Black Creek, Upper, and minor tribs     | Nutrients     |
| Genesee    | Bowen Brook and tribs                   | Nutrients     |
| Genesee    | LeRoy Reservoir                         | Nutrients     |
| Genesee    | Oak Orchard Cr, Upper, and tribs        | Nutrients     |
| Genesee    | Tonawanda Creek, Middle, Main Stem      | Nutrients     |
| Greene     | Schoharie Reservoir                     | Silt/Sediment |
| Greene     | Sleepy Hollow Lake                      | Silt/Sediment |
| Herkimer   | Steele Creek tribs                      | Silt/Sediment |
| Herkimer   | Steele Creek tribs                      | Nutrients     |
| Jefferson  | Moon Lake                               | Nutrients     |
| Kings      | Hendrix Creek                           | Nutrients     |
| Kings      | Prospect Park Lake                      | Nutrients     |
| Lewis      | Mill Creek/South Branch, and tribs      | Nutrients     |
| Livingston | Christie Creek and tribs                | Nutrients     |
| Livingston | Conesus Lake                            | Nutrients     |
| Livingston | Mill Creek and minor tribs              | Silt/Sediment |
| Monroe     | Black Creek, Lower, and minor tribs     | Nutrients     |
| Monroe     | Buck Pond                               | Nutrients     |
| Monroe     | Cranberry Pond                          | Nutrients     |

### 303(d) Segments Impaired by Construction Related Pollutant(s)

|          |                                          |               |
|----------|------------------------------------------|---------------|
| Monroe   | Lake Ontario Shoreline, Western          | Nutrients     |
| Monroe   | Long Pond                                | Nutrients     |
| Monroe   | Mill Creek and tribs                     | Nutrients     |
| Monroe   | Mill Creek/Blue Pond Outlet and tribs    | Nutrients     |
| Monroe   | Minor Tribs to Irondequoit Bay           | Nutrients     |
| Monroe   | Rochester Embayment - East               | Nutrients     |
| Monroe   | Rochester Embayment - West               | Nutrients     |
| Monroe   | Shipbuilders Creek and tribs             | Nutrients     |
| Monroe   | Thomas Creek/White Brook and tribs       | Nutrients     |
| Nassau   | Beaver Lake                              | Nutrients     |
| Nassau   | Camaans Pond                             | Nutrients     |
| Nassau   | East Meadow Brook, Upper, and tribs      | Silt/Sediment |
| Nassau   | East Rockaway Channel                    | Nutrients     |
| Nassau   | Grant Park Pond                          | Nutrients     |
| Nassau   | Hempstead Bay                            | Nutrients     |
| Nassau   | Hempstead Lake                           | Nutrients     |
| Nassau   | Hewlett Bay                              | Nutrients     |
| Nassau   | Hog Island Channel                       | Nutrients     |
| Nassau   | Long Island Sound, Nassau County Waters  | Nutrients     |
| Nassau   | Massapequa Creek and tribs               | Nutrients     |
| Nassau   | Milburn/Parsonage Creeks, Upp, and tribs | Nutrients     |
| Nassau   | Reynolds Channel, west                   | Nutrients     |
| Nassau   | Tidal Tribs to Hempstead Bay             | Nutrients     |
| Nassau   | Tribs (fresh) to East Bay                | Nutrients     |
| Nassau   | Tribs (fresh) to East Bay                | Silt/Sediment |
| Nassau   | Tribs to Smith/Halls Ponds               | Nutrients     |
| Nassau   | Woodmere Channel                         | Nutrients     |
| New York | Harlem Meer                              | Nutrients     |
| New York | The Lake in Central Park                 | Nutrients     |
| Niagara  | Bergholtz Creek and tribs                | Nutrients     |
| Niagara  | Hyde Park Lake                           | Nutrients     |
| Niagara  | Lake Ontario Shoreline, Western          | Nutrients     |
| Niagara  | Lake Ontario Shoreline, Western          | Nutrients     |
| Oneida   | Ballou, Nail Creeks and tribs            | Nutrients     |
| Onondaga | Harbor Brook, Lower, and tribs           | Nutrients     |
| Onondaga | Ley Creek and tribs                      | Nutrients     |
| Onondaga | Minor Tribs to Onondaga Lake             | Nutrients     |
| Onondaga | Ninemile Creek, Lower, and tribs         | Nutrients     |
| Onondaga | Onondaga Creek, Lower, and tribs         | Nutrients     |
| Onondaga | Onondaga Creek, Middle, and tribs        | Nutrients     |

### 303(d) Segments Impaired by Construction Related Pollutant(s)

|            |                                          |               |
|------------|------------------------------------------|---------------|
| Onondaga   | Onondaga Lake, northern end              | Nutrients     |
| Onondaga   | Onondaga Lake, southern end              | Nutrients     |
| Ontario    | Great Brook and minor tribs              | Silt/Sediment |
| Ontario    | Great Brook and minor tribs              | Nutrients     |
| Ontario    | Hemlock Lake Outlet and minor tribs      | Nutrients     |
| Ontario    | Honeoye Lake                             | Nutrients     |
| Orange     | Greenwood Lake                           | Nutrients     |
| Orange     | Monhagen Brook and tribs                 | Nutrients     |
| Orange     | Orange Lake                              | Nutrients     |
| Orleans    | Lake Ontario Shoreline, Western          | Nutrients     |
| Orleans    | Lake Ontario Shoreline, Western          | Nutrients     |
| Oswego     | Lake Neatahwanta                         | Nutrients     |
| Oswego     | Pleasant Lake                            | Nutrients     |
| Putnam     | Bog Brook Reservoir                      | Nutrients     |
| Putnam     | Boyd Corners Reservoir                   | Nutrients     |
| Putnam     | Croton Falls Reservoir                   | Nutrients     |
| Putnam     | Diverting Reservoir                      | Nutrients     |
| Putnam     | East Branch Reservoir                    | Nutrients     |
| Putnam     | Lake Carmel                              | Nutrients     |
| Putnam     | Middle Branch Reservoir                  | Nutrients     |
| Putnam     | Oscawana Lake                            | Nutrients     |
| Putnam     | Palmer Lake                              | Nutrients     |
| Putnam     | West Branch Reservoir                    | Nutrients     |
| Queens     | Bergen Basin                             | Nutrients     |
| Queens     | Flushing Creek/Bay                       | Nutrients     |
| Queens     | Jamaica Bay, Eastern, and tribs (Queens) | Nutrients     |
| Queens     | Kissena Lake                             | Nutrients     |
| Queens     | Meadow Lake                              | Nutrients     |
| Queens     | Willow Lake                              | Nutrients     |
| Rensselaer | Nassau Lake                              | Nutrients     |
| Rensselaer | Snyders Lake                             | Nutrients     |
| Richmond   | Grasmere Lake/Bradys Pond                | Nutrients     |
| Rockland   | Congers Lake, Swartout Lake              | Nutrients     |
| Rockland   | Rockland Lake                            | Nutrients     |
| Saratoga   | Ballston Lake                            | Nutrients     |
| Saratoga   | Dwaas Kill and tribs                     | Silt/Sediment |
| Saratoga   | Dwaas Kill and tribs                     | Nutrients     |
| Saratoga   | Lake Lonely                              | Nutrients     |
| Saratoga   | Round Lake                               | Nutrients     |
| Saratoga   | Tribs to Lake Lonely                     | Nutrients     |

### 303(d) Segments Impaired by Construction Related Pollutant(s)

|             |                                         |               |
|-------------|-----------------------------------------|---------------|
| Schenectady | Collins Lake                            | Nutrients     |
| Schenectady | Duane Lake                              | Nutrients     |
| Schenectady | Mariaville Lake                         | Nutrients     |
| Schoharie   | Engleville Pond                         | Nutrients     |
| Schoharie   | Summit Lake                             | Nutrients     |
| Seneca      | Reeder Creek and tribs                  | Nutrients     |
| St.Lawrence | Black Lake Outlet/Black Lake            | Nutrients     |
| St.Lawrence | Fish Creek and minor tribs              | Nutrients     |
| Steuben     | Smith Pond                              | Nutrients     |
| Suffolk     | Agawam Lake                             | Nutrients     |
| Suffolk     | Big/Little Fresh Ponds                  | Nutrients     |
| Suffolk     | Canaan Lake                             | Silt/Sediment |
| Suffolk     | Canaan Lake                             | Nutrients     |
| Suffolk     | Flanders Bay, West/Lower Sawmill Creek  | Nutrients     |
| Suffolk     | Fresh Pond                              | Nutrients     |
| Suffolk     | Great South Bay, East                   | Nutrients     |
| Suffolk     | Great South Bay, Middle                 | Nutrients     |
| Suffolk     | Great South Bay, West                   | Nutrients     |
| Suffolk     | Lake Ronkonkoma                         | Nutrients     |
| Suffolk     | Long Island Sound, Suffolk County, West | Nutrients     |
| Suffolk     | Mattituck (Marratooka) Pond             | Nutrients     |
| Suffolk     | Meetinghouse/Terrys Creeks and tribs    | Nutrients     |
| Suffolk     | Mill and Seven Ponds                    | Nutrients     |
| Suffolk     | Millers Pond                            | Nutrients     |
| Suffolk     | Moriches Bay, East                      | Nutrients     |
| Suffolk     | Moriches Bay, West                      | Nutrients     |
| Suffolk     | Peconic River, Lower, and tidal tribs   | Nutrients     |
| Suffolk     | Quantuck Bay                            | Nutrients     |
| Suffolk     | Shinnecock Bay and Inlet                | Nutrients     |
| Suffolk     | Tidal tribs to West Moriches Bay        | Nutrients     |
| Sullivan    | Bodine, Montgomery Lakes                | Nutrients     |
| Sullivan    | Davies Lake                             | Nutrients     |
| Sullivan    | Evens Lake                              | Nutrients     |
| Sullivan    | Pleasure Lake                           | Nutrients     |
| Tompkins    | Cayuga Lake, Southern End               | Nutrients     |
| Tompkins    | Cayuga Lake, Southern End               | Silt/Sediment |
| Tompkins    | Owasco Inlet, Upper, and tribs          | Nutrients     |
| Ulster      | Ashokan Reservoir                       | Silt/Sediment |
| Ulster      | Esopus Creek, Upper, and minor tribs    | Silt/Sediment |
| Warren      | Hague Brook and tribs                   | Silt/Sediment |



### 303(d) Segments Impaired by Construction Related Pollutant(s)

|             |                                          |               |
|-------------|------------------------------------------|---------------|
| Warren      | Huddle/Finkle Brooks and tribs           | Silt/Sediment |
| Warren      | Indian Brook and tribs                   | Silt/Sediment |
| Warren      | Lake George                              | Silt/Sediment |
| Warren      | Tribs to L.George, Village of L George   | Silt/Sediment |
| Washington  | Cossayuna Lake                           | Nutrients     |
| Washington  | Lake Champlain, South Bay                | Nutrients     |
| Washington  | Tribs to L.George, East Shore            | Silt/Sediment |
| Washington  | Wood Cr/Champlain Canal and minor tribs  | Nutrients     |
| Wayne       | Port Bay                                 | Nutrients     |
| Westchester | Amawalk Reservoir                        | Nutrients     |
| Westchester | Blind Brook, Upper, and tribs            | Silt/Sediment |
| Westchester | Cross River Reservoir                    | Nutrients     |
| Westchester | Lake Katonah                             | Nutrients     |
| Westchester | Lake Lincolndale                         | Nutrients     |
| Westchester | Lake Meahagh                             | Nutrients     |
| Westchester | Lake Mohegan                             | Nutrients     |
| Westchester | Lake Shenorock                           | Nutrients     |
| Westchester | Long Island Sound, Westchester (East)    | Nutrients     |
| Westchester | Mamaroneck River, Lower                  | Silt/Sediment |
| Westchester | Mamaroneck River, Upper, and minor tribs | Silt/Sediment |
| Westchester | Muscoot/Upper New Croton Reservoir       | Nutrients     |
| Westchester | New Croton Reservoir                     | Nutrients     |
| Westchester | Peach Lake                               | Nutrients     |
| Westchester | Reservoir No.1 (Lake Isle)               | Nutrients     |
| Westchester | Saw Mill River, Lower, and tribs         | Nutrients     |
| Westchester | Saw Mill River, Middle, and tribs        | Nutrients     |
| Westchester | Sheldrake River and tribs                | Silt/Sediment |
| Westchester | Sheldrake River and tribs                | Nutrients     |
| Westchester | Silver Lake                              | Nutrients     |
| Westchester | Teatown Lake                             | Nutrients     |
| Westchester | Titicus Reservoir                        | Nutrients     |
| Westchester | Truesdale Lake                           | Nutrients     |
| Westchester | Wallace Pond                             | Nutrients     |
| Wyoming     | Java Lake                                | Nutrients     |
| Wyoming     | Silver Lake                              | Nutrients     |

## APPENDIX F – List of NYS DEC Regional Offices

| <u>Region</u> | <u>COVERING THE<br/>FOLLOWING COUNTIES:</u>                                                                       | <u>DIVISION OF<br/>ENVIRONMENTAL<br/>PERMITS (DEP)<br/>PERMIT ADMINISTRATORS</u>                   | <u>DIVISION OF WATER<br/>(DOW)<br/>WATER (SPDES) PROGRAM</u>                                       |
|---------------|-------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|
| 1             | NASSAU AND SUFFOLK                                                                                                | 50 CIRCLE ROAD<br>STONY BROOK, NY 11790<br>TEL. (631) 444-0365                                     | 50 CIRCLE ROAD<br>STONY BROOK, NY 11790-3409<br>TEL. (631) 444-0405                                |
| 2             | BRONX, KINGS, NEW YORK,<br>QUEENS AND RICHMOND                                                                    | 1 HUNTERS POINT PLAZA,<br>47-40 21ST ST.<br>LONG ISLAND CITY, NY 11101-5407<br>TEL. (718) 482-4997 | 1 HUNTERS POINT PLAZA,<br>47-40 21ST ST.<br>LONG ISLAND CITY, NY 11101-5407<br>TEL. (718) 482-4933 |
| 3             | DUTCHESS, ORANGE, PUTNAM,<br>ROCKLAND, SULLIVAN, ULSTER<br>AND WESTCHESTER                                        | 21 SOUTH PUTT CORNERS ROAD<br>NEW PALTZ, NY 12561-1696<br>TEL. (845) 256-3059                      | 100 HILLSIDE AVENUE, SUITE 1W<br>WHITE PLAINS, NY 10603<br>TEL. (914) 428 - 2505                   |
| 4             | ALBANY, COLUMBIA,<br>DELAWARE, GREENE,<br>MONTGOMERY, OTSEGO,<br>RENSSELAER, SCHENECTADY<br>AND SCHOHARIE         | 1150 NORTH WESTCOTT ROAD<br>SCHENECTADY, NY 12306-2014<br>TEL. (518) 357-2069                      | 1130 NORTH WESTCOTT ROAD<br>SCHENECTADY, NY 12306-2014<br>TEL. (518) 357-2045                      |
| 5             | CLINTON, ESSEX, FRANKLIN,<br>FULTON, HAMILTON,<br>SARATOGA, WARREN AND<br>WASHINGTON                              | 1115 STATE ROUTE 86, Po Box 296<br>RAY BROOK, NY 12977-0296<br>TEL. (518) 897-1234                 | 232 GOLF COURSE ROAD<br>WARRENSBURG, NY 12885-1172 TEL.<br>(518) 623-1200                          |
| 6             | HERKIMER, JEFFERSON,<br>LEWIS, ONEIDA AND<br>ST. LAWRENCE                                                         | STATE OFFICE BUILDING<br>317 WASHINGTON STREET<br>WATERTOWN, NY 13601-3787<br>TEL. (315) 785-2245  | STATE OFFICE BUILDING<br>207 GENESEE STREET<br>UTICA, NY 13501-2885 TEL. (315)<br>793-2554         |
| 7             | BROOME, CAYUGA,<br>CHENANGO, CORTLAND,<br>MADISON, ONONDAGA,<br>OSWEGO, TIOGA AND<br>TOMPKINS                     | 615 ERIE BLVD. WEST<br>SYRACUSE, NY 13204-2400<br>TEL. (315) 426-7438                              | 615 ERIE BLVD. WEST<br>SYRACUSE, NY 13204-2400<br>TEL. (315) 426-7500                              |
| 8             | CHEMUNG, GENESEE,<br>LIVINGSTON, MONROE,<br>ONTARIO, ORLEANS,<br>SCHUYLER, SENECA,<br>STEUBEN, WAYNE AND<br>YATES | 6274 EAST AVON-LIMA<br>ROADAVON, NY 14414-9519<br>TEL. (585) 226-2466                              | 6274 EAST AVON-LIMA RD.<br>AVON, NY 14414-9519<br>TEL. (585) 226-2466                              |
| 9             | ALLEGANY,<br>CATTARAUGUS,<br>CHAUTAUQUA, ERIE,<br>NIAGARA AND WYOMING                                             | 270 MICHIGAN AVENUE<br>BUFFALO, NY 14203-2999<br>TEL. (716) 851-7165                               | 270 MICHIGAN AVENUE<br>BUFFALO, NY 14203-2999<br>TEL. (716) 851-7070                               |



**Appendix G**  
**Blank Notice of Termination (NOT)**

**New York State Department of Environmental Conservation  
Division of Water  
625 Broadway, 4th Floor  
Albany, New York 12233-3505**

\*(NOTE: Submit completed form to address above)\*

**NOTICE OF TERMINATION** for Storm Water Discharges Authorized  
under the SPDES General Permit for Construction Activity

**Please indicate your permit identification number:** NYR \_\_\_\_ \_

**I. Owner or Operator Information**

1. Owner/Operator Name:

2. Street Address:

3. City/State/Zip:

4. Contact Person:

4a. Telephone:

4b. Contact Person E-Mail:

**II. Project Site Information**

5. Project/Site Name:

6. Street Address:

7. City/Zip:

8. County:

**III. Reason for Termination**

9a. ☐ All disturbed areas have achieved final stabilization in accordance with the general permit and SWPPP. **\*Date final stabilization completed** (month/year): \_\_\_\_\_

9b. ☐ Permit coverage has been transferred to new owner/operator. Indicate new owner/operator's permit identification number: NYR \_\_\_\_ \_

(Note: Permit coverage can not be terminated by owner identified in I.1. above until new owner/operator obtains coverage under the general permit)

9c. ☐ Other (Explain on Page 2)

**IV. Final Site Information:**

10a. Did this construction activity require the development of a SWPPP that includes post-construction stormwater management practices? ☐ yes ☐ no (If no, go to question 10f.)

10b. Have all post-construction stormwater management practices included in the final SWPPP been constructed? ☐ yes ☐ no (If no, explain on Page 2)

10c. Identify the entity responsible for long-term operation and maintenance of practice(s)?

\_\_\_\_\_

**NOTICE OF TERMINATION for Storm Water Discharges Authorized under the  
SPDES General Permit for Construction Activity - continued**

10d. Has the entity responsible for long-term operation and maintenance been given a copy of the operation and maintenance plan required by the general permit?    ☐ yes    ☐ no

10e. Indicate the method used to ensure long-term operation and maintenance of the post-construction stormwater management practice(s):

- ☐ Post-construction stormwater management practice(s) and any right-of-way(s) needed to maintain practice(s) have been deeded to the municipality.
- ☐ Executed maintenance agreement is in place with the municipality that will maintain the post-construction stormwater management practice(s).
- ☐ For post-construction stormwater management practices that are privately owned, a mechanism is 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.
- ☐ For post-construction stormwater management practices that are owned by a public or private institution (e.g. school, university or hospital), government agency or authority, or public utility; policy and procedures are in place that ensures operation and maintenance of the practice(s) in accordance with the operation and maintenance plan.

10f. Provide the total area of impervious surface (i.e. roof, pavement, concrete, gravel, etc.) constructed within the disturbance area? \_\_\_\_\_  
(acres)

11. Is this project subject to the requirements of a regulated, traditional land use control MS4?    ☐ yes  
☐ no  
(If Yes, complete section VI - "MS4 Acceptance" statement)

**V. Additional Information/Explanation:**  
(Use this section to answer questions 9c. and 10b., if applicable)

**VI. MS4 Acceptance - MS4 Official (principal executive officer or ranking elected official) or Duly Authorized Representative** (Note: Not required when 9b. is checked -transfer of coverage)

I have determined that it is acceptable for the owner or operator of the construction project identified in question 5 to submit the Notice of Termination at this time.

Printed Name:

Title/Position:

Signature:

Date:



**NOTICE OF TERMINATION** for Storm Water Discharges Authorized under the  
SPDES General Permit for Construction Activity - continued

**VII. Qualified Inspector Certification - Final Stabilization:**

I hereby certify that all disturbed areas have achieved final stabilization as defined in the current version of the general permit, and that all temporary, structural erosion and sediment control measures have been removed. Furthermore, I understand that certifying false, incorrect or inaccurate information is a violation of the referenced permit and the laws of the State of New York and could subject me to criminal, civil and/or administrative proceedings.

Printed Name:

Title/Position:

Signature:

Date:

**VIII. Qualified Inspector Certification - Post-construction Stormwater Management Practice(s):**

I hereby certify that all post-construction stormwater management practices have been constructed in conformance with the SWPPP. Furthermore, I understand that certifying false, incorrect or inaccurate information is a violation of the referenced permit and the laws of the State of New York and could subject me to criminal, civil and/or administrative proceedings.

Printed Name:

Title/Position:

Signature:

Date:

**IX. Owner or Operator Certification**

I hereby certify that this document was prepared by me or under my direction or supervision. My determination, based upon my inquiry of the person(s) who managed the construction activity, or those persons directly responsible for gathering the information, is that the information provided in this document is true, accurate and complete. Furthermore, I understand that certifying false, incorrect or inaccurate information is a violation of the referenced permit and the laws of the State of New York and could subject me to criminal, civil and/or administrative proceedings.

Printed Name:

Title/Position:

Signature:

Date:

(NYS DEC Notice of Termination - January 2015)



## **Appendix H**

### **General Contractor's Certification**



**STORM WATER POLLUTION PREVENTION PLAN  
CONTRACTOR'S CERTIFICATION**

**CONSTRUCTION SITE -  
Restaurants A & B  
Fayetteville, NY  
Onondaga County, New York  
STORMWATER POLLUTION PREVENTION PLAN DATED June 30, 2021**

**CONTRACTOR'S CERTIFICATION:**

*"I hereby certify under penalty of law that I understand and agree to comply with the terms and conditions of the SWPPP and agree to implement any corrective actions identified by the qualified inspector during a site inspection. I also understand that the owner or operator must comply with the terms and conditions of the most current version of the New York State Pollutant Discharge Elimination System ("SPDES") general permit for stormwater discharges from construction activities and that it is unlawful for any person to cause or contribute to a violation of water quality standards. Furthermore, I am aware that there are significant penalties for submitting false information, that I do not believe to be true, including the possibility of fine and imprisonment for knowing violations"*

Name: \_\_\_\_\_  
(Print)

Signature: \_\_\_\_\_

Title: \_\_\_\_\_

Company Name: \_\_\_\_\_

Address: \_\_\_\_\_

Telephone Number: \_\_\_\_\_

Date: \_\_\_\_\_

Scope of Services: \_\_\_\_\_

Date: \_\_\_\_\_

Received by: \_\_\_\_\_  
[Name]



## **Appendix I**

### **Subcontractor's Certification**



**STORM WATER POLLUTION PREVENTION PLAN  
SUBCONTRACTOR'S CERTIFICATION**

**CONSTRUCTION SITE -  
Restaurants A & B  
Fayetteville, NY  
Onondaga County, New York**  
**STORMWATER POLLUTION PREVENTION PLAN DATED June 30, 2021**

**SUBCONTRACTOR'S CERTIFICATION:**

*"I hereby certify under penalty of law that I understand and agree to comply with the terms and conditions of the SWPPP and agree to implement any corrective actions identified by the qualified inspector during a site inspection. I also understand that the owner or operator must comply with the terms and conditions of the most current version of the New York State Pollutant Discharge Elimination System ("SPDES") general permit for stormwater discharges from construction activities and that it is unlawful for any person to cause or contribute to a violation of water quality standards. Furthermore, I am aware that there are significant penalties for submitting false information, that I do not believe to be true, including the possibility of fine and imprisonment for knowing violations"*

Name: \_\_\_\_\_  
(Print)

Signature: \_\_\_\_\_

Title: \_\_\_\_\_

Company Name: \_\_\_\_\_

Address: \_\_\_\_\_

Telephone Number: \_\_\_\_\_

Date: \_\_\_\_\_

Scope of Services: \_\_\_\_\_

Date: \_\_\_\_\_

Received by: \_\_\_\_\_  
[Name]





## **Appendix J**

### **Inspection Report**



**STORMWATER POLLUTION PREVENTION PLAN**

**CONSTRUCTION SITE -**

**Restaurants A & B**

**Fayetteville, NY**

**Onondaga County, New York**

**STORMWATER POLLUTION PREVENTION PLAN DATED June 30, 2021**

Inspections/reports must be completed a minimum of once every seven calendar days.

