February 17, 2015

City of Watertown
Justin Wood, P.E., City Engineer
Room 305, City Hall
245 Washington Street
Watertown, NY 13601

Re: **Site Plan Review Application**
Current Applications – Building Addition (A&C Project #2015-005)
275 Bellew Avenue South, Watertown, NY

Dear Mr. Wood:

Aubertine and Currier Architects, Engineers & Land Surveyors, PLLC on behalf of Don Clark of DC Building Systems, Inc. and George Anderson of Current Applications, Inc. is requesting to be included on the agenda for the March City of Watertown Planning Board meeting for a proposed building addition to the existing Current Applications Building, located at 275 Bellew Avenue South, on Tax Parcel No. 9-43-101.240. Included with this submission is seventeen (17) copies of this cover letter, Site Plan Application, Short SEQR Environmental Assessment Form, and four (4) copies of the Engineering Report. Also attached are four (4) full size and thirteen (13) 11"x17" copies of the Site Plan, Site Details and Preliminary Building Floor Plans and Elevations. A check for $50.00 was submitted in January for the review fee.

The project consists of a proposed 10,240 SF building addition on the north side of the existing building. Site amenities include the construction of a 5,840 SF, asphalt parking area and drive along the north side of the addition. The existing building is serviced by public sewer and water, and private electric, gas, and communication utilities. No new site utilities are proposed.

The owner intends to begin construction as soon as approvals are granted. If there are any questions, please feel free to contact our office at your earliest convenience.

Sincerely,
Aubertine and Currier Architects, Engineers & Land Surveyors, PLLC

Timothy F. Titus
Civil Designer

Attachments
Cc: Don Clark, DC Building Systems, Inc.
George Anderson, Current Applications, Inc. – Owner
Patrick J. Currier, R.A. – A&C

AUBERTINE and CURRIER
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SBA Woman Owned
Small Business (WOSB)
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Structural Engineer
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Michael L. Aubertine, R.A.
Architect
Patrick J. Currier, R.A.
Architect
Brian A. Jones, AIA.,
LEED AP BD+C
Architect
Matthew R. Morgia, P.E.
Civil Engineer
Jayson J. Jones, P.L.S.
Land Surveyor

CITY OF WATERTOWN
SITE PLAN APPLICATION

** Provide responses for all sections. INCOMPLETE APPLICATIONS WILL NOT BE PROCESSED. Failure to submit required information by the submittal deadline will result in **not** making the agenda for the upcoming Planning Board meeting.

PROPERTY LOCATION

Proposed Project Name: Current Applications - Building Addition

Tax Parcel Number: 9-43-101.240

Property Address: 275 Bellew Avenue South

Existing Zoning Classification: LI - Light Industrial

OWNER OF PROPERTY

Name: Current Applications, Inc. attn. George Anderson

Address: 275 Bellew Avenue South

Telephone Number: 315-788-4689

Fax Number: 315-788-4693

APPLICANT

Name: DC Building Systems, Inc. attn. Don Clark

Address: 19086 US Route 11

Watertown NY 13601

Telephone Number: 315-785-9884

Fax Number: 315-785-9767

Email Address: don@dc-buildingsystems.com

ENGINEER/ARCHITECT/SURVEYOR

Name: Aubertine and Currier PLLC

Address: 522 Bradley Street, Watertown NY 13601

Telephone Number: 315-782-2005

Fax Number: 315-782-1472

Email Address: mrm@aubertinecurrier.com

OPTIONAL MATERIALS:

☐ **PROVIDE AN ELECTRONIC (.DWG) COPY OF THE SITE PLAN WITH AS-BUILT REVISIONS. This will assist the City in keeping our GIS mapping up-to-date.**

REQUIRED MATERIALS:

** The following drawings with the listed information **ARE REQUIRED, NOT OPTIONAL.** If the required information is not included and/or addressed, the Site Plan Application will **not** be processed**.**

■ **COMPLETED ENVIRONMENTAL ASSESSMENT FORM** (Contact us if you need help choosing between the Short EAF and the Full EAF):
http://www.dec.ny.gov/permits/6191.html

■ **ELECTRONIC COPY OF ENTIRE SUBMISSION** (PDF preferred)

■ **BOUNDARY & TOPOGRAPHIC SURVEY**
(Depict existing features as of the date of the Site Plan Application. This Survey and Map must be performed and created by a Professional Land Surveyor licensed and currently registered to practice in the State of New York. This Survey and Map must be stamped and signed with an original seal and signature on at least one copy, the rest may be copies thereof.

■ All elevations are National Geodetic Vertical Datum of 1929 (NGVD29).

■ 1' contours are shown & labeled with appropriate spot elevations.

■ All existing features on and within 50 feet of the subject property are shown and labeled.

■ All existing utilities on and within 50 feet of the subject property are shown and labeled.

■ All existing easements and/or right-of-ways are shown and labeled.

■ Existing property lines (bearings & distances), margins, acreage, zoning, existing land use, reputed owner, adjacent reputed owners & tax parcel numbers are shown and labeled.

■ The north arrow & graphic scale are shown.

N/A ■ **DEMOLITION PLAN** (If Applicable)

■ All existing features on and within 50 feet of the subject property are shown and labeled.

■ All items to be removed are labeled in darker text.

■ **SITE PLAN**

■ All proposed above ground features are depicted and clearly labeled.

■ All proposed features are clearly labeled "proposed".

N/A ☐ All proposed easements & right-of-ways are shown and labeled.

■ Land use, zoning, & tax parcel number are shown.

■ The Plan is adequately dimensioned including radii.

■ The line work & text for all proposed features is shown darker than existing features.

■ All vehicular & pedestrian traffic circulation is shown including a delivery or refuse vehicle entering and exiting the property.

■ Proposed parking & loading spaces including ADA accessible spaces are shown and labeled.

N/A ☐ Refuse Enclosure Area (Dumpster), if applicable, is shown. Section 161-19.1 of the Zoning Ordinance states, "No refuse vehicle or refuse container shall be parked or placed within 15 feet of a party line without the written consent of the adjoining owner, if the owner occupies any part of the adjoining property".

■ The north arrow & graphic scale are shown.

■ **GRADING PLAN**

■ All proposed below ground features including elevations & inverts are shown and labeled.

■ All proposed above ground features are shown and labeled.

■ The line work & text for all proposed features is shown darker than existing features.

■ All proposed easements & right-of-ways are shown and labeled.

■ 1' existing contours are shown dashed & labeled with appropriate spot elevations.

■ 1' proposed contours are shown & labeled with appropriate spot elevations.

■ All elevations are National Geodetic Vertical Datum of 1929 (NGVD29).

■ Sediment & Erosion control are shown & labeled on the grading plan unless separate drawings have been provided as part of a Stormwater Pollution Prevention Plan (SWPPP).

N/A ☐ **UTILITY PLAN**

☐ All proposed above & below ground features are shown and labeled.

☐ All existing above & below ground utilities including sanitary, storm water, water, electric, gas, telephone, cable, fiber optic, etc. are shown and labeled.

☐ All proposed easements & right-of-ways are shown and labeled.

☐ The Plan is adequately dimensioned including radii.

☐ The line work & text for all proposed features is shown darker than existing features.

☐ The following note has been added to the drawings stating, "All water main and service work must be coordinated with the City of Watertown Water Department. The Water Department requirements supersede all other plans and specifications provided."

■ **LANDSCAPING PLAN**

■ All proposed above ground features are shown and labeled.

■ All proposed trees, shrubs, and other plantings are shown and labeled.

■ All proposed landscaping & text are shown darker than existing features.

■ All proposed landscaping is clearly depicted, labeled and keyed to a plant schedule that includes the scientific name, common name, size, quantity, etc.

■ For additional landscaping requirements where nonresidential districts and land uses abut land in any residential district, please refer to Section 310-59, Landscaping of the City's Zoning Ordinance.

■ **Site Plan complies with and meets acceptable guidelines set forth in Appendix A - Landscaping and Buffer Zone Guidelines (August 7, 2007).**

■ **PHOTOMETRIC PLAN** (If Applicable)

■ All proposed above ground features are shown.

■ Photometric spot elevations or labeled photometric contours of the property are clearly depicted. Light spillage across all property lines shall not exceed 0.5 foot-candles.

■ **CONSTRUCTION DETAILS & NOTES**

■ All details and notes necessary to adequately complete the project including, but not limited to, landscaping, curbing, catch basins, manholes, water line, pavement, sidewalks, trench, lighting, trash enclosure, etc. are provided.

N/A ☐ Maintenance & protection and traffic plans & notes for all required work within City streets including driveways, water laterals, sanitary laterals, storm connections, etc. are provided.

N/A ☐ The following note must be added to the drawings stating:
"All work to be performed within the City of Watertown margin will require sign-off from a Professional Engineer, licensed and currently registered to practice in the State of New York, that the work was built according to the approved site plan and applicable City of Watertown standards. Compaction testing will be required for all work to be performed within the City of Watertown margin and must be submitted to the City of Watertown Codes Department."

■ **PRELIMINARY ARCHITECTUAL PLANS** (If Applicable)

■ Floor plan drawings, including finished floor elevations, for all buildings to be constructed are provided.

■ Exterior elevations including exterior materials and colors for all buildings to be constructed are provided.

■ Roof outline depicting shape, slope and direction is provided.

■ **ENGINEERING REPORT**

**** The engineering report at a minimum includes the following:**

■ Project location

■ Project description

■ Existing & proposed sanitary sewer flows & summary

■ Water flows & pressure

■ Storm Water Pre & Post Construction calculations & summary

■ Traffic impacts

■ Lighting summary

■ Landscaping summary

■ GENERAL INFORMATION

■ ALL ITEMS ARE STAMPED & SIGNED WITH AN ORIGINAL SIGNATURE BY A PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR SURVEYOR LICENSED AND CURRENTLY REGISTERED TO PRACTICE IN THE STATE OF NEW YORK.

N/A ☐ If required, a copy of the Stormwater Pollution Prevention Plan (SWPPP) submitted to the NYSDEC will also be sent to the City of Watertown Engineering Department.

☐ ** If required, a copy of all submittals sent to the New York State Department of Environmental Conservation (NYSDEC) for the sanitary sewer extension permit will also be sent to the City of Watertown Engineering Department.

☐ ** If required, a copy of all submittals sent to the New York State Department of Health (NYSDOH) will also be sent to the City of Watertown Engineering Department.

** When NYSDEC or NYSDOH permitting is required, the property owner/applicant shall retain a licensed Professional Engineer to perform inspections of the proposed utility work and to certify the completed works were constructed in substantial conformance with the approved plans and specifications.

☐ Signage will not be approved as part of this submission. It requires a sign permit from the Codes Department. See Section 310-52.2 of the Zoning Ordinance.

■ Plans have been collated and properly folded.

☐ If an applicant proposes a site plan with multiple buildings and any of those buildings front on a private drive, the City Council will name the private drive by resolution and the building(s) will be given an address number on that private drive by City staff. The applicant may propose a name for the private drive for the City Council's consideration.

Proposed Street Name: _____

☐ Explanation for any item not checked in the Site Plan Checklist.

_____

_____

_____

_____

_____

Short Environmental Assessment Form
Part 1 - Project Information

Instructions for Completing

Part 1 - Project Information. The applicant or project sponsor is responsible for the completion of Part 1. Responses become part of the application for approval or funding, are subject to public review, and may be subject to further verification. Complete Part 1 based on information currently available. If additional research or investigation would be needed to fully respond to any item, please answer as thoroughly as possible based on current information.

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

Part 1 - Project and Sponsor Information

Name of Action or Project:
Current Applications - Building Addition

Project Location (describe, and attach a location map):
275 Bellew Avenue South

Brief Description of Proposed Action:
The project consists of a proposed 10,240 sf building addition on the north side of the existing building. Site amenities include the construction of a 5,840 sf asphalt parking area expansion and drive along the north side of the addition. No new site utilities are proposed. Utilities will be provided from the within the existing building.

Name of Applicant or Sponsor:	Telephone: 315-785-9884
DC Building Systems, Inc.	E-Mail: don@dc-buildingsystems.com

Address:
19086 US Route 11

City/PO:	State:	Zip Code:
Watertown	NY	13601

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

3.a. Total acreage of the site of the proposed action? 3.95 acres
b. Total acreage to be physically disturbed? 0.77 acres
c. Total acreage (project site and any contiguous properties) owned or controlled by the applicant or project sponsor? 3.95 acres

4. Check all land uses that occur on, adjoining and near the proposed action.
☐ Urban ☐ Rural (non-agriculture) ☑ Industrial ☑ Commercial ☐ Residential (suburban)
☐ Forest ☐ Agriculture ☐ Aquatic ☐ Other (specify): _____
☐ Parkland

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

	NO	YES
6. Is the proposed action consistent with the predominant character of the existing built or natural landscape?	☐	☑
7. Is the site of the proposed action located in, or does it adjoin, a state listed Critical Environmental Area? If Yes, identify: _____	☑	☐
8. a. Will the proposed action result in a substantial increase in traffic above present levels?	☑	☐
b. Are public transportation service(s) available at or near the site of the proposed action?	☑	☐
c. Are any pedestrian accommodations or bicycle routes available on or near site of the proposed action?	☑	☐
9. Does the proposed action meet or exceed the state energy code requirements? If the proposed action will exceed requirements, describe design features and technologies: _____	☐	☑
10. Will the proposed action connect to an existing public/private water supply? If No, describe method for providing potable water: _____	☐	☑
11. Will the proposed action connect to existing wastewater utilities? If No, describe method for providing wastewater treatment: _____	☐	☑
12. a. Does the site contain a structure that is listed on either the State or National Register of Historic Places?	☑	☐
b. Is the proposed action located in an archeological sensitive area?	☐	☑
13. a. Does any portion of the site of the proposed action, or lands adjoining the proposed action, contain wetlands or other waterbodies regulated by a federal, state or local agency?	☐	☑
b. Would the proposed action physically alter, or encroach into, any existing wetland or waterbody? If Yes, identify the wetland or waterbody and extent of alterations in square feet or acres: _____	☑	☐

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

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

☐ Wetland ☑ Urban ☐ Suburban

	NO	YES
15. Does the site of the proposed action contain any species of animal, or associated habitats, listed by the State or Federal government as threatened or endangered?	☐	☑
16. Is the project site located in the 100 year flood plain?	☑	☐
17. Will the proposed action create storm water discharge, either from point or non-point sources? If Yes, a. Will storm water discharges flow to adjacent properties? ☐ NO ☑ YES	☐	☑
b. Will storm water discharges be directed to established conveyance systems (runoff and storm drains)? If Yes, briefly describe: ☐ NO ☑ YES		

	NO	YES
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)? If Yes, explain purpose and size: _____	☑	☐
19. Has the site of the proposed action or an adjoining property been the location of an active or closed solid waste management facility? If Yes, describe: _____	☑	☐
20. Has the site of the proposed action or an adjoining property been the subject of remediation (ongoing or completed) for hazardous waste? If Yes, describe: _____	☑	☐

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

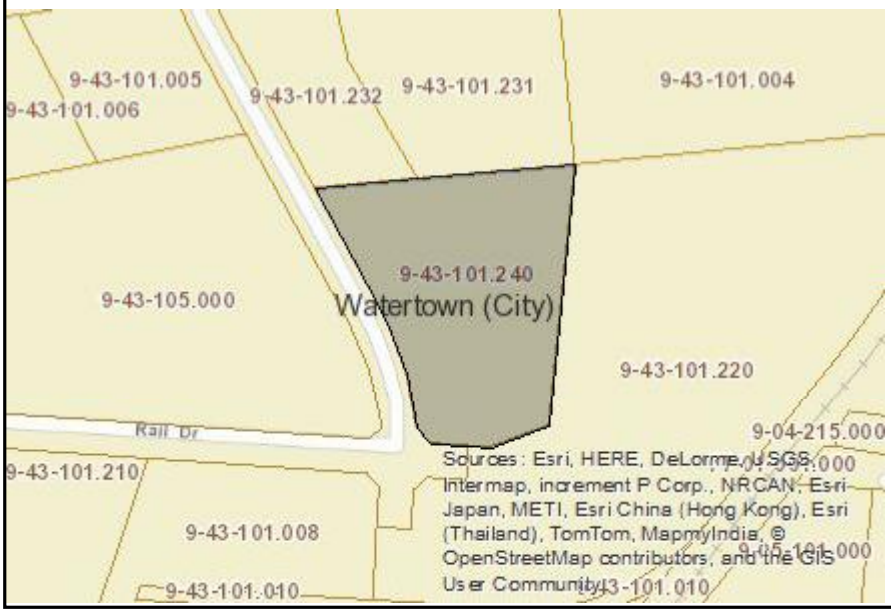
Applicant/sponsor name: DONALD E. CLARK Date: 1/23/15

Signature: Donald E. Clark

PRINT FORM

EAF Mapper Summary Report

Thursday, January 22, 2015 10:31 AM



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

Part 1 / Question 7 [Critical Environmental Area]	No
Part 1 / Question 12a [National Register of Historic Places]	No
Part 1 / Question 12b [Archeological Sites]	Yes
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 16 [100 Year Flood Plain]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
Part 1 / Question 20 [Remediation Site]	No

SHORT EAF SUMMARY REPORT:

Questions 12b, 13a, and 15 are answered automatically by the EAF mapper based upon limited digital mapping information that is available.

- Questions 12b, Archeological Sites, is answered yes due to the location of the historic railroad car maintenance turn-table located on the adjacent tax parcel number 9-43-101.231, directly north of the site. See Subdivision Final Plat, City Center Industrial Park, 10/15/2008, Jeff. Co. File #4655.

- Question 13a, Wetlands, is answered yes due to the location of wetlands located on the adjacent lots directly west of the City Center Industrial Park site. See Subdivision Final Plat, City Center Industrial Park, 10/15/2008, Jeff. Co. File #4655.

- Question 15, Threatened or Endangered Species, is answered yes due to the lot being part of the City Center Industrial Park, which was previously developed adjacent to undeveloped wetlands and forest area to the west. The project site was developed in 2008, and currently contains only buildings, parking lot, grass lawn and landscaping.

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Managing Partner
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Partners
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Architect

Patrick J. Currier, R.A.
Architect

Brian A. Jones, AIA.,
LEED AP BD+C
Architect

Matthew R. Morgia, P.E.
Civil Engineer

Jayson J. Jones, P.L.S.
Land Surveyor

ENGINEERING REPORT

CURRENT APPLICATIONS, INC.
BUILDING ADDITION PROJECT
275 BELLEW AVENUE SOUTH
CITY OF WATERTOWN
JEFFERSON COUNTY, NEW YORK

Owner: Current Applications, Inc.
275 Bellew Avenue South
Watertown, NY 13601

February 17, 2015

Matthew R. Morgia, P.E.
Civil Engineer

Aubertine and Currier Architects, Engineers & Land Surveyors, PLLC
522 Bradley Street Watertown, New York 13601 TELE: (315) 782-2005 FAX: (315) 782-1472

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Subdivision Final Plat, City Center Industrial Park

Appendix 2: Sanitary Sewer Design Calculations
Trip Generator Calculations
Hydrologic and Hydraulic Analysis

1.0 SITE AND PROJECT DESCRIPTIONS

1.1 Location

The project is located within the City of Watertown at 275 Bellew Avenue South. The site is Lot #8 of the City Center Industrial Park, which was developed in 2001. The site currently has an existing building that is owned and operated by Current Applications Inc. for the manufacturing of electric motors and parts. Construction of the original building project was completed in the 2008. The property is located on Tax Map Parcel No. 9-43-101.240. This parcel is zoned LI – Light Industrial.

1.2 Project Description

The project consists of a 10,240 SF addition to the existing 20,050 SF single story pre-engineered metal building. The addition will extend 80' from the north side of the existing building. The depth, finish and color of the addition will match the existing building. The main entrance will be thru the existing building. The addition will include one man door and one overhead door on the north side and one man door on the west side of the building. A 5,840 SF asphalt parking area and drive will be constructed along the north side of the addition.

1.3 Site Topography

The location of the proposed addition is relatively flat, pre-developed lawn area of the property.

Site runoff is primarily sheet flow to existing on-site drainage channels and stormwater treatment areas. Existing onsite grass swales, rock check dams and stormwater basins with outlet control structures provide stormwater management of runoff. These measures were installed in 2008 as part of the construction of the original building project.

The developed area of the project is not located within a 100 year flood plain.

1.4 Soil Classification

The project site is located in the City of Watertown, which is an urban environment and consists primarily of previously developed area. According to the USDA Web Soil Survey for Jefferson County, New York, the project area is classified as a sandy loam and is a Hydrologic Group A.

Soil Symbol	Soil Name	Hydrologic Group
Ub	Udorthents, smoothed	A

2.0 WATER FACILITIES

2.1 Existing Water Facilities

There is an 8” municipal water main within Bellew Avenue South. The existing building is served by an 8” combined domestic water/fire service from the street which enters the building in the northwest corner.

2.2 Proposed Water Facilities

No new additional water service is proposed for this project.

2.3 Water Demand

The projected peak domestic water usage by this manufacturing building with 49 employees is 735 gpd.

A fire flow test will be completed during the design of the addition’s sprinkler system.

3.0 SANITARY SEWER FACILITIES

3.1 Existing Sanitary Sewer Facilities

There is an 27” municipal gravity sanitary sewer main within Bellew Avenue South.

The existing building is served by a 6” gravity sewer lateral from the street which enters the existing building along the west side of the building. Sewer service is provided to the office and restroom area of the building

3.2 Proposed Sanitary Sewer Facilities

No new additional sewer lateral is proposed for this project.

3.3 Sewer Flows

The existing projected design flows generated by this manufacturing building with 45 employees is 675 gpd. Sewer flows are based upon the NYS DEC 2014 Design Standards for Wastewater Treatment Systems projected flow rates of 15 gpd per employee. The proposed addition would increase the total number of employees to 49. The projected design flows generated by this manufacturing building with 49 employees is 735 gpd.