Inspection Type: ☐ Routine (at least once every 7 calendar days) ☐ Other \_\_\_\_\_

Date: \_\_\_\_\_

Week Ending: \_\_\_\_\_

**Weather/Storm Event Information:**

Storm Start Time: \_\_\_\_\_

Storm Duration: \_\_\_\_\_

Approximate Amount of Rainfall (inches): \_\_\_\_\_

Based on the results of the inspection, necessary control modifications shall be initiated within 24-hours and completed within a reasonable time frame. These reports shall be kept on file as part of the Storm Water Pollution Prevention Plan for at least five (5) years from the date of completion and submission of the Final Stabilization Certification/Termination Checklist and Notice of Termination. A copy of the SWPPP shall be kept at the site at all times during construction.

**Practices in need of repair:**

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**Item not corrected from previous inspection:**

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|  |
|  |

Name of Inspector: \_\_\_\_\_ Title of Inspector: : \_\_\_\_\_

Inspector's Signature: \_\_\_\_\_



## Contractor Compliance Certification

I certify that, based on no incidents of non-compliance identified during the inspection, the site is in compliance with the SWPPP and the Construction General Permit.

Name of Duly Authorized Representative (Printed): \_\_\_\_\_

Signature of Duly Authorized Representative: \_\_\_\_\_

Date: \_\_\_\_\_

**\*Note:** Only to be signed when the site is in full compliance with the SWPPP and the Construction General Permit.

## II. CONSTRUCTION DURATION INSPECTIONS

### a. Directions:

Inspection Forms will be filled out during the entire construction phase of the project.

### Required Elements:

(1) On a site map, indicate the extent of all disturbed site areas and drainage pathways. Indicate site areas that are expected to undergo initial disturbance or significant site work within the next 14-day period;

(2) Indicate on a site map all areas of the site that have undergone temporary or permanent stabilization;

(3) Indicate all disturbed site areas that have not undergone active site work during the previous 14-day period;

Inspect all sediment control practices and record the approximate degree of sediment accumulation as a percentage of sediment storage volume (for example, 10 percent, 20 percent, 50 percent);

(5) Inspect all erosion and sediment control practices and record all maintenance requirements such as verifying the integrity of barrier or diversion systems (earthen berms or silt fencing) and containment systems (sediment basins and sediment traps). Identify any evidence of rill or gully erosion occurring on slopes and any loss of stabilizing vegetation or seeding/mulching. Document any excessive deposition of sediment or ponding water along barrier or diversion systems. Record the depth of sediment within containment structures, any erosion near outlet and overflow structures, and verify the ability of rock filters around perforated riser pipes to pass water; and

(6) Immediately report to the Contractor and Operator any deficiencies that are identified with the implementation of the SWPPP.

**SITE PLAN/SKETCH**

---

**Qualified Inspector (print name)**

---

**Qualified Inspector Signature**

---

**Date of inspection**

**The above signed acknowledges that, to the best of his/her knowledge, all information provided on the forms is accurate and complete.**



**CONSTRUCTION DURATION INSPECTIONS**

**Date:** \_\_\_\_\_

**Maintaining Water Quality**

Yes No NA

- ☐ ☐ ☐ Is there an increase in turbidity causing a substantial visible contrast to natural conditions?
- ☐ ☐ ☐ Is there residue from oil and floating substances, visible oil film, or globules or grease?
- ☐ ☐ ☐ All disturbance is within the limits of the approved plans.
- ☐ ☐ ☐ Have receiving lake/bay, stream, and/or wetland been impacted by silt from project?

**Housekeeping**

**1. General Site Conditions**

Yes No NA

- ☐ ☐ ☐ Is construction site litter and debris appropriately managed?
- ☐ ☐ ☐ Are facilities and equipment necessary for implementation of erosion and sediment control in working order and/or properly maintained?
- ☐ ☐ ☐ Is construction impacting the adjacent property?
- ☐ ☐ ☐ Is dust adequately controlled?

**2. Temporary Stream Crossing**

Yes No NA

- ☐ ☐ ☐ Maximum diameter pipes necessary to span creek without dredging are installed.
- ☐ ☐ ☐ Installed non-woven geotextile fabric beneath approaches.
- ☐ ☐ ☐ Is fill composed of aggregate (no earth or soil)?
- ☐ ☐ ☐ Rock on approaches is clean enough to remove mud from vehicles & prevent sediment from entering stream during high flow.

**Runoff Control Practices**

**1. Excavation Dewatering**

Yes No NA

- ☐ ☐ ☐ Upstream and downstream berms (sandbags, inflatable dams, etc.) are installed per plan.
- ☐ ☐ ☐ Clean water from upstream pool is being pumped to the downstream pool.
- ☐ ☐ ☐ Sediment laden water from work area is being discharged to a silt-trapping device.
- ☐ ☐ ☐ Constructed upstream berm with one-foot minimum freeboard.

**2. Level Spreader**

Yes No NA

- ☐ ☐ ☐ Installed per plan.
- ☐ ☐ ☐ Constructed on undisturbed soil, not on fill, receiving only clear, non-sediment laden flow.
- ☐ ☐ ☐ Flow sheets out of level spreader without erosion on downstream edge.

**3. Interceptor Dikes and Swales**

Yes No NA

- ☐ ☐ ☐ Installed per plan with minimum side slopes 2H:1V or flatter.



- ☐ ☐ ☐ Stabilized by geotextile fabric, seed, or mulch with no erosion occurring.
- ☐ ☐ ☐ Sediment-laden runoff directed to sediment trapping structure

#### 4. Stone Check Dam

Yes No NA

- ☐ ☐ ☐ Is channel stable? (flow is not eroding soil underneath or around the structure).
- ☐ ☐ ☐ Check is in good condition (rocks in place and no permanent pools behind the structure).
- ☐ ☐ ☐ Has accumulated sediment been removed?

#### 5. Rock Outlet Protection

Yes No NA

- ☐ ☐ ☐ Installed per plan.
- ☐ ☐ ☐ Installed concurrently with pipe installation.

#### Soil Stabilization

##### 1. Topsoil and Spoil Stockpiles

Yes No NA

- ☐ ☐ ☐ Stockpiles are stabilized with vegetation and/or mulch.
- ☐ ☐ ☐ Sediment control is installed at the toe of the slope.

##### 2. Revegetation

Yes No NA

- ☐ ☐ ☐ Temporary seedings and mulch have been applied to idle areas.
- ☐ ☐ ☐ 4 inches minimum of topsoil has been applied under permanent seedings

#### Sediment Control

##### 1. Stabilized Construction Entrance

Yes No NA

- ☐ ☐ ☐ Stone is clean enough to effectively remove mud from vehicles.
- ☐ ☐ ☐ Installed per standards and specifications?
- ☐ ☐ ☐ Does all traffic use the stabilized entrance to enter and leave site?
- ☐ ☐ ☐ Is adequate drainage provided to prevent ponding at entrance?

##### 2. Silt Fence

Yes No NA

- ☐ ☐ ☐ Installed on Contour, 10 feet from toe of slope (not across conveyance channels).
  - ☐ ☐ ☐ Joints constructed by wrapping the two ends together for continuous support.
  - ☐ ☐ ☐ Fabric buried 6 inches minimum.
  - ☐ ☐ ☐ Posts are stable, fabric is tight and without rips or frayed areas.
- Sediment accumulation is \_\_\_\_% of design capacity.

##### 3. Storm Drain Inlet Protection (Use for Stone & Block; Filter Fabric; Curb; or, Excavated practices)

Yes No NA

- ☐ ☐ ☐ Installed concrete blocks lengthwise so open ends face outward, not upward.
- ☐ ☐ ☐ Placed wire screen between No. 3 crushed stone and concrete blocks.
- ☐ ☐ ☐ Drainage area is 1acre or less.





- ☐ ☐ ☐ Excavated area is 900 cubic feet.
  - ☐ ☐ ☐ Excavated side slopes should be 2:1.
  - ☐ ☐ ☐ 2" x 4" frame is constructed and structurally sound.
  - ☐ ☐ ☐ Posts 3-foot maximum spacing between posts.
  - ☐ ☐ ☐ Fabric is embedded 1 to 1.5 feet below ground and secured to frame/posts with staples at max 8-inch spacing.
  - ☐ ☐ ☐ Posts are stable, fabric is tight and without rips or frayed areas.
- Sediment accumulation \_\_\_\_% of design capacity.

#### 4. Temporary Sediment Trap

Yes No NA

- ☐ ☐ ☐ Outlet structure is constructed per the approved plan or drawing.
  - ☐ ☐ ☐ Geotextile fabric has been placed beneath rock fill.
- Sediment accumulation is \_\_\_\_% of design capacity.

#### 5. Temporary Sediment Basin

Yes No NA

- ☐ ☐ ☐ Basin and outlet structure constructed per the approved plan.
  - ☐ ☐ ☐ Basin side slopes are stabilized with seed/mulch.
  - ☐ ☐ ☐ Drainage structure flushed and basin surface restored upon removal of sediment basin facility.
- Sediment accumulation is \_\_\_\_% of design capacity.

**Note:** Not all erosion and sediment control practices are included in this listing. Add additional pages to this list as required by site specific design.  
Construction inspection checklists for post-development stormwater management practices can be found in Appendix F of the New York Stormwater Management Design Manual.



## **Appendix K Stabilization Form**

**STORM WATER POLLUTION PREVENTION PLAN**  
**Stabilization Schedule for Major Grading Activities**  
**Restaurants A & B**

|                                                                        |            |                 | Note: When these activities cease and if activities cease for more than 14 days these columns need to be completed. |             |                                        |                                        |                                                                                                  |                                 |
|------------------------------------------------------------------------|------------|-----------------|---------------------------------------------------------------------------------------------------------------------|-------------|----------------------------------------|----------------------------------------|--------------------------------------------------------------------------------------------------|---------------------------------|
| Major Site Construction Activity Areas                                 | Begin Date | Completion Date | Temporary Cease Date                                                                                                | Resume Date | Begin Date for Stabilization Temporary | Begin Date for Stabilization Permanent | Type of Stabilization<br>(List measures used such as stone, seeding, mulch, landscaping, etc...) | Contractor Responsible for Work |
| Temp. Gravel Const. Entrance                                           |            |                 |                                                                                                                     |             |                                        |                                        |                                                                                                  |                                 |
| Existing Pavements and Structures Removed, Utilities Removed/Relocated |            |                 |                                                                                                                     |             |                                        |                                        |                                                                                                  |                                 |
| Mass Grading                                                           |            |                 |                                                                                                                     |             |                                        |                                        |                                                                                                  |                                 |
| Access Drives Constructed                                              |            |                 |                                                                                                                     |             |                                        |                                        |                                                                                                  |                                 |
| Walkways Constructed                                                   |            |                 |                                                                                                                     |             |                                        |                                        |                                                                                                  |                                 |
| Building Foundation                                                    |            |                 |                                                                                                                     |             |                                        |                                        |                                                                                                  |                                 |
| Storm Sewers and Utility Installations                                 |            |                 |                                                                                                                     |             |                                        |                                        |                                                                                                  |                                 |
| Pervious Areas Stabilized                                              |            |                 |                                                                                                                     |             |                                        |                                        |                                                                                                  |                                 |



## **Appendix L**

### **Implementation Form**



**STORM WATER POLLUTION PREVENTION PLAN  
IMPLEMENTATION SCHEDULE**

**CONSTRUCTION SITE -  
Restaurant A & Restaurant B  
Fayetteville, NY  
Onondaga County, New York**

**STORMWATER POLLUTION PREVENTION PLAN DATED June 30, 2021**

**\*To be completed prior to initiation of construction by the contractor.**

The Contractor will be responsible for implementing all Erosion and Sediment Control and Storm Water Management control structures. 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 functioning remains with the Contractor.

| Construction Activity              | *Proposed<br>Initiation Date | *Proposed<br>Completion<br>Date | Actual<br>Initiation<br>Date | Actual<br>Completion<br>Date | Contractor<br>Responsible for<br>Implementation |
|------------------------------------|------------------------------|---------------------------------|------------------------------|------------------------------|-------------------------------------------------|
| Preconstruction Meeting            |                              |                                 |                              |                              |                                                 |
| Temporary Construction Access      |                              |                                 |                              |                              |                                                 |
| Material laydown/staging area prep |                              |                                 |                              |                              |                                                 |
| Install inlet protection           |                              |                                 |                              |                              |                                                 |
| Install perimeter protection       |                              |                                 |                              |                              |                                                 |
| Stabilize all areas                |                              |                                 |                              |                              |                                                 |
| Remove inlet protection            |                              |                                 |                              |                              |                                                 |
| Clean storm Sewers                 |                              |                                 |                              |                              |                                                 |
| Final inspection                   |                              |                                 |                              |                              |                                                 |
|                                    |                              |                                 |                              |                              |                                                 |
|                                    |                              |                                 |                              |                              |                                                 |
|                                    |                              |                                 |                              |                              |                                                 |
|                                    |                              |                                 |                              |                              |                                                 |
|                                    |                              |                                 |                              |                              |                                                 |
|                                    |                              |                                 |                              |                              |                                                 |
|                                    |                              |                                 |                              |                              |                                                 |



## **Appendix M**

### **Modification Report**





**STORM WATER POLLUTION PREVENTION PLAN  
MODIFICATION LOG**

**CONSTRUCTION SITE -  
Restaurant A & Restaurant B  
Fayetteville, NY  
Onondaga County, New York**

**STORMWATER POLLUTION PREVENTION PLAN DATED June 30, 2021**

**CHANGES REQUIRED FOR STORM WATER POLLUTION PREVENTION PLAN**

The SWPPP must be amended whenever there is a change in design, construction, operation, or maintenance at the construction site that has a significant effect on the discharge of pollutants to the Waters of the United States that has not been previously addressed in the SWPPP, if inspections or investigations by site staff, local, state or federal officials determine that discharges are causing water quality exceedances or the SWPPP is ineffective in eliminating or significantly minimizing pollutants in storm water discharges from the construction site, or based on the results of an inspection, or there is a release containing a Hazardous Substance or Oil in an amount equal to or in excess of a reportable quantity established under either 40 CFR Part 110, 40 CFR Part 117, or 40 CFR Part 302 occurs during a 24 hour period, the SWPPP must be modified to include additional or modified BMPs designed to correct identified problems. Revisions to the SWPPP must be completed within seven (7) calendar days following the inspection. Modifications that are the result of inspections shall be initialed within 24 hours and completed within 48 hours. All modifications are to be referenced on both the forms and on a Progress Drawing.

**MODIFICATION LOG**

| <b>MODIFICATION<br/>NUMBER*</b> | <b>DATE</b> | <b>BRIEF DESCRIPTION</b> | <b>PROJECT<br/>MANAGER<br/>REVIEW</b> |
|---------------------------------|-------------|--------------------------|---------------------------------------|
|                                 |             |                          |                                       |
|                                 |             |                          |                                       |
|                                 |             |                          |                                       |
|                                 |             |                          |                                       |
|                                 |             |                          |                                       |
|                                 |             |                          |                                       |
|                                 |             |                          |                                       |
|                                 |             |                          |                                       |
|                                 |             |                          |                                       |
|                                 |             |                          |                                       |

**\*Modification Log Number to correspond with Modification Report Number**



**STORM WATER POLLUTION PREVENTION PLAN  
MODIFICATION REPORT**

**CONSTRUCTION SITE -  
Restaurant A & Restaurant B  
Fayetteville, NY  
Onondaga County, New York**

**STORMWATER POLLUTION PREVENTION PLAN DATED June 30, 2021**

**NUMBER** \_\_\_\_\_

**DATE** \_\_\_\_\_

**TO:  
ADDRESS:**

**TELEPHONE:**

**FACSIMILE:**

**SENT VIA:** ☐ Facsimile ☐ Courier ☐ US Mail

**INSPECTOR:** \_\_\_\_\_  
(Print Name)

\_\_\_\_\_  
(Inspector Signature)

**QUALIFICATIONS OF INSPECTOR:** \_\_\_\_\_

**CHANGES REQUIRED TO THE STORMWATER POLLUTION PREVENTION PLAN:**

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**REASONS FOR CHANGES:**

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**TO BE PERFORMED BY:** \_\_\_\_\_

**ON OR BEFORE:** \_\_\_\_\_

**Project Manager:** \_\_\_\_\_

**Other Operator:** \_\_\_\_\_



## **Appendix N**

### **Final Stabilization/Termination Checklist**



**STORM WATER POLLUTION PREVENTION PLAN**

**FINAL STABILIZATION CERTIFICATION /NOTICE OF TERMINATION CHECKLIST**

**CONSTRUCTION SITE -  
Restaurant A & Restaurant B  
Fayetteville, NY  
Onondaga County, New York**

**STORMWATER POLLUTION PREVENTION PLAN DATED June 30, 2021**

1. ☐ All soil disturbing activities are completed, and the facility no longer discharges storm water associated with Construction Activities.
2. ☐ Temporary Erosion and Sediment Control Measures have been removed or will be removed at the appropriate time.
3. ☐ All areas of the Construction Site not otherwise covered by a permanent pavement or structure have been stabilized with a uniform perennial vegetative cover with a density of 80% or equivalent measures have been employed.

**CONTRACTOR'S CERTIFICATION:**

*"I certify under penalty of law that all storm water discharges associated with Construction Activity from the identified project that are authorized by the NPDES Construction General Permit have been eliminated and that all disturbed areas and soils at the construction site have achieved Final Stabilization and all temporary erosion and sediment control measures have been remove in addition all permanent stormwater structures have been constructed as described in the SWPPP"*

Company Name: \_\_\_\_\_

Name (Print): \_\_\_\_\_

Signature: \_\_\_\_\_

Title: \_\_\_\_\_

Date: \_\_\_\_\_

Date: \_\_\_\_\_

Received by: \_\_\_\_\_  
[Name]



## **Appendix O**

### **Reportable Quantity Release Form**



**STORM WATER POLLUTION PREVENTION PLAN  
REPORTABLE QUANTITY RELEASE FORM**

**CONSTRUCTION SITE -  
CONSTRUCTION SITE -  
Restaurant A & Restaurant B  
Fayetteville, NY  
Onondaga County, New York**

**STORMWATER POLLUTION PREVENTION PLAN DATED June 30, 2021**

The discharges of Hazardous Substances or Oil in storm water discharges from construction sites must be prevented or minimized in accordance with the SWPPP. Where a release containing a Hazardous Substance or Oil in an amount equal to or in excess of a reportable quantity established under 40CFR Part 110, 40CFR Part 117 and 40CFR Part 302 occurs, the following steps must be taken:

1. All measures must be taken to contain and abate the spill and to prevent the discharge of Hazardous Substances or Oil to storm water or off-site.
2. Contact the Project Manager or Operator's Engineer immediately upon knowledge of release.
3. If a release is equal to or in excess of a reportable quantity, the SWPPP must be modified within seven (7) calendar days of knowledge of the discharge to provide a description of the release, the circumstances leading to the release, and the date of the release. The plans must identify measures to prevent the recurrence of such releases and to respond to such releases

| Date of Spill | Material Spilled | Approximate Quantity of Spill (in gallons) | Agency(s) Notified | Date of Notification | SWPPP Revision Date |
|---------------|------------------|--------------------------------------------|--------------------|----------------------|---------------------|
|               |                  |                                            |                    |                      |                     |
|               |                  |                                            |                    |                      |                     |
|               |                  |                                            |                    |                      |                     |
|               |                  |                                            |                    |                      |                     |
|               |                  |                                            |                    |                      |                     |
|               |                  |                                            |                    |                      |                     |
|               |                  |                                            |                    |                      |                     |
|               |                  |                                            |                    |                      |                     |





## **Appendix P**

### **Project Rainfall Log**

YEAR 2021

**Restaurant A & Restaurant B- Fayetteville, NY**  
**STORM WATER POLLUTION PREVENTION PLAN**  
**PROJECT RAINFALL LOG**

| Month       | Jan | Feb | Mar | Apr | May | June | July | Aug | Sep | Oct | Nov | Dec |
|-------------|-----|-----|-----|-----|-----|------|------|-----|-----|-----|-----|-----|
| Day         |     |     |     |     |     |      |      |     |     |     |     |     |
| 1           |     |     |     |     |     |      |      |     |     |     |     |     |
| 2           |     |     |     |     |     |      |      |     |     |     |     |     |
| 3           |     |     |     |     |     |      |      |     |     |     |     |     |
| 4           |     |     |     |     |     |      |      |     |     |     |     |     |
| 5           |     |     |     |     |     |      |      |     |     |     |     |     |
| 6           |     |     |     |     |     |      |      |     |     |     |     |     |
| 7           |     |     |     |     |     |      |      |     |     |     |     |     |
| 8           |     |     |     |     |     |      |      |     |     |     |     |     |
| 9           |     |     |     |     |     |      |      |     |     |     |     |     |
| 10          |     |     |     |     |     |      |      |     |     |     |     |     |
| 11          |     |     |     |     |     |      |      |     |     |     |     |     |
| 12          |     |     |     |     |     |      |      |     |     |     |     |     |
| 13          |     |     |     |     |     |      |      |     |     |     |     |     |
| 14          |     |     |     |     |     |      |      |     |     |     |     |     |
| 15          |     |     |     |     |     |      |      |     |     |     |     |     |
| 16          |     |     |     |     |     |      |      |     |     |     |     |     |
| 17          |     |     |     |     |     |      |      |     |     |     |     |     |
| 18          |     |     |     |     |     |      |      |     |     |     |     |     |
| 19          |     |     |     |     |     |      |      |     |     |     |     |     |
| 20          |     |     |     |     |     |      |      |     |     |     |     |     |
| 21          |     |     |     |     |     |      |      |     |     |     |     |     |
| 22          |     |     |     |     |     |      |      |     |     |     |     |     |
| 23          |     |     |     |     |     |      |      |     |     |     |     |     |
| 24          |     |     |     |     |     |      |      |     |     |     |     |     |
| 25          |     |     |     |     |     |      |      |     |     |     |     |     |
| 26          |     |     |     |     |     |      |      |     |     |     |     |     |
| 27          |     |     |     |     |     |      |      |     |     |     |     |     |
| 28          |     |     |     |     |     |      |      |     |     |     |     |     |
| 29          |     |     |     |     |     |      |      |     |     |     |     |     |
| 30          |     |     |     |     |     |      |      |     |     |     |     |     |
| 31          |     |     |     |     |     |      |      |     |     |     |     |     |
| PM Initials |     |     |     |     |     |      |      |     |     |     |     |     |

Note: Rainfall amounts are to be based on a 24-hour rainfall event, instead of a cumulative total of rainfall over several days.



## **Appendix Q**

### **Pre-Construction Meeting Attendance Record**



**STORM WATER POLLUTION PREVENTION PLAN  
OPTIONAL PRE-CONSTRUCTION MEETING AGENDA AND ATTENDANCE RECORD**

**Restaurant A & Restaurant B - Fayetteville, NY**

| Topic                                                                                                                                                                      | Discussed | Further action or Information Required (Yes or No) |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|----------------------------------------------------|
| Overview of SPDES Permit Program                                                                                                                                           |           |                                                    |
| General Discussion of SWPPP and Records Retention Requirements                                                                                                             |           |                                                    |
| Phasing of Project                                                                                                                                                         |           |                                                    |
| Review of Erosion and Sediment Control Plans (to include all temporary and permanent structural and stabilization measures)                                                |           |                                                    |
| Locating solid waste containers, portable toilets, concrete washout areas, fueling areas and tank storage area on Progress Drawing                                         |           |                                                    |
| Posting the Progress Drawing (marked on the Erosion and Sediment Control Plans) at job trailer                                                                             |           |                                                    |
| Posting requirements for the Notice of Intent (NOI), Must be posted at Project entrance and inside job trailer wall.                                                       |           |                                                    |
| Allowable non-storm water discharges and handling procedures                                                                                                               |           |                                                    |
| Materials management to include proper material storage, etc.                                                                                                              |           |                                                    |
| Signatory Authorization Delegation                                                                                                                                         |           |                                                    |
| Contractor's Certification                                                                                                                                                 |           |                                                    |
| Subcontractor's Certification                                                                                                                                              |           |                                                    |
| Inspection form and required inspection timeframe                                                                                                                          |           |                                                    |
| Stabilization schedule                                                                                                                                                     |           |                                                    |
| Implementation schedule                                                                                                                                                    |           |                                                    |
| Modification report and modifying plans                                                                                                                                    |           |                                                    |
| Final stabilization                                                                                                                                                        |           |                                                    |
| Reportable quantity release procedures                                                                                                                                     |           |                                                    |
| Rain gage requirement and rainfall logs                                                                                                                                    |           |                                                    |
| State specific requirements                                                                                                                                                |           |                                                    |
| Import/Export – Fill and Spoil Materials                                                                                                                                   |           |                                                    |
| SWPPP accessibility to regulatory officials                                                                                                                                |           |                                                    |
| Inspections – assisting and cooperating with regulatory officials – inspection reports and notices of violation (any response must be coordinated through Project Manager) |           |                                                    |

**Attendance Roster**

**Date:** \_\_\_\_\_

| Name | Company | Telephone Number | Signature |
|------|---------|------------------|-----------|
|      |         |                  |           |
|      |         |                  |           |
|      |         |                  |           |
|      |         |                  |           |
|      |         |                  |           |



\_\_\_\_\_

Items which require further action or additional information: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**\*This completed form must be included in both the Project Manager's and Construction Site SWPPP Ledger.**



## **Appendix R**

### **Drainage Calculations**

- 1. Existing Conditions Drainage Map and Hydrograph Reports**
- 2. Proposed Conditions Drainage Map and Hydrograph Reports**
- 3. Water Quality Volume & Runoff Reduction Volume**
- 4. Storm Sizing Calculations**





**015105 COR Existing**

Prepared by BERGMANN

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Restaurant A&B  
Type II 24-hr 1-yr Rainfall=2.04"

Printed 4/28/2021

Page 1

**Summary for Subcatchment E-1: Existing Drainage**

Runoff = 3.35 cfs @ 11.97 hrs, Volume= 0.163 af, Depth= 1.06"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 1.00-140.00 hrs, dt= 0.05 hrs  
Type II 24-hr 1-yr Rainfall=2.04"

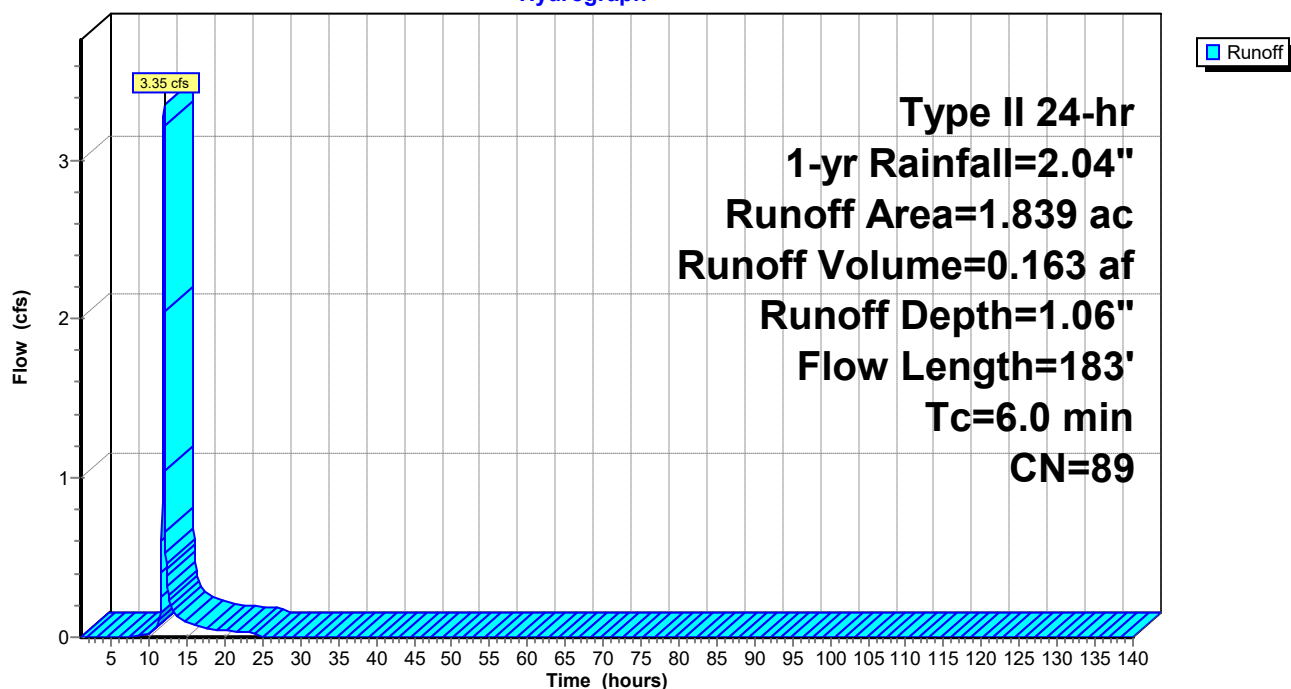
| Area (ac) | CN | Description                   |
|-----------|----|-------------------------------|
| 1.390     | 98 | Unconnected pavement, HSG B   |
| 0.449     | 61 | >75% Grass cover, Good, HSG B |
| 1.839     | 89 | Weighted Average              |
| 0.449     |    | 24.42% Pervious Area          |
| 1.390     |    | 75.58% Impervious Area        |
| 1.390     |    | 100.00% Unconnected           |

| Tc (min) | Length (feet) | Slope (ft/ft) | Velocity (ft/sec) | Capacity (cfs) | Description                            |
|----------|---------------|---------------|-------------------|----------------|----------------------------------------|
| 1.2      | 100           | 0.0280        | 1.36              |                | <b>Sheet Flow, Pavement Sheet Flow</b> |
|          |               |               |                   |                | Smooth surfaces n= 0.011 P2= 2.38"     |
| 0.4      | 83            | 0.0270        | 3.34              |                | <b>Shallow Concentrated Flow, BC</b>   |
|          |               |               |                   |                | Paved Kv= 20.3 fps                     |
| 4.4      |               |               |                   |                | <b>Direct Entry, Balance to 6 min</b>  |
| 6.0      | 183           | Total         |                   |                |                                        |

**Subcatchment E-1: Existing Drainage**

Hydrograph



**015105 COR Existing**

Prepared by BERGMANN

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Restaurant A&B  
Type II 24-hr 10-yr Rainfall=3.48"

Printed 4/28/2021

Page 2

**Summary for Subcatchment E-1: Existing Drainage**

Runoff = 7.19 cfs @ 11.97 hrs, Volume= 0.358 af, Depth= 2.34"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 1.00-140.00 hrs, dt= 0.05 hrs  
Type II 24-hr 10-yr Rainfall=3.48"

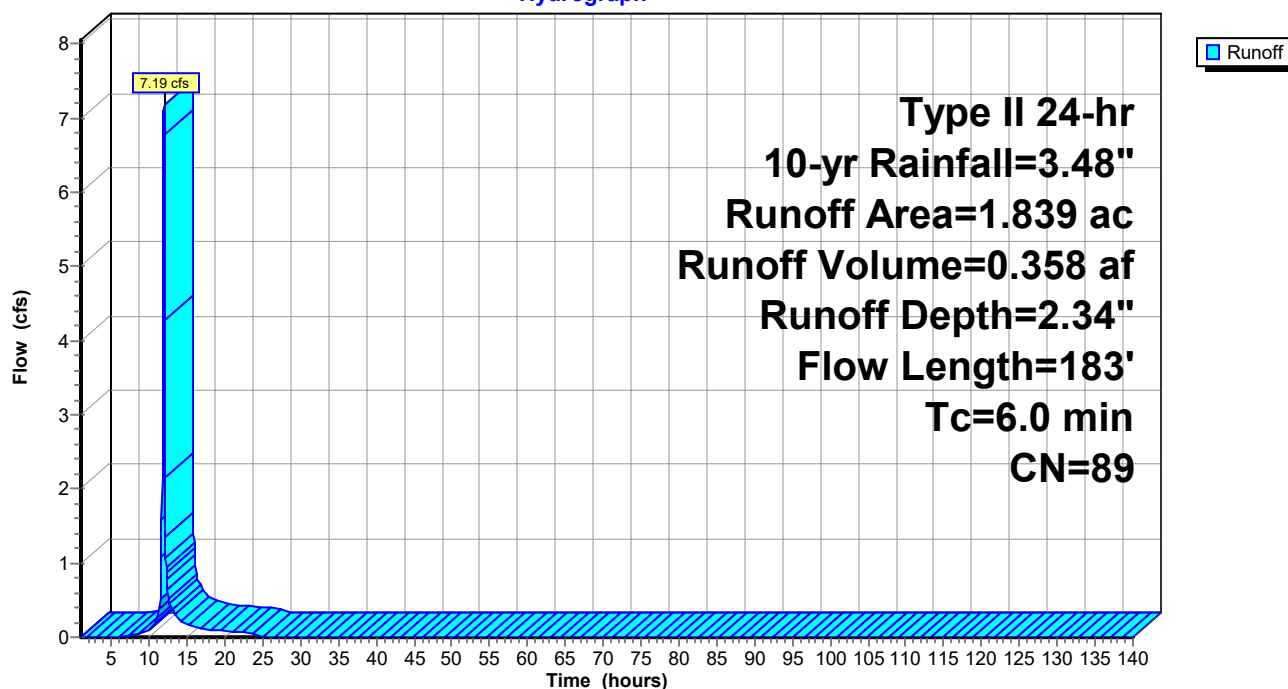
| Area (ac) | CN | Description                   |
|-----------|----|-------------------------------|
| 1.390     | 98 | Unconnected pavement, HSG B   |
| 0.449     | 61 | >75% Grass cover, Good, HSG B |
| 1.839     | 89 | Weighted Average              |
| 0.449     |    | 24.42% Pervious Area          |
| 1.390     |    | 75.58% Impervious Area        |
| 1.390     |    | 100.00% Unconnected           |

| Tc (min) | Length (feet) | Slope (ft/ft) | Velocity (ft/sec) | Capacity (cfs) | Description                            |
|----------|---------------|---------------|-------------------|----------------|----------------------------------------|
| 1.2      | 100           | 0.0280        | 1.36              |                | <b>Sheet Flow, Pavement Sheet Flow</b> |
|          |               |               |                   |                | Smooth surfaces n= 0.011 P2= 2.38"     |
| 0.4      | 83            | 0.0270        | 3.34              |                | <b>Shallow Concentrated Flow, BC</b>   |
|          |               |               |                   |                | Paved Kv= 20.3 fps                     |
| 4.4      |               |               |                   |                | <b>Direct Entry, Balance to 6 min</b>  |
| 6.0      | 183           | Total         |                   |                |                                        |

**Subcatchment E-1: Existing Drainage**

Hydrograph



**015105 COR Existing**

Prepared by BERGMANN

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Restaurant A&B  
Type II 24-hr 100-yr Rainfall=5.17"

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Page 3

**Summary for Subcatchment E-1: Existing Drainage**

Runoff = 11.75 cfs @ 11.96 hrs, Volume= 0.603 af, Depth= 3.93"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 1.00-140.00 hrs, dt= 0.05 hrs  
Type II 24-hr 100-yr Rainfall=5.17"

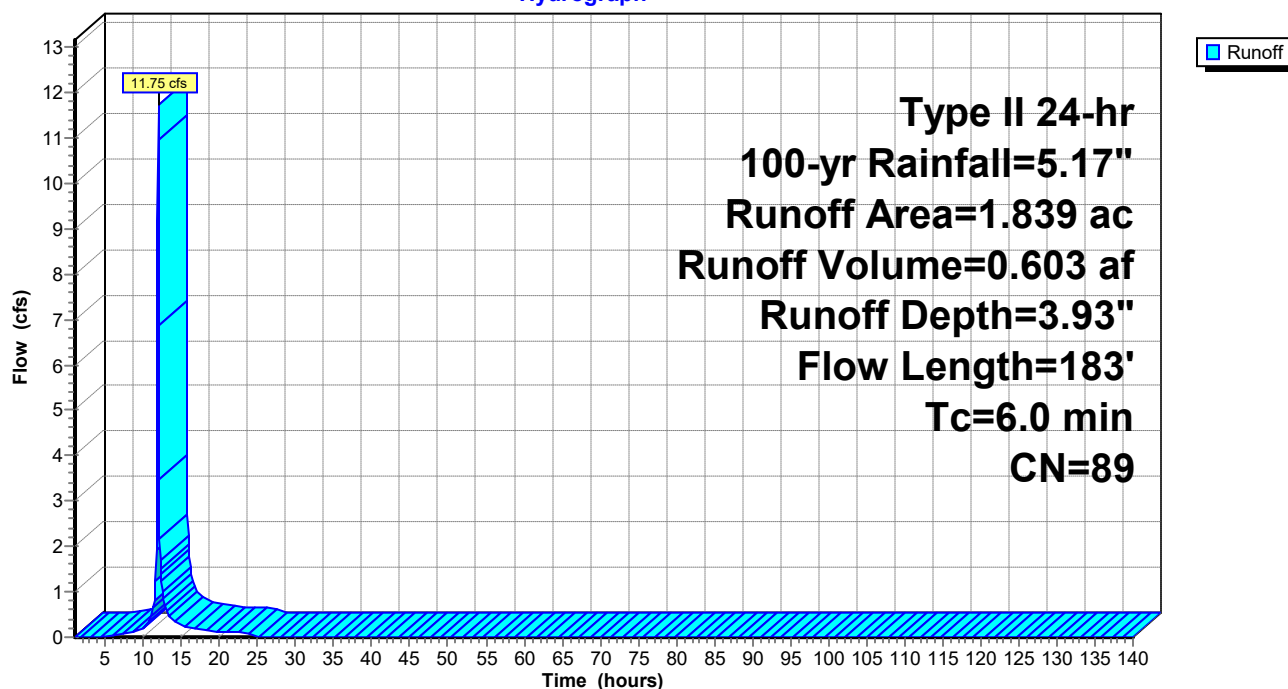
| Area (ac) | CN | Description                   |
|-----------|----|-------------------------------|
| 1.390     | 98 | Unconnected pavement, HSG B   |
| 0.449     | 61 | >75% Grass cover, Good, HSG B |
| 1.839     | 89 | Weighted Average              |
| 0.449     |    | 24.42% Pervious Area          |
| 1.390     |    | 75.58% Impervious Area        |
| 1.390     |    | 100.00% Unconnected           |

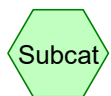
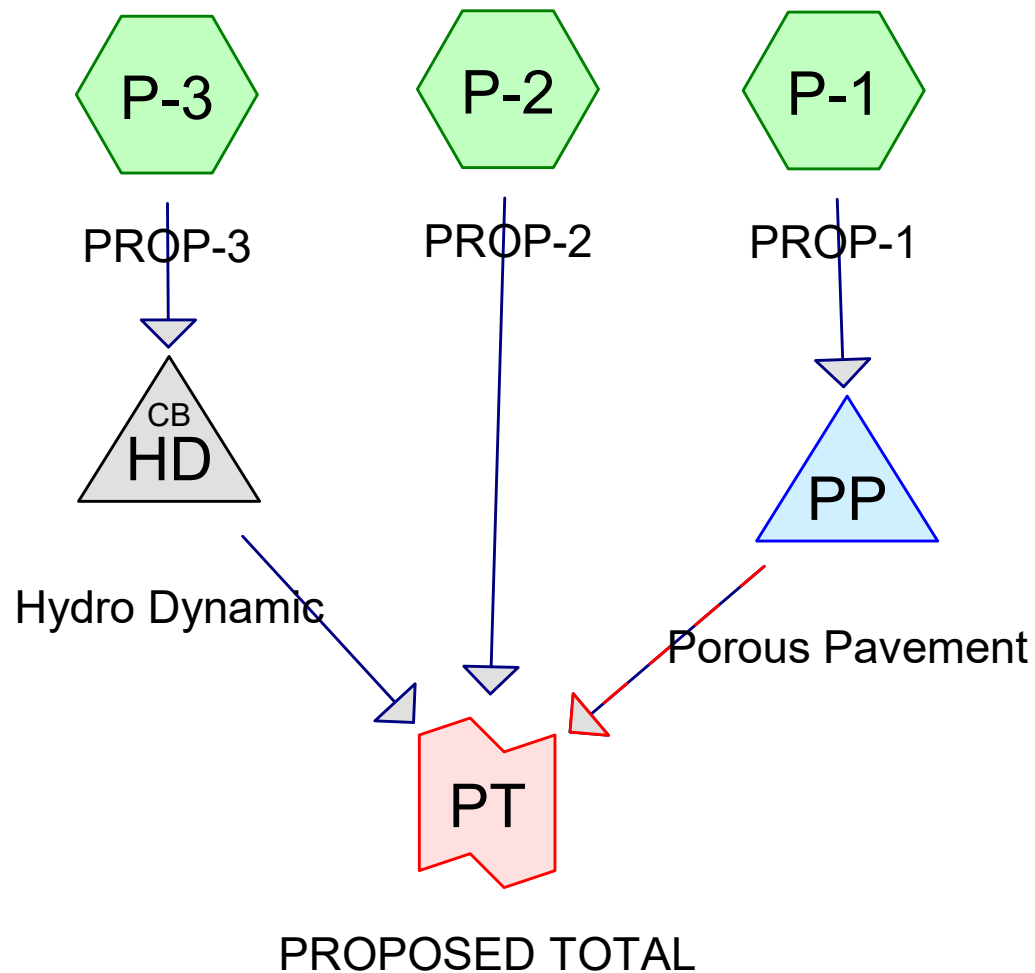
  

| Tc (min) | Length (feet) | Slope (ft/ft) | Velocity (ft/sec) | Capacity (cfs) | Description                            |
|----------|---------------|---------------|-------------------|----------------|----------------------------------------|
| 1.2      | 100           | 0.0280        | 1.36              |                | <b>Sheet Flow, Pavement Sheet Flow</b> |
|          |               |               |                   |                | Smooth surfaces n= 0.011 P2= 2.38"     |
| 0.4      | 83            | 0.0270        | 3.34              |                | <b>Shallow Concentrated Flow, BC</b>   |
|          |               |               |                   |                | Paved Kv= 20.3 fps                     |
| 4.4      |               |               |                   |                | <b>Direct Entry, Balance to 6 min</b>  |
| 6.0      | 183           | Total         |                   |                |                                        |

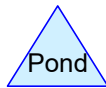
**Subcatchment E-1: Existing Drainage**

Hydrograph





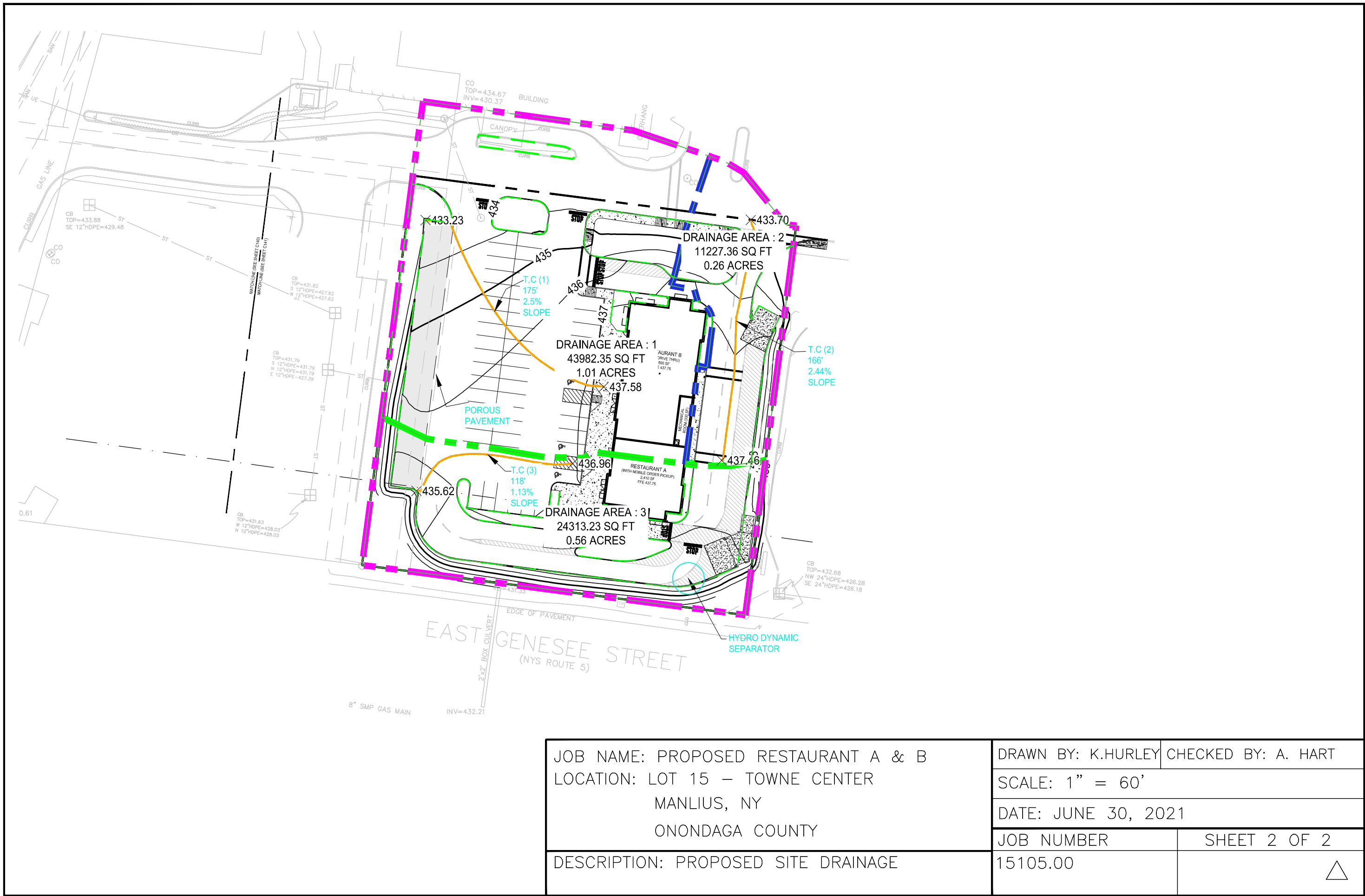
Reach



**Routing Diagram for 015105 COR Proposed**

Prepared by VRTHOR2012, Printed 6/30/2021

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**015105 COR Proposed**

Prepared by VRTHOR2012

HydroCAD® 10.00-24 s/n 03498 © 2018 HydroCAD Software Solutions LLC

Type II 24-hr 1-yr Rainfall=2.04"

Printed 6/30/2021

Page 1

**Summary for Subcatchment P-1: PROP-1**

Runoff = 2.17 cfs @ 11.97 hrs, Volume= 0.107 af, Depth= 1.27"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 1.00-140.00 hrs, dt= 0.05 hrs  
Type II 24-hr 1-yr Rainfall=2.04"