4.0 STORMWATER FACILITIES

4.1 Existing Drainage

This existing property includes a 20,050 sf building, asphalt parking lot and asphalt driveway for deliveries and pick-ups. The building is located in the center of the property with grading sloping away from the building. There are two drainage swales located along the northerly and easterly property line that direct flows to two stormwater management basins located along the southerly property line and in the northwest corner of the property. Site runoff is by sheet flow to these drainage swales and basins. Roof runoff is collected by gutters and leaders and piped to the southerly stormwater basin.The stormwater runoff passes thru the basins and outlet control structures, where flows are then piped into the City's Bellew Avenue South storm sewer system.

The existing site drainage and runoff conditions were analyzed utilizing the Rational Method. HydroCAD calculations can be found in Appendix #2. Runoff calculations were completed for the 10, 25, 50 and 100 year, 24 hour storm events. Peak discharge from the 25 year, 24 hour, storm event has been utilized for design and discussion purposes. The existing condition 25 year site discharge is 0.11 CFS.

4.2 Proposed Drainage

Site improvements are very minimal in nature. Minimal grading is required around the north side of the existing building. Roof runoff from the proposed addition will be directed off the east side of the building and into the lawn area. Site runoff from the roof and the new asphalt parking and drive will sheet flow to the north and into the drainage swale along the northerly property line, before entering the northerly stormwater management basin. No anticipated flows will be directed to the southerly stormwater management basin.

The proposed conditions 25 year, 24 hour storm, peak discharge is 0.16 CFS. This relatively minimal increase in peak runoff from the existing condition of the project site is due primarily to the 0.40 acre increase in impervious area resulting from the building addition and parking lot construction.

The project was reviewed with NYSDEC personnel, Brian Boyer with Division of Water and has been determined that based on the nature of the project, that no SPDES permit coverage or SWPPP modification is required.

5.0 ROADS / DRIVEWAYS

5.1 Existing Roads / Driveways

The property gains access from Bellew Avenue South through (2) existing 24' wide driveways. The northern driveway is for visitor's and employee parking, while the southern driveway is for truck delivery and pick-up area.

5.2 Proposed Roads / Driveways

No new driveways to city streets, proposed for this project. Internal site drive and parking access will be provided north of the addition for eleven vehicles and the overhead door access.

5.3 Traffic

Trip generation calculations were performed utilizing data from the ITE Trip Generation Manual, 7th Edition. The resulting anticipated trips for the existing building and the anticipated trips for the existing building with the addition and the added employees have been calculated.

The existing weekday AM Peak Hour generates approximately 19 trips/hour entering and 3 trips/hour exiting. The existing weekday PM Peak Hour generates approximately 7 trips/hour entering and 16 trips/hour exiting.

The total with the existing building and the proposed addition and added employees for weekday AM Peak Hour generates approximately 20 trips/hour entering and 3 trips/hour exiting. The existing weekday PM Peak Hour generates approximately 7 trips/hour entering and 2 trips/hour exiting

This results in a minimal increase of approximately 2 trips/hour following completion of the addition.

6.0 PRIVATE UTILITIES

6.1 Gas, Electric, Telephone and Cable

There are existing electric, gas, cable, and telephone services to the existing building. Any new or extensions to these services will be completed within the building.

7.0 LIGHTING

7.1 Existing Site Lighting

The existing site lighting is provided by an exterior pole mounted light fixture in the parking lot and by (5) building mounted wall pack fixtures on all four sides of the building.

7.2 Proposed Site Lighting

An existing building mounted wall pack located on the north side of the building will be removed to accommodate the building addition and parking area. Two building mounted wall pack cut0off light fixtures will be installed on the north side of the addition.

8.0 LANDSCAPING

8.1 Existing Landscaping

The existing landscaping consists of a raised landscape berm with spruce trees along the northeast side of Bellew Avenue South that buffer the street from the parking areas. Additional maple trees, shrubs and landscaped areas are located around the westerly and southerly portions of the building. This landscaping was part of the 2008 building construction.

8.2 Proposed Landscaping

Additional trees will be located along the north side of the building addition. Species were selected from existing trees located on the front of the building.

Sincerely,
Aubertine and Currier Architects, Engineers & Land Surveyors, P.L.L.C.

Matthew R. Morgia, P.E.
Civil Engineer

Aubertine and Currier Architects, Engineers & Land Surveyors, PLLC
522 Bradley Street Watertown, New York 13601 TELE: (315) 782-2005 FAX: (315) 782-1472

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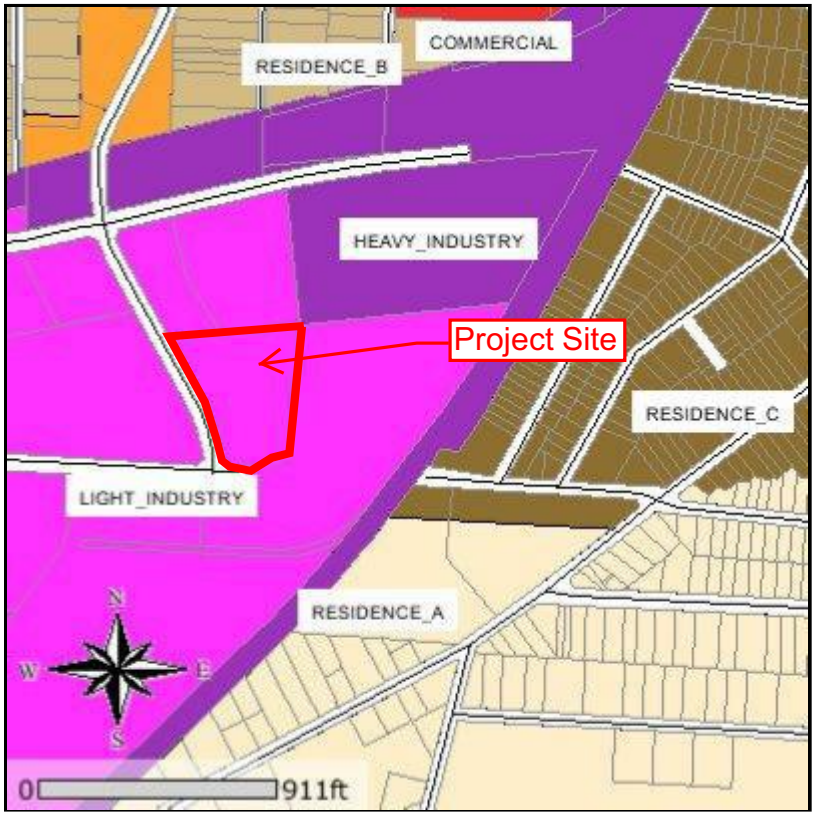
APPENDIX #1

LOCATION MAP
CITY OF WATERTOWN ZONING MAP
SOILS MAP
SOILS DESCRIPTION
CITY OF WATERTOWN GIS FLOODPLAIN MAP
US FISH AND WILDLIFE WETLANDS MAP
NYSDEC WETLANDS MAP
SUBDIVISION FINAL PLAT, CITY CENTER INDUSTRIAL PARK

bing Maps

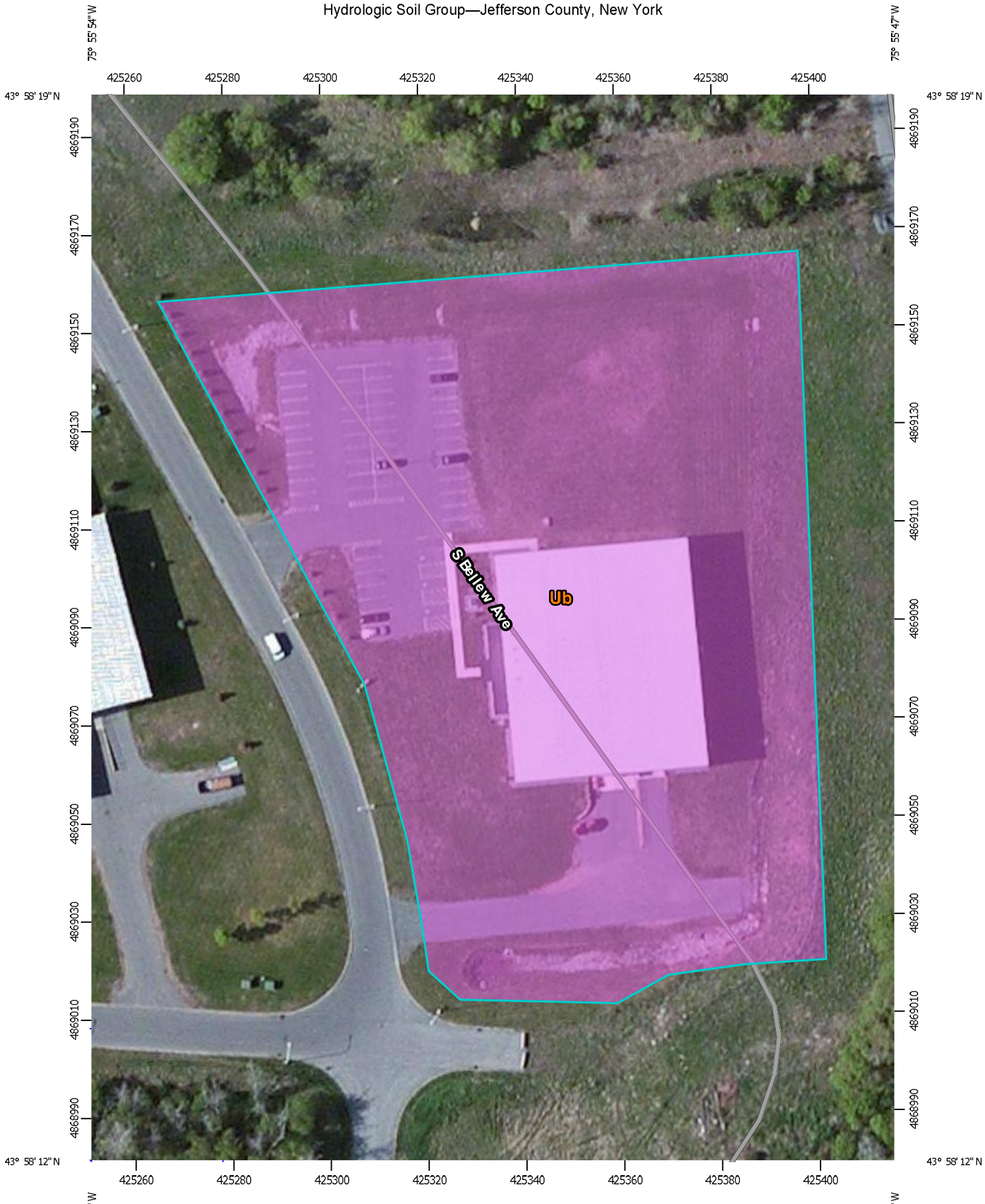
My Notes

On the go? Use **m.bing.com** to find maps, directions, businesses, and more



January 22, 2015

Disclaimer: **This map was prepared by the City of Watertown Internet Mapping Application. The information was compiled using the most current data available. It is deemed accurate, but is not guaranteed.**


75° 55' 54" W
75° 55' 47" W
425260
425280
425300
425320
425340
425360
425380
425400
43° 58' 19" N
43° 58' 12" N
4869190
4869170
4869150
4869130
4869110
4869090
4869070
4869050
4869030
4869010
4868990
S Ballew Ave
Ub
Map Scale: 1:1,060 if printed on A portrait (8.5" x 11") sheet.
N
Meters
0 15 30 60 90
Feet
0 50 100 200 300
Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 18N WGS84

MAP LEGEND

Area of Interest (AOI)

Area of Interest (AOI)

Soils

Soil Rating Polygons

- A
- A/D
- B
- B/D
- C
- C/D
- D
- Not rated or not available

Soil Rating Lines

- A
- A/D
- B
- B/D
- C
- C/D
- D
- Not rated or not available

Soil Rating Points

- A
- A/D
- B
- B/D
- C
- C/D
- D
- Not rated or not available

Water Features

- Streams and Canals

Transportation

- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background

- Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:15,800.

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

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

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL: http://websoilsurvey.nrcs.usda.gov
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: Jefferson County, New York
Survey Area Data: Version 11, Sep 15, 2014

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

Date(s) aerial images were photographed: May 11, 2011—Jul 2, 2011

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.

Hydrologic Soil Group

Hydrologic Soil Group— Summary by Map Unit — Jefferson County, New York (NY045)				
Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
Ub	Udorthents,smoothed	A	3.6	100.0%
Totals for Area of Interest			**3.6**	**100.0%**

Description

Hydrologic soil groups are based on estimates of runoff potential. Soils are assigned to one of four groups according to the rate of water infiltration when the soils are not protected by vegetation, are thoroughly wet, and receive precipitation from long-duration storms.

The soils in the United States are assigned to four groups (A, B, C, and D) and three dual classes (A/D, B/D, and C/D). The groups are defined as follows:

Group A. Soils having a high infiltration rate (low runoff potential) when thoroughly wet. These consist mainly of deep, well drained to excessively drained sands or gravelly sands. These soils have a high rate of water transmission.

Group B. Soils having a moderate infiltration rate when thoroughly wet. These consist chiefly of moderately deep or deep, moderately well drained or well drained soils that have moderately fine texture to moderately coarse texture. These soils have a moderate rate of water transmission.

Group C. Soils having a slow infiltration rate when thoroughly wet. These consist chiefly of soils having a layer that impedes the downward movement of water or soils of moderately fine texture or fine texture. These soils have a slow rate of water transmission.

Group D. Soils having a very slow infiltration rate (high runoff potential) when thoroughly wet. These consist chiefly of clays that have a high shrink-swell potential, soils that have a high water table, soils that have a claypan or clay layer at or near the surface, and soils that are shallow over nearly impervious material. These soils have a very slow rate of water transmission.

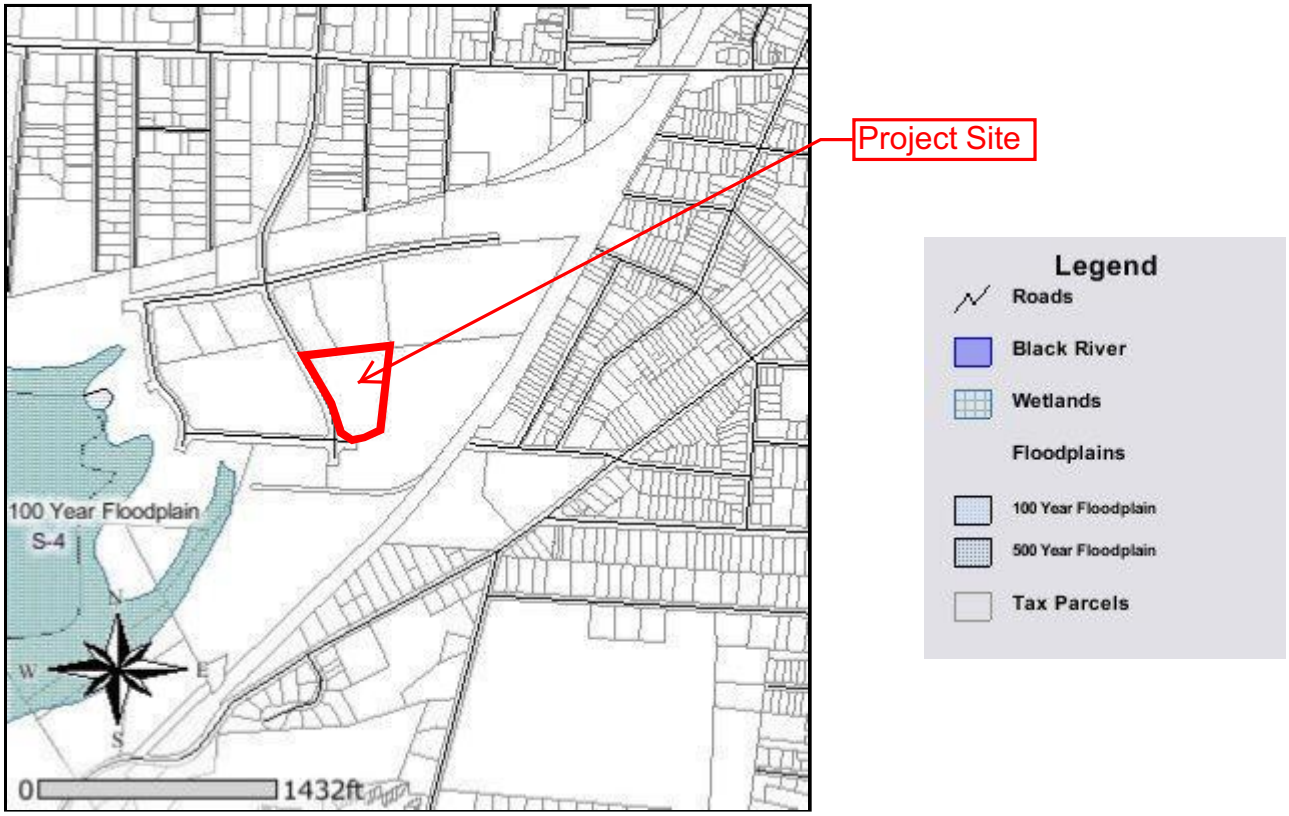
If a soil is assigned to a dual hydrologic group (A/D, B/D, or C/D), the first letter is for drained areas and the second is for undrained areas. Only the soils that in their natural condition are in group D are assigned to dual classes.

Rating Options

Aggregation Method: Dominant Condition

Component Percent Cutoff: *None Specified*

Tie-break Rule: Higher



January 22, 2015

Disclaimer: **This map was prepared by the City of Watertown Internet Mapping Application. The information was compiled using the most current data available. It is deemed accurate, but is not guaranteed.**

U.S. Fish and Wildlife Service
National Wetlands Inventory

Current Applications

Feb 3, 2015

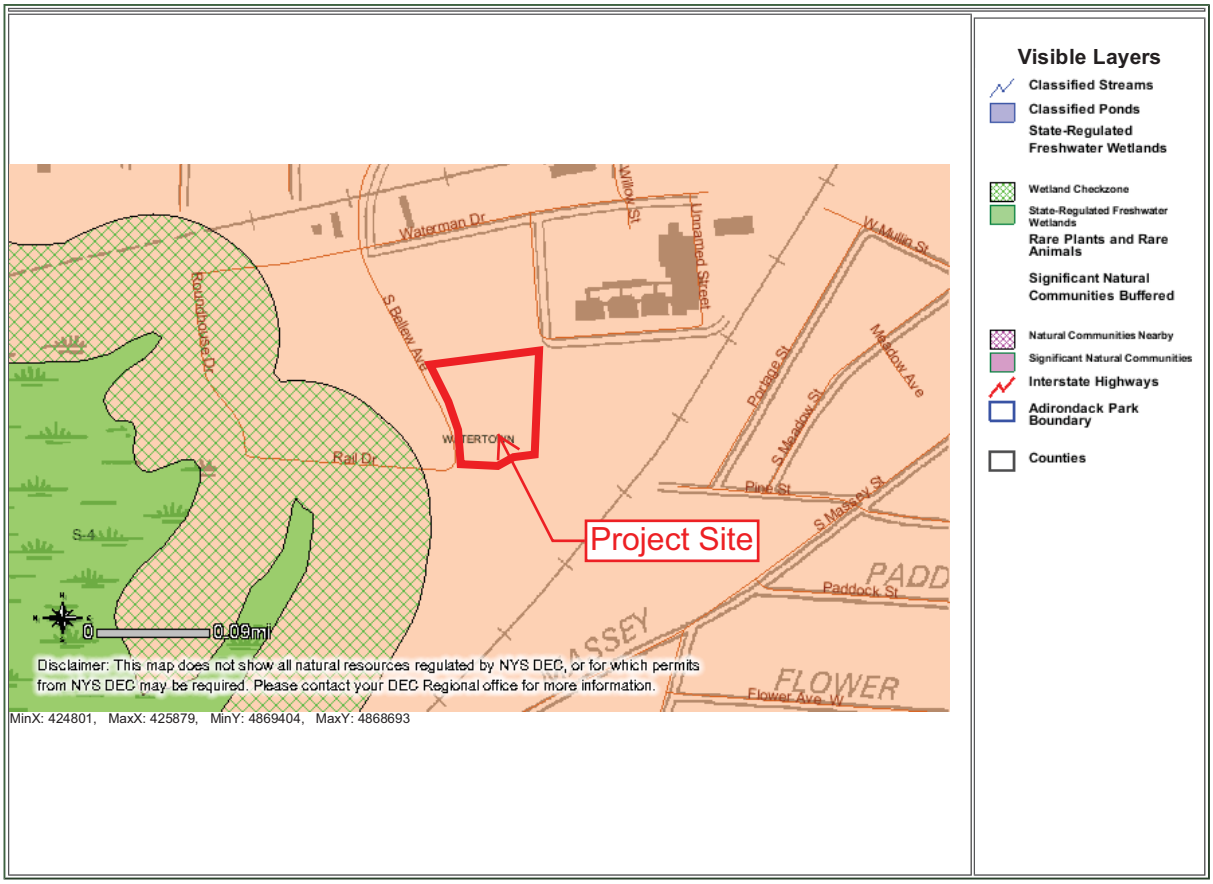
Wetlands

- Freshwater Emergent
- Freshwater Forested/Shrub
- Estuarine and Marine Deepwater
- Estuarine and Marine
- Freshwater Pond
- Lake
- Riverine
- Other

User Remarks:

[print page] [close window]

Please set your printer orientation to "Landscape".



MinX: 424801, MaxX: 425879, MinY: 4869404, MaxY: 4868693

Disclaimer:This map was prepared by the New York State Department of Environmental Conservation using the most current data available. It is deemed accurate but is not guaranteed. NYS DEC is not responsible for any inaccuracies in the data and does not necessarily endorse any interpretations or products derived from the data.