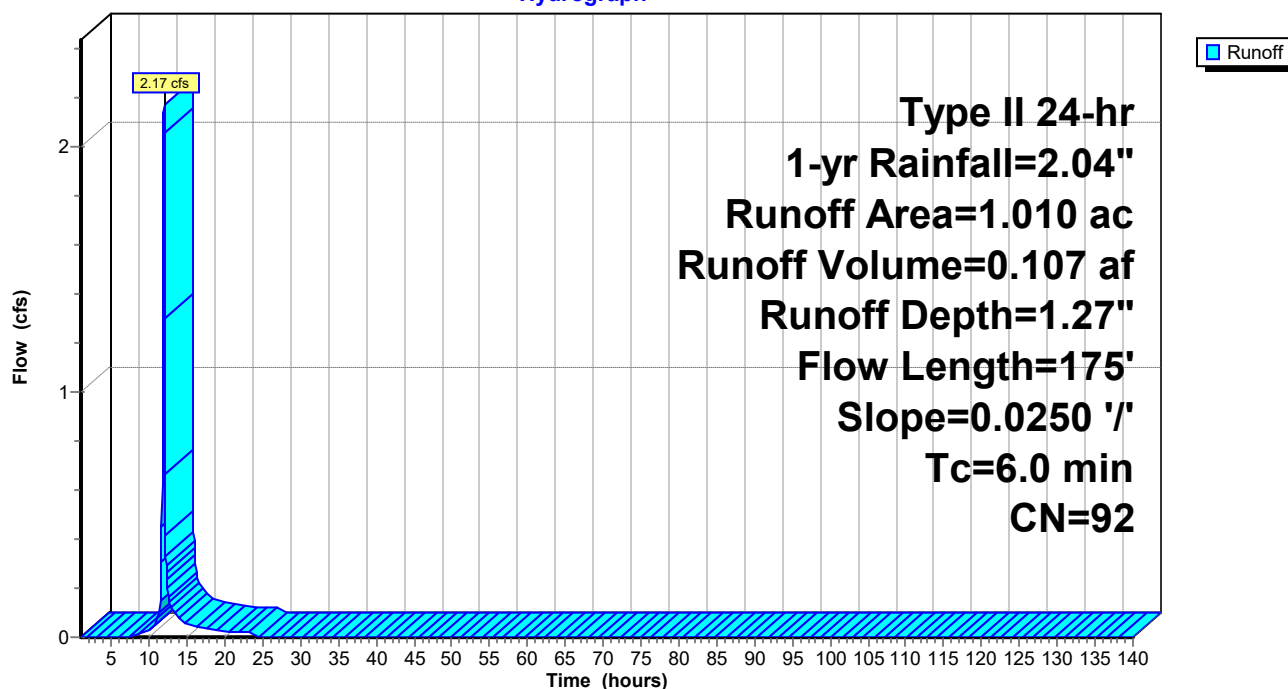
| Area (ac) | CN | Description                   |
|-----------|----|-------------------------------|
| * 0.066   | 70 | Porous Pavement               |
| 0.819     | 98 | Unconnected roofs, HSG B      |
| 0.125     | 61 | >75% Grass cover, Good, HSG B |
| 1.010     | 92 | Weighted Average              |
| 0.191     |    | 18.91% Pervious Area          |
| 0.819     |    | 81.09% Impervious Area        |
| 0.819     |    | 100.00% Unconnected           |

| Tc (min) | Length (feet) | Slope (ft/ft) | Velocity (ft/sec) | Capacity (cfs) | Description                            |
|----------|---------------|---------------|-------------------|----------------|----------------------------------------|
| 1.3      | 100           | 0.0250        | 1.30              |                | <b>Sheet Flow, AB</b>                  |
|          |               |               |                   |                | Smooth surfaces n= 0.011 P2= 2.38"     |
| 0.4      | 75            | 0.0250        | 3.21              |                | <b>Shallow Concentrated Flow, BC</b>   |
|          |               |               |                   |                | Paved Kv= 20.3 fps                     |
| 4.3      |               |               |                   |                | <b>Direct Entry, Min Tc Correction</b> |
| 6.0      | 175           | Total         |                   |                |                                        |

**Subcatchment P-1: PROP-1**

Hydrograph



**015105 COR Proposed**

Prepared by VRTHOR2012

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Type II 24-hr 1-yr Rainfall=2.04"

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Page 2

**Summary for Subcatchment P-2: PROP-2**

Runoff = 0.45 cfs @ 11.97 hrs, Volume= 0.022 af, Depth= 1.00"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 1.00-140.00 hrs, dt= 0.05 hrs  
Type II 24-hr 1-yr Rainfall=2.04"

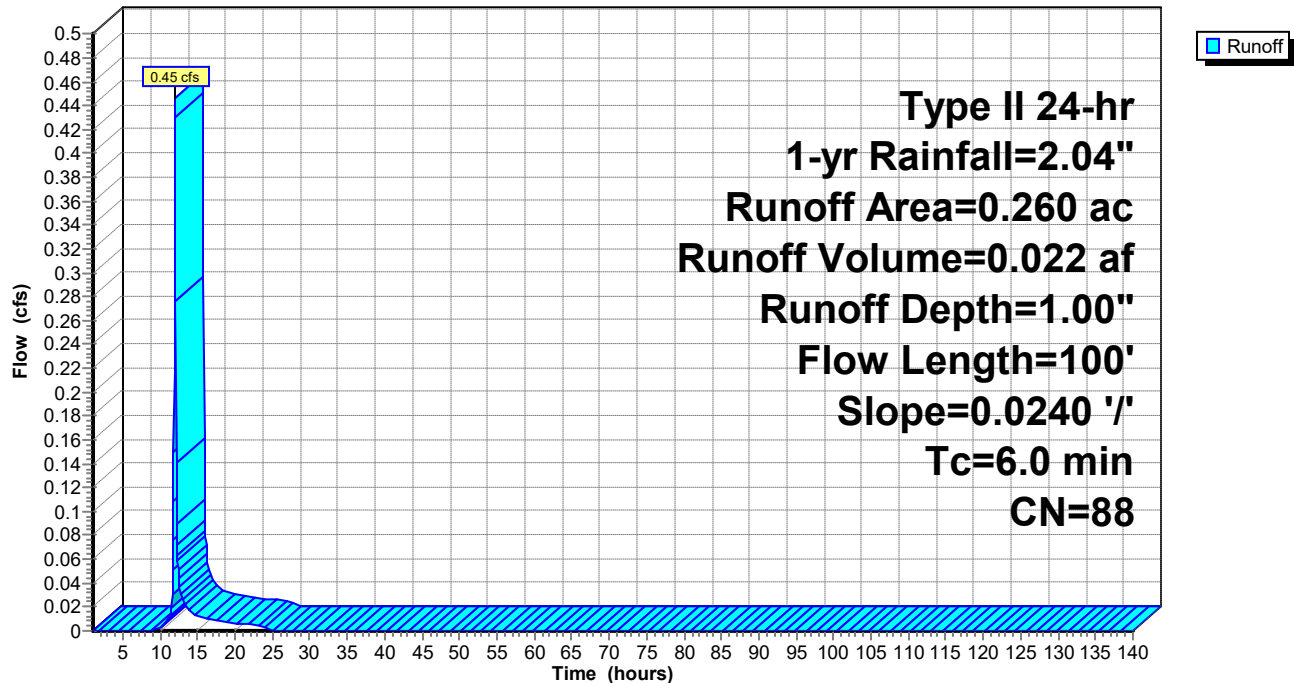
| Area (ac) | CN | Description                   |
|-----------|----|-------------------------------|
| 0.072     | 61 | >75% Grass cover, Good, HSG B |
| 0.188     | 98 | Unconnected roofs, HSG B      |
| 0.260     | 88 | Weighted Average              |
| 0.072     |    | 27.69% Pervious Area          |
| 0.188     |    | 72.31% Impervious Area        |
| 0.188     |    | 100.00% Unconnected           |

| Tc (min) | Length (feet) | Slope (ft/ft) | Velocity (ft/sec) | Capacity (cfs) | Description                            |
|----------|---------------|---------------|-------------------|----------------|----------------------------------------|
| 1.3      | 100           | 0.0240        | 1.28              |                | <b>Sheet Flow, AB</b>                  |
|          |               |               |                   |                | Smooth surfaces n= 0.011 P2= 2.38"     |
| 4.7      |               |               |                   |                | <b>Direct Entry, Min Tc Correction</b> |
| 6.0      | 100           | Total         |                   |                |                                        |

**Subcatchment P-2: PROP-2**

Hydrograph



**015105 COR Proposed**

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Type II 24-hr 1-yr Rainfall=2.04"

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Page 3

**Summary for Subcatchment P-3: PROP-3**

Runoff = 0.80 cfs @ 11.98 hrs, Volume= 0.038 af, Depth= 0.82"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 1.00-140.00 hrs, dt= 0.05 hrs  
Type II 24-hr 1-yr Rainfall=2.04"

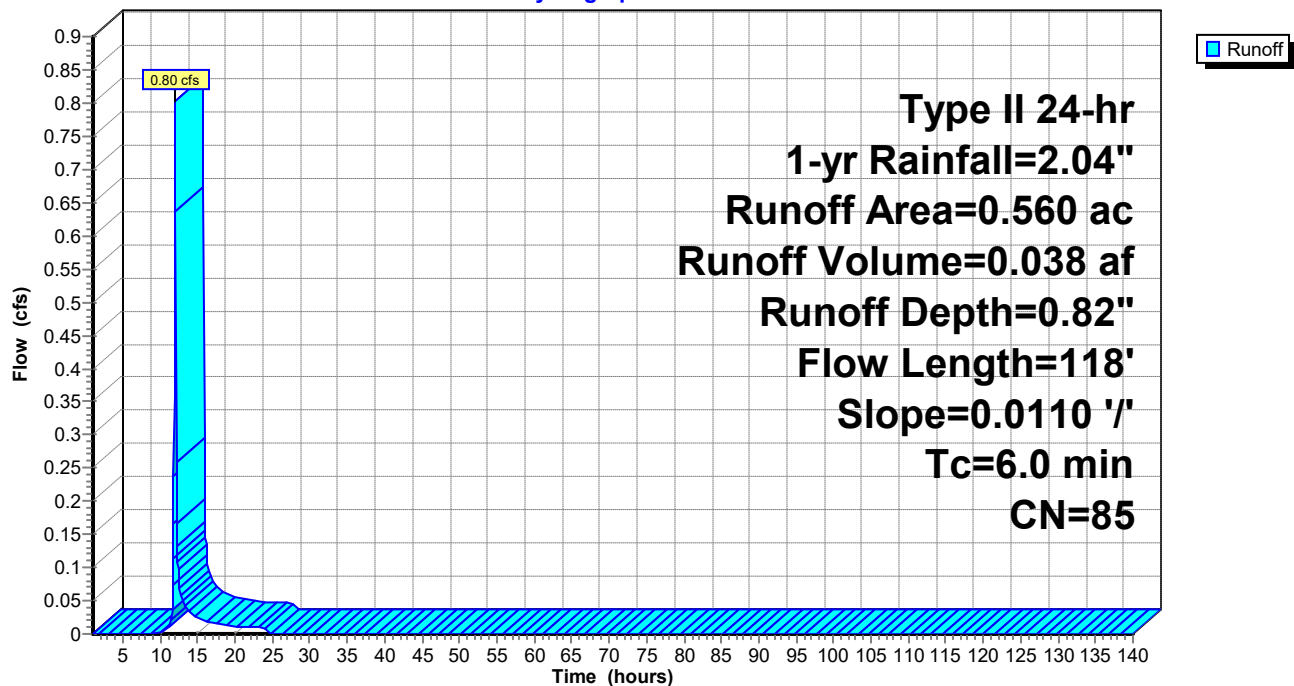
| Area (ac) | CN | Description                   |
|-----------|----|-------------------------------|
| 0.193     | 61 | >75% Grass cover, Good, HSG B |
| 0.367     | 98 | Unconnected pavement, HSG B   |
| 0.560     | 85 | Weighted Average              |
| 0.193     |    | 34.46% Pervious Area          |
| 0.367     |    | 65.54% Impervious Area        |
| 0.367     |    | 100.00% Unconnected           |

| Tc (min) | Length (feet) | Slope (ft/ft) | Velocity (ft/sec) | Capacity (cfs) | Description                            |
|----------|---------------|---------------|-------------------|----------------|----------------------------------------|
| 1.8      | 100           | 0.0110        | 0.93              |                | <b>Sheet Flow, AB</b>                  |
|          |               |               |                   |                | Smooth surfaces n= 0.011 P2= 2.38"     |
| 0.1      | 18            | 0.0110        | 2.13              |                | <b>Shallow Concentrated Flow, BC</b>   |
|          |               |               |                   |                | Paved Kv= 20.3 fps                     |
| 4.1      |               |               |                   |                | <b>Direct Entry, Min Tc Correction</b> |
| 6.0      | 118           | Total         |                   |                |                                        |

**Subcatchment P-3: PROP-3**

Hydrograph



### Summary for Pond HD: Hydro Dynamic

Inflow Area = 0.560 ac, 65.54% Impervious, Inflow Depth = 0.82" for 1-yr event  
 Inflow = 0.80 cfs @ 11.98 hrs, Volume= 0.038 af  
 Outflow = 0.80 cfs @ 11.98 hrs, Volume= 0.038 af, Atten= 0%, Lag= 0.0 min  
 Primary = 0.80 cfs @ 11.98 hrs, Volume= 0.038 af

Routing by Dyn-Stor-Ind method, Time Span= 1.00-140.00 hrs, dt= 0.05 hrs

Peak Elev= 426.80' @ 11.98 hrs

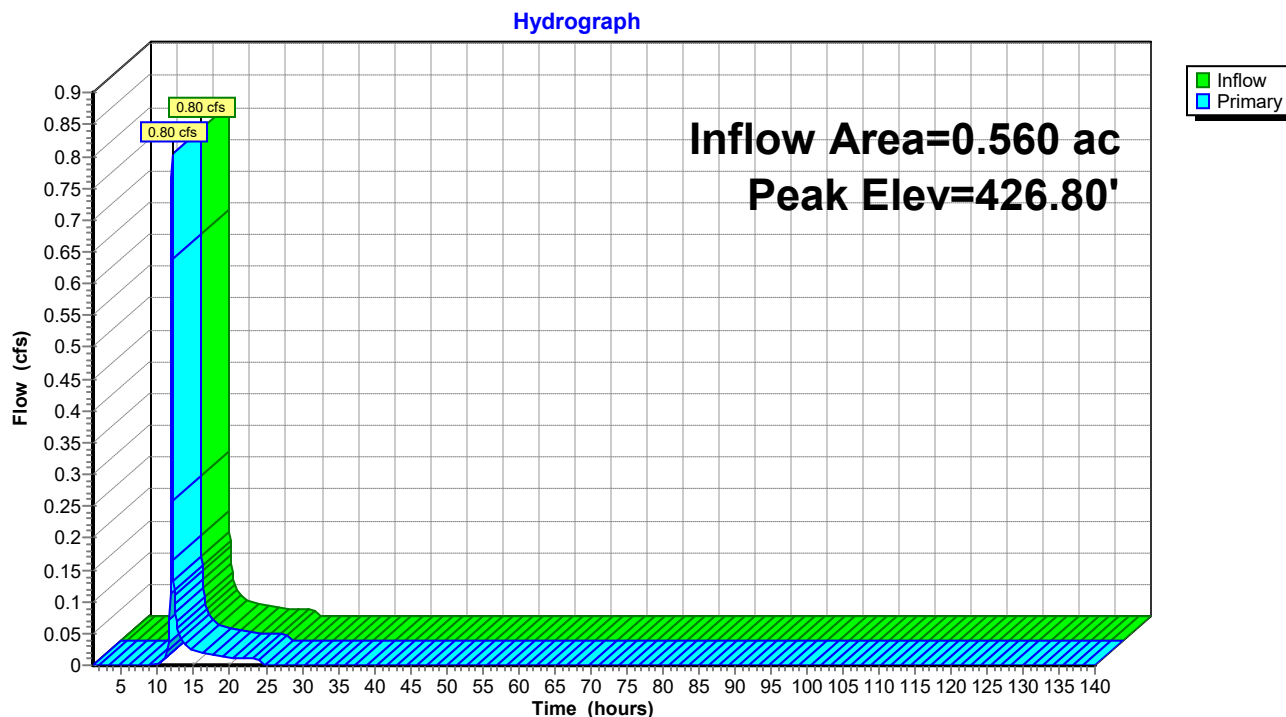
| Device | Routing  | Invert  | Outlet Devices                    |
|--------|----------|---------|-----------------------------------|
| #1     | Device 2 | 426.43' | <b>24.0" Vert. INLET</b> C= 0.600 |
| #2     | Primary  | 426.43' | <b>20.000 cfs Constant Flow</b>   |

**Primary OutFlow** Max=0.77 cfs @ 11.98 hrs HW=426.79' TW=0.00' (Dynamic Tailwater)

2=Constant Flow (Passes 0.77 cfs of 20.00 cfs potential flow)

1=INLET (Orifice Controls 0.77 cfs @ 2.03 fps)

### Pond HD: Hydro Dynamic



**Summary for Pond PP: Porous Pavement**

Inflow Area = 1.010 ac, 81.09% Impervious, Inflow Depth = 1.27" for 1-yr event  
 Inflow = 2.17 cfs @ 11.97 hrs, Volume= 0.107 af  
 Outflow = 0.32 cfs @ 11.80 hrs, Volume= 0.107 af, Atten= 85%, Lag= 0.0 min  
 Discarded = 0.32 cfs @ 11.80 hrs, Volume= 0.107 af  
 Primary = 0.00 cfs @ 1.00 hrs, Volume= 0.000 af  
 Secondary = 0.00 cfs @ 1.00 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 1.00-140.00 hrs, dt= 0.05 hrs

Peak Elev= 431.46' @ 12.21 hrs Surf.Area= 0.080 ac Storage= 0.033 af

Plug-Flow detention time= (not calculated: outflow precedes inflow)

Center-of-Mass det. time= 26.9 min ( 838.9 - 812.0 )

| Volume | Invert | Avail.Storage | Storage Description |
|--------|--------|---------------|---------------------|
|--------|--------|---------------|---------------------|

|    |         |           |                                                                                           |
|----|---------|-----------|-------------------------------------------------------------------------------------------|
| #1 | 430.42' | 14.915 af | <b>Custom Stage Data (Conic)</b> Listed below (Recalc)<br>37.287 af Overall x 40.0% Voids |
|----|---------|-----------|-------------------------------------------------------------------------------------------|

| Elevation<br>(feet) | Surf.Area<br>(acres) | Inc.Store<br>(acre-feet) | Cum.Store<br>(acre-feet) | Wet.Area<br>(acres) |
|---------------------|----------------------|--------------------------|--------------------------|---------------------|
| 430.42              | 0.080                | 0.000                    | 0.000                    | 0.080               |
| 433.42              | 0.080                | 0.240                    | 0.240                    | 0.094               |
| 434.50              | 100.000              | 37.047                   | 37.287                   | 100.014             |

| Device | Routing | Invert | Outlet Devices |
|--------|---------|--------|----------------|
|--------|---------|--------|----------------|

|    |           |         |                                                                                                                                                                                                                           |
|----|-----------|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| #1 | Primary   | 428.21' | <b>15.0" Round Culvert</b><br>L= 141.0' CPP, square edge headwall, Ke= 0.500<br>Inlet / Outlet Invert= 428.21' / 427.50' S= 0.0050 ' S= 0.0050 ' Cc= 0.900<br>n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf |
| #2 | Discarded | 430.42' | <b>4.000 in/hr Exfiltration over Horizontal area</b>                                                                                                                                                                      |
| #3 | Device 1  | 433.62' | <b>36.0" x 36.0" Horiz. Orifice/Grate</b> C= 0.600<br>Limited to weir flow at low heads                                                                                                                                   |
| #4 | Secondary | 434.12' | <b>25.0' long x 10.0' breadth Broad-Crested Rectangular Weir</b><br>Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60<br>Coef. (English) 2.49 2.56 2.70 2.69 2.68 2.69 2.67 2.64                                        |

**Discarded OutFlow** Max=0.32 cfs @ 11.80 hrs HW=430.51' (Free Discharge)

↑ **2=Exfiltration** (Exfiltration Controls 0.32 cfs)

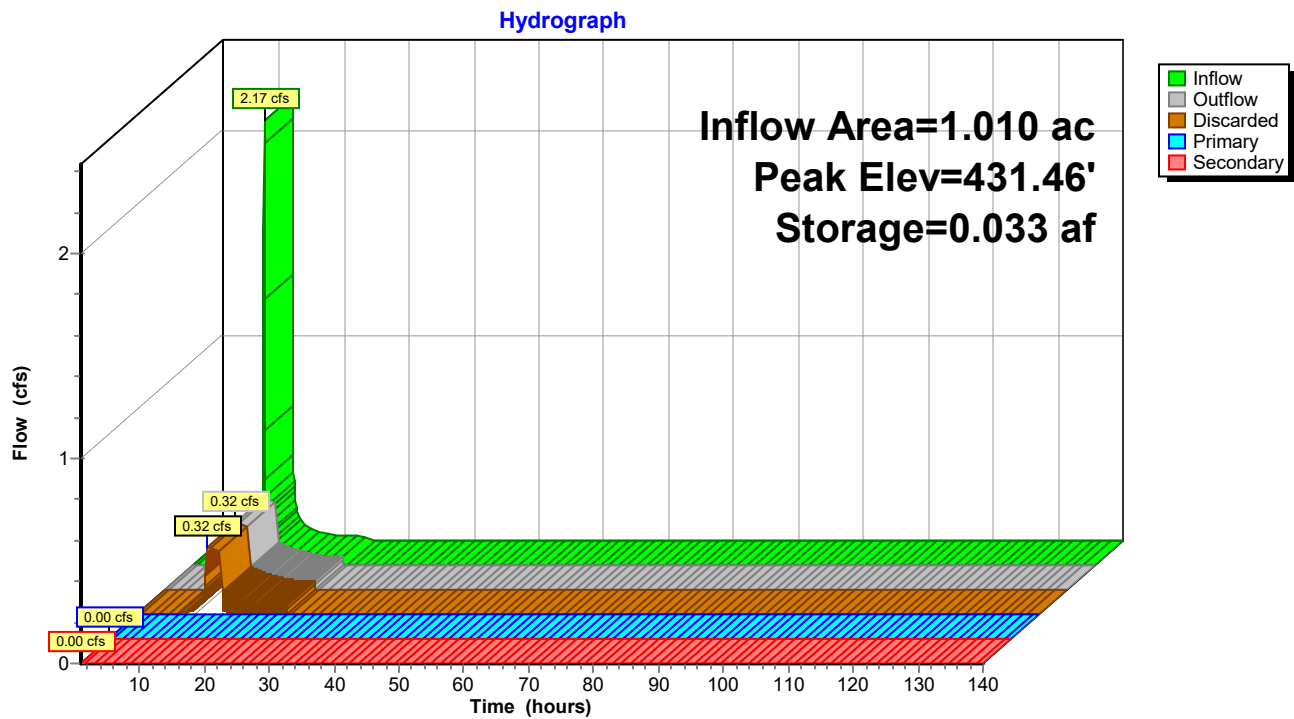
**Primary OutFlow** Max=0.00 cfs @ 1.00 hrs HW=430.42' TW=0.00' (Dynamic Tailwater)

↑ **1=Culvert** (Passes 0.00 cfs of 5.82 cfs potential flow)

↑ **3=Orifice/Grate** ( Controls 0.00 cfs)

**Secondary OutFlow** Max=0.00 cfs @ 1.00 hrs HW=430.42' TW=0.00' (Dynamic Tailwater)

↑ **4=Broad-Crested Rectangular Weir** ( Controls 0.00 cfs)