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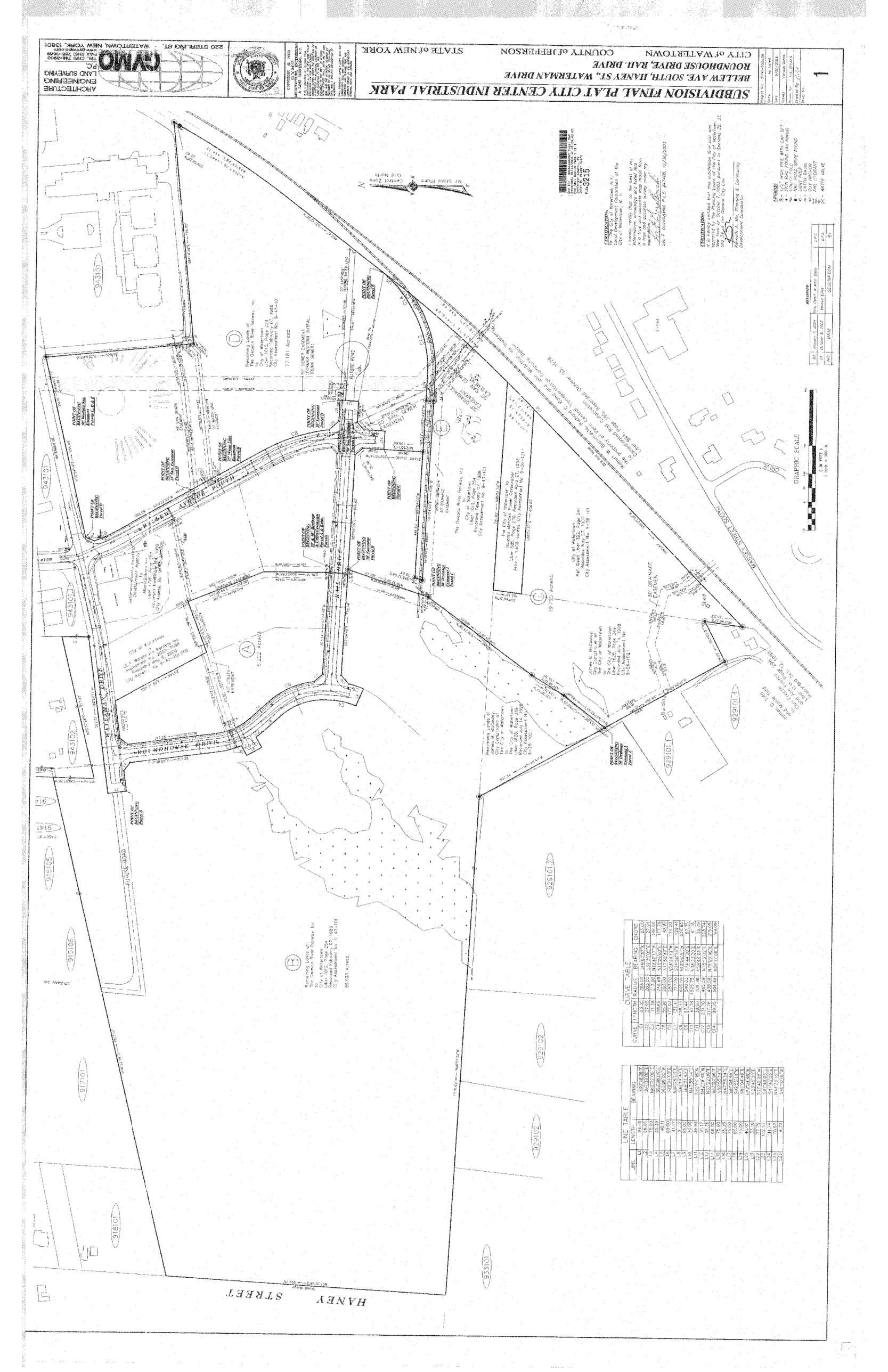
SUBDIVISION FINAL PLAT CITY CENTER INDUSTRIAL PARK
BELLEW AVE. SOUTH, HANEY ST., WATERMAN DRIVE
ROUNDHOUSE DRIVE, RAIL DRIVE
CITY of WATERTOWN COUNTY of JEFFERSON STATE of NEW YORK
ARCHITECTURE ENGINEERING LAND SURVEYING P.C.
CVMO
220 STERLING ST. WATERTOWN, NEW YORK 13601
TEL (315) 788-3900 FAX (315) 788-1668 WWW.CVMOPC.COM
GRAPHIC SCALE
HANEY STREET
WATERMAN DRIVE
ROUNDHOUSE DRIVE
RAIL DRIVE
BELLEW AVENUE SOUTH
FUTURE ROAD
CERTIFICATION:
CERTIFICATION:
LEGEND:
LINE TABLE
CURVE TABLE

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APPENDIX #2

SANITARY SEWER DESIGN CALCULATIONS
TRIP GENERATOR CALCULATIONS
HYDROLOGIC AND HYDRAULIC ANALYSIS

Aubertine and Currier Architects, Engineers & Land Surveyors, PLLC
522 Bradley Street Watertown, New York 13601 TELE: (315) 782-2005 FAX: (315) 782-1472

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AUBERTINE and CURRIER
ARCHITECTS, ENGINEERS AND LAND SURVEYORS, PLLC

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WATERTOWN, NY 13601
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CALCULATION SHEET

Project Number: 2015-005 Date: 11/23/2015
Project Name: CURRENT APPLICATIONS Page: 1 Of: 1
Location: 275 BELGIUM AVE SOUTH Calc'd By: TFT

SANITARY SEWER DESIGN CALCULATIONS

PER DEC 2014 DESIGN STANDARDS FOR WASTEWATER TREATMENT SYSTEMS

EXISTING 20,050 SF MANUFACTURING BUILDING WITH 45 EMPLOYEES (EST.)

FACTORY / DISTRIBUTION WAREHOUSE 15 GPD / EMPLOYEE (PER DEC)

DESIGN FLOWS (EXISTING)

45 EMPLOYEES x 15 GPD = 675 GPD (EXISTING)

DESIGN FLOWS (PROPOSED)

EST. 4 NEW EMPLOYEES UPON COMPLETION OF 10,240 SF ADDITION

4 EMPLOYEES x 15 GPD = 60 GPD (ADDITIONAL)

675 GPD (EXISTING)
60 GPD (ADDITIONAL)

735 GPD TOTAL

etc.) and exclude extraneous data. There should be a reasonable explanation for the operational variations and any extraneous data excluded.

Method 3: Water Usage Data

A minimum of one year of data collected during similar operational conditions may be required by the Reviewing Engineer. If sufficient measured water usage data is not available, Method 3 should not be used. The average of the daily (24-hour) flow over the duration of the data collection period is an acceptable method for determining the average daily flow rate. The largest daily (24-hour) measured volume during the same period expressed in volume per unit time is an acceptable method for determining the maximum day flow rate. The analysis should account for operational variations (e.g. peak seasonal, weekends, special events, delivery period, etc.) and exclude extraneous data. There should be a reasonable explanation for operational variations and any extraneous data excluded.

For each of these methods, the peak hourly flow rate (largest hourly volume expressed in volume per unit time) should also be identified. When variation in the wastewater flow rate is expected to be substantial, it is necessary to examine the significant delivery period of the wastewater and base the system design upon this information to prevent an excessive rate of flow through wastewater collection and treatment systems. Flow equalization prior to treatment units should be considered to avoid hydraulic overloading of treatment units during peak loading periods (peak hourly flow and maximum daily flow).

Table B-3 Typical Per-Unit Hydraulic Loading Rates

Residential

Type of Use	*Unit*	*Gallons per Day*
Apartment	Per Bedroom	110/130/150[16]
Mobile Home Park	"Single-Wide" Home "Double-Wide" Home	220 330
Single Family Residence	Per Bedroom	110 / 130/ 150[17]

[16] 110 gpd for post 1994 plumbing code fixtures; 130 gpd for pre 1994 fixtures; and 150 gpd for pre 1980 fixtures. Homes over 1,000 gpd, community systems, or lodging establishments with high flow fixtures must account for any higher peak flow periods.

[17] For individual household systems under 1,000 gpd, use design flows in the NYSDOH's *Wastewater Treatment Standards Residential Onsite Systems - Appendix 75- A.*

Campgrounds

Type of Use	*Unit*	*Gallons per Day*
Day Camp	Per Person	15
	Add for Shower	5
	Add for Lunch	5
Campground	Per Unsewered Site[18]	55(includes showers)
	Per Sewered Site – with water hookups	100
	Per Sewered Site – without water hookups	55
Campground Day Use	Per Person	5
Dumping Station [19]	Per Unsewered Site	10
	Per Sewered Site	5

Institutional

Type of Use	*Unit*	*Gallons per Day*
Assisted Living Facility/Complex	Per Bed[20,21] – add 10 gpd for in room kitchen	110/130/150
Group Home (residential-style building)	Per Bed[20] - add 150 gpd per house for garbage grinder	110/130/150
Nursing Home (hospital care)	Per Bed[20,21]	175
Hospital	Per Bed[20,21]	175
	Per Outpatient	30
Church	Per Seat[20]	3
Church Hall/Fire Hall	Per Seat[21]	10

[18] Additional wastewater flow due to food service or laundry shall be accounted for. Structures available for overnight occupancy other than those meeting the definition of a camping unit shall be based on 150 gpd / unit for design flow purposes, pursuant to NYSDOH – *Chapter 1 State Sanitary Code Subpart 7-3 Campgrounds.*

[19] The addition of flow for dump station sewage may be prorated by using an estimated percentage of sites suited for RV use based on historical data. No reduction for low flow fixture usage should be applied here.

[20] Add 15 gpd per employee

[21] Add for Food Service (e.g. 24-hour restaurant; refer to Food Service Operations Table)

Library/ Museum	Per Patron[20,21]	5
Public Park	Per Person (toilet only)	5
Prison / Jail	Per Inmate[20,21]	150
School – Day	Per Student	10
- or -	Elem./ Jr. High / Sr. High	7 / 9 / 12
- and -	Add for meals / showers	5 / 5
School Boarding	Per Student[20,21]	75

Commercial

Type of Use	*Unit*	*Gallons per Day*
Airport/Bus/Rail Terminal	Per Passenger[22] Per Toilet	5 400
Barber Shop / Beauty Salon	Per Station without and with hair care sink	50/ 200
Bowling Alley	Per Lane [22,23]	75
Bed & Breakfast	Per Room (see note under Residential)	110/130/150
Casino	Per Employee/shift plus Per Sq. Ft. for non-lodging customer use	15 0.3
Country Clubs & Golf Courses	Per Round of Golf [21,22] (add for bar, banquet, shower or pool facilities and golf tournaments)	20
Concert Hall / Arena / Assembly Hall / Theater / Stadium / Skating Rink	Per Seat [21,22]	5
Day Care	Per Child [21]	20
Doctors Office	Per Doctor	250
Dog / Pet Grooming	Per Station	500
Also see Kennel and Veterinary Office below.		
Dentist	Per Chair[24]	250

[22] Add 15 gpd per employee/shift

[23] Add for Food Service (e.g. 24 hour restaurant; refer to Food Service Operations Table)

[24] Dental offices must recycle mercury amalgam instead of washing it down the drain. NYSDEC's website has

Drive-In Theater	Per Car Space [25]	5
Factory / Distribution Warehouse	Per Employee/shift; add for showers	15 10
Fairgrounds	Per Visitor [25]	5
Health Club	Per Patron	20
Highway Rest Area	Per Traveler[25] Per Dump Station Vehicle	5 7
Hotel	Per Sleeping Unit [25] add for banquet hall, night club, pool/spa, theatre, etc.	110/130/150
Kennel	Per Kennel/Run/Cage	50
Laundromat	Per Machine	580
Marina	Per Slip [25] with shore side restroom facilities including shower; add per slip for dump station	20 7
Migrant Worker Housing	Per Person	50
Motel	Per Sleeping Unit; add for in-room kitchen; add for in-room jacuzzi/spa	110/130/150 10 20
Office Building	Per Employee[25]; add for showers	15 5
Service station/Convenience store	Per Toilet[25]	400
Shopping Center / Grocery Store / Department Store	Per Sq. Ft. [25,26]; add for deli, bakery, butcher	0.1
Swimming Pool / Bath House	Per Swimmer	10
Veterinary Office	Per Veterinarian	200

guidance referencing the 2002 law.

[25] Add for Food Service (e.g. 24-hour restaurant; refer to Food Service Operations Table)

[26] Add 15 gpd per employee/shift

Food Service Operations[27]

Type of Use	*Unit*	*Gallons per Day*
Ordinary Restaurant	Per Seat	35
24-Hour Restaurant	Per Seat (for cafeterias: pro rate flow in proportion to the hours)	50
Fast Food Restaurant	Per Seat	25
	Per Drive-Up Window	500
Lounge, Bar	Per Seat	20
Drive-In	Per Car Space	50
Banquet Hall	Per Seat	10
Restaurant along Freeway	Per Seat	75

B.6.c Infiltration, Inflow, Non-Sanitary and Prohibited Flows

Cooling water, roof drains, footing, sump and basement floor drains should not be discharged to the treatment system. Clean water from ice machines, water cooled refrigerators or coolers should also be excluded. Undetected leaks from plumbing fixtures, typically toilets and faucets, can waste significant amounts of water and subsequently increase the volume of wastewater to be treated. Simple repairs and routine operation and maintenance of plumbing fixtures can save water and increase the efficiency of wastewater treatment system.

Similarly, leaking sewer joints, pipe tank seals, tank riser seals, cracks in treatment tanks and manhole covers that are not watertight can be significant sources of infiltration of the system. These extraneous flows can cause periodic hydraulic overloads and affect treatment performance which can lead to system failure. Exfiltration from the system can have a negative impact on groundwater quality.

The discharge of swimming pool filter backwash wastewater should not be directed to a septic tank

[27] Garbage grinder use should be evaluated in the design phase of the project and accounted for in tank sizing per Section D.6 Septic Tanks.

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www.AubertineCurrier.com

CALCULATION SHEET

Project Number: 2015-005 Date: 1/23/2015
Project Name: CURRENT APPLICATIONS Page: 1 Of: 2
Location: 275 BELLEW AVE SOUTH Calc'd By: TFT

TRAFFIC GENERATION CALCULATIONS
TRIP GENERATION - ITE 7TH EDITION

EXISTING 20,050 SF MANUFACTURING BUILDING
WITH 45 EMPLOYEES

- LAND USE - GENERAL LIGHT INDUSTRIAL (110)

WEEKDAY, AM PEAK HOUR
AVG RATE 0.48 PER EMPLOYEE
87% ENTERING, 13% EXITING

45 EMPLOYEES x 0.48 = 21.6 TRIPS/HR
19 ENTERING, 3 EXITING

WEEKDAY, PM PEAK HOUR
AVG RATE 0.51 PER EMPLOYEE
29% ENTERING, 71% EXITING

45 EMPLOYEES x 0.51 = 23.0 TRIPS/HR
7 ENTERING, 16 EXITING

PROPOSED 10,240 SF ADDITION WITH 4 ADDITIONAL EMPLOYEES

TOTAL 30,290 SF MANUFACTURING BUILDING
WITH 49 EMPLOYEES

CONT.

AUBERTINE and CURRIER
ARCHITECTS, ENGINEERS AND LAND SURVEYORS, PLLC

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CALCULATION SHEET

Project Number: 2015-005 Date: 1/23/2015
Project Name: CURRENT APPLICATIONS Page: 2 Of: 2
Location: 295 BELLEVU AVE SOUTH Calc'd By: TFT

WEEKDAY, AM PEAK HOUR
AVG RATE 0.48 PER EMPLOYEE
87% ENTERING, 13% EXITING

49 EMPLOYEES x 0.48 = 23.5 TRIPS/HR
20 ENTERING, 3 EXITING

WEEKDAY, PM PEAK HOUR
AVG RATE 0.51 PER EMPLOYEE
29% ENTERING, 71% EXITING

49 EMPLOYEES x 0.51 = 25.0 TRIPS/HR
7 ENTERING, 18 EXITING

Land Use: 110
General Light Industrial

Description

Light industrial facilities usually employ fewer than 500 persons, they have an emphasis on activities other than manufacturing and typically have minimal office space. Typical light industrial activities include printing, material testing and assembly of data processing equipment. These are free-standing facilities devoted to a single use. General heavy industrial (Land Use 120), industrial park (Land Use 130) and manufacturing (Land Use 140) are related uses.

Additional Data

No vehicle occupancy data were available specifically for general light industrial, but the average was approximately 1.3 persons per automobile for all industrial uses.

The peak hour of the generator typically coincided with the peak hour of the adjacent street traffic.

Facilities with employees on shift work may peak at other hours.

The sites were surveyed in the early 1970s and the mid- to late 1980s throughout the United States.

Source Numbers

7, 9, 10, 11, 15, 17, 88, 174, 179, 184, 191, 192, 251, 253, 286, 300

General Light Industrial
(110)

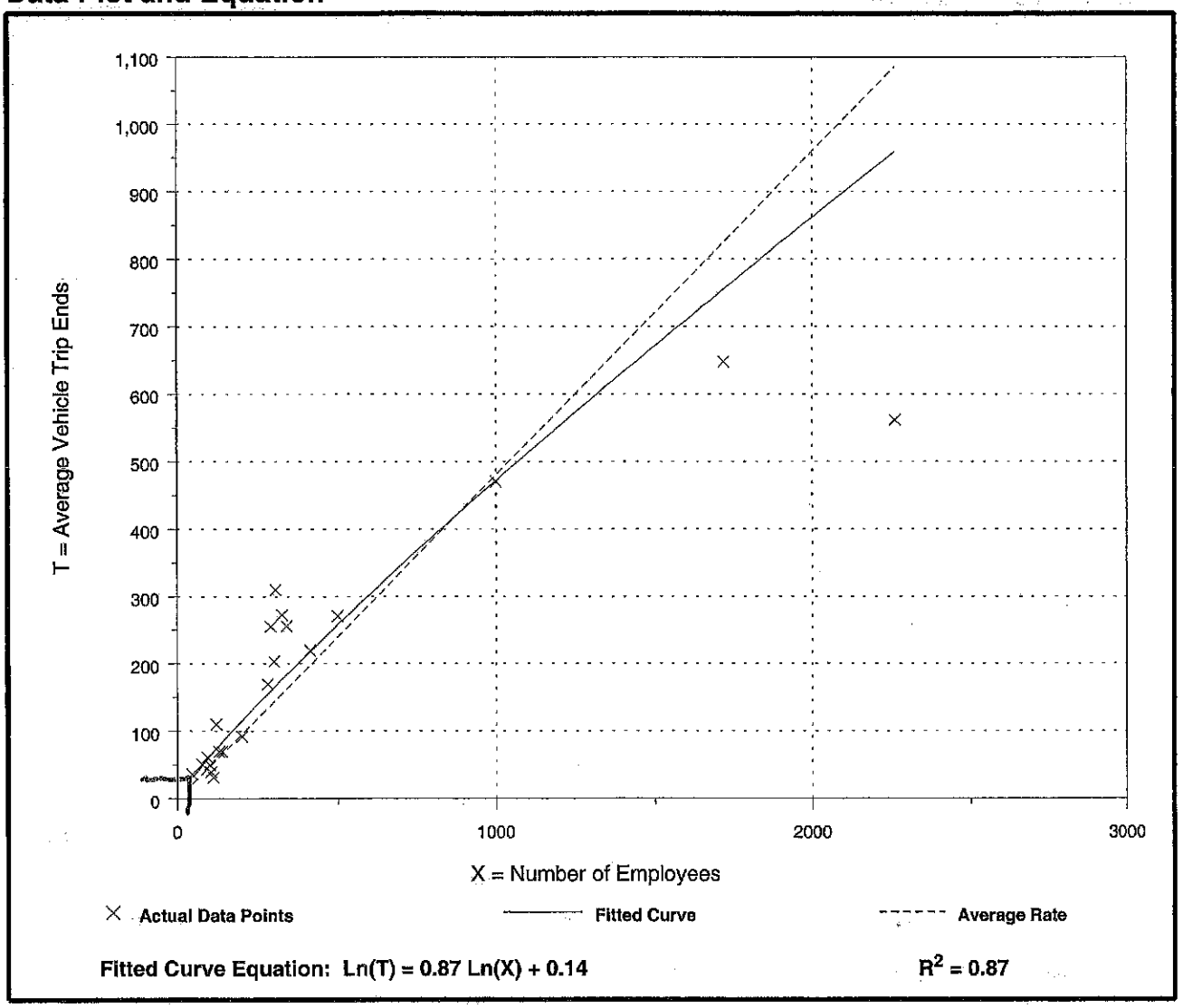
Average Vehicle Trip Ends vs: Employees
On a: Weekday,
A.M. Peak Hour of Generator

Number of Studies: 21
Avg. Number of Employees: 421
Directional Distribution: 87% entering, 13% exiting

Trip Generation per Employee

Average Rate	Range of Rates	Standard Deviation
0.48	0.25 - 1.02	0.72

Data Plot and Equation



Fitted Curve Equation: Ln(T) = 0.87 Ln(X) + 0.14

R^2 = 0.87

General Light Industrial
(110)

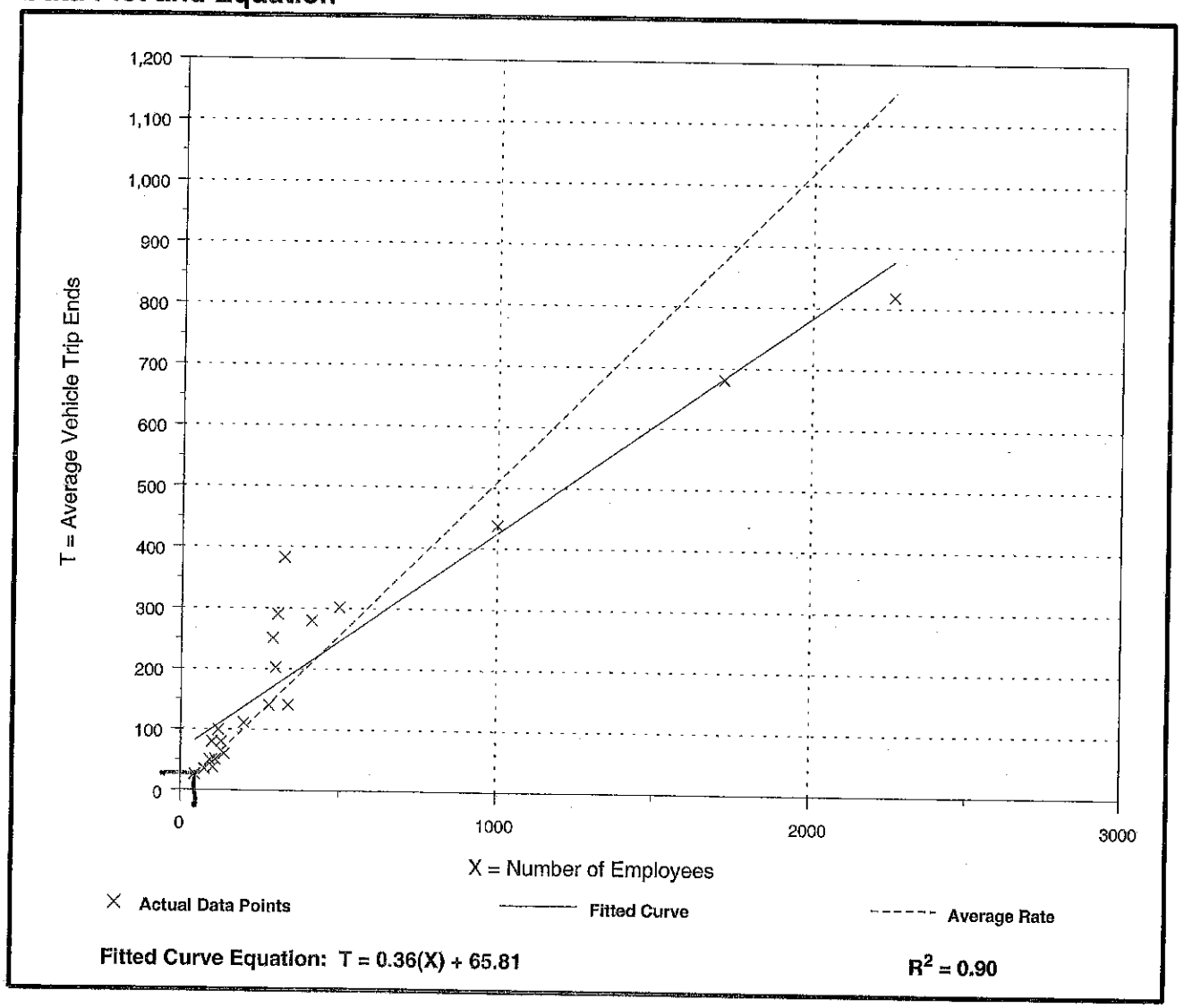
Average Vehicle Trip Ends vs: Employees
On a: Weekday,
P.M. Peak Hour of Generator

Number of Studies: 21
Avg. Number of Employees: 421
Directional Distribution: 29% entering, 71% exiting

Trip Generation per Employee

Average Rate	Range of Rates	Standard Deviation
0.51	0.36 - 1.18	0.75

Data Plot and Equation



Fitted Curve Equation: T = 0.36(X) + 65.81

R^2 = 0.90

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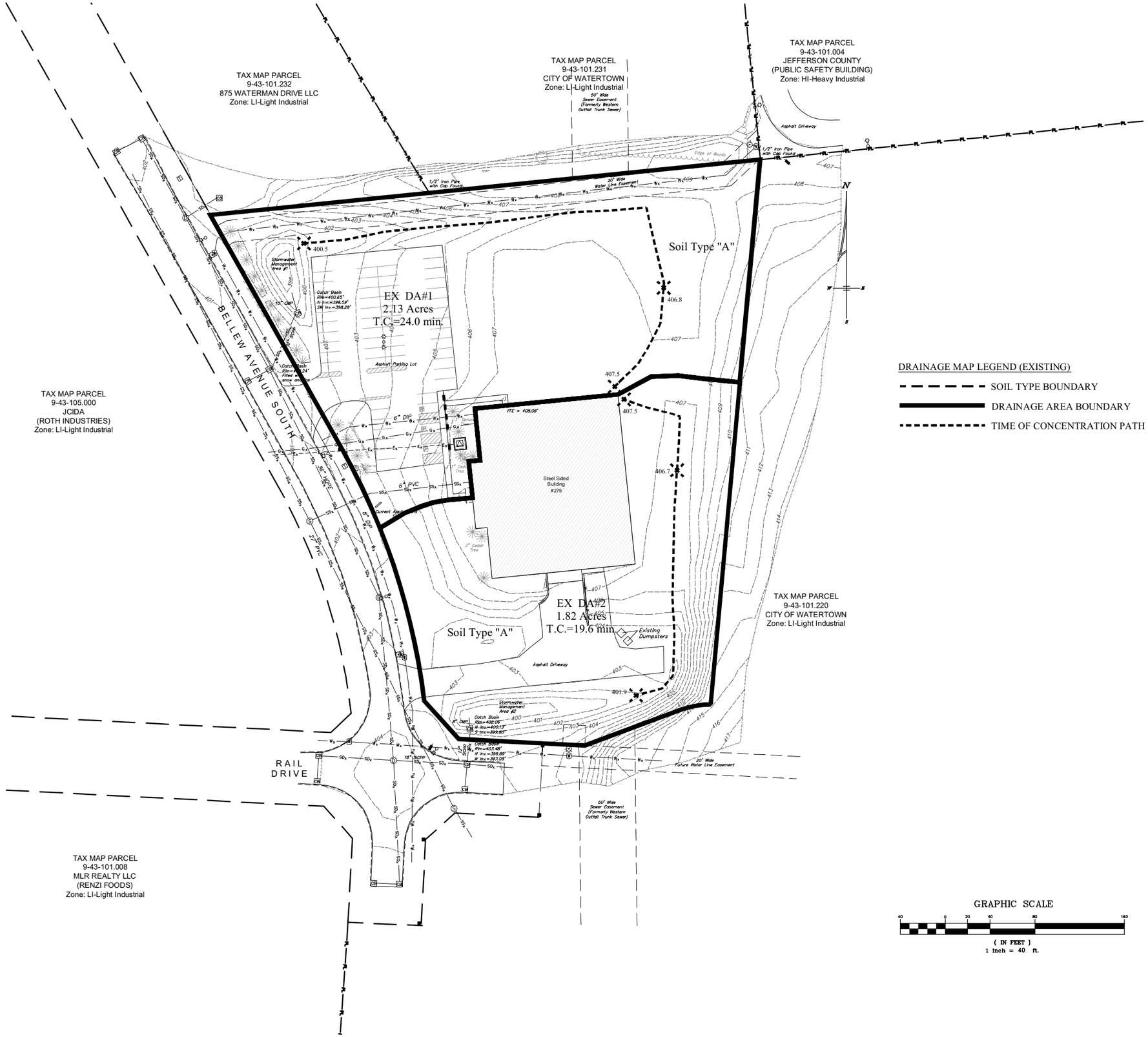

DRAINAGE MAP LEGEND (EXISTING)

- SOIL TYPE BOUNDARY
- DRAINAGE AREA BOUNDARY
- TIME OF CONCENTRATION PATH

LEGEND	EXISTING	PROPOSED
5' CONTOUR	155	155
1' CONTOUR	154	154
PROPERTY LINE	PL	PL
RIGHT OF WAY		
SETBACK		
BUILDING		
ASPHALT PAVEMENT		
EDGE OF GRAVEL		
CURB		
SIDEWALK		
TREE LINE		
FENCE	X X	X X X
WATERLINE	W_x W_x	W W
SANITARY SEWER	SS_x SS_x	SS SS
STORM SEWER	SD_x SD_x	SD SD
UNDERGROUND UTILITIES	UU_x UU_x	UU UU
UNDERGROUND ELECTRIC	E_x E_x	E E
GAS	G_x G_x	G G
COMMUNICATION	CU_x CU_x	C C
SANITARY MANHOLE	S	S
STORM MANHOLE	D	D
CATCH BASIN	CB	CB
COMMUNICATION MANHOLE	J	J
COMMUNICATION JUNCTION BOX	C_x	C_x
TRACER WIRE	TW	TW
FIRE HYDRANT		
WATER VALVE	W	
CURB STOP		
UTILITY POLE		
LIGHT POLE		
BUILDING LIGHT		

GRAPHIC SCALE

40 0 20 40 80 160

(IN FEET)
1 inch = 40 ft.

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STATE OF NEW YORK
MATTHEW REA MORETTA
081071
LICENSED PROFESSIONAL ENGINEER

CURRENT APPLICATIONS ADDITION PROJECT

BELLEW AVENUE SOUTH
CITY OF WATERTOWN
JEFFERSON COUNTY, STATE OF NEW YORK

PROJECT NO:	2015-005
SCALE:	AS NOTED
DRAWN BY:	TFT
CHECKED BY:	MRM
ISSUE DATES:	01/29/2015

EXISTING DRAINAGE AREA MAP

EX1

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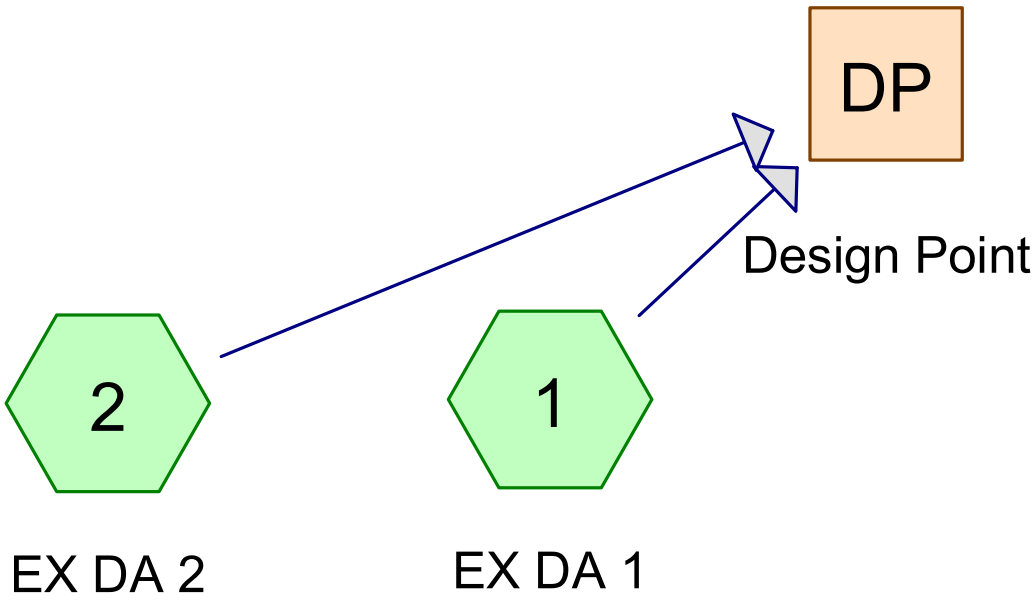
EXISTING DRAINAGE AREA SUMMARY TABLE
CURRENT APPLICATIONS - BUILDING ADDITION

Drainage Area	Surface Description	Soil Type	C	Area (Acre)	Composite C	Composite Area (Acre)	Tc (Min.)
EX DA 1	Meadow, Grass, Non-Grazed	A	20	1.66	20	2.13	24.0
	Paved Roads, Buildings	A	98	0.47	98		
EX DA 2	Meadow, Grass, Non-Grazed	A	20	1.13	20	1.82	19.6
	Paved Roads, Buildings	A	98	0.69	98		
DESIGN POINT DRAINAGE AREA TOTAL						**3.95**	



Subcat Reach Pond Link

Routing Diagram for Current Applications Existing-Rational
Prepared by Aubertine and Currier PLLC, Printed 2/12/2015

Area Listing (all nodes)

Area (acres)	C	Description (subcatchment-numbers)
1.160	0.90	Impervious Area (1, 2)
2.790	0.20	Lawn Area (1, 2)
3.950	**0.41**	**TOTAL AREA**

Soil Listing (all nodes)

Area (acres)	Soil Group	Subcatchment Numbers
0.000	HSG A	
0.000	HSG B	
0.000	HSG C	
0.000	HSG D	
3.950	Other	1, 2
3.950		**TOTAL AREA**

Ground Covers (all nodes)

HSG-A (acres)	HSG-B (acres)	HSG-C (acres)	HSG-D (acres)	Other (acres)	Total (acres)	Ground Cover	Subcatchment Numbers
0.000	0.000	0.000	0.000	1.160	1.160	Impervious Area	1, 2
0.000	0.000	0.000	0.000	2.790	2.790	Lawn Area	1, 2
0.000	**0.000**	**0.000**	**0.000**	**3.950**	**3.950**	**TOTAL AREA**	

Time span=0.00-3.00 hrs, dt=0.01 hrs, 301 points
Runoff by Rational method, Rise/Fall=1.0/1.0 xTc
Reach routing by Sim-Route method - Pond routing by Sim-Route method

Subcatchment 1: EX DA 1 Runoff Area=2.130 ac 0.00% Impervious Runoff Depth>0.12"
Flow Length=483' Tc=24.0 min C=0.35 Runoff=0.09 cfs 0.022 af

Subcatchment 2: EX DA 2 Runoff Area=1.820 ac 0.00% Impervious Runoff Depth>0.17"
Flow Length=323' Tc=19.6 min C=0.47 Runoff=0.11 cfs 0.025 af

Reach DP: Design Point Inflow=0.20 cfs 0.047 af
Outflow=0.20 cfs 0.047 af

Total Runoff Area = 3.950 ac Runoff Volume = 0.047 af Average Runoff Depth = 0.14"
100.00% Pervious = 3.950 ac 0.00% Impervious = 0.000 ac

Summary for Subcatchment 1: EX DA 1

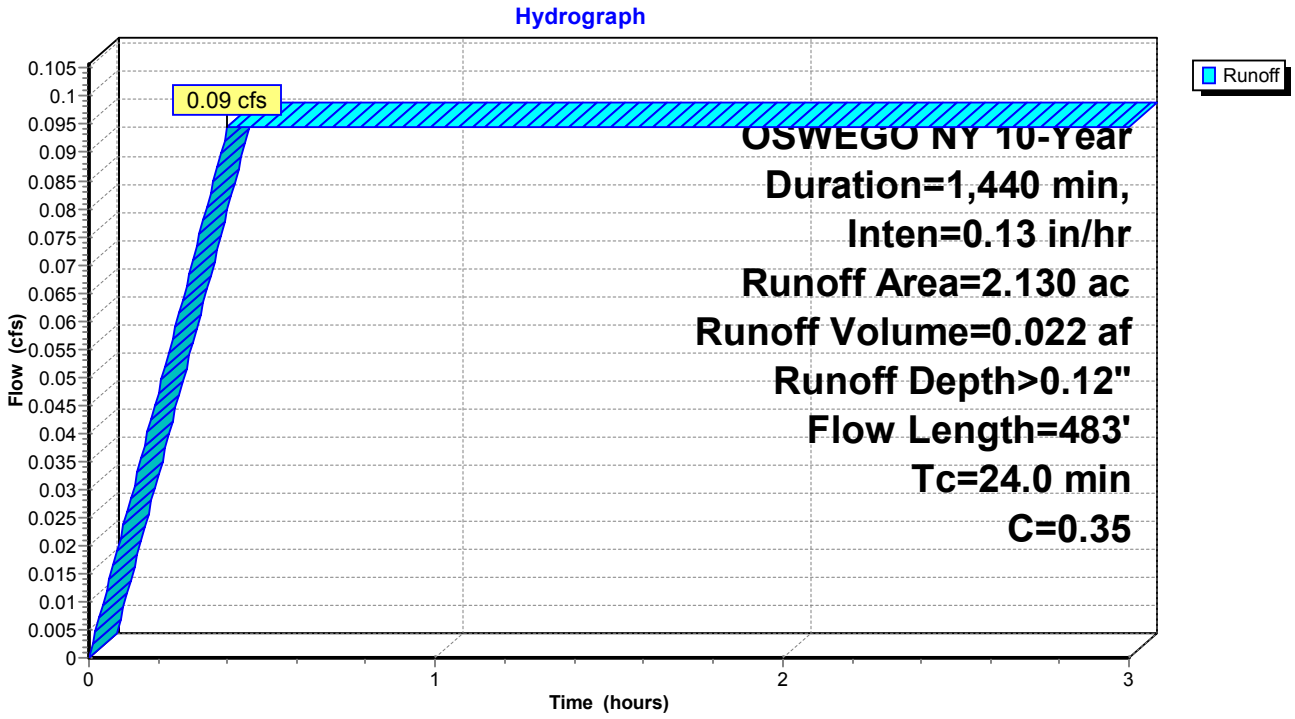
Runoff = 0.09 cfs @ 0.40 hrs, Volume= 0.022 af, Depth> 0.12"

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
OSWEGO NY 10-Year Duration=1,440 min, Inten=0.13 in/hr

Area (ac)	C	Description
0.470	0.90	Impervious Area
1.660	0.20	Lawn Area
2.130	0.35	Weighted Average
2.130		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
16.9	100	0.0070	0.10		**Sheet Flow, Sheet Flow** Grass: Short n= 0.150 P2= 2.50"
7.1	383	0.0164	0.90		**Shallow Concentrated Flow, Shallow Concentated** Short Grass Pasture Kv= 7.0 fps
24.0	483	Total			

Subcatchment 1: EX DA 1



Summary for Subcatchment 2: EX DA 2

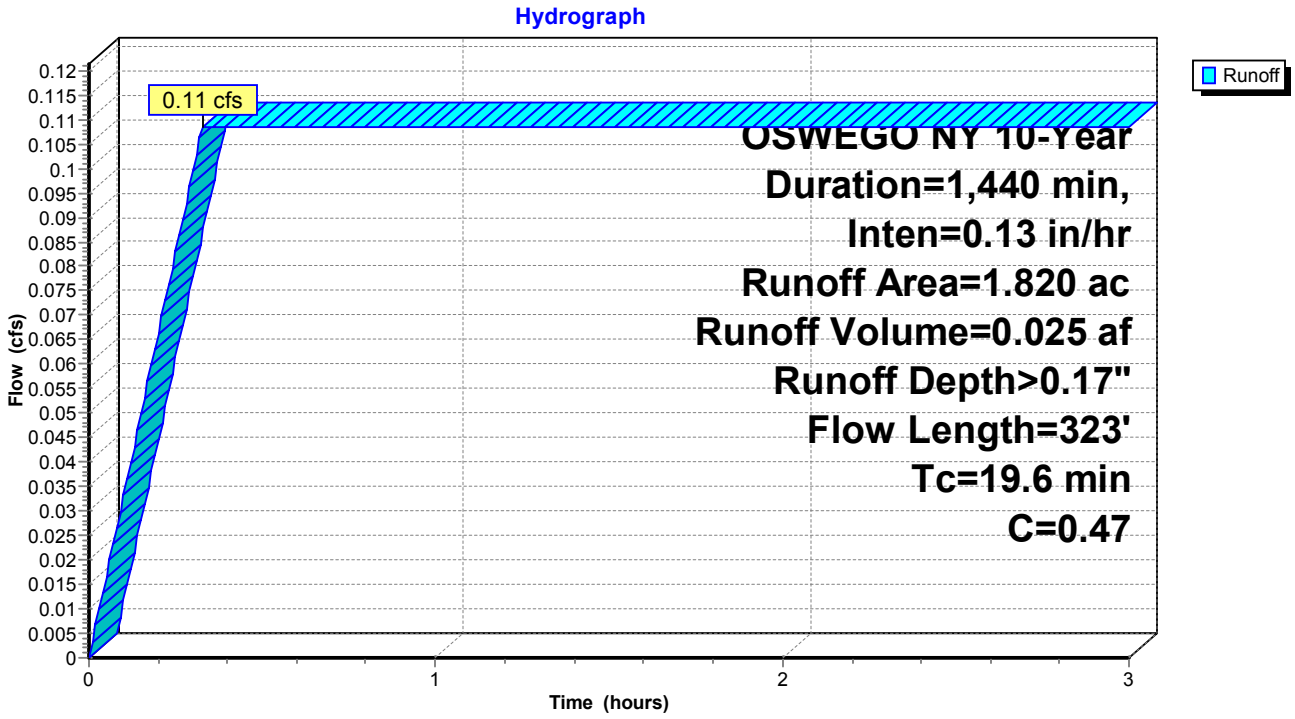
Runoff = 0.11 cfs @ 0.33 hrs, Volume= 0.025 af, Depth> 0.17"

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
OSWEGO NY 10-Year Duration=1,440 min, Inten=0.13 in/hr

Area (ac)	C	Description
1.130	0.20	Lawn Area
0.690	0.90	Impervious Area
1.820	0.47	Weighted Average
1.820		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
16.0	100	0.0080	0.10		**Sheet Flow, Lawn Area** Grass: Short n= 0.150 P2= 2.50"
3.6	223	0.0215	1.03		**Shallow Concentrated Flow, Shallow Concentrate** Short Grass Pasture Kv= 7.0 fps
19.6	323	Total			