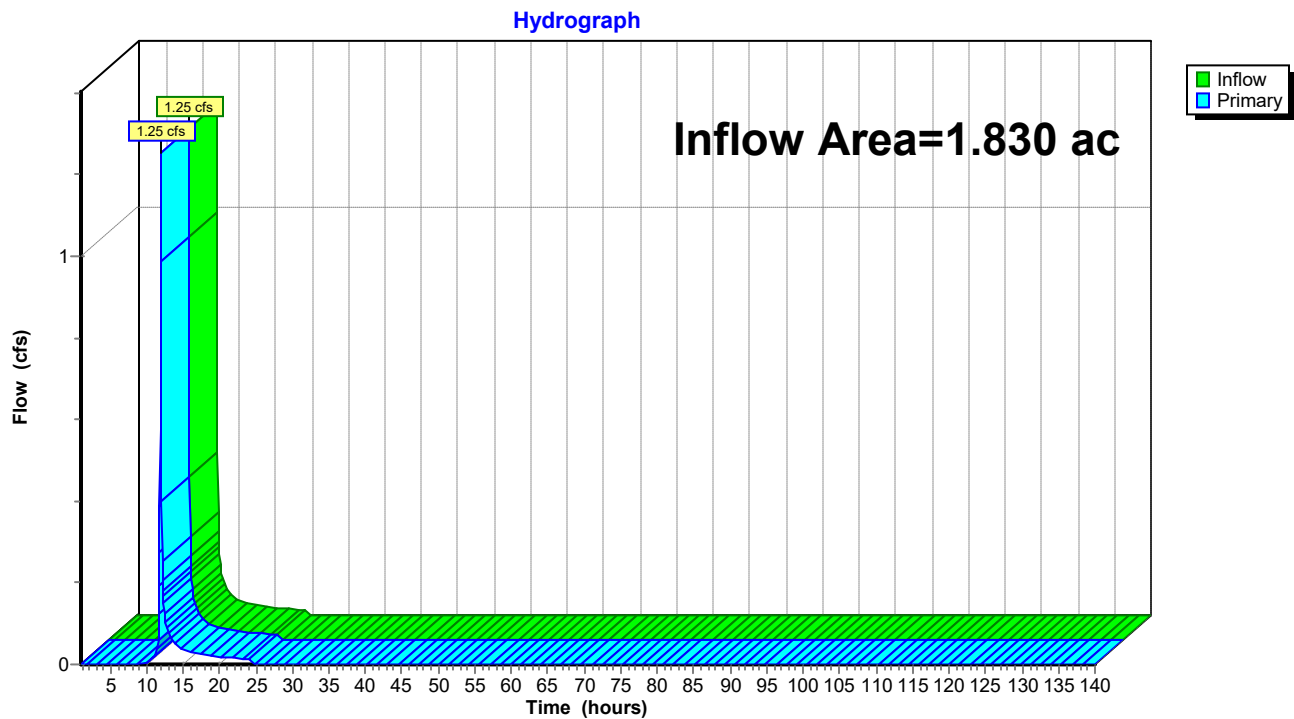
**Pond PP: Porous Pavement**



**Summary for Link PT: PROPOSED TOTAL**

Inflow Area = 1.830 ac, 75.08% Impervious, Inflow Depth = 0.39" for 1-yr event  
Inflow = 1.25 cfs @ 11.98 hrs, Volume= 0.060 af  
Primary = 1.25 cfs @ 11.98 hrs, Volume= 0.060 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 1.00-140.00 hrs, dt= 0.05 hrs

**Link PT: PROPOSED TOTAL**

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Type II 24-hr 10-yr Rainfall=3.43"

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**Summary for Subcatchment P-1: PROP-1**

Runoff = 4.23 cfs @ 11.96 hrs, Volume= 0.216 af, Depth= 2.57"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 1.00-140.00 hrs, dt= 0.05 hrs  
Type II 24-hr 10-yr Rainfall=3.43"

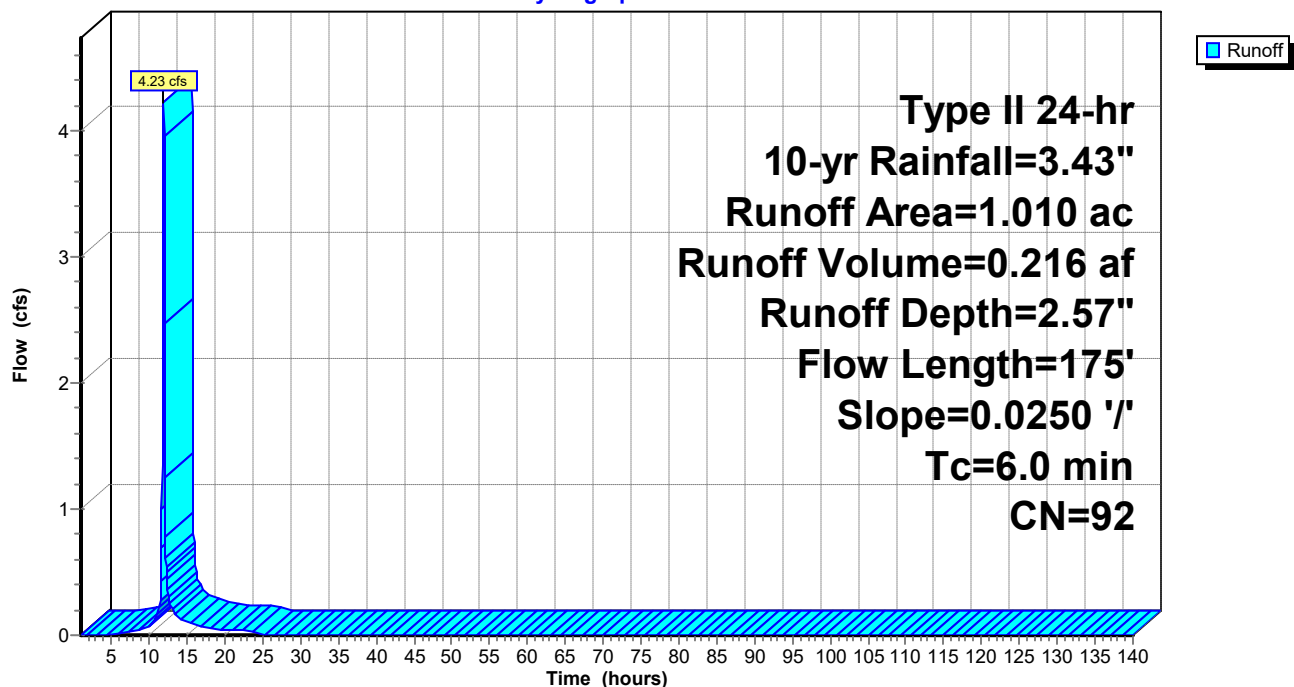
| Area (ac) | CN | Description                   |
|-----------|----|-------------------------------|
| * 0.066   | 70 | Porous Pavement               |
| 0.819     | 98 | Unconnected roofs, HSG B      |
| 0.125     | 61 | >75% Grass cover, Good, HSG B |
| 1.010     | 92 | Weighted Average              |
| 0.191     |    | 18.91% Pervious Area          |
| 0.819     |    | 81.09% Impervious Area        |
| 0.819     |    | 100.00% Unconnected           |

| Tc (min) | Length (feet) | Slope (ft/ft) | Velocity (ft/sec) | Capacity (cfs) | Description                            |
|----------|---------------|---------------|-------------------|----------------|----------------------------------------|
| 1.3      | 100           | 0.0250        | 1.30              |                | <b>Sheet Flow, AB</b>                  |
|          |               |               |                   |                | Smooth surfaces n= 0.011 P2= 2.38"     |
| 0.4      | 75            | 0.0250        | 3.21              |                | <b>Shallow Concentrated Flow, BC</b>   |
|          |               |               |                   |                | Paved Kv= 20.3 fps                     |
| 4.3      |               |               |                   |                | <b>Direct Entry, Min Tc Correction</b> |
| 6.0      | 175           | Total         |                   |                |                                        |

**Subcatchment P-1: PROP-1**

Hydrograph



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Type II 24-hr 10-yr Rainfall=3.43"

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**Summary for Subcatchment P-2: PROP-2**

Runoff = 0.97 cfs @ 11.97 hrs, Volume= 0.048 af, Depth= 2.20"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 1.00-140.00 hrs, dt= 0.05 hrs  
Type II 24-hr 10-yr Rainfall=3.43"

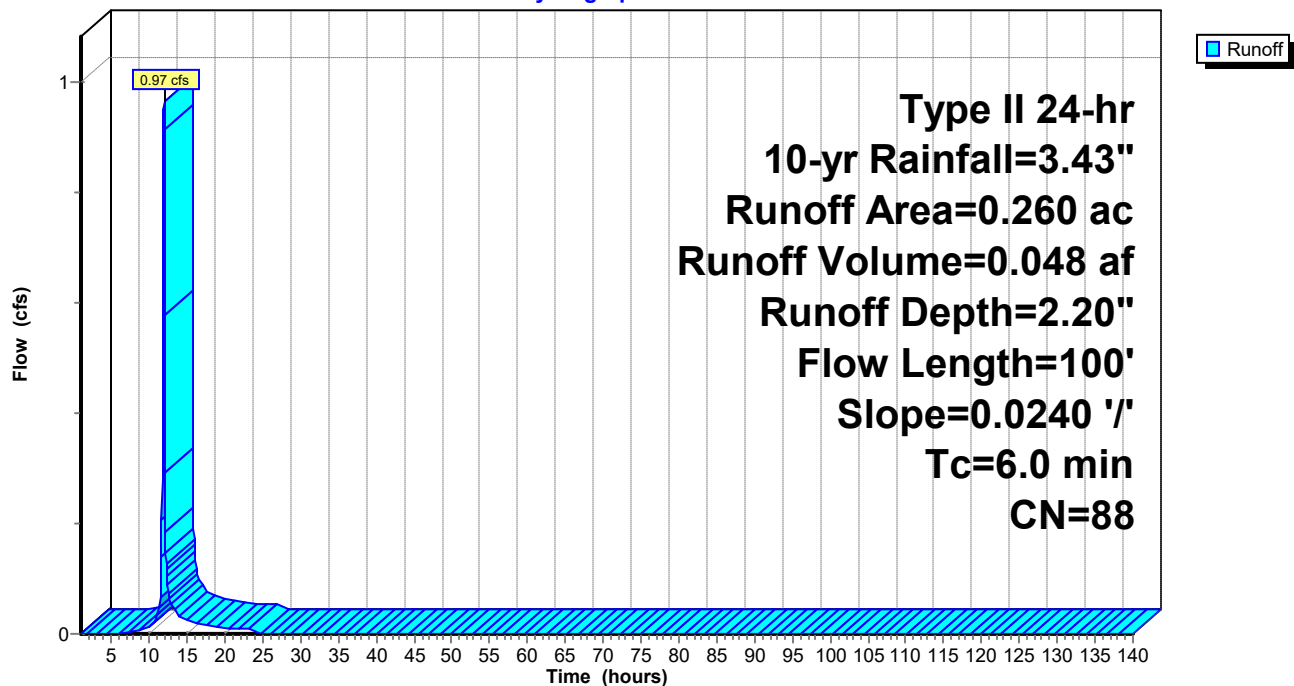
| Area (ac) | CN | Description                   |
|-----------|----|-------------------------------|
| 0.072     | 61 | >75% Grass cover, Good, HSG B |
| 0.188     | 98 | Unconnected roofs, HSG B      |
| 0.260     | 88 | Weighted Average              |
| 0.072     |    | 27.69% Pervious Area          |
| 0.188     |    | 72.31% Impervious Area        |
| 0.188     |    | 100.00% Unconnected           |

| Tc (min) | Length (feet) | Slope (ft/ft) | Velocity (ft/sec) | Capacity (cfs) | Description                            |
|----------|---------------|---------------|-------------------|----------------|----------------------------------------|
| 1.3      | 100           | 0.0240        | 1.28              |                | <b>Sheet Flow, AB</b>                  |
|          |               |               |                   |                | Smooth surfaces n= 0.011 P2= 2.38"     |
| 4.7      |               |               |                   |                | <b>Direct Entry, Min Tc Correction</b> |
| 6.0      | 100           | Total         |                   |                |                                        |

**Subcatchment P-2: PROP-2**

Hydrograph



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Type II 24-hr 10-yr Rainfall=3.43"

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**Summary for Subcatchment P-3: PROP-3**

Runoff = 1.87 cfs @ 11.97 hrs, Volume= 0.091 af, Depth= 1.96"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 1.00-140.00 hrs, dt= 0.05 hrs  
Type II 24-hr 10-yr Rainfall=3.43"

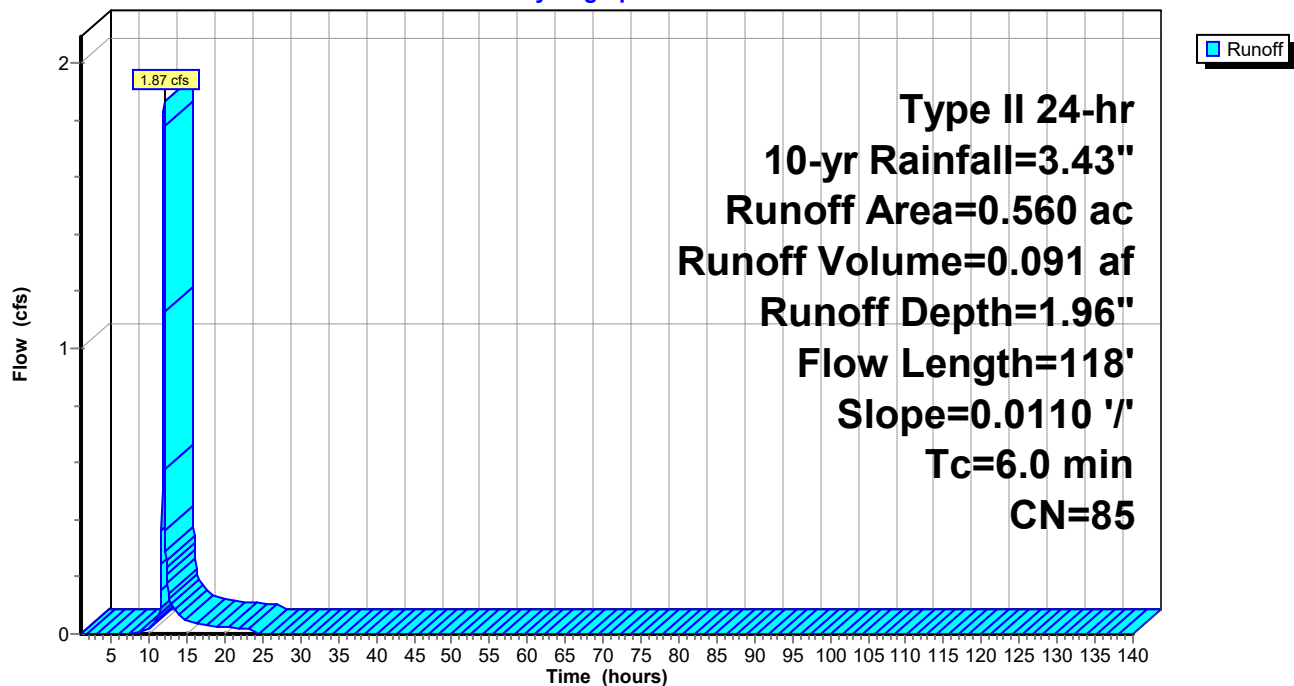
| Area (ac) | CN | Description                   |
|-----------|----|-------------------------------|
| 0.193     | 61 | >75% Grass cover, Good, HSG B |
| 0.367     | 98 | Unconnected pavement, HSG B   |
| 0.560     | 85 | Weighted Average              |
| 0.193     |    | 34.46% Pervious Area          |
| 0.367     |    | 65.54% Impervious Area        |
| 0.367     |    | 100.00% Unconnected           |

| Tc (min) | Length (feet) | Slope (ft/ft) | Velocity (ft/sec) | Capacity (cfs) | Description                            |
|----------|---------------|---------------|-------------------|----------------|----------------------------------------|
| 1.8      | 100           | 0.0110        | 0.93              |                | <b>Sheet Flow, AB</b>                  |
|          |               |               |                   |                | Smooth surfaces n= 0.011 P2= 2.38"     |
| 0.1      | 18            | 0.0110        | 2.13              |                | <b>Shallow Concentrated Flow, BC</b>   |
|          |               |               |                   |                | Paved Kv= 20.3 fps                     |
| 4.1      |               |               |                   |                | <b>Direct Entry, Min Tc Correction</b> |
| 6.0      | 118           | Total         |                   |                |                                        |

**Subcatchment P-3: PROP-3**

Hydrograph



### Summary for Pond HD: Hydro Dynamic

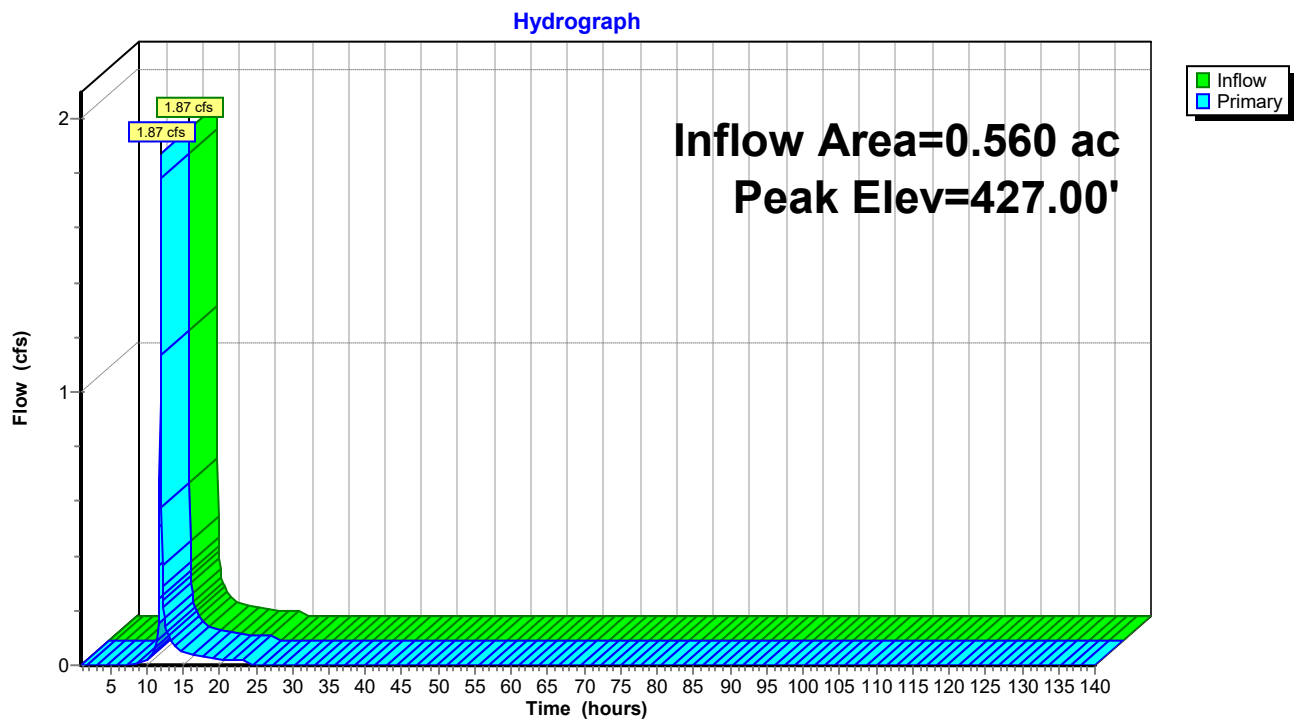
Inflow Area = 0.560 ac, 65.54% Impervious, Inflow Depth = 1.96" for 10-yr event  
 Inflow = 1.87 cfs @ 11.97 hrs, Volume= 0.091 af  
 Outflow = 1.87 cfs @ 11.97 hrs, Volume= 0.091 af, Atten= 0%, Lag= 0.0 min  
 Primary = 1.87 cfs @ 11.97 hrs, Volume= 0.091 af

Routing by Dyn-Stor-Ind method, Time Span= 1.00-140.00 hrs, dt= 0.05 hrs  
 Peak Elev= 427.00' @ 11.97 hrs

| Device | Routing  | Invert  | Outlet Devices                    |
|--------|----------|---------|-----------------------------------|
| #1     | Device 2 | 426.43' | <b>24.0" Vert. INLET</b> C= 0.600 |
| #2     | Primary  | 426.43' | <b>20.000 cfs Constant Flow</b>   |

**Primary OutFlow** Max=1.81 cfs @ 11.97 hrs HW=426.99' TW=0.00' (Dynamic Tailwater)  
 ↳ **2=Constant Flow** (Passes 1.81 cfs of 20.00 cfs potential flow)  
 ↳ **1=INLET** (Orifice Controls 1.81 cfs @ 2.54 fps)

### Pond HD: Hydro Dynamic



**Summary for Pond PP: Porous Pavement**

Inflow Area = 1.010 ac, 81.09% Impervious, Inflow Depth = 2.57" for 10-yr event  
 Inflow = 4.23 cfs @ 11.96 hrs, Volume= 0.216 af  
 Outflow = 0.32 cfs @ 11.70 hrs, Volume= 0.217 af, Atten= 92%, Lag= 0.0 min  
 Discarded = 0.32 cfs @ 11.70 hrs, Volume= 0.217 af  
 Primary = 0.00 cfs @ 1.00 hrs, Volume= 0.000 af  
 Secondary = 0.00 cfs @ 1.00 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 1.00-140.00 hrs, dt= 0.05 hrs  
 Peak Elev= 433.09' @ 12.54 hrs Surf.Area= 0.080 ac Storage= 0.085 af

Plug-Flow detention time= (not calculated: outflow precedes inflow)  
 Center-of-Mass det. time= 82.7 min ( 874.9 - 792.1 )

| Volume | Invert | Avail.Storage | Storage Description |
|--------|--------|---------------|---------------------|
|--------|--------|---------------|---------------------|

|    |         |           |                                                                                           |
|----|---------|-----------|-------------------------------------------------------------------------------------------|
| #1 | 430.42' | 14.915 af | <b>Custom Stage Data (Conic)</b> Listed below (Recalc)<br>37.287 af Overall x 40.0% Voids |
|----|---------|-----------|-------------------------------------------------------------------------------------------|

| Elevation<br>(feet) | Surf.Area<br>(acres) | Inc.Store<br>(acre-feet) | Cum.Store<br>(acre-feet) | Wet.Area<br>(acres) |
|---------------------|----------------------|--------------------------|--------------------------|---------------------|
| 430.42              | 0.080                | 0.000                    | 0.000                    | 0.080               |
| 433.42              | 0.080                | 0.240                    | 0.240                    | 0.094               |
| 434.50              | 100.000              | 37.047                   | 37.287                   | 100.014             |

| Device | Routing | Invert | Outlet Devices |
|--------|---------|--------|----------------|
|--------|---------|--------|----------------|

|    |           |         |                                                                                                                                                                                                                 |
|----|-----------|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| #1 | Primary   | 428.21' | <b>15.0" Round Culvert</b><br>L= 141.0' CPP, square edge headwall, Ke= 0.500<br>Inlet / Outlet Invert= 428.21' / 427.50' S= 0.0050 ' / Cc= 0.900<br>n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf |
| #2 | Discarded | 430.42' | <b>4.000 in/hr Exfiltration over Horizontal area</b>                                                                                                                                                            |
| #3 | Device 1  | 433.62' | <b>36.0" x 36.0" Horiz. Orifice/Grate</b> C= 0.600<br>Limited to weir flow at low heads                                                                                                                         |
| #4 | Secondary | 434.12' | <b>25.0' long x 10.0' breadth Broad-Crested Rectangular Weir</b><br>Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60<br>Coef. (English) 2.49 2.56 2.70 2.69 2.68 2.69 2.67 2.64                              |

**Discarded OutFlow** Max=0.32 cfs @ 11.70 hrs HW=430.53' (Free Discharge)

↑ **2=Exfiltration** (Exfiltration Controls 0.32 cfs)