Subcatchment 2: EX DA 2



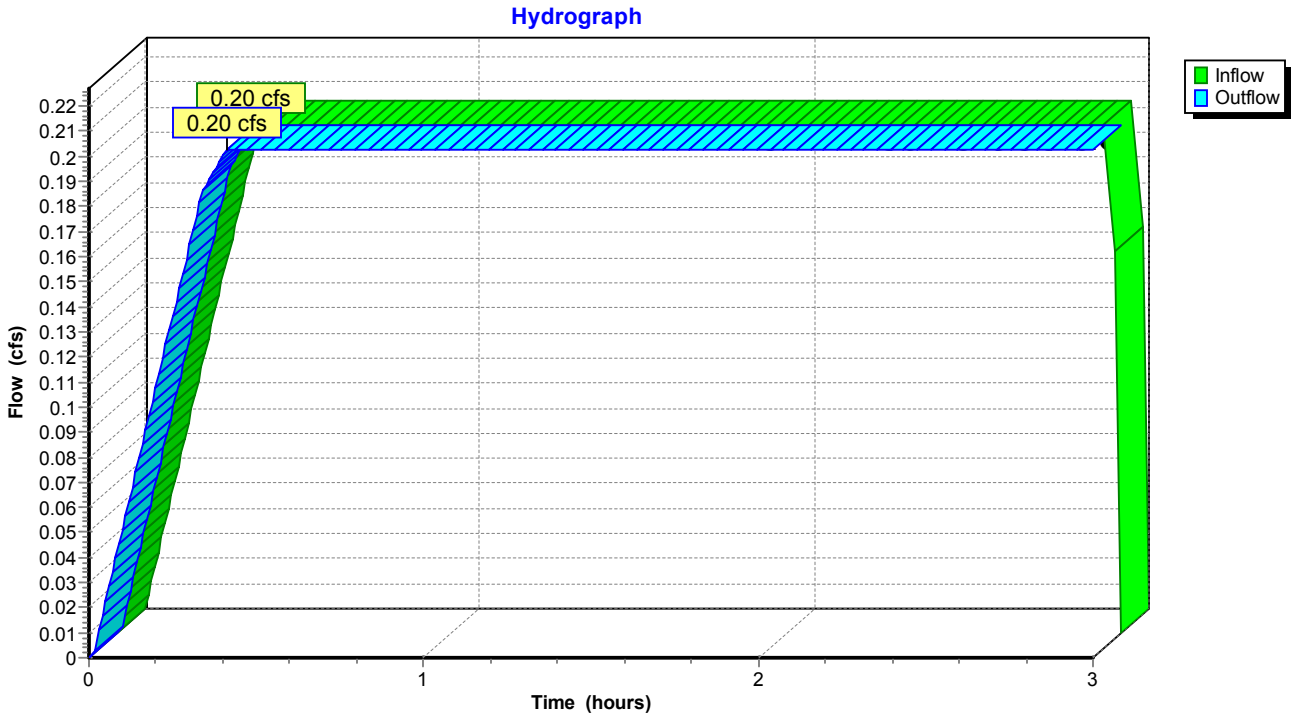
Summary for Reach DP: Design Point

[40] Hint: Not Described (Outflow=Inflow)

Inflow Area = 3.950 ac, 0.00% Impervious, Inflow Depth > 0.14" for 10-Year event
Inflow = 0.20 cfs @ 0.40 hrs, Volume= 0.047 af
Outflow = 0.20 cfs @ 0.41 hrs, Volume= 0.047 af, Atten= 0%, Lag= 0.6 min

Routing by Sim-Route method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs

Reach DP: Design Point



Time span=0.00-3.00 hrs, dt=0.01 hrs, 301 points
Runoff by Rational method, Rise/Fall=1.0/1.0 xTc
Reach routing by Sim-Route method - Pond routing by Sim-Route method

Subcatchment 1: EX DA 1 Runoff Area=2.130 ac 0.00% Impervious Runoff Depth>0.15"
Flow Length=483' Tc=24.0 min C=0.35 Runoff=0.11 cfs 0.026 af

Subcatchment 2: EX DA 2 Runoff Area=1.820 ac 0.00% Impervious Runoff Depth>0.20"
Flow Length=323' Tc=19.6 min C=0.47 Runoff=0.13 cfs 0.030 af

Reach DP: Design Point Inflow=0.24 cfs 0.056 af
Outflow=0.24 cfs 0.056 af

Total Runoff Area = 3.950 ac Runoff Volume = 0.056 af Average Runoff Depth = 0.17"
100.00% Pervious = 3.950 ac 0.00% Impervious = 0.000 ac

Summary for Subcatchment 1: EX DA 1

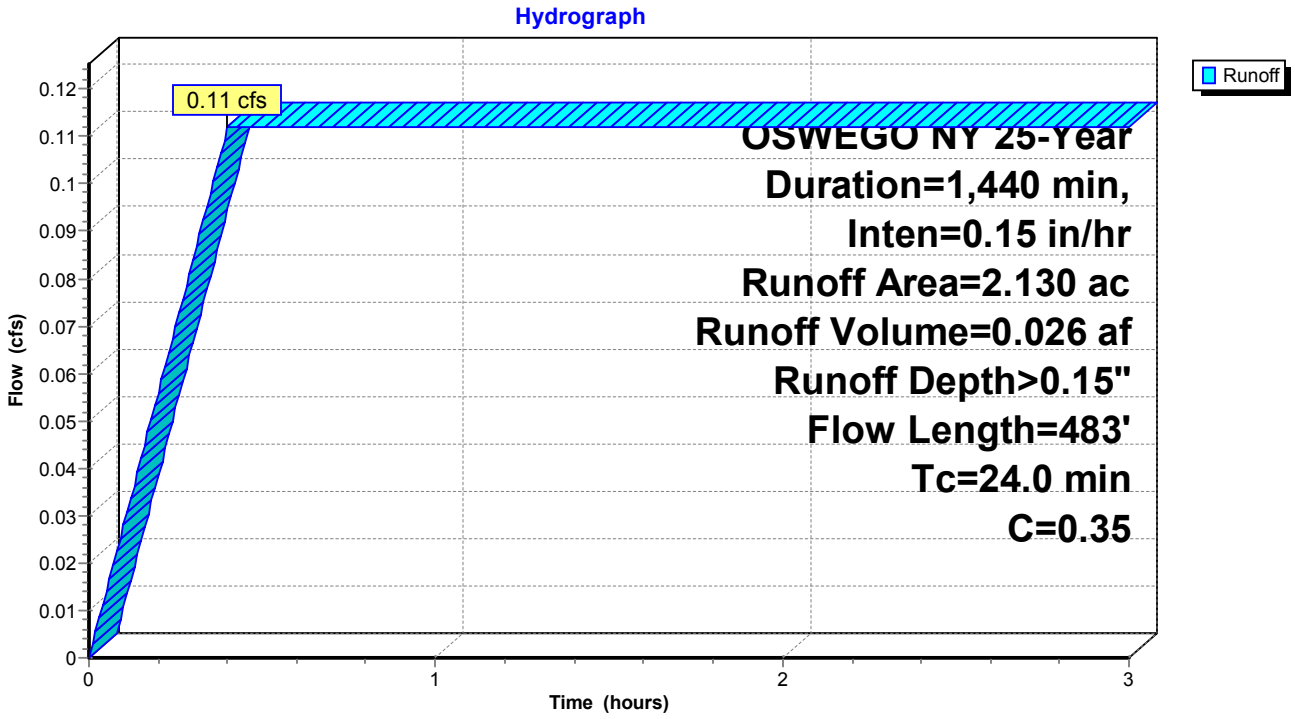
Runoff = 0.11 cfs @ 0.40 hrs, Volume= 0.026 af, Depth> 0.15"

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
OSWEGO NY 25-Year Duration=1,440 min, Inten=0.15 in/hr

Area (ac)	C	Description
0.470	0.90	Impervious Area
1.660	0.20	Lawn Area
2.130	0.35	Weighted Average
2.130		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
16.9	100	0.0070	0.10		**Sheet Flow, Sheet Flow** Grass: Short n= 0.150 P2= 2.50"
7.1	383	0.0164	0.90		**Shallow Concentrated Flow, Shallow Concentated** Short Grass Pasture Kv= 7.0 fps
24.0	483	Total			

Subcatchment 1: EX DA 1



Summary for Subcatchment 2: EX DA 2

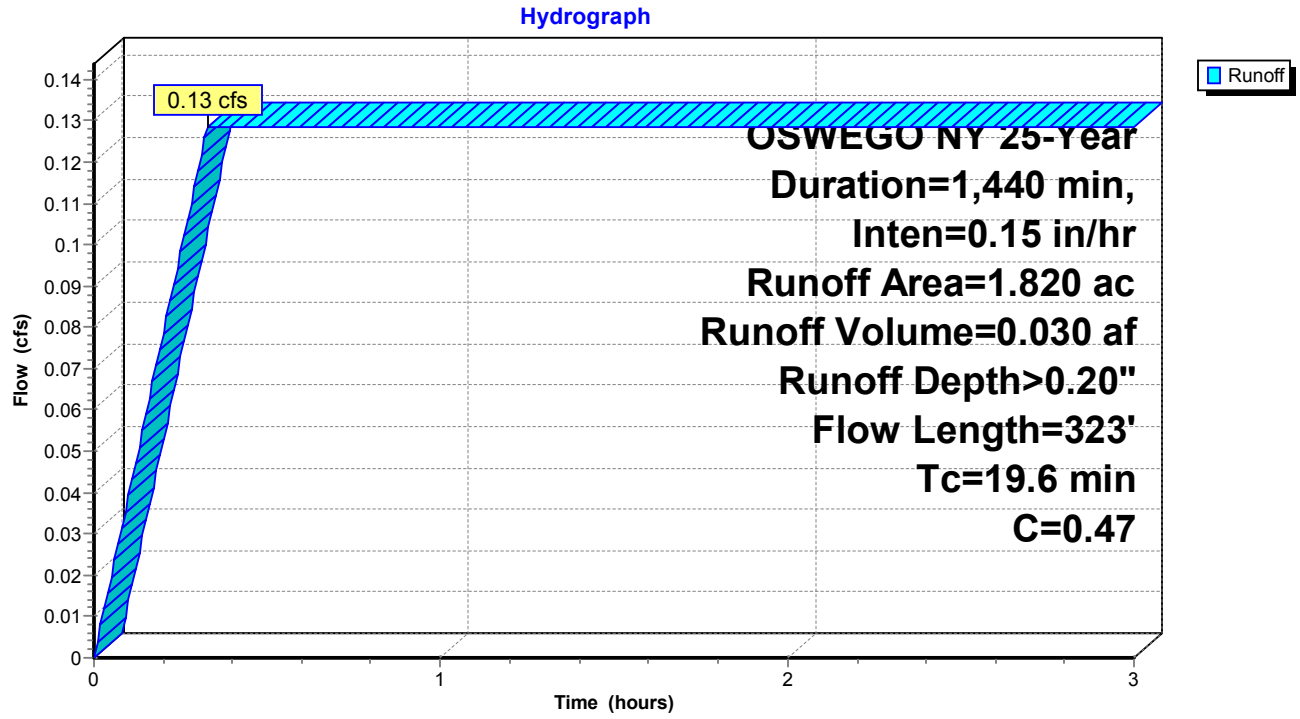
Runoff = 0.13 cfs @ 0.33 hrs, Volume= 0.030 af, Depth> 0.20"

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
OSWEGO NY 25-Year Duration=1,440 min, Inten=0.15 in/hr

Area (ac)	C	Description
1.130	0.20	Lawn Area
0.690	0.90	Impervious Area
1.820	0.47	Weighted Average
1.820		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
16.0	100	0.0080	0.10		**Sheet Flow, Lawn Area** Grass: Short n= 0.150 P2= 2.50"
3.6	223	0.0215	1.03		**Shallow Concentrated Flow, Shallow Concentrate** Short Grass Pasture Kv= 7.0 fps
19.6	323	Total			

Subcatchment 2: EX DA 2



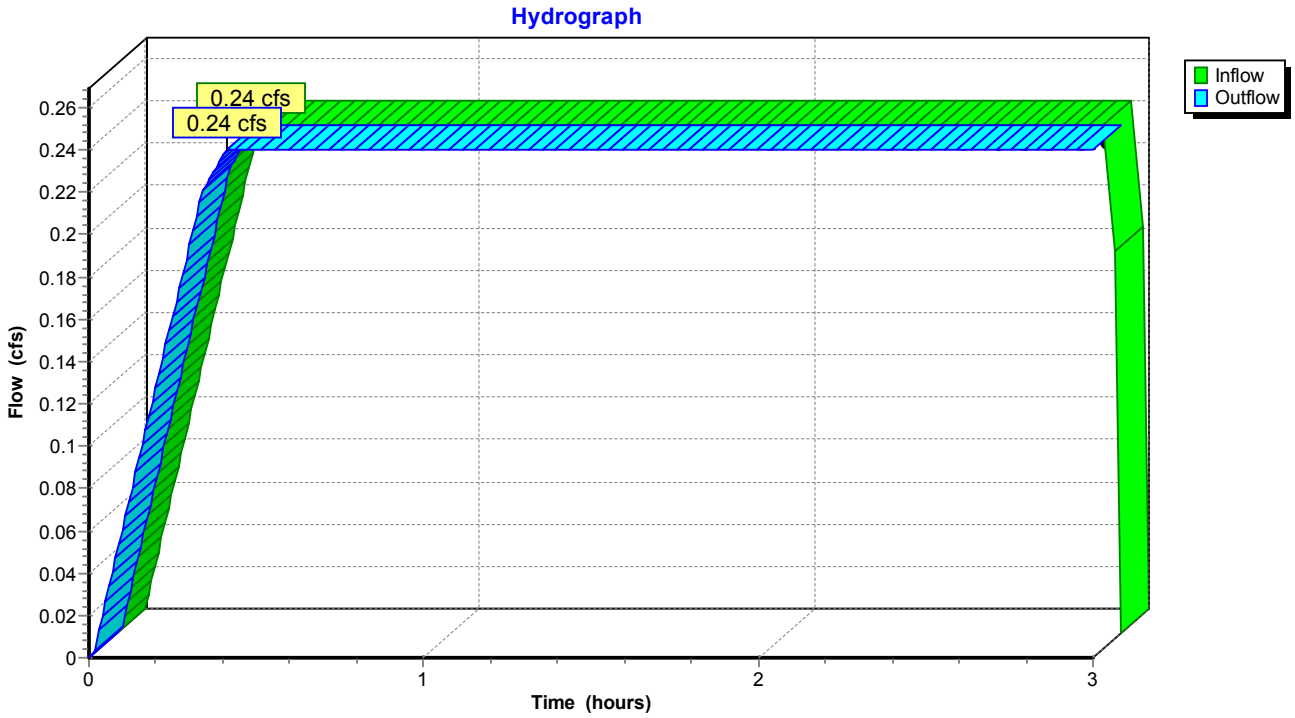
Summary for Reach DP: Design Point

[40] Hint: Not Described (Outflow=Inflow)

Inflow Area = 3.950 ac, 0.00% Impervious, Inflow Depth > 0.17" for 25-Year event
Inflow = 0.24 cfs @ 0.40 hrs, Volume= 0.056 af
Outflow = 0.24 cfs @ 0.41 hrs, Volume= 0.056 af, Atten= 0%, Lag= 0.6 min

Routing by Sim-Route method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs

Reach DP: Design Point



Time span=0.00-3.00 hrs, dt=0.01 hrs, 301 points
Runoff by Rational method, Rise/Fall=1.0/1.0 xTc
Reach routing by Sim-Route method - Pond routing by Sim-Route method

Subcatchment 1: EX DA 1 Runoff Area=2.130 ac 0.00% Impervious Runoff Depth>0.15"
Flow Length=483' Tc=24.0 min C=0.35 Runoff=0.12 cfs 0.027 af

Subcatchment 2: EX DA 2 Runoff Area=1.820 ac 0.00% Impervious Runoff Depth>0.21"
Flow Length=323' Tc=19.6 min C=0.47 Runoff=0.14 cfs 0.032 af

Reach DP: Design Point Inflow=0.25 cfs 0.059 af
Outflow=0.25 cfs 0.059 af

Total Runoff Area = 3.950 ac Runoff Volume = 0.059 af Average Runoff Depth = 0.18"
100.00% Pervious = 3.950 ac 0.00% Impervious = 0.000 ac

Summary for Subcatchment 1: EX DA 1

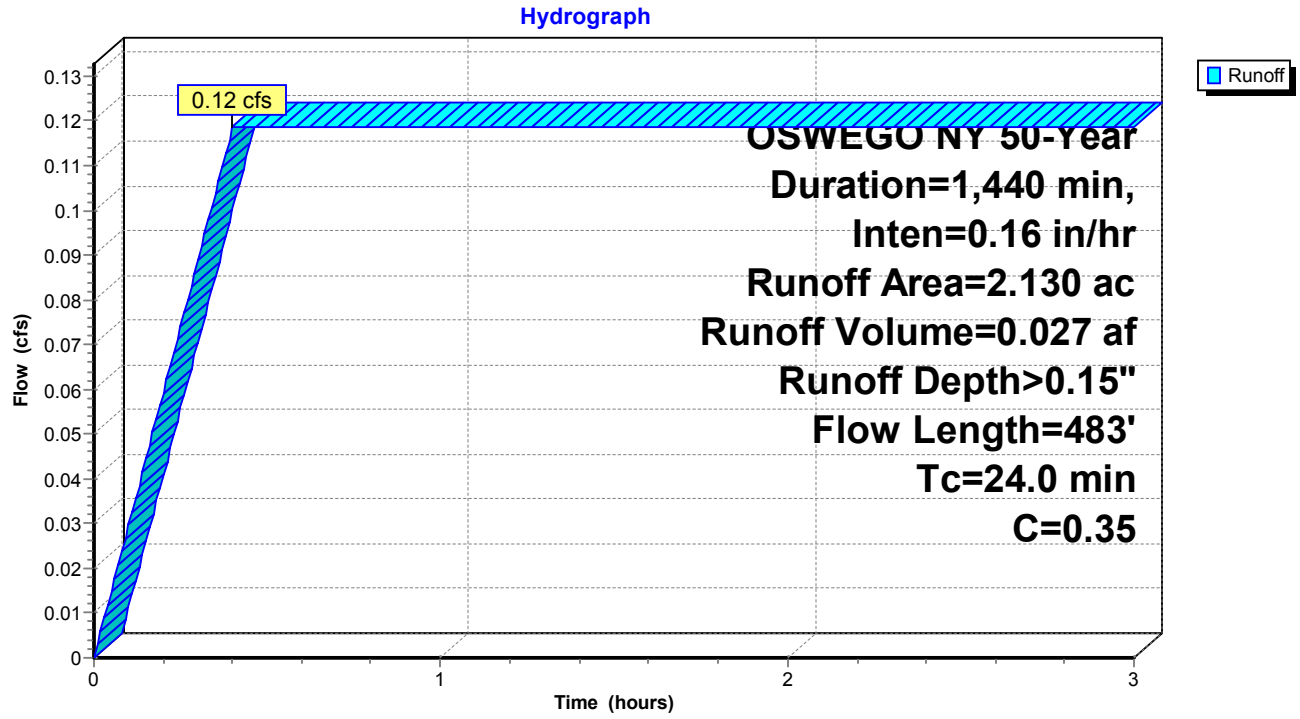
Runoff = 0.12 cfs @ 0.40 hrs, Volume= 0.027 af, Depth> 0.15"

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
OSWEGO NY 50-Year Duration=1,440 min, Inten=0.16 in/hr

Area (ac)	C	Description
0.470	0.90	Impervious Area
1.660	0.20	Lawn Area
2.130	0.35	Weighted Average
2.130		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
16.9	100	0.0070	0.10		**Sheet Flow, Sheet Flow** Grass: Short n= 0.150 P2= 2.50"
7.1	383	0.0164	0.90		**Shallow Concentrated Flow, Shallow Concentated** Short Grass Pasture Kv= 7.0 fps
24.0	483	Total			

Subcatchment 1: EX DA 1



Summary for Subcatchment 2: EX DA 2

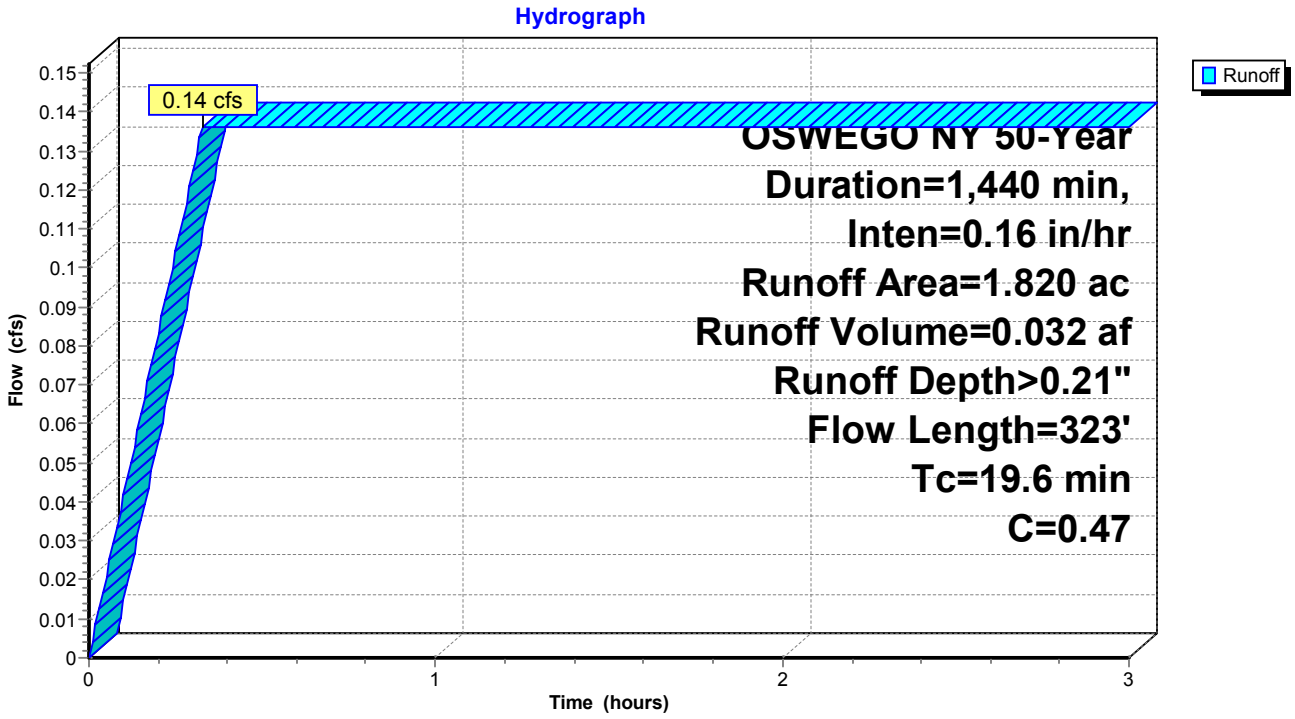
Runoff = 0.14 cfs @ 0.33 hrs, Volume= 0.032 af, Depth> 0.21"

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
OSWEGO NY 50-Year Duration=1,440 min, Inten=0.16 in/hr

Area (ac)	C	Description
1.130	0.20	Lawn Area
0.690	0.90	Impervious Area
1.820	0.47	Weighted Average
1.820		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
16.0	100	0.0080	0.10		**Sheet Flow, Lawn Area** Grass: Short n= 0.150 P2= 2.50"
3.6	223	0.0215	1.03		**Shallow Concentrated Flow, Shallow Concentrate** Short Grass Pasture Kv= 7.0 fps
19.6	323	Total			

Subcatchment 2: EX DA 2



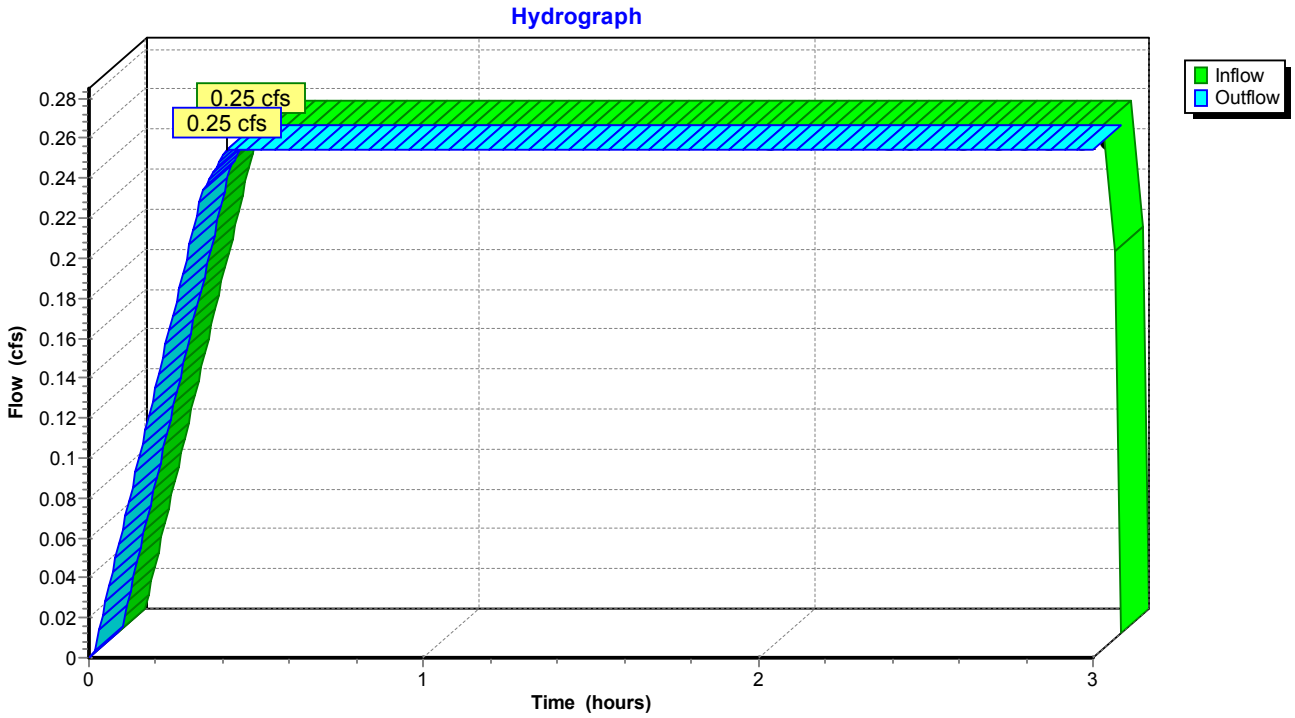
Summary for Reach DP: Design Point

[40] Hint: Not Described (Outflow=Inflow)

Inflow Area = 3.950 ac, 0.00% Impervious, Inflow Depth > 0.18" for 50-Year event
Inflow = 0.25 cfs @ 0.40 hrs, Volume= 0.059 af
Outflow = 0.25 cfs @ 0.41 hrs, Volume= 0.059 af, Atten= 0%, Lag= 0.6 min

Routing by Sim-Route method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs

Reach DP: Design Point



Time span=0.00-3.00 hrs, dt=0.01 hrs, 301 points
Runoff by Rational method, Rise/Fall=1.0/1.0 xTc
Reach routing by Sim-Route method - Pond routing by Sim-Route method

Subcatchment 1: EX DA 1 Runoff Area=2.130 ac 0.00% Impervious Runoff Depth>0.18"
Flow Length=483' Tc=24.0 min C=0.35 Runoff=0.14 cfs 0.032 af

Subcatchment 2: EX DA 2 Runoff Area=1.820 ac 0.00% Impervious Runoff Depth>0.24"
Flow Length=323' Tc=19.6 min C=0.47 Runoff=0.16 cfs 0.037 af

Reach DP: Design Point Inflow=0.29 cfs 0.068 af
Outflow=0.29 cfs 0.068 af

Total Runoff Area = 3.950 ac Runoff Volume = 0.068 af Average Runoff Depth = 0.21"
100.00% Pervious = 3.950 ac 0.00% Impervious = 0.000 ac

Summary for Subcatchment 1: EX DA 1

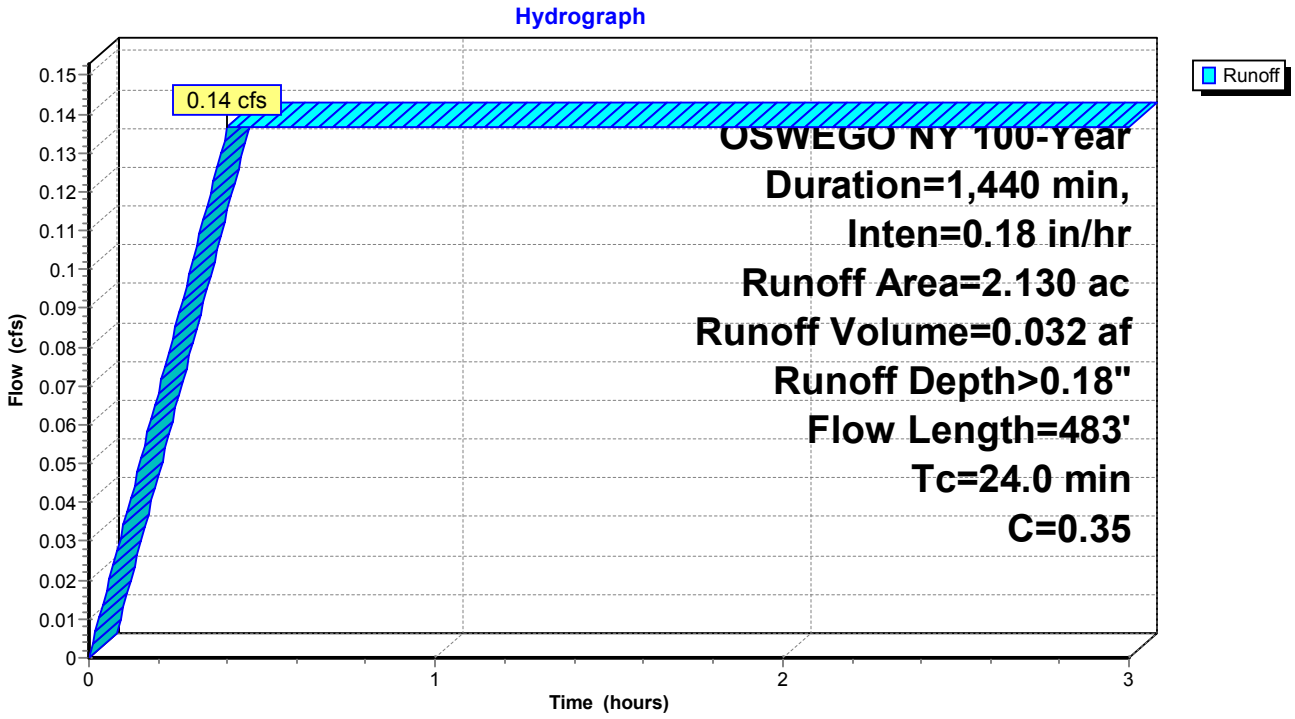
Runoff = 0.14 cfs @ 0.40 hrs, Volume= 0.032 af, Depth> 0.18"

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
OSWEGO NY 100-Year Duration=1,440 min, Inten=0.18 in/hr

Area (ac)	C	Description
0.470	0.90	Impervious Area
1.660	0.20	Lawn Area
2.130	0.35	Weighted Average
2.130		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
16.9	100	0.0070	0.10		**Sheet Flow, Sheet Flow** Grass: Short n= 0.150 P2= 2.50"
7.1	383	0.0164	0.90		**Shallow Concentrated Flow, Shallow Concentated** Short Grass Pasture Kv= 7.0 fps
24.0	483	Total			

Subcatchment 1: EX DA 1



Summary for Subcatchment 2: EX DA 2

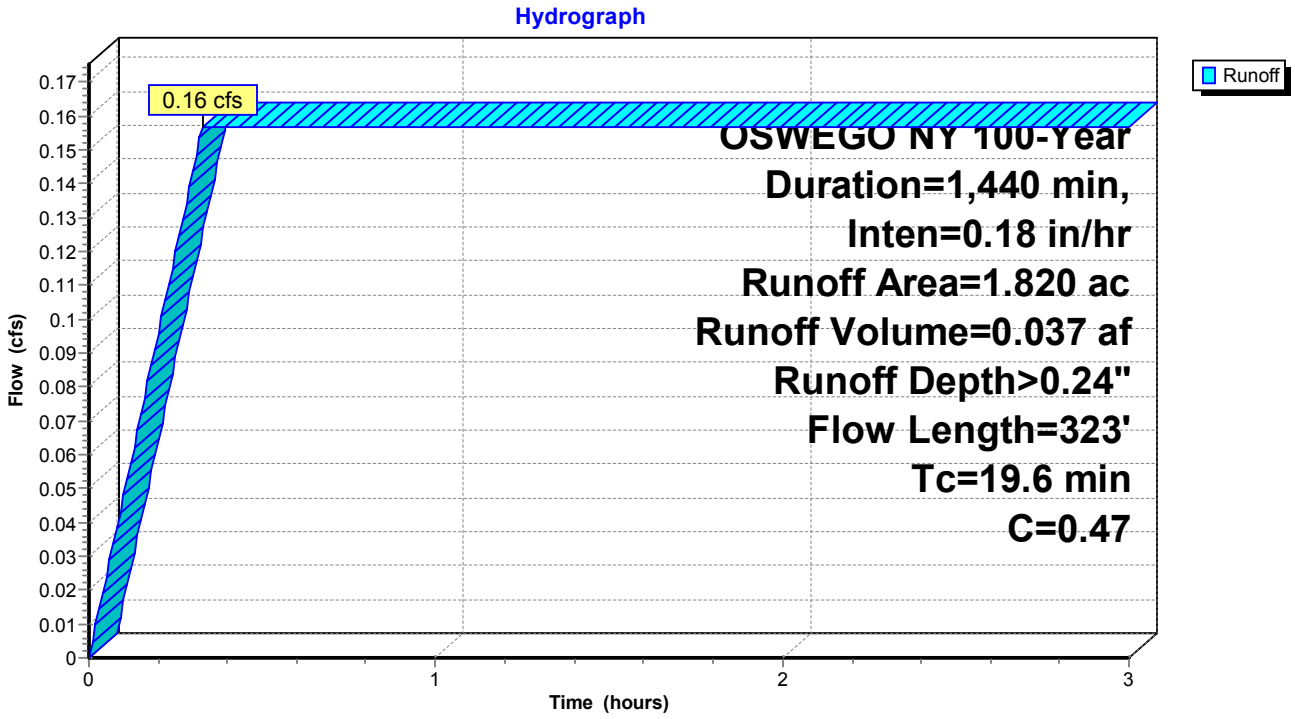
Runoff = 0.16 cfs @ 0.33 hrs, Volume= 0.037 af, Depth> 0.24"

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
OSWEGO NY 100-Year Duration=1,440 min, Inten=0.18 in/hr

Area (ac)	C	Description
1.130	0.20	Lawn Area
0.690	0.90	Impervious Area
1.820	0.47	Weighted Average
1.820		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
16.0	100	0.0080	0.10		**Sheet Flow, Lawn Area** Grass: Short n= 0.150 P2= 2.50"
3.6	223	0.0215	1.03		**Shallow Concentrated Flow, Shallow Concentrate** Short Grass Pasture Kv= 7.0 fps
19.6	323	Total			

Subcatchment 2: EX DA 2



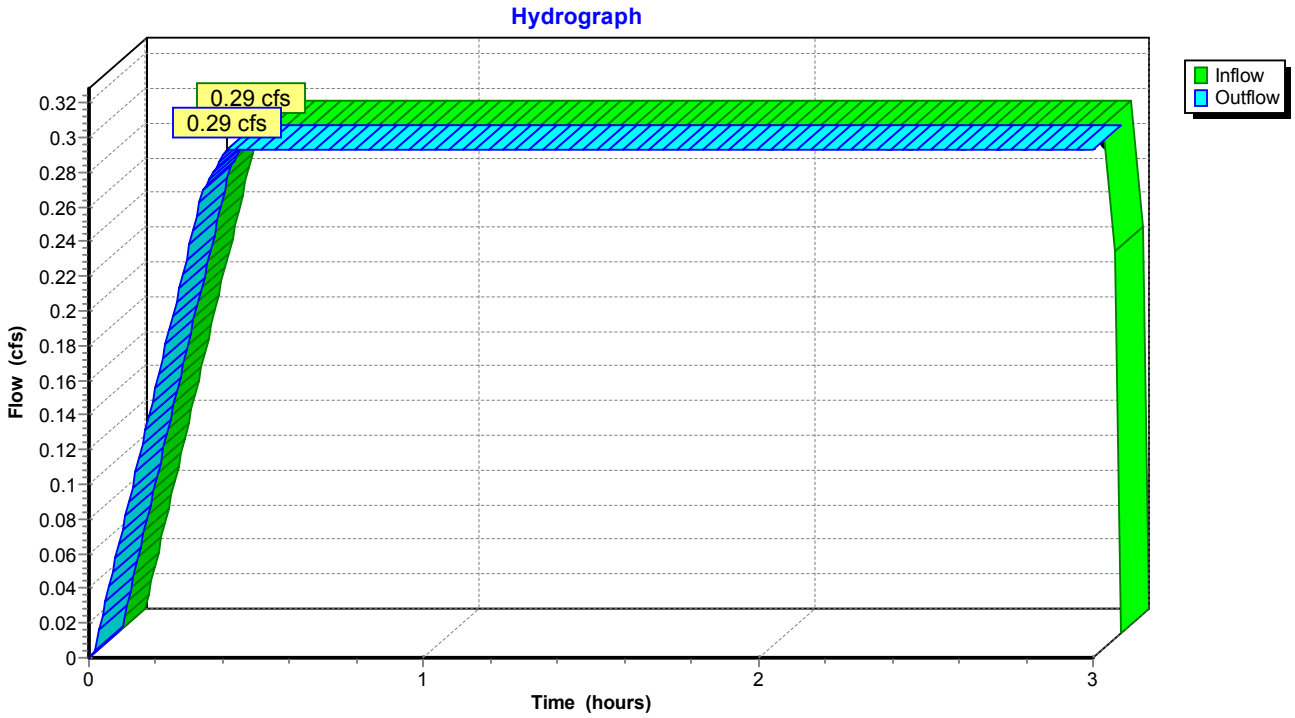
Summary for Reach DP: Design Point

[40] Hint: Not Described (Outflow=Inflow)

Inflow Area = 3.950 ac, 0.00% Impervious, Inflow Depth > 0.21" for 100-Year event
Inflow = 0.29 cfs @ 0.40 hrs, Volume= 0.068 af
Outflow = 0.29 cfs @ 0.41 hrs, Volume= 0.068 af, Atten= 0%, Lag= 0.6 min

Routing by Sim-Route method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs

Reach DP: Design Point



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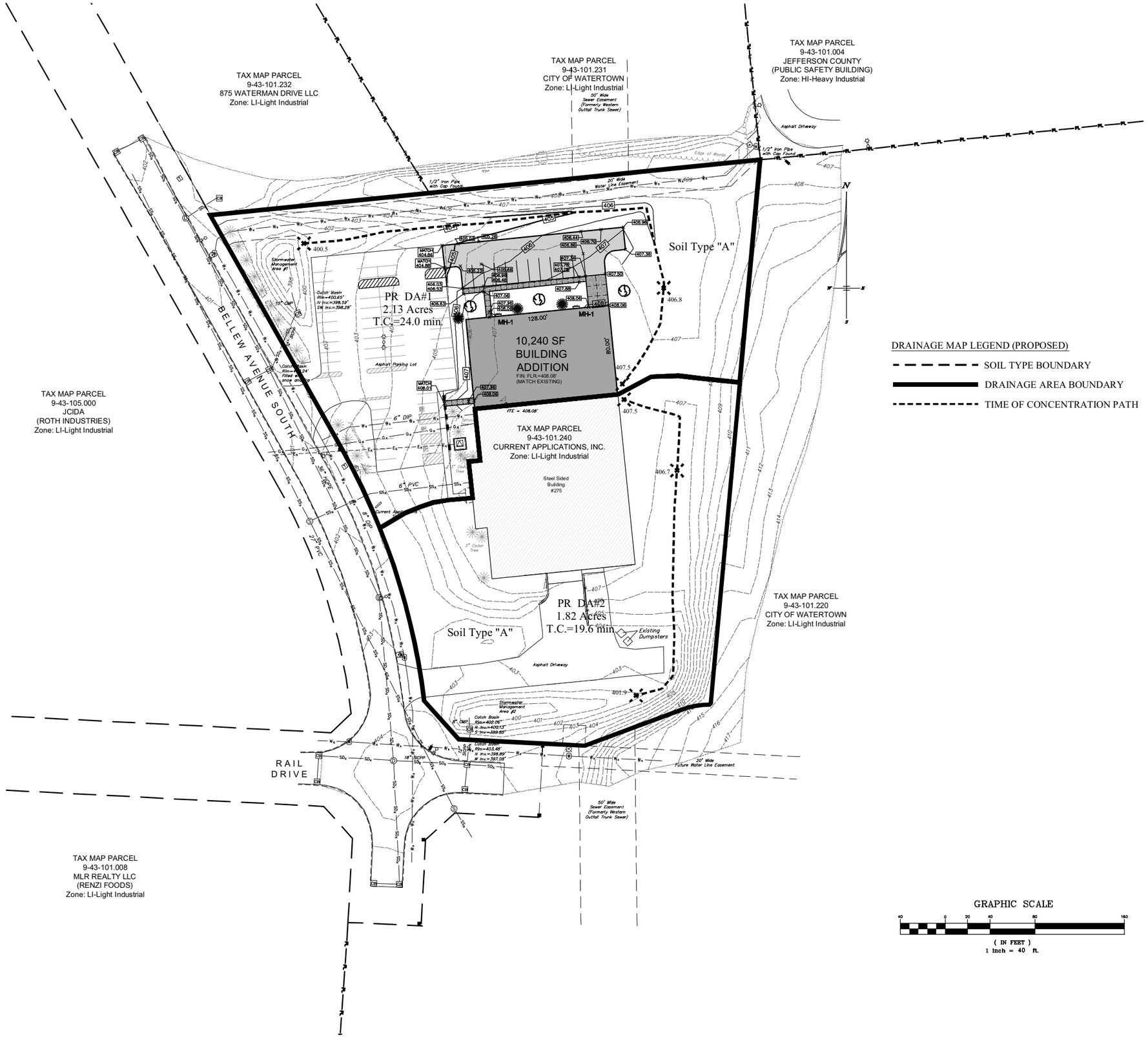

DRAINAGE MAP LEGEND (PROPOSED)

- SOIL TYPE BOUNDARY
- DRAINAGE AREA BOUNDARY
- TIME OF CONCENTRATION PATH

GRAPHIC SCALE

40 0 20 40 80 160

(IN FEET)
1 inch = 40 ft.