**Primary OutFlow** Max=0.00 cfs @ 1.00 hrs HW=430.42' TW=0.00' (Dynamic Tailwater)

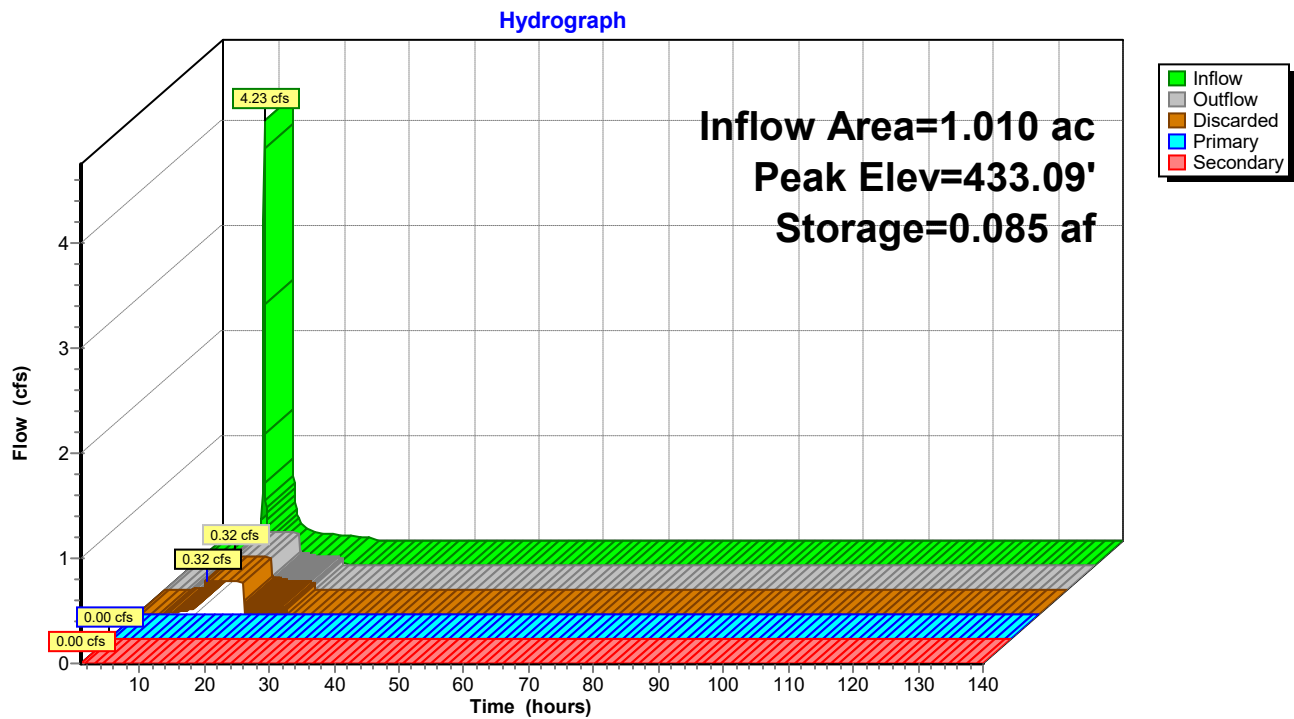
↑ **1=Culvert** (Passes 0.00 cfs of 5.82 cfs potential flow)

↑ **3=Orifice/Grate** ( Controls 0.00 cfs)

**Secondary OutFlow** Max=0.00 cfs @ 1.00 hrs HW=430.42' TW=0.00' (Dynamic Tailwater)

↑ **4=Broad-Crested Rectangular Weir** ( Controls 0.00 cfs)

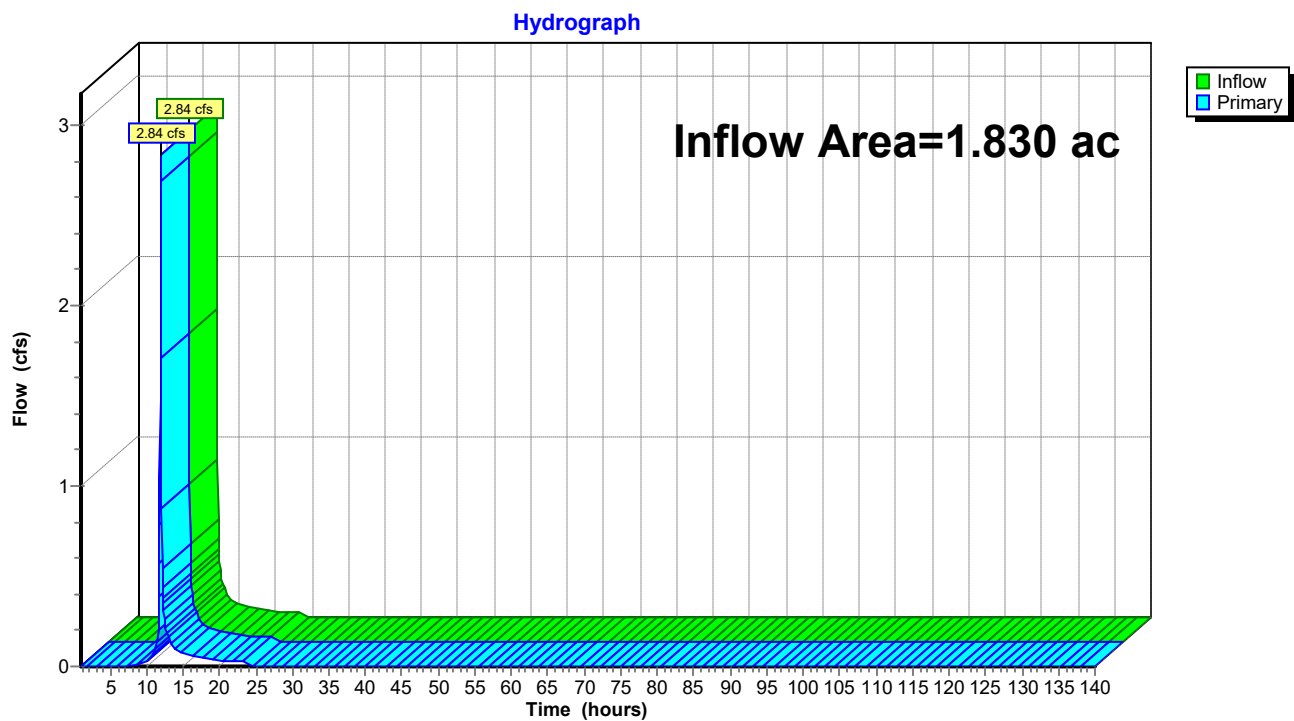


**Pond PP: Porous Pavement**

**Summary for Link PT: PROPOSED TOTAL**

Inflow Area = 1.830 ac, 75.08% Impervious, Inflow Depth = 0.91" for 10-yr event  
Inflow = 2.84 cfs @ 11.97 hrs, Volume= 0.139 af  
Primary = 2.84 cfs @ 11.97 hrs, Volume= 0.139 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 1.00-140.00 hrs, dt= 0.05 hrs

**Link PT: PROPOSED TOTAL**

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Type II 24-hr 100-yr Rainfall=5.77"

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**Summary for Subcatchment P-1: PROP-1**

Runoff = 7.66 cfs @ 11.96 hrs, Volume= 0.408 af, Depth= 4.84"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 1.00-140.00 hrs, dt= 0.05 hrs  
Type II 24-hr 100-yr Rainfall=5.77"

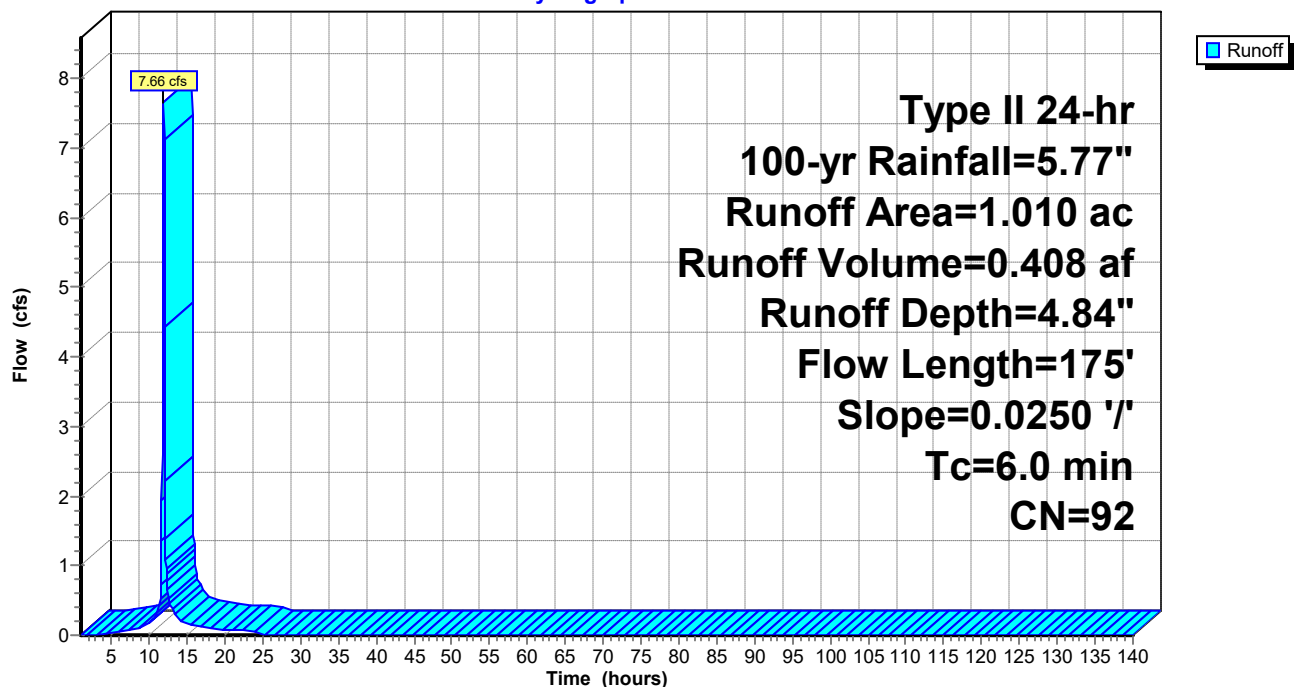
| Area (ac) | CN | Description                   |
|-----------|----|-------------------------------|
| * 0.066   | 70 | Porous Pavement               |
| 0.819     | 98 | Unconnected roofs, HSG B      |
| 0.125     | 61 | >75% Grass cover, Good, HSG B |
| 1.010     | 92 | Weighted Average              |
| 0.191     |    | 18.91% Pervious Area          |
| 0.819     |    | 81.09% Impervious Area        |
| 0.819     |    | 100.00% Unconnected           |

| Tc (min) | Length (feet) | Slope (ft/ft) | Velocity (ft/sec) | Capacity (cfs) | Description                            |
|----------|---------------|---------------|-------------------|----------------|----------------------------------------|
| 1.3      | 100           | 0.0250        | 1.30              |                | <b>Sheet Flow, AB</b>                  |
|          |               |               |                   |                | Smooth surfaces n= 0.011 P2= 2.38"     |
| 0.4      | 75            | 0.0250        | 3.21              |                | <b>Shallow Concentrated Flow, BC</b>   |
|          |               |               |                   |                | Paved Kv= 20.3 fps                     |
| 4.3      |               |               |                   |                | <b>Direct Entry, Min Tc Correction</b> |
| 6.0      | 175           | Total         |                   |                |                                        |

**Subcatchment P-1: PROP-1**

Hydrograph



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Type II 24-hr 100-yr Rainfall=5.77"

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**Summary for Subcatchment P-2: PROP-2**

Runoff = 1.86 cfs @ 11.96 hrs, Volume= 0.095 af, Depth= 4.40"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 1.00-140.00 hrs, dt= 0.05 hrs  
Type II 24-hr 100-yr Rainfall=5.77"

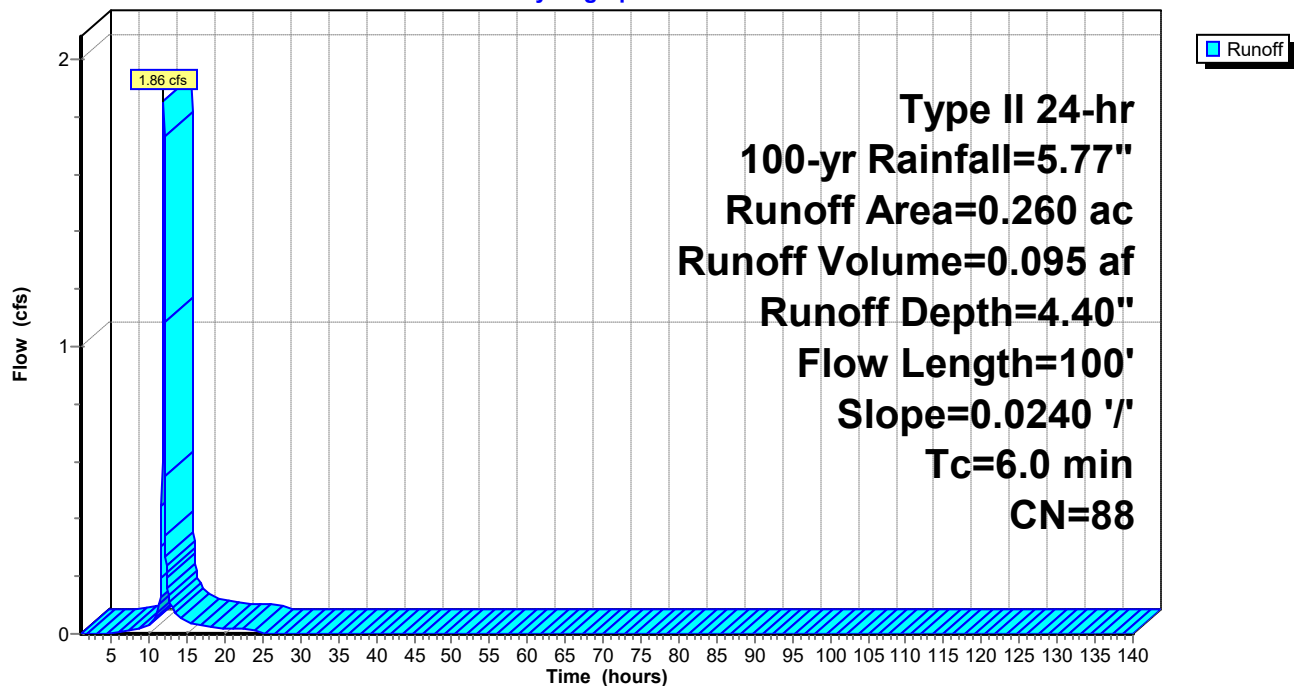
| Area (ac) | CN | Description                   |
|-----------|----|-------------------------------|
| 0.072     | 61 | >75% Grass cover, Good, HSG B |
| 0.188     | 98 | Unconnected roofs, HSG B      |
| 0.260     | 88 | Weighted Average              |
| 0.072     |    | 27.69% Pervious Area          |
| 0.188     |    | 72.31% Impervious Area        |
| 0.188     |    | 100.00% Unconnected           |

| Tc (min) | Length (feet) | Slope (ft/ft) | Velocity (ft/sec) | Capacity (cfs) | Description                            |
|----------|---------------|---------------|-------------------|----------------|----------------------------------------|
| 1.3      | 100           | 0.0240        | 1.28              |                | <b>Sheet Flow, AB</b>                  |
|          |               |               |                   |                | Smooth surfaces n= 0.011 P2= 2.38"     |
| 4.7      |               |               |                   |                | <b>Direct Entry, Min Tc Correction</b> |
| 6.0      | 100           | Total         |                   |                |                                        |

**Subcatchment P-2: PROP-2**

Hydrograph



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Type II 24-hr 100-yr Rainfall=5.77"

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**Summary for Subcatchment P-3: PROP-3**

Runoff = 3.79 cfs @ 11.97 hrs, Volume= 0.191 af, Depth= 4.09"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 1.00-140.00 hrs, dt= 0.05 hrs  
Type II 24-hr 100-yr Rainfall=5.77"

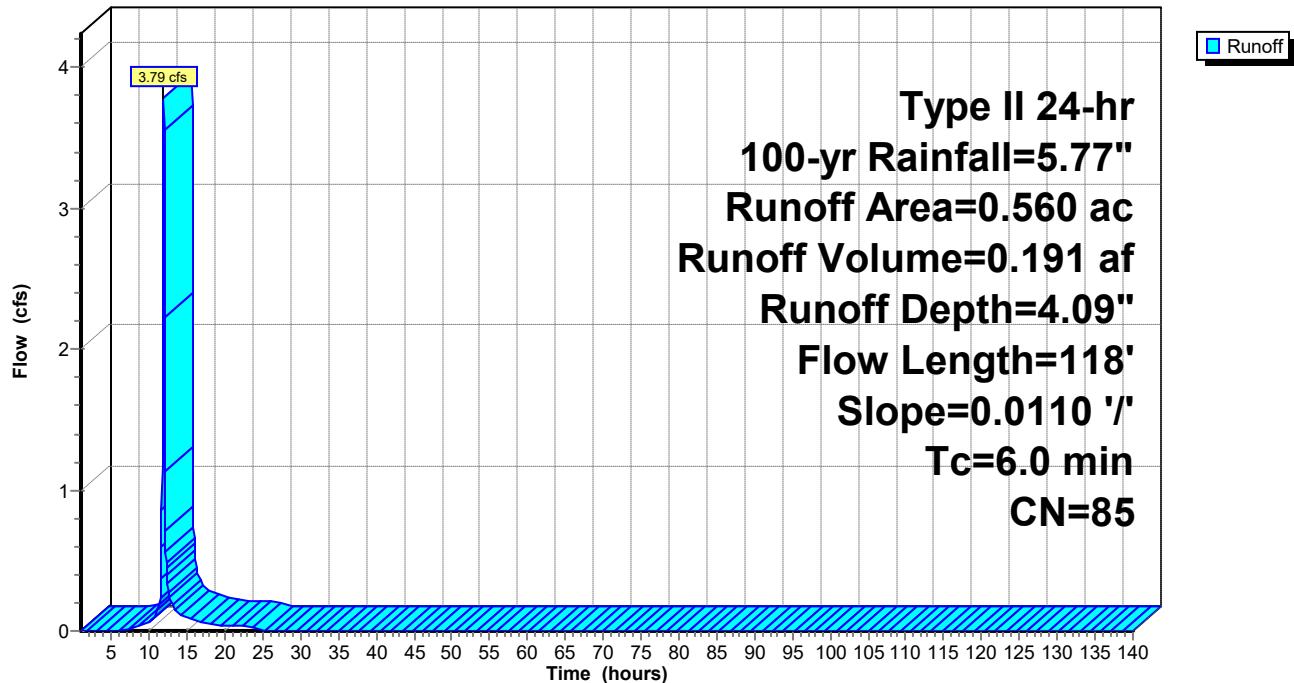
| Area (ac) | CN | Description                   |
|-----------|----|-------------------------------|
| 0.193     | 61 | >75% Grass cover, Good, HSG B |
| 0.367     | 98 | Unconnected pavement, HSG B   |
| 0.560     | 85 | Weighted Average              |
| 0.193     |    | 34.46% Pervious Area          |
| 0.367     |    | 65.54% Impervious Area        |
| 0.367     |    | 100.00% Unconnected           |

| Tc (min) | Length (feet) | Slope (ft/ft) | Velocity (ft/sec) | Capacity (cfs) | Description                            |
|----------|---------------|---------------|-------------------|----------------|----------------------------------------|
| 1.8      | 100           | 0.0110        | 0.93              |                | <b>Sheet Flow, AB</b>                  |
|          |               |               |                   |                | Smooth surfaces n= 0.011 P2= 2.38"     |
| 0.1      | 18            | 0.0110        | 2.13              |                | <b>Shallow Concentrated Flow, BC</b>   |
|          |               |               |                   |                | Paved Kv= 20.3 fps                     |
| 4.1      |               |               |                   |                | <b>Direct Entry, Min Tc Correction</b> |
| 6.0      | 118           | Total         |                   |                |                                        |

**Subcatchment P-3: PROP-3**

Hydrograph



### Summary for Pond HD: Hydro Dynamic

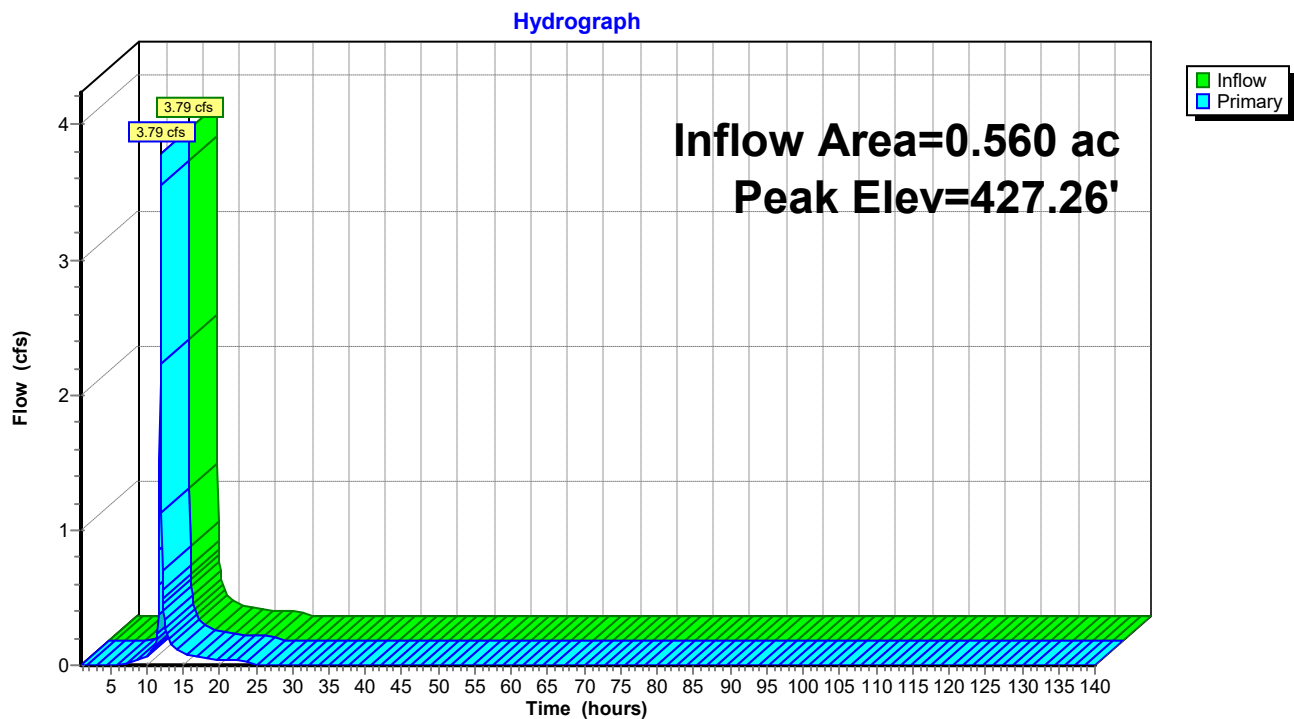
Inflow Area = 0.560 ac, 65.54% Impervious, Inflow Depth = 4.09" for 100-yr event  
 Inflow = 3.79 cfs @ 11.97 hrs, Volume= 0.191 af  
 Outflow = 3.79 cfs @ 11.97 hrs, Volume= 0.191 af, Atten= 0%, Lag= 0.0 min  
 Primary = 3.79 cfs @ 11.97 hrs, Volume= 0.191 af

Routing by Dyn-Stor-Ind method, Time Span= 1.00-140.00 hrs, dt= 0.05 hrs  
 Peak Elev= 427.26' @ 11.97 hrs

| Device | Routing  | Invert  | Outlet Devices                    |
|--------|----------|---------|-----------------------------------|
| #1     | Device 2 | 426.43' | <b>24.0" Vert. INLET</b> C= 0.600 |
| #2     | Primary  | 426.43' | <b>20.000 cfs Constant Flow</b>   |

**Primary OutFlow** Max=3.68 cfs @ 11.97 hrs HW=427.24' TW=0.00' (Dynamic Tailwater)  
 ↳ **2=Constant Flow** (Passes 3.68 cfs of 20.00 cfs potential flow)  
 ↳ **1=INLET** (Orifice Controls 3.68 cfs @ 3.07 fps)

### Pond HD: Hydro Dynamic





**Summary for Pond PP: Porous Pavement**

Inflow Area = 1.010 ac, 81.09% Impervious, Inflow Depth = 4.84" for 100-yr event  
 Inflow = 7.66 cfs @ 11.96 hrs, Volume= 0.408 af  
 Outflow = 5.37 cfs @ 12.04 hrs, Volume= 0.408 af, Atten= 30%, Lag= 4.6 min  
 Discarded = 5.37 cfs @ 12.04 hrs, Volume= 0.408 af  
 Primary = 0.00 cfs @ 1.00 hrs, Volume= 0.000 af  
 Secondary = 0.00 cfs @ 1.00 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 1.00-140.00 hrs, dt= 0.05 hrs  
 Peak Elev= 433.52' @ 12.04 hrs Surf.Area= 1.331 ac Storage= 0.118 af

Plug-Flow detention time= (not calculated: outflow precedes inflow)  
 Center-of-Mass det. time= 75.7 min ( 850.6 - 774.9 )

| Volume | Invert | Avail.Storage | Storage Description |
|--------|--------|---------------|---------------------|
|--------|--------|---------------|---------------------|

|    |         |           |                                                                                           |
|----|---------|-----------|-------------------------------------------------------------------------------------------|
| #1 | 430.42' | 14.915 af | <b>Custom Stage Data (Conic)</b> Listed below (Recalc)<br>37.287 af Overall x 40.0% Voids |
|----|---------|-----------|-------------------------------------------------------------------------------------------|

| Elevation<br>(feet) | Surf.Area<br>(acres) | Inc.Store<br>(acre-feet) | Cum.Store<br>(acre-feet) | Wet.Area<br>(acres) |
|---------------------|----------------------|--------------------------|--------------------------|---------------------|
| 430.42              | 0.080                | 0.000                    | 0.000                    | 0.080               |
| 433.42              | 0.080                | 0.240                    | 0.240                    | 0.094               |
| 434.50              | 100.000              | 37.047                   | 37.287                   | 100.014             |

| Device | Routing | Invert | Outlet Devices |
|--------|---------|--------|----------------|
|--------|---------|--------|----------------|

|    |           |         |                                                                                                                                                                                                                           |
|----|-----------|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| #1 | Primary   | 428.21' | <b>15.0" Round Culvert</b><br>L= 141.0' CPP, square edge headwall, Ke= 0.500<br>Inlet / Outlet Invert= 428.21' / 427.50' S= 0.0050 ' S= 0.0050 ' Cc= 0.900<br>n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf |
| #2 | Discarded | 430.42' | <b>4.000 in/hr Exfiltration over Horizontal area</b>                                                                                                                                                                      |
| #3 | Device 1  | 433.62' | <b>36.0" x 36.0" Horiz. Orifice/Grate</b> C= 0.600<br>Limited to weir flow at low heads                                                                                                                                   |
| #4 | Secondary | 434.12' | <b>25.0' long x 10.0' breadth Broad-Crested Rectangular Weir</b><br>Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60<br>Coef. (English) 2.49 2.56 2.70 2.69 2.68 2.69 2.67 2.64                                        |

**Discarded OutFlow** Max=5.25 cfs @ 12.04 hrs HW=433.52' (Free Discharge)

↑ **2=Exfiltration** (Exfiltration Controls 5.25 cfs)

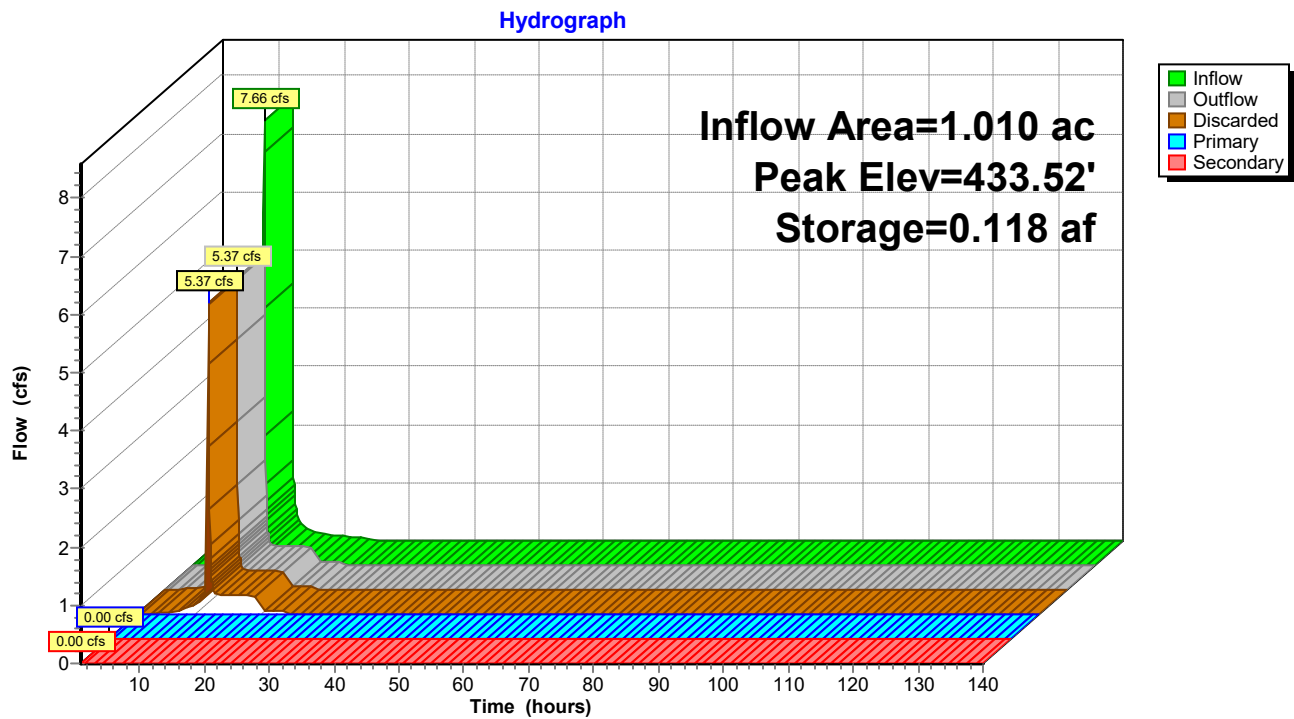
**Primary OutFlow** Max=0.00 cfs @ 1.00 hrs HW=430.42' TW=0.00' (Dynamic Tailwater)

↑ **1=Culvert** (Passes 0.00 cfs of 5.82 cfs potential flow)

↑ **3=Orifice/Grate** ( Controls 0.00 cfs)

**Secondary OutFlow** Max=0.00 cfs @ 1.00 hrs HW=430.42' TW=0.00' (Dynamic Tailwater)

↑ **4=Broad-Crested Rectangular Weir** ( Controls 0.00 cfs)

**Pond PP: Porous Pavement**

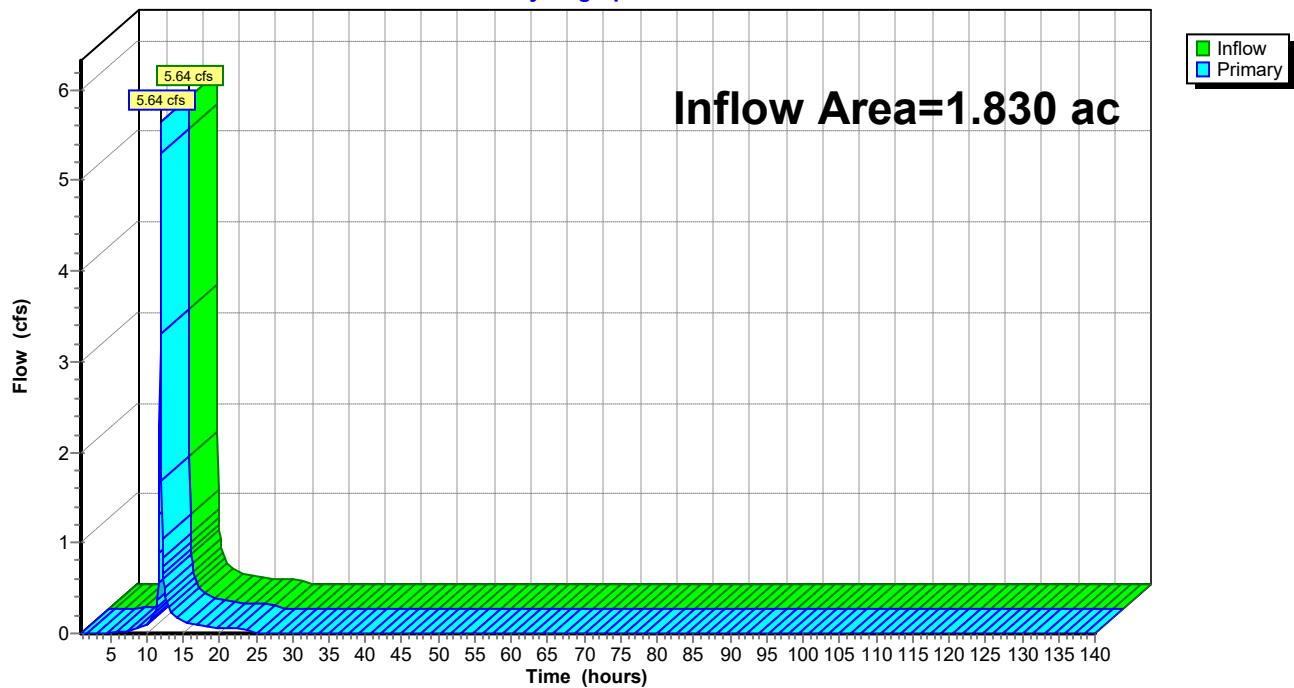
**Summary for Link PT: PROPOSED TOTAL**

Inflow Area = 1.830 ac, 75.08% Impervious, Inflow Depth = 1.88" for 100-yr event  
Inflow = 5.64 cfs @ 11.97 hrs, Volume= 0.286 af  
Primary = 5.64 cfs @ 11.97 hrs, Volume= 0.286 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 1.00-140.00 hrs, dt= 0.05 hrs

**Link PT: PROPOSED TOTAL**

Hydrograph





**BERGMANN**

ARCHITECTS ENGINEERS PLANNERS

---

## **Appendix S**

# **Post Construction Stormwater BMP Operations and Maintenance Plan**



## **Appendix T**

# **Historical Mapping and Supporting Documentation**





**COR**  
**COMPANIES**

5 4 0 T O W N E D R I V E  
FAYETTEVILLE, NEW YORK 13066  
TEL 315.663.2100 FAX 315.666.2109

NOT FOR  
CONSTRUCTION

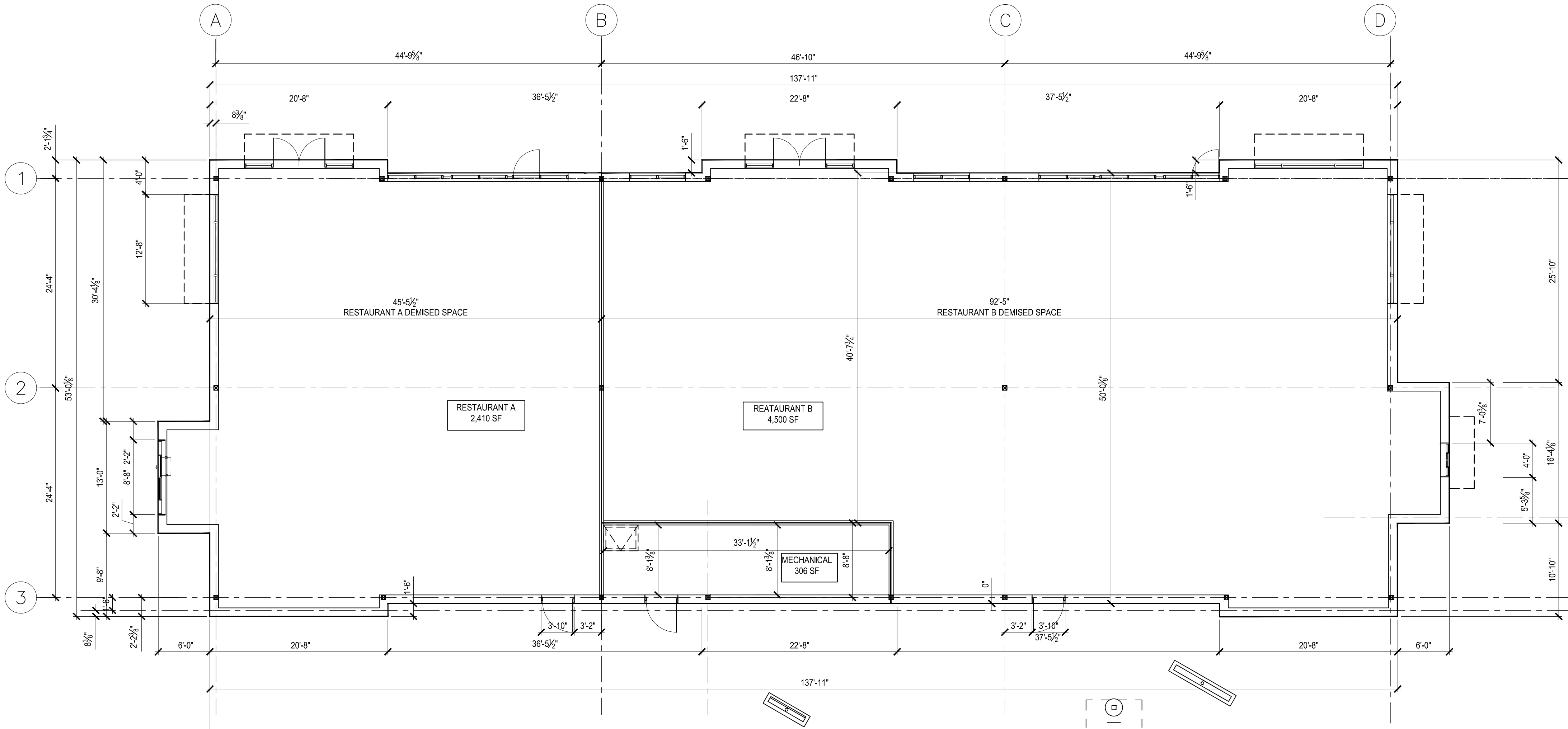
|     |                |      |
|-----|----------------|------|
|     |                |      |
|     |                |      |
|     |                |      |
| No. | Revision/Issue | Date |

Tenant/Owner Logo

Project Name and Address  
**LOT 15**  
**RETAIL - RESTAURANT**  
TOWNE CENTER AT  
FAYETTEVILLE  
MANLIUS, NY

Date  
06.29.2021

Sheet  
**A-1**  
PLAN

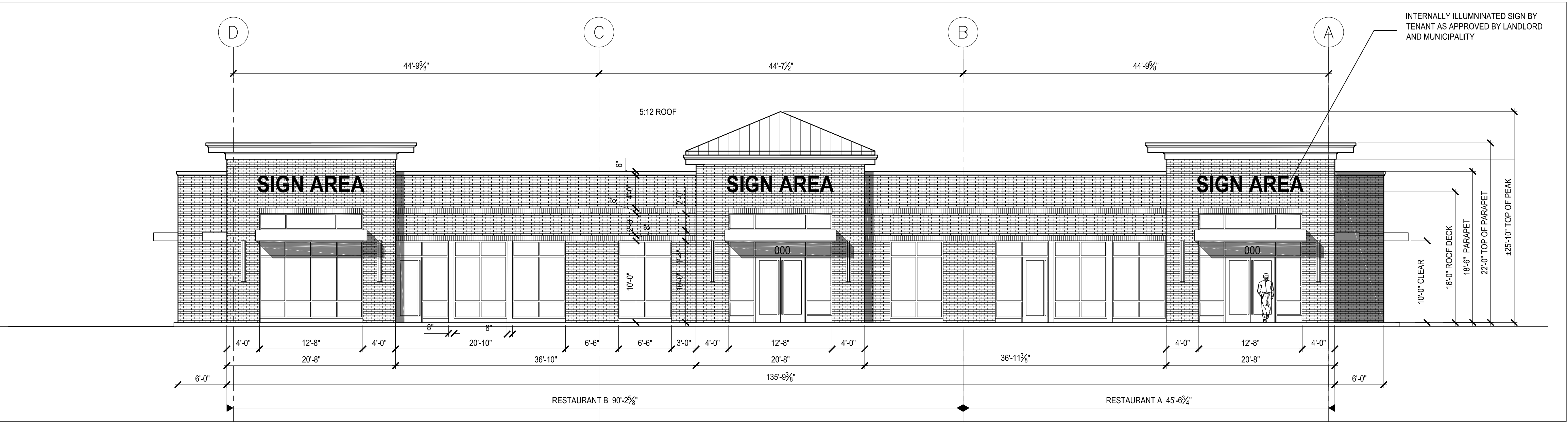


FLOOR PLAN

SCALE:  $\frac{1}{8}''=1'-0''$

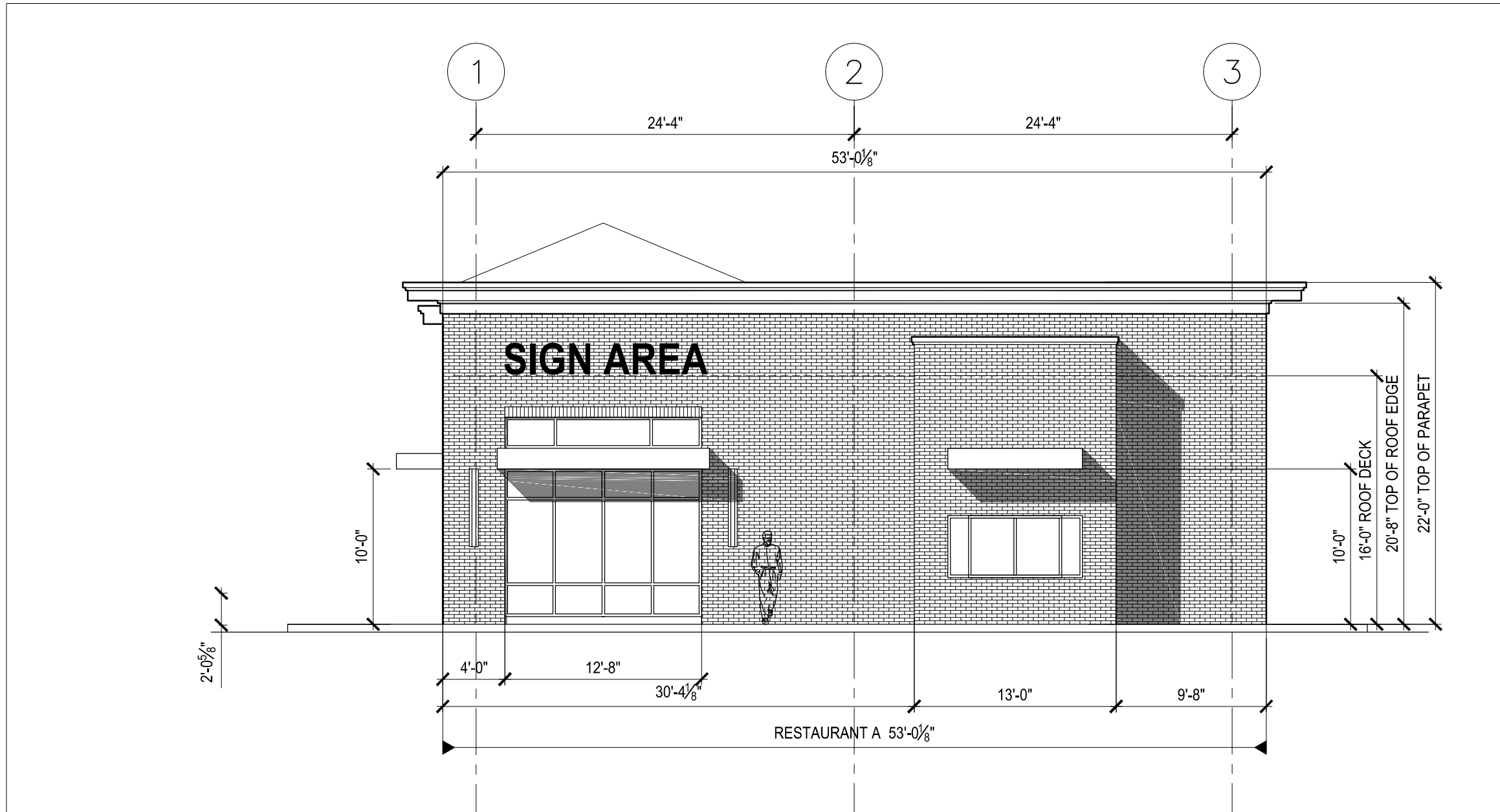


EXTERIOR NOTES:  
BRICK:  
MATCH CENTER STANDARD MODULAR BRICK;  
INTERSTATE BRICK MANHATTAN ROSE  
  
STANDING SEAM METAL ROOF  
COLOR: FACTORY FINISH HARTFORD GREEN  
  
STOREFRONT:  
FACTORY FINISH BLACK



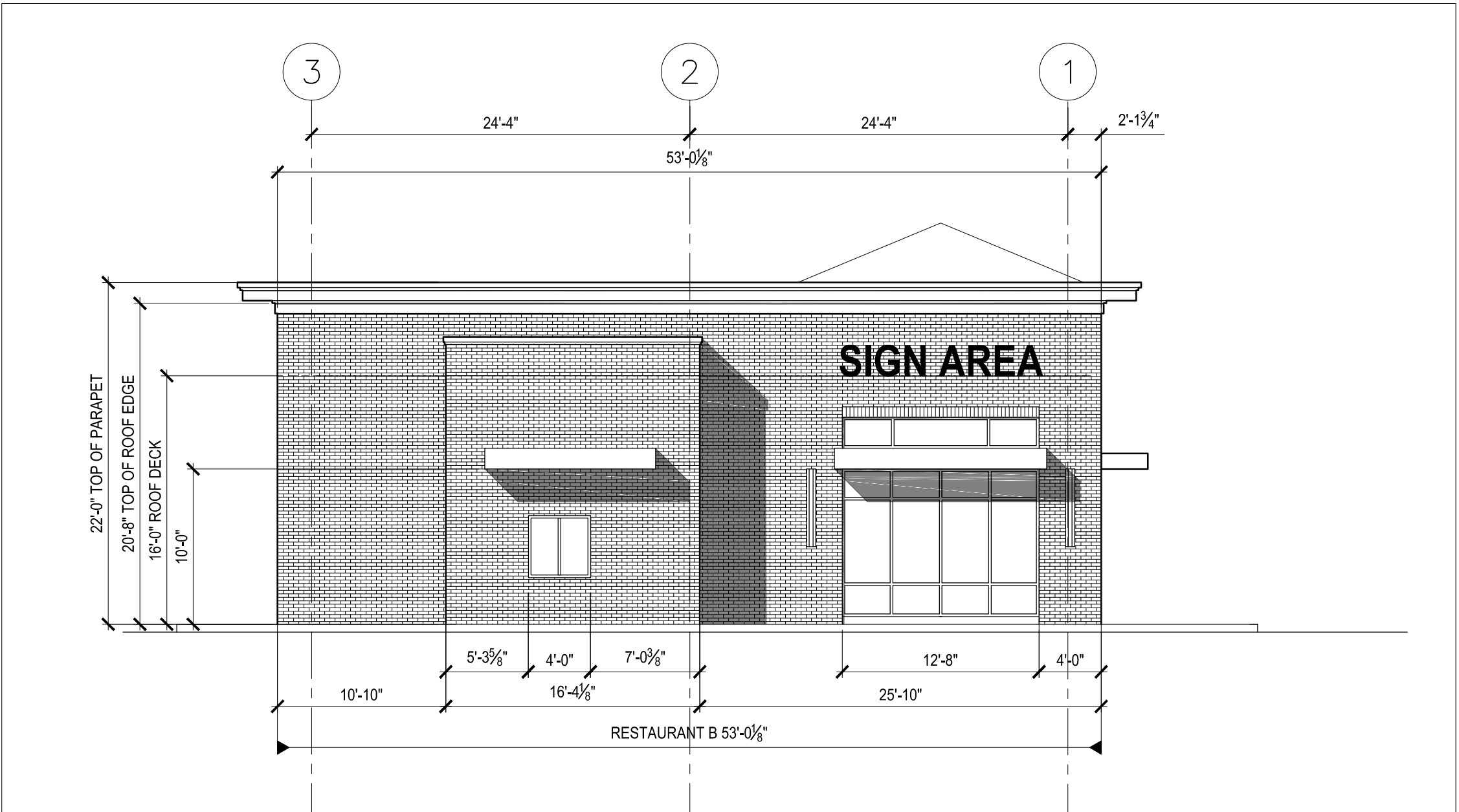
NORTH ELEVATION

$\frac{1}{8}"=1'-0"$



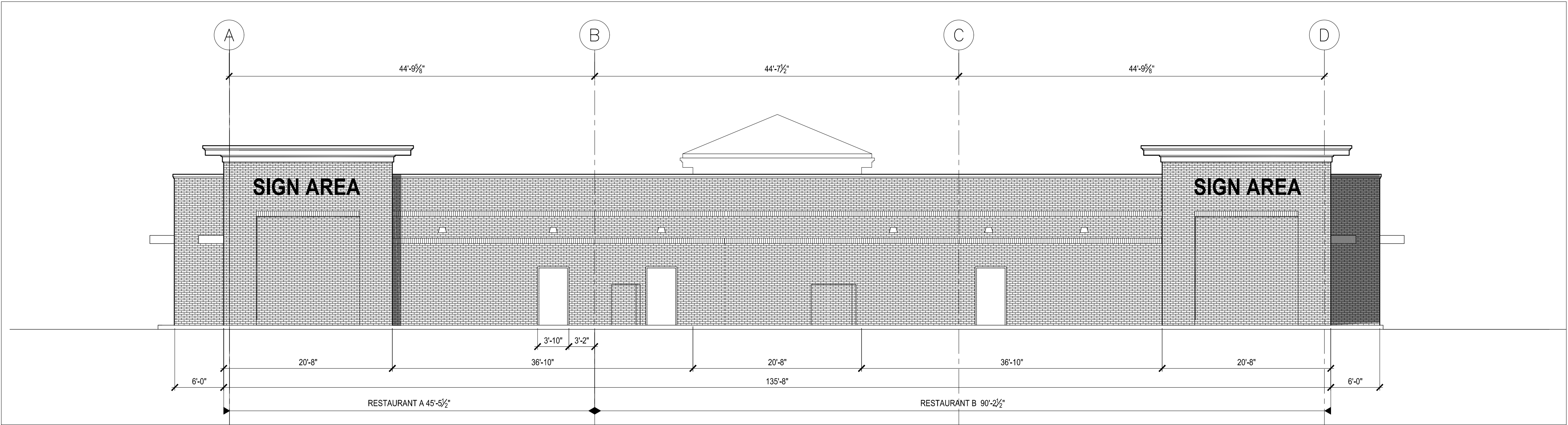
WEST ELEVATION

$\frac{1}{8}"=1'-0"$



EAST ELEVATION

$\frac{1}{8}"=1'-0"$



SOUTH ELEVATION

$\frac{1}{8}"=1'-0"$



**COR**  
**COMPANIES**

540 TOWNE DRIVE  
FAYETTEVILLE, NEW YORK 13066  
TEL 315.663.2100 FAX 315.666.2109

NOT FOR  
CONSTRUCTION

|     |                |      |
|-----|----------------|------|
|     |                |      |
|     |                |      |
|     |                |      |
|     |                |      |
| No. | Revision/Issue | Date |