LEGEND	EXISTING	PROPOSED
5' CONTOUR	155	155
1' CONTOUR	154	154
PROPERTY LINE	PL PL	PL PL
RIGHT OF WAY		
SETBACK		
BUILDING		
ASPHALT PAVEMENT		
EDGE OF GRAVEL		
CURB		
SIDEWALK		
TREE LINE		
FENCE	X X	X X X
WATERLINE	W_X W_X	W W
SANITARY SEWER	SS_X SS_X	SS SS
STORM SEWER	SD_X SD_X	SD SD
UNDERGROUND UTILITIES	UU_X UU_X	UU UU
UNDERGROUND ELECTRIC	E_X E_X	E E
GAS	G_X G_X	G G
COMMUNICATION	CU_X CU_X	C C
SANITARY MANHOLE	S	S
STORM MANHOLE	D	D
CATCH BASIN	CB	CB
COMMUNICATION MANHOLE	J	J
COMMUNICATION JUNCTION BOX	C_C	C_C
TRACER WIRE	TW	TW
FIRE HYDRANT		
WATER VALVE	W	
CURB STOP		
UTILITY POLE		
LIGHT POLE		
BUILDING LIGHT		

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STATE OF NEW YORK
MATTHEW REA MURPHY
081071
LICENSED PROFESSIONAL ENGINEER

CURRENT APPLICATIONS ADDITION PROJECT

BELLEW AVENUE SOUTH
CITY OF WATERTOWN
JEFFERSON COUNTY, STATE OF NEW YORK

PROJECT NO:	2015-005
SCALE:	AS NOTED
DRAWN BY:	TFT
CHECKED BY:	MRM
ISSUE DATES:	01/29/2015

PROPOSED
DRAINAGE AREA MAP

PR1

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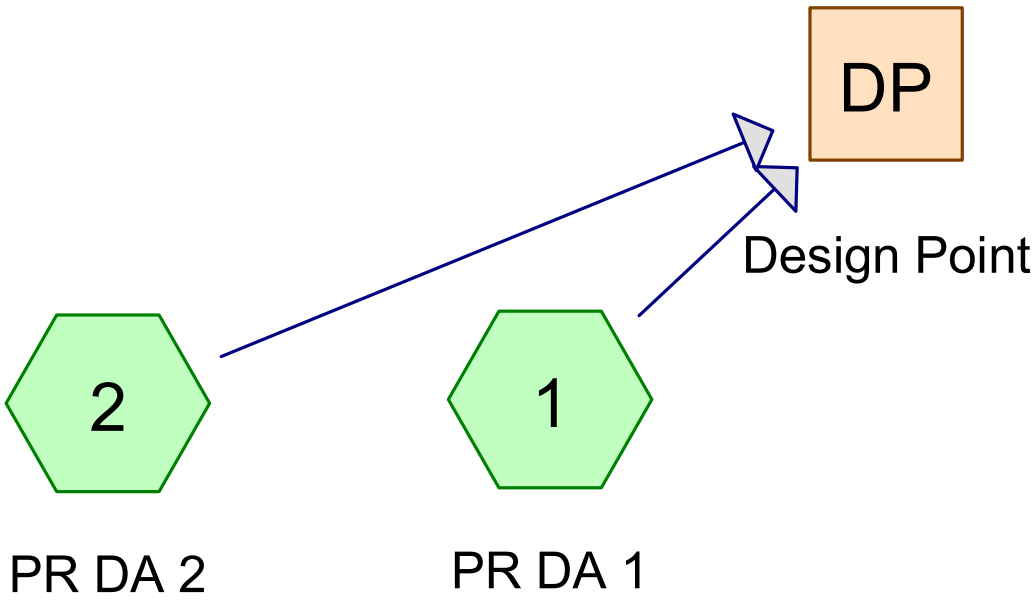
PROPOSED DRAINAGE AREA SUMMARY TABLE CURRENT APPLICATIONS - BUILDING ADDITION							
Drainage Area	Surface Description	Soil Type	C	Area (Acre)	Composite C	Composite Area (Acre)	Tc (Min.)
PR DA 1	Meadow, Grass, Non-Grazed	A	20	1.26	20	2.13	24.0
	Paved Roads, Buildings	A	98	0.87	98		
PR DA 2	Meadow, Grass, Non-Grazed	A	20	1.13	20	1.82	19.6
	Paved Roads, Buildings	A	98	0.69	98		
DESIGN POINT DRAINAGE AREA TOTAL						**3.95**	



Subcat Reach Pond Link

Routing Diagram for Current Applications Proposed-Rational
Prepared by Aubertine and Currier PLLC, Printed 2/12/2015

Area Listing (all nodes)

Area (acres)	C	Description (subcatchment-numbers)
1.560	0.90	Impervious Area (1, 2)
2.390	0.20	Lawn Area (1, 2)
3.950	**0.48**	**TOTAL AREA**

Soil Listing (all nodes)

Area (acres)	Soil Group	Subcatchment Numbers
0.000	HSG A	
0.000	HSG B	
0.000	HSG C	
0.000	HSG D	
3.950	Other	1, 2
3.950		**TOTAL AREA**

Ground Covers (all nodes)

HSG-A (acres)	HSG-B (acres)	HSG-C (acres)	HSG-D (acres)	Other (acres)	Total (acres)	Ground Cover	Subcatchment Numbers
0.000	0.000	0.000	0.000	1.560	1.560	Impervious Area	1, 2
0.000	0.000	0.000	0.000	2.390	2.390	Lawn Area	1, 2
0.000	**0.000**	**0.000**	**0.000**	**3.950**	**3.950**	**TOTAL AREA**	

Time span=0.00-3.00 hrs, dt=0.01 hrs, 301 points
Runoff by Rational method, Rise/Fall=1.0/1.0 xTc
Reach routing by Sim-Route method - Pond routing by Sim-Route method

Subcatchment 1: PR DA 1 Runoff Area=2.130 ac 0.00% Impervious Runoff Depth>0.17"
Flow Length=483' Tc=24.0 min C=0.49 Runoff=0.13 cfs 0.031 af

Subcatchment 2: PR DA 2 Runoff Area=1.820 ac 0.00% Impervious Runoff Depth>0.17"
Flow Length=323' Tc=19.6 min C=0.47 Runoff=0.11 cfs 0.025 af

Reach DP: Design Point Inflow=0.24 cfs 0.056 af
Outflow=0.24 cfs 0.056 af

Total Runoff Area = 3.950 ac Runoff Volume = 0.056 af Average Runoff Depth = 0.17"
100.00% Pervious = 3.950 ac 0.00% Impervious = 0.000 ac

Summary for Subcatchment 1: PR DA 1

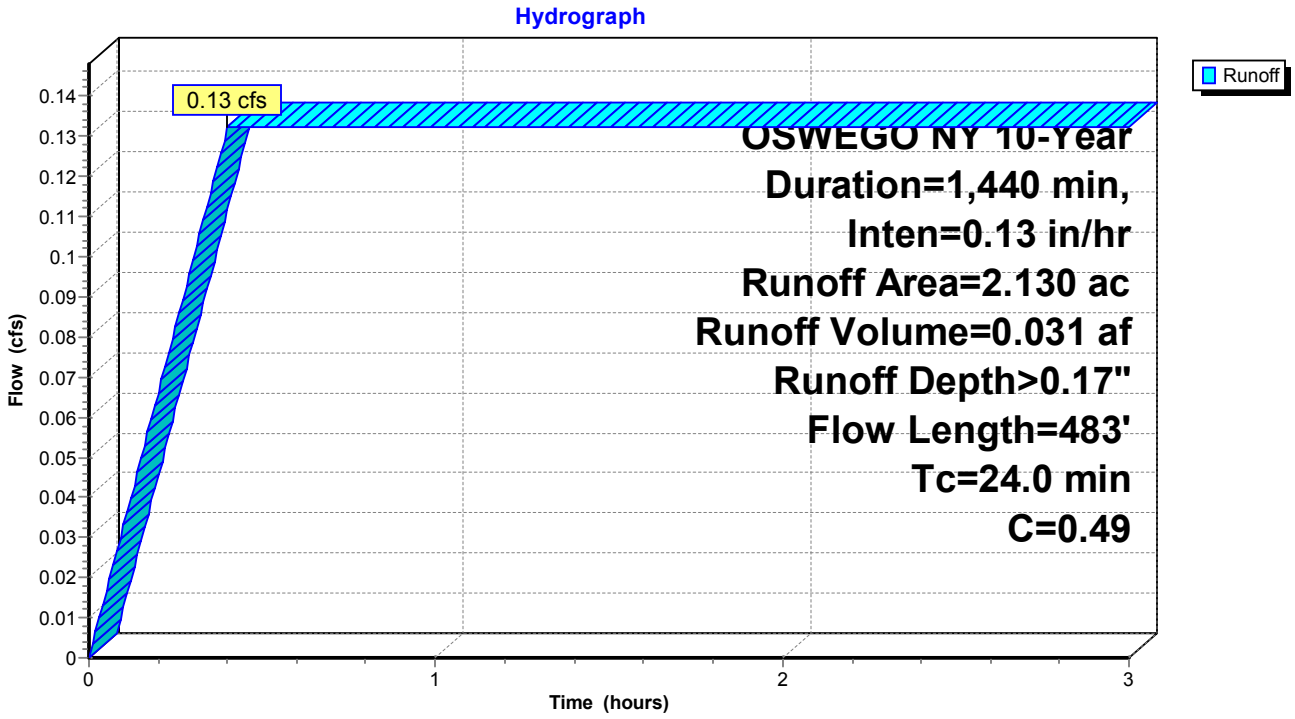
Runoff = 0.13 cfs @ 0.40 hrs, Volume= 0.031 af, Depth> 0.17"

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
OSWEGO NY 10-Year Duration=1,440 min, Inten=0.13 in/hr

Area (ac)	C	Description
0.870	0.90	Impervious Area
1.260	0.20	Lawn Area
2.130	0.49	Weighted Average
2.130		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
16.9	100	0.0070	0.10		**Sheet Flow, Sheet Flow** Grass: Short n= 0.150 P2= 2.50"
7.1	383	0.0164	0.90		**Shallow Concentrated Flow, Shallow Concentated** Short Grass Pasture Kv= 7.0 fps
24.0	483	Total			

Subcatchment 1: PR DA 1



Summary for Subcatchment 2: PR DA 2

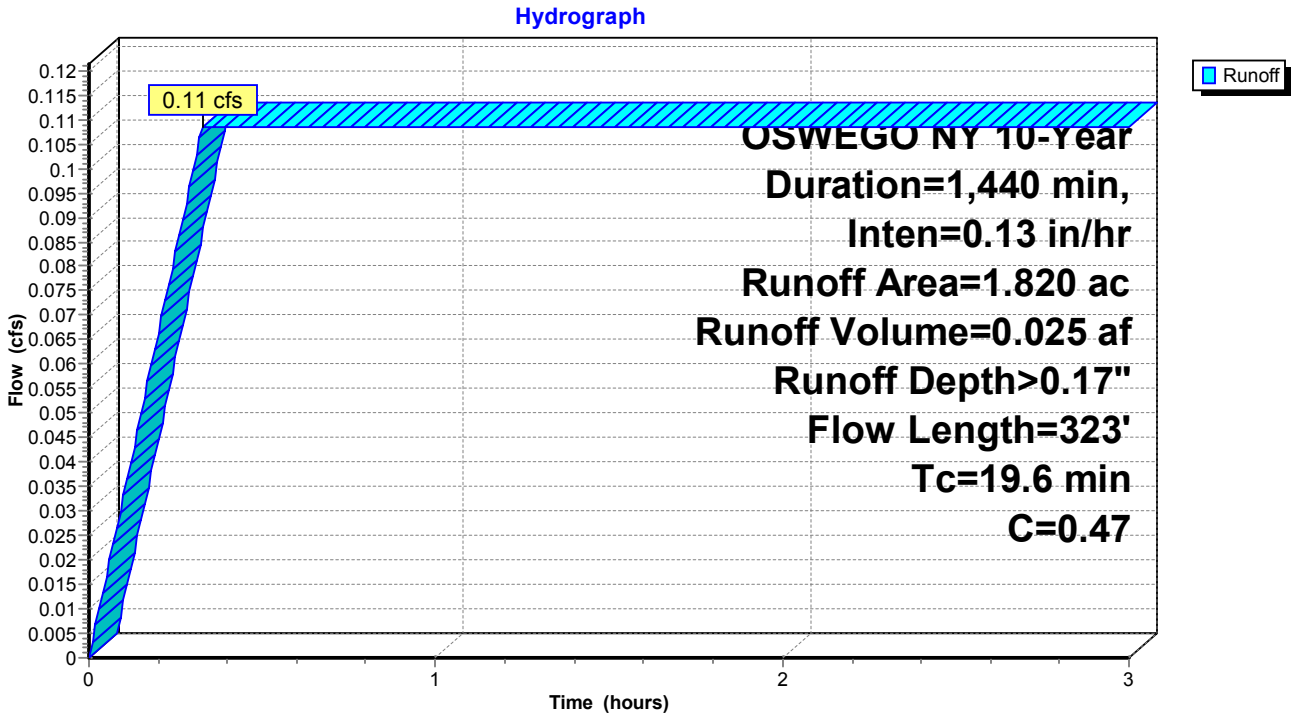
Runoff = 0.11 cfs @ 0.33 hrs, Volume= 0.025 af, Depth> 0.17"

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
OSWEGO NY 10-Year Duration=1,440 min, Inten=0.13 in/hr

Area (ac)	C	Description
1.130	0.20	Lawn Area
0.690	0.90	Impervious Area
1.820	0.47	Weighted Average
1.820		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
16.0	100	0.0080	0.10		**Sheet Flow, Lawn Area** Grass: Short n= 0.150 P2= 2.50"
3.6	223	0.0215	1.03		**Shallow Concentrated Flow, Shallow Concentrate** Short Grass Pasture Kv= 7.0 fps
19.6	323	Total			

Subcatchment 2: PR DA 2



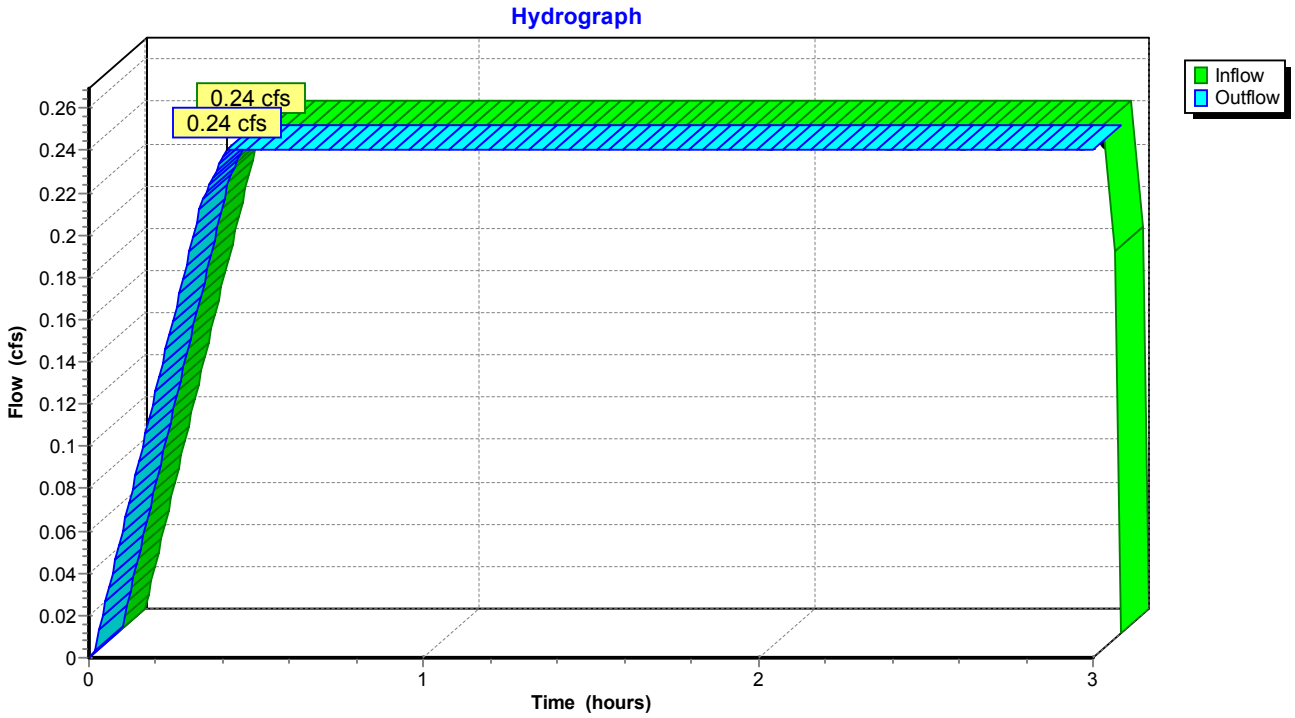
Summary for Reach DP: Design Point

[40] Hint: Not Described (Outflow=Inflow)

Inflow Area = 3.950 ac, 0.00% Impervious, Inflow Depth > 0.17" for 10-Year event
Inflow = 0.24 cfs @ 0.40 hrs, Volume= 0.056 af
Outflow = 0.24 cfs @ 0.41 hrs, Volume= 0.056 af, Atten= 0%, Lag= 0.6 min

Routing by Sim-Route method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs

Reach DP: Design Point



Time span=0.00-3.00 hrs, dt=0.01 hrs, 301 points
Runoff by Rational method, Rise/Fall=1.0/1.0 xTc
Reach routing by Sim-Route method - Pond routing by Sim-Route method

Subcatchment 1: PR DA 1 Runoff Area=2.130 ac 0.00% Impervious Runoff Depth>0.20"
Flow Length=483' Tc=24.0 min C=0.49 Runoff=0.16 cfs 0.036 af

Subcatchment 2: PR DA 2 Runoff Area=1.820 ac 0.00% Impervious Runoff Depth>0.20"
Flow Length=323' Tc=19.6 min C=0.47 Runoff=0.13 cfs 0.030 af

Reach DP: Design Point Inflow=0.28 cfs 0.066 af
Outflow=0.28 cfs 0.066 af

Total Runoff Area = 3.950 ac Runoff Volume = 0.066 af Average Runoff Depth = 0.20"
100.00% Pervious = 3.950 ac 0.00% Impervious = 0.000 ac

Summary for Subcatchment 1: PR DA 1

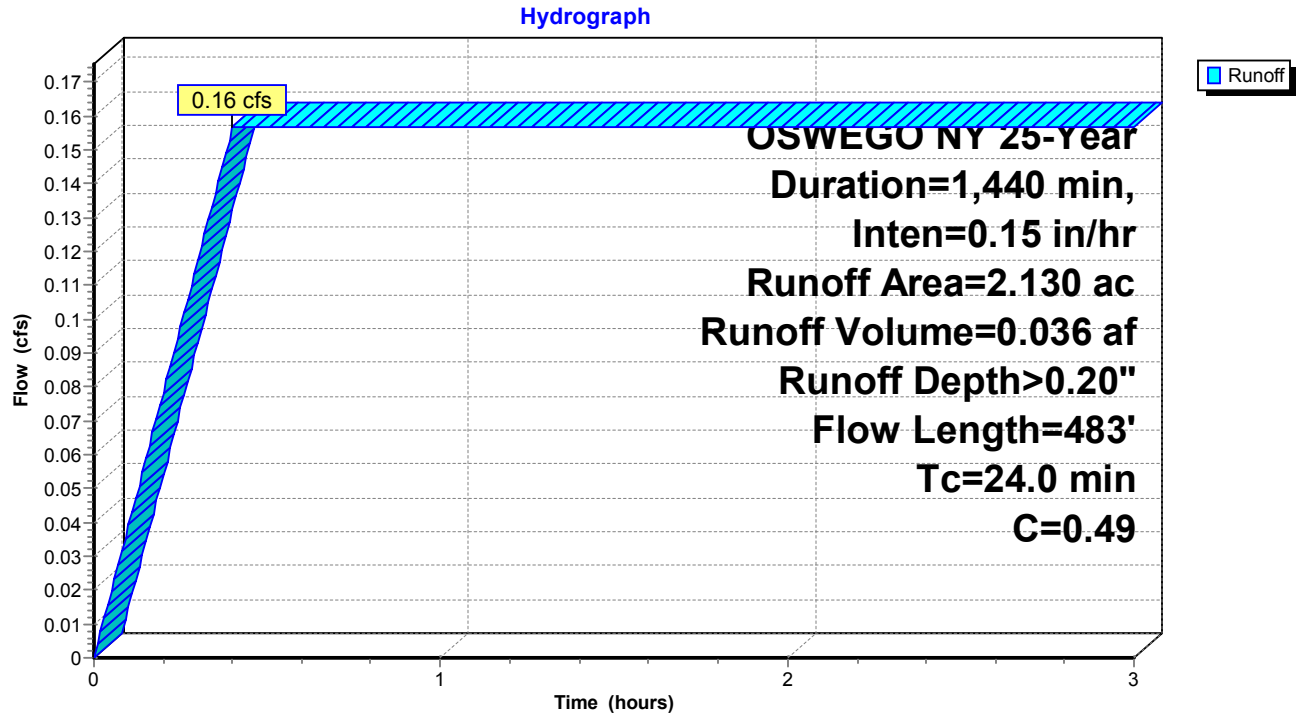
Runoff = 0.16 cfs @ 0.40 hrs, Volume= 0.036 af, Depth> 0.20"

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
OSWEGO NY 25-Year Duration=1,440 min, Inten=0.15 in/hr

Area (ac)	C	Description
0.870	0.90	Impervious Area
1.260	0.20	Lawn Area
2.130	0.49	Weighted Average
2.130		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
16.9	100	0.0070	0.10		**Sheet Flow, Sheet Flow** Grass: Short n= 0.150 P2= 2.50"
7.1	383	0.0164	0.90		**Shallow Concentrated Flow, Shallow Concentated** Short Grass Pasture Kv= 7.0 fps
24.0	483	Total			

Subcatchment 1: PR DA 1



Summary for Subcatchment 2: PR DA 2

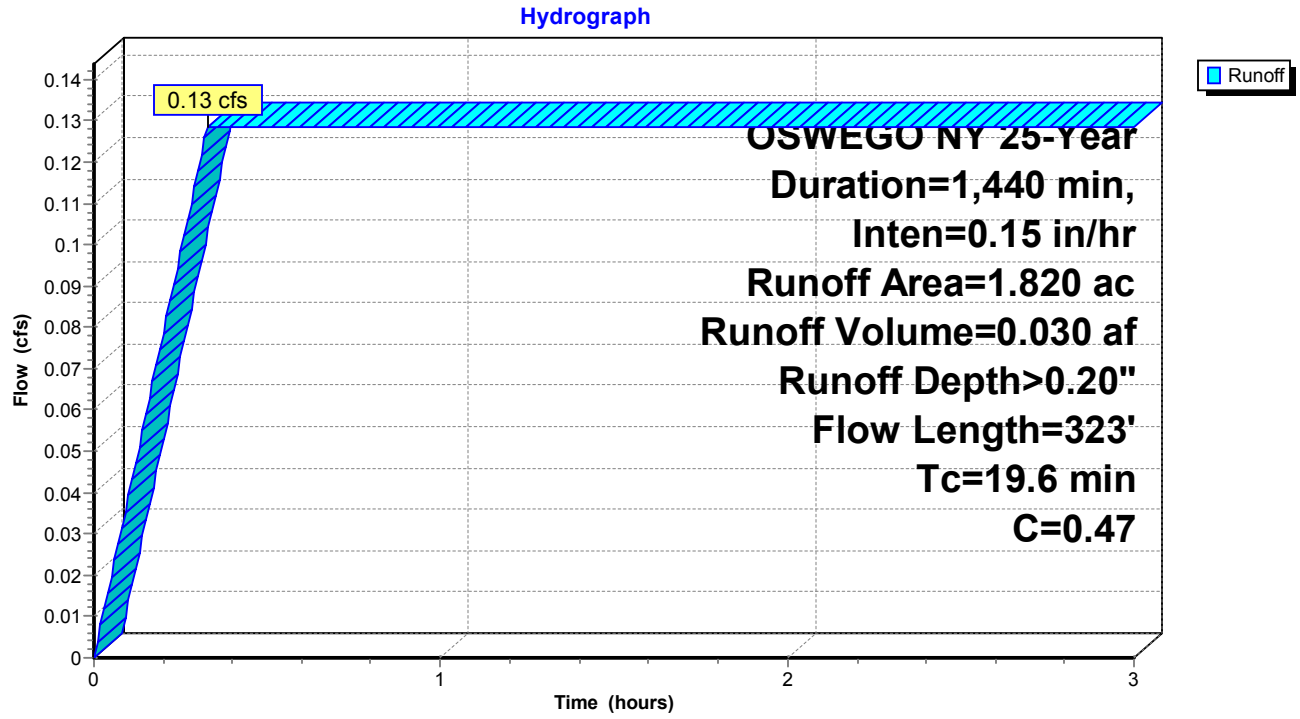
Runoff = 0.13 cfs @ 0.33 hrs, Volume= 0.030 af, Depth> 0.20"