Tenant/Owner Logo

Project Name and Address  
**LOT 15**  
**RETAIL - RESTAURANT**  
**TOWNE CENTER AT**  
**FAYETTEVILLE**  
**MANLIUS, NY**

Date  
06.29.2021

Sheet  
**A-2**  
ELEVATION

Expected

Fee: \_\_\_\_\_

TOWN OF MANLIUS  
PLANNING DEPARTMENT  
INITIAL APPEARANCE APPLICATION

DATE: 6/1/2021

Name of Project: KELLERS RICHMOND ROAD SUBDIVISION

**Applicant must submit 12 copies of all site plans, surveys, and supporting data with the final application before a planning board meeting can be scheduled.**

Location of Project: 7268 E. RICHMOND RD EAST SYRACUSE NY 13059

Type of Project:

☐ Division of Land ☒ Subdivision ☐ Accessory Use ☐ Zone Change ☐ Site Review ☐ Other

Developer: SIGMUND & MICHELLE KELLER Phone: 315-374-9947

Address: 7323 SNOWBALL RUN EAST SYRACUSE NY Zip: 13057

Tax Map Number(#)/s: 065.-01-37.0

Present Zoning:

R3

Desired Zoning: \_\_\_\_\_

Total Acreage:

0.89

Total Number of Lots:

2

Property Owner/s:

SIGMUND E. KELLER

Phone:

315-374-9947

Address:

7323 SNOWBALL RUN EAST SYRACUSE, NY

Zip: 13057

Tax Map#(s):

077.-05-33.0

Owner's Signature:

Sigmund E. Keller

Printed Name:

SIGMUND E. KELLER

Property Owner/s:

Michelle A. Keller

Phone:

315-374-9949

Address:

7323 SNOWBALL RUN EAST SYRACUSE NY

Zip: 13057

Tax Map#(s):

077.-05-33.0

Owner's Signature:

Michelle A. Keller

Printed Name:

Michelle A. Keller

**Use next page for additional known property owners' information**

Planning Board Meeting Date Assignment: \_\_\_\_\_

Fee: \_\_\_\_\_

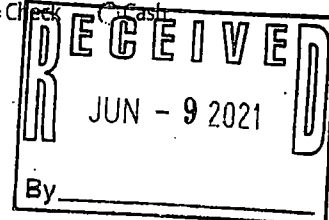
Paid: \_\_\_\_\_

Per: ☐ Credit/Debit Card

☐ Check

☐ Cash

Planning Board - Initial



617.20  
Appendix B  
Short Environmental Assessment Form

**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.

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |                                                                                |                                 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--------------------------------------------------------------------------------|---------------------------------|
| <b>Part 1 - Project and Sponsor Information</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |                                                                                |                                 |
| Name of Action or Project:<br><b>KELLERS RICHMOND ROAD SUBDIVISION</b>                                                                                                                                                                                                                                                                                                                                                                                                                            |  |                                                                                |                                 |
| Project Location (describe, and attach a location map):<br><b>7268 E. RICHMOND RD EAST SYRACUSE, NY 13057</b>                                                                                                                                                                                                                                                                                                                                                                                     |  |                                                                                |                                 |
| Brief Description of Proposed Action:<br><b>DIVIDE LOT SO AN ADDITIONAL HOME CAN BE BUILT. THIS WILL INCREASE TAX REVENUE FOR THE TOWN.</b>                                                                                                                                                                                                                                                                                                                                                       |  |                                                                                |                                 |
| Name of Applicant or Sponsor:<br><b>Michelle + Sigmund Keller</b>                                                                                                                                                                                                                                                                                                                                                                                                                                 |  | Telephone: <b>315-374-9949</b><br>E-Mail: <b>michellekeller7323a@gmail.com</b> |                                 |
| Address:<br><b>7323 Snowball Run</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |                                                                                |                                 |
| City/PO:<br><b>EAST SYRACUSE</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  | State:<br><b>NY</b>                                                            | Zip Code:<br><b>13057</b>       |
| 1. Does the proposed action only involve the legislative adoption of a plan, local law, ordinance, administrative rule, or regulation?<br>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.                                                                                                                                              |  | NO<br><input checked="" type="checkbox"/>                                      | YES<br><input type="checkbox"/> |
| 2. Does the proposed action require a permit, approval or funding from any other governmental Agency?<br>If Yes, list agency(s) name and permit or approval:                                                                                                                                                                                                                                                                                                                                      |  | NO<br><input checked="" type="checkbox"/>                                      | YES<br><input type="checkbox"/> |
| 3.a. Total acreage of the site of the proposed action?                                                                                                                                                                                                                                                                                                                                                                                                                                            |  | <b>.089</b> acres                                                              |                                 |
| b. Total acreage to be physically disturbed?                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  | _____ acres                                                                    |                                 |
| c. Total acreage (project site and any contiguous properties) owned or controlled by the applicant or project sponsor?                                                                                                                                                                                                                                                                                                                                                                            |  | <b>.089</b> acres                                                              |                                 |
| 4. Check all land uses that occur on, adjoining and near the proposed action.<br><input type="checkbox"/> Urban <input type="checkbox"/> Rural (non-agriculture) <input type="checkbox"/> Industrial <input type="checkbox"/> Commercial <input checked="" type="checkbox"/> Residential (suburban)<br><input type="checkbox"/> Forest <input type="checkbox"/> Agriculture <input type="checkbox"/> Aquatic <input type="checkbox"/> Other (specify): _____<br><input type="checkbox"/> Parkland |  |                                                                                |                                 |





|                                                                                                                                                                                                                     |                                     |                          |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|--------------------------|
| 18. Does the proposed action include construction or other activities that result in the impoundment of water or other liquids (e.g. retention pond, waste lagoon, dam)?<br>If Yes, explain purpose and size: _____ | NO                                  | YES                      |
|                                                                                                                                                                                                                     | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 19. Has the site of the proposed action or an adjoining property been the location of an active or closed solid waste management facility?<br>If Yes, describe: _____                                               | NO                                  | YES                      |
|                                                                                                                                                                                                                     | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 20. Has the site of the proposed action or an adjoining property been the subject of remediation (ongoing or completed) for hazardous waste?<br>If Yes, describe: _____                                             | NO                                  | YES                      |
|                                                                                                                                                                                                                     | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <b>I AFFIRM THAT THE INFORMATION PROVIDED ABOVE IS TRUE AND ACCURATE TO THE BEST OF MY KNOWLEDGE</b><br>Applicant/sponsor name: _____ Date: _____<br>Signature: _____                                               |                                     |                          |

**STOP**

**Part 2 - Impact Assessment.** The Lead Agency is responsible for the completion of Part 2. Answer all of the following questions in Part 2 using the information contained in Part 1 and other materials submitted by the project sponsor or otherwise available to the reviewer. When answering the questions the reviewer should be guided by the concept "Have my responses been reasonable considering the scale and context of the proposed action?"

|                                                                                                                                                                            | No, or small impact may occur | Moderate to large impact may occur |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|------------------------------------|
| 1. Will the proposed action create a material conflict with an adopted land use plan or zoning regulations?                                                                | <input type="checkbox"/>      | <input type="checkbox"/>           |
| 2. Will the proposed action result in a change in the use or intensity of use of land?                                                                                     | <input type="checkbox"/>      | <input type="checkbox"/>           |
| 3. Will the proposed action impair the character or quality of the existing community?                                                                                     | <input type="checkbox"/>      | <input type="checkbox"/>           |
| 4. Will the proposed action have an impact on the environmental characteristics that caused the establishment of a Critical Environmental Area (CEA)?                      | <input type="checkbox"/>      | <input type="checkbox"/>           |
| 5. Will the proposed action result in an adverse change in the existing level of traffic or affect existing infrastructure for mass transit, biking or walkway?            | <input type="checkbox"/>      | <input type="checkbox"/>           |
| 6. Will the proposed action cause an increase in the use of energy and it fails to incorporate reasonably available energy conservation or renewable energy opportunities? | <input type="checkbox"/>      | <input type="checkbox"/>           |
| 7. Will the proposed action impact existing:                                                                                                                               |                               |                                    |
| a. public / private water supplies?                                                                                                                                        | <input type="checkbox"/>      | <input type="checkbox"/>           |
| b. public / private wastewater treatment utilities?                                                                                                                        | <input type="checkbox"/>      | <input type="checkbox"/>           |
| 8. Will the proposed action impair the character or quality of important historic, archaeological, architectural or aesthetic resources?                                   | <input type="checkbox"/>      | <input type="checkbox"/>           |
| 9. Will the proposed action result in an adverse change to natural resources (e.g., wetlands, waterbodies, groundwater, air quality, flora and fauna)?                     | <input type="checkbox"/>      | <input type="checkbox"/>           |

|                                                                                                                 | No, or<br>small<br>impact<br>may<br>occur | Moderate<br>to large<br>impact<br>may<br>occur |
|-----------------------------------------------------------------------------------------------------------------|-------------------------------------------|------------------------------------------------|
| 10. Will the proposed action result in an increase in the potential for erosion, flooding or drainage problems? | <input type="checkbox"/>                  | <input type="checkbox"/>                       |
| 11. Will the proposed action create a hazard to environmental resources or human health?                        | <input type="checkbox"/>                  | <input type="checkbox"/>                       |

**Part 3 - Determination of significance.** The Lead Agency is responsible for the completion of Part 3. For every question in Part 2 that was answered "moderate to large impact may occur", or if there is a need to explain why a particular element of the proposed action may or will not result in a significant adverse environmental impact, please complete Part 3. Part 3 should, in sufficient detail, identify the impact, including any measures or design elements that have been included by the project sponsor to avoid or reduce impacts. Part 3 should also explain how the lead agency determined that the impact may or will not be significant. Each potential impact should be assessed considering its setting, probability of occurring, duration, irreversibility, geographic scope and magnitude. Also consider the potential for short-term, long-term and cumulative impacts.

|                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                              |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <input type="checkbox"/>                                                                                                                                                                                | Check this box if you have determined, based on the information and analysis above, and any supporting documentation, that the proposed action may result in one or more potentially large or significant adverse impacts and an environmental impact statement is required. |
| <input type="checkbox"/>                                                                                                                                                                                | Check this box if you have determined, based on the information and analysis above, and any supporting documentation, that the proposed action will not result in any significant adverse environmental impacts.                                                             |
| <div style="display: flex; justify-content: space-between;"> <div>Name of Lead Agency</div> <div>Date</div> </div>                                                                                      |                                                                                                                                                                                                                                                                              |
| <div style="display: flex; justify-content: space-between;"> <div>Print or Type Name of Responsible Officer in Lead Agency</div> <div>Title of Responsible Officer</div> </div>                         |                                                                                                                                                                                                                                                                              |
| <div style="display: flex; justify-content: space-between;"> <div>Signature of Responsible Officer in Lead Agency</div> <div>Signature of Preparer (if different from Responsible Officer)</div> </div> |                                                                                                                                                                                                                                                                              |

**PRINT**



## TOWN OF MANLIUS

### DISCLOSURE AFFIDAVIT

This affidavit is a part of and must be completed and attached to every application, petition, request submitted for a *site plan, variance, amendment, change of zoning, approval of a plat, exemption from a plat or official map, license or permit.*

STATE OF NEW YORK     )  
                                  ) SS:  
COUNTY OF ONONDAGA    )

I. Michele Keller, being duly sworn, deposes and says that (s) he is:

Applicant / Property Owner  
(applicant, petitioner, corporation officer, property owner, etc.)

II. That deponent has read and is familiar with the provisions of the General Municipal Law, Section 809 which states:

- A. Every application, petition or request submitted for a site plan, variance, amendment, change of zoning, approval of a plat, exemption from a plat or official map, license or permit, pursuant to the provisions or any ordinance, local law, rule or regulation constituting the zoning and planning regulations of a municipality shall state the name, residence and the nature and extent of the interest of any state officer or any officer or employee of such municipality is a part, in the person, partnership or association making such application, petition or request (hereinafter called the applicant) to the extent known to such applicant.
- B. For the purpose of this action an officer or employee shall be deemed to have an interest in the applicant when (s)he, his/her spouse, or their brothers, sisters, parents, children, grandchildren, or the spouse of any of them:
  - 1) is the applicant, or
  - 2) is an officer, director, partner or employee of the applicant, or
  - 3) legally or beneficially owns or controls stock of a corporate applicant or is a member of a partnership or association applicant, or
  - 4) is a party to an agreement with such an applicant, express or implied, whereby (s) he may receive any payment or other benefit, whether or not for services rendered, or contingent upon the favorable approval of such application, petition or request.
- C. Ownership of less than five percent (5%) of the stock of a corporation whose stock is listed on the New York or American Stock Exchanges shall not constitute an interest for the purposes of this section.
- D. A person who knowingly and intentionally violates this section shall be guilty of a misdemeanor.

III. That no Town of Manlius officer, employee or a relative of either, as defined in Section 809 General Municipal Law has any interest in this application.

-OR-

If a Town of Manlius officer, employee or relative of either as defined in Section 809 General Municipal law has any interest in this application, the full particulars are provided on an attached sheet.

Date: June 1, 2021

Michelle A. Keller  
(Print Name)

Michelle Keller  
(Signature)

\_\_\_\_\_  
(Entity Name)

By (Officer) (Title)

7323 Snowball Run  
(Mailing Address of Applicant)  
East Syracuse, NY 13057  
315-374-9949  
(Telephone Number)

Date: June 1, 2021

Sigmund E. Keller  
(Print Name)

Sigmund E. Keller  
(Signature)

\_\_\_\_\_  
(Entity Name)

By (Officer) (Title)

7323 Snowball Run  
(Mailing Address of Applicant)  
East Syracuse, NY 13057  
315-374-9949  
(Telephone Number)

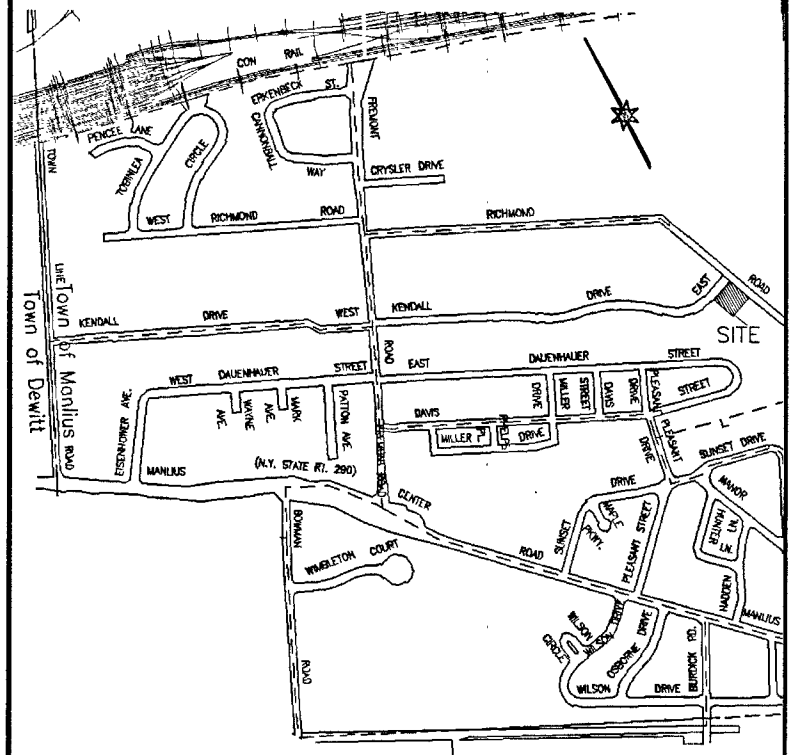
### ACKNOWLEDGEMENTS

STATE OF NEW YORK )  
 ) SS:  
COUNTY OF ONONDAGA )

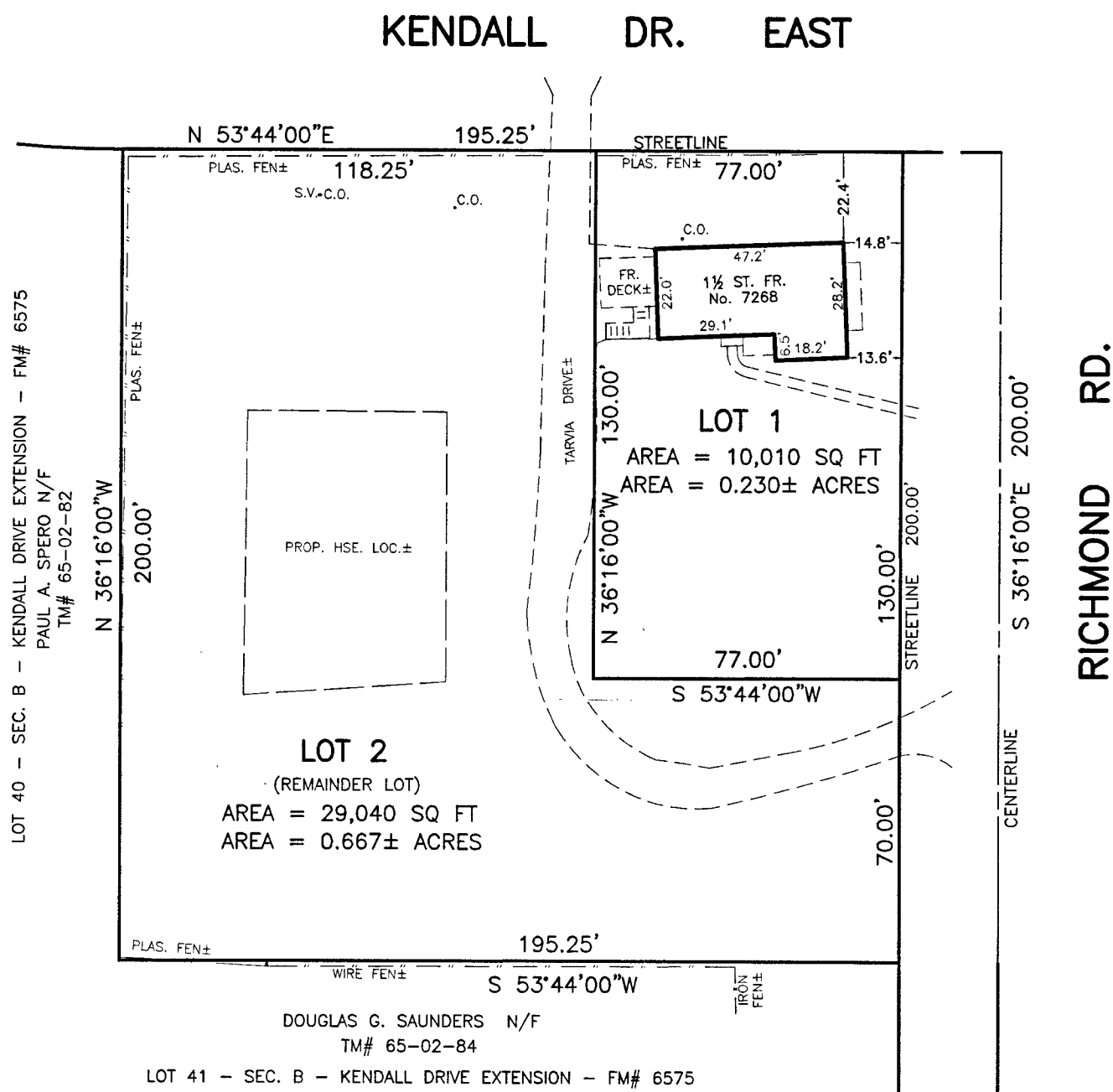
On this 1<sup>st</sup> day of June in the year 2021, before me, the undersigned, a notary public in and for said state, personally appeared Sigmund E. Keller,  
Michelle A. Keller, and N/A personally known to me or proved to me on the basis of satisfactory evidence to be the individual whose name is subscribed to the within Petition and acknowledged to me the he/she/they executed the same in his/her/their capacity, and that by his/her/their signature(s) on the Petition, the individual or the persons upon behalf of which the individual acted executed the instrument.

Shelby Baskin  
Notary Public

SHELBY BASKIN  
Notary Public in the State of New York  
Qual. in Onondaga Co. No. 01BA6369003  
My Commission Expires: 12/26/21

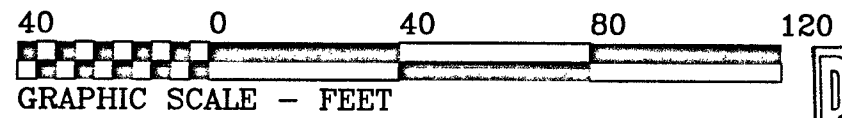


SITE LOCATION



I HEREBY APPROVE THIS TRACT MAP.

SIGMUND & MICHELLE KELLER  
7323 SNOWBALL RUN  
EAST SYRACUSE, NY 13057



ZONED: R-3 (RESIDENTIAL 3)

TOTAL AREA = 0.896± ACRES

RICHMOND \$7268 L44 MAN (KENDALL) © 20210505-SUBD-R1.dwg

— FINAL PLAN —

KELLER'S RICHMOND ROAD SUBDIVISION  
PART OF LOT 44 — TOWN OF MANLIUS  
ONONDAGA COUNTY, NEW YORK

|                 |                 |              |  |
|-----------------|-----------------|--------------|--|
| I.D: 65-01-37   | FILE:           |              |  |
| DATE: 5-06-2021 | SCALE: 1" = 40' | B/P: 417/042 |  |
| REVISIONS       |                 |              |  |
|                 |                 |              |  |
|                 |                 |              |  |
|                 |                 |              |  |

COTTRELL LAND SURVEYORS, P.C.  
7308 STATE RTE 173, MANLIUS, NY 13104  
(315)682-8121, WWW.COTTRELLSURVEYORS.COM

SUBDIVISION OF LAND

PLANNING BOARD CHAIRPERSON  
TOWN OF MANLIUS

COUNTY HEALTH DEPARTMENT APPROVAL

RECEIVED  
JUN - 9 2021  
By

THE UNDERSIGNED CERTIFIES THAT  
THIS MAP WAS MADE FROM AN  
ACTUAL SURVEY ON MAY 6, 2021  
VOID WITHOUT SIGNER'S EMBOSSED SEAL

SEAL