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
OSWEGO NY 25-Year Duration=1,440 min, Inten=0.15 in/hr

Area (ac)	C	Description
1.130	0.20	Lawn Area
0.690	0.90	Impervious Area
1.820	0.47	Weighted Average
1.820		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
16.0	100	0.0080	0.10		**Sheet Flow, Lawn Area** Grass: Short n= 0.150 P2= 2.50"
3.6	223	0.0215	1.03		**Shallow Concentrated Flow, Shallow Concentrate** Short Grass Pasture Kv= 7.0 fps
19.6	323	Total			

Subcatchment 2: PR DA 2



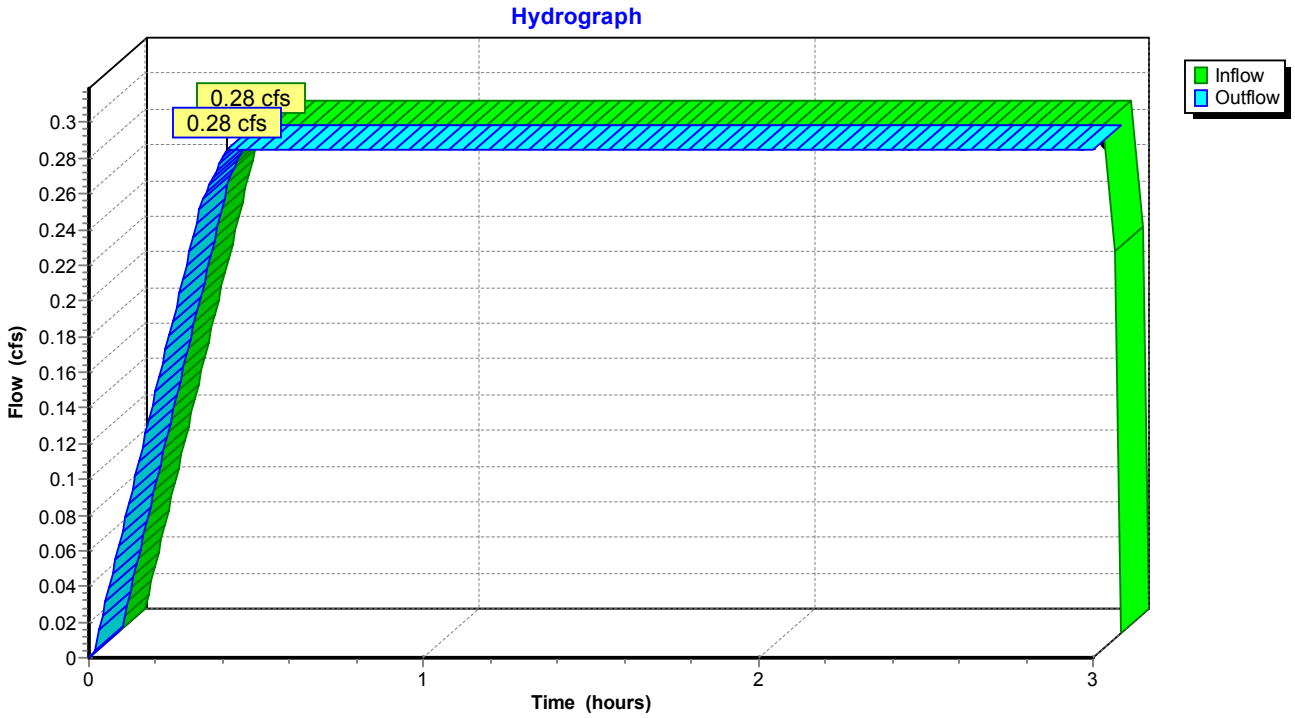
Summary for Reach DP: Design Point

[40] Hint: Not Described (Outflow=Inflow)

Inflow Area = 3.950 ac, 0.00% Impervious, Inflow Depth > 0.20" for 25-Year event
Inflow = 0.28 cfs @ 0.40 hrs, Volume= 0.066 af
Outflow = 0.28 cfs @ 0.41 hrs, Volume= 0.066 af, Atten= 0%, Lag= 0.6 min

Routing by Sim-Route method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs

Reach DP: Design Point



Time span=0.00-3.00 hrs, dt=0.01 hrs, 301 points
Runoff by Rational method, Rise/Fall=1.0/1.0 xTc
Reach routing by Sim-Route method - Pond routing by Sim-Route method

Subcatchment 1: PR DA 1 Runoff Area=2.130 ac 0.00% Impervious Runoff Depth>0.22"
Flow Length=483' Tc=24.0 min C=0.49 Runoff=0.17 cfs 0.038 af

Subcatchment 2: PR DA 2 Runoff Area=1.820 ac 0.00% Impervious Runoff Depth>0.21"
Flow Length=323' Tc=19.6 min C=0.47 Runoff=0.14 cfs 0.032 af

Reach DP: Design Point Inflow=0.30 cfs 0.070 af
Outflow=0.30 cfs 0.070 af

Total Runoff Area = 3.950 ac Runoff Volume = 0.070 af Average Runoff Depth = 0.21"
100.00% Pervious = 3.950 ac 0.00% Impervious = 0.000 ac

Summary for Subcatchment 1: PR DA 1

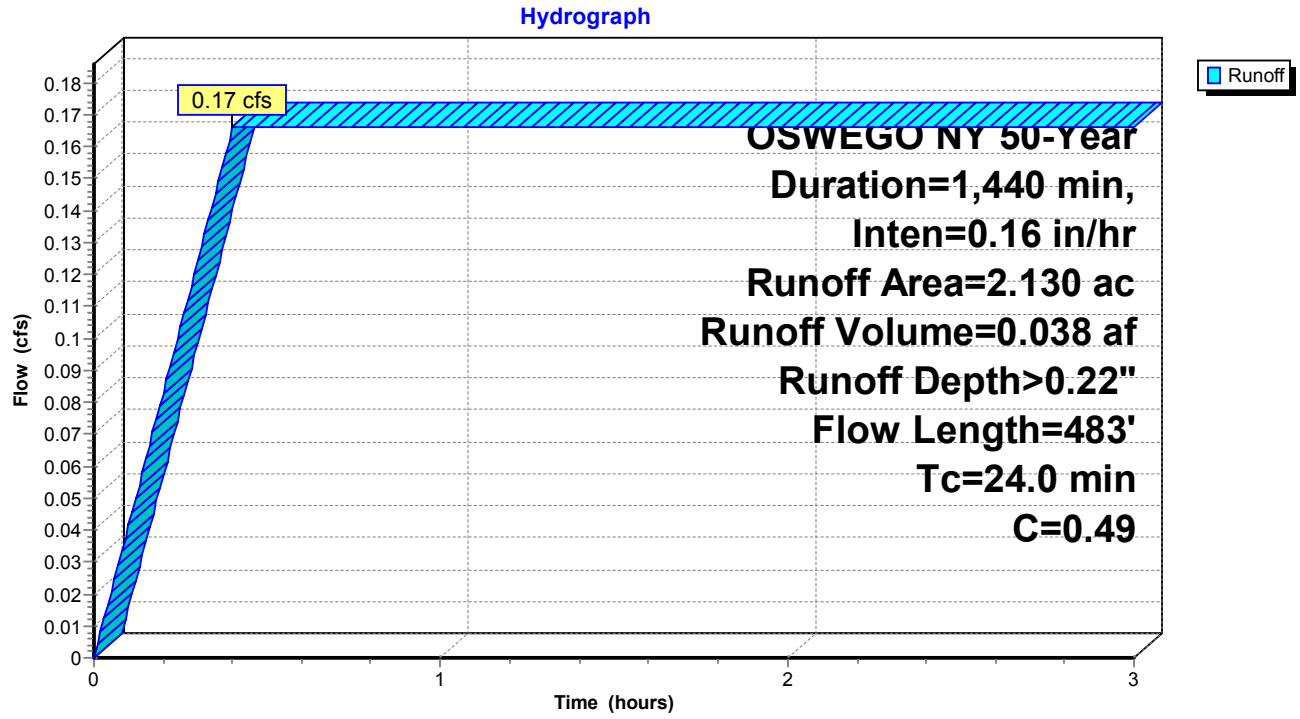
Runoff = 0.17 cfs @ 0.40 hrs, Volume= 0.038 af, Depth> 0.22"

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
OSWEGO NY 50-Year Duration=1,440 min, Inten=0.16 in/hr

Area (ac)	C	Description
0.870	0.90	Impervious Area
1.260	0.20	Lawn Area
2.130	0.49	Weighted Average
2.130		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
16.9	100	0.0070	0.10		**Sheet Flow, Sheet Flow** Grass: Short n= 0.150 P2= 2.50"
7.1	383	0.0164	0.90		**Shallow Concentrated Flow, Shallow Concentated** Short Grass Pasture Kv= 7.0 fps
24.0	483	Total			

Subcatchment 1: PR DA 1



Summary for Subcatchment 2: PR DA 2

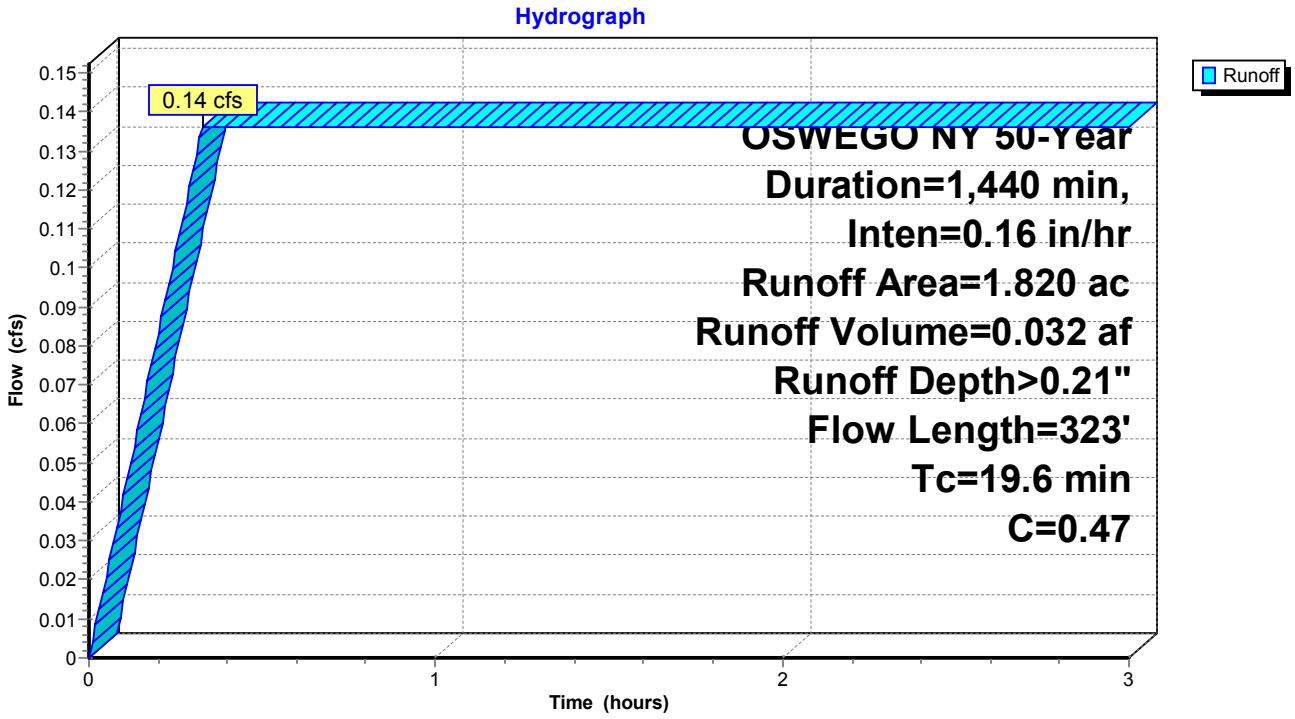
Runoff = 0.14 cfs @ 0.33 hrs, Volume= 0.032 af, Depth> 0.21"

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
OSWEGO NY 50-Year Duration=1,440 min, Inten=0.16 in/hr

Area (ac)	C	Description
1.130	0.20	Lawn Area
0.690	0.90	Impervious Area
1.820	0.47	Weighted Average
1.820		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
16.0	100	0.0080	0.10		**Sheet Flow, Lawn Area** Grass: Short n= 0.150 P2= 2.50"
3.6	223	0.0215	1.03		**Shallow Concentrated Flow, Shallow Concentrate** Short Grass Pasture Kv= 7.0 fps
19.6	323	Total			

Subcatchment 2: PR DA 2



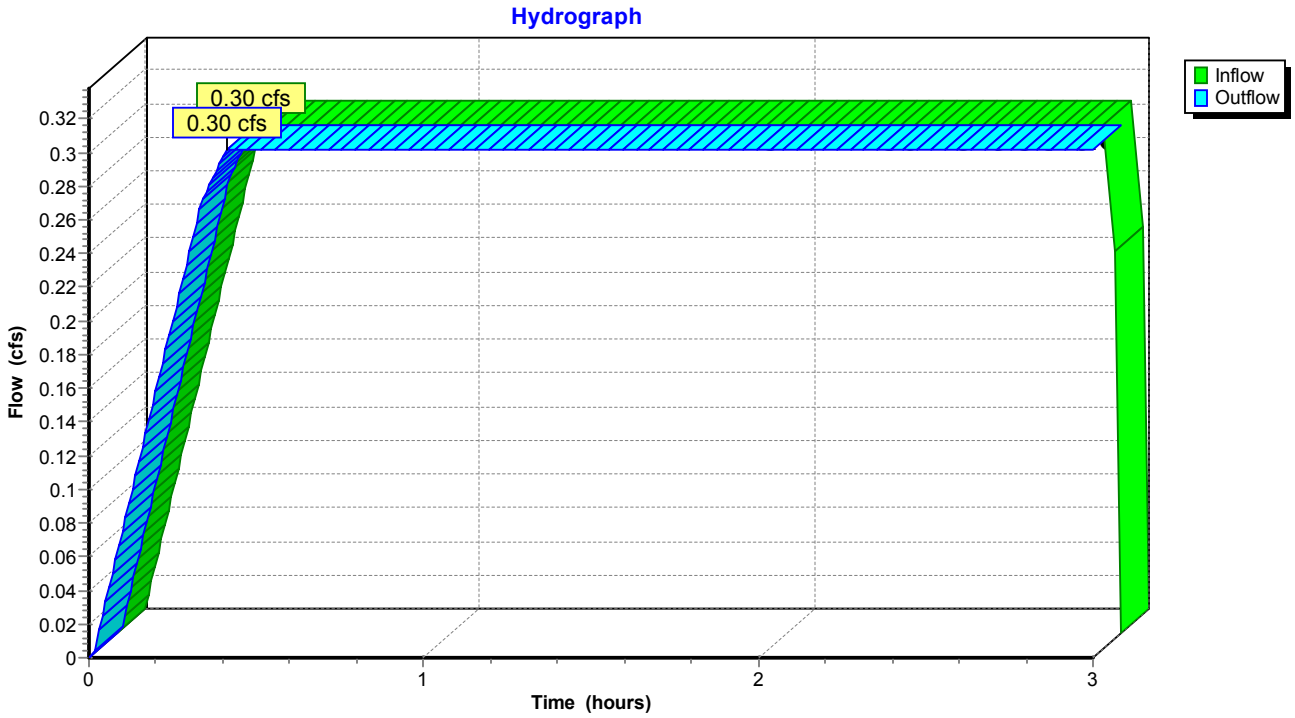
Summary for Reach DP: Design Point

[40] Hint: Not Described (Outflow=Inflow)

Inflow Area = 3.950 ac, 0.00% Impervious, Inflow Depth > 0.21" for 50-Year event
Inflow = 0.30 cfs @ 0.40 hrs, Volume= 0.070 af
Outflow = 0.30 cfs @ 0.41 hrs, Volume= 0.070 af, Atten= 0%, Lag= 0.6 min

Routing by Sim-Route method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs

Reach DP: Design Point



Time span=0.00-3.00 hrs, dt=0.01 hrs, 301 points
Runoff by Rational method, Rise/Fall=1.0/1.0 xTc
Reach routing by Sim-Route method - Pond routing by Sim-Route method

Subcatchment 1: PR DA 1 Runoff Area=2.130 ac 0.00% Impervious Runoff Depth>0.25"
Flow Length=483' Tc=24.0 min C=0.49 Runoff=0.19 cfs 0.044 af

Subcatchment 2: PR DA 2 Runoff Area=1.820 ac 0.00% Impervious Runoff Depth>0.24"
Flow Length=323' Tc=19.6 min C=0.47 Runoff=0.16 cfs 0.037 af

Reach DP: Design Point Inflow=0.35 cfs 0.081 af
Outflow=0.35 cfs 0.081 af

Total Runoff Area = 3.950 ac Runoff Volume = 0.081 af Average Runoff Depth = 0.25"
100.00% Pervious = 3.950 ac 0.00% Impervious = 0.000 ac

Summary for Subcatchment 1: PR DA 1

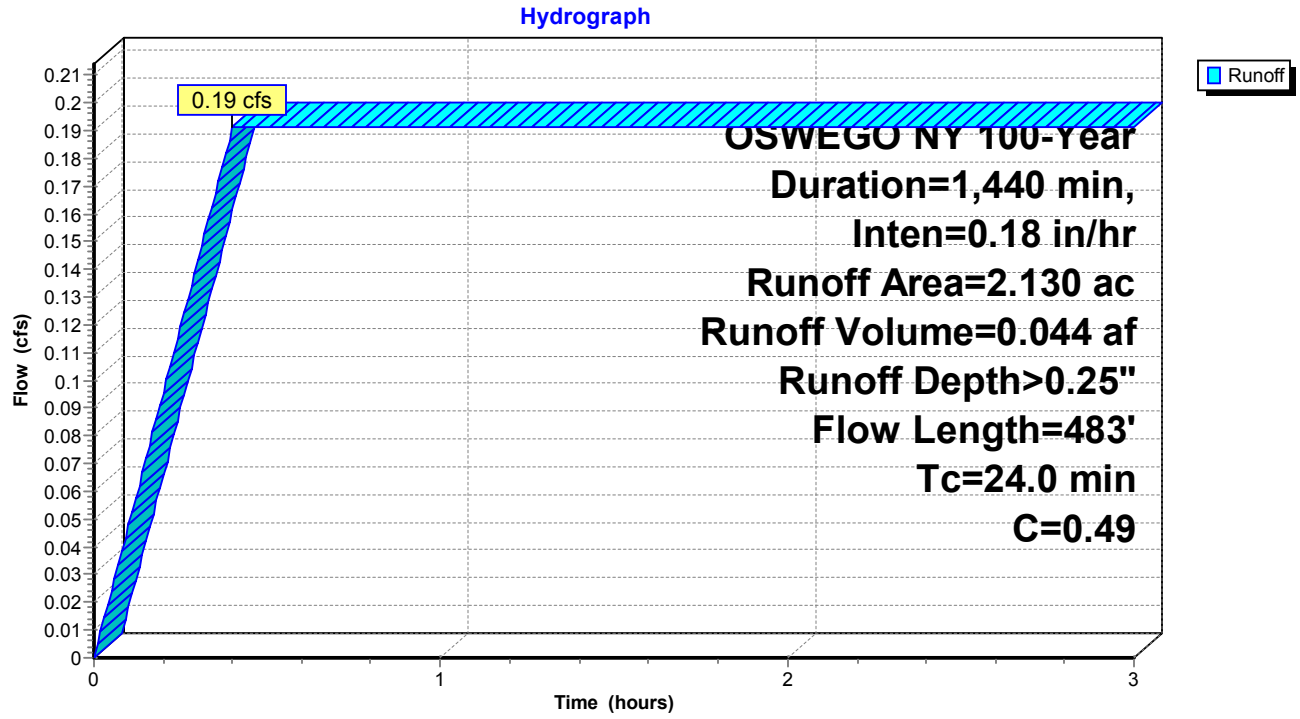
Runoff = 0.19 cfs @ 0.40 hrs, Volume= 0.044 af, Depth> 0.25"

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
OSWEGO NY 100-Year Duration=1,440 min, Inten=0.18 in/hr

Area (ac)	C	Description
0.870	0.90	Impervious Area
1.260	0.20	Lawn Area
2.130	0.49	Weighted Average
2.130		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
16.9	100	0.0070	0.10		**Sheet Flow, Sheet Flow** Grass: Short n= 0.150 P2= 2.50"
7.1	383	0.0164	0.90		**Shallow Concentrated Flow, Shallow Concentated** Short Grass Pasture Kv= 7.0 fps
24.0	483	Total			

Subcatchment 1: PR DA 1



Summary for Subcatchment 2: PR DA 2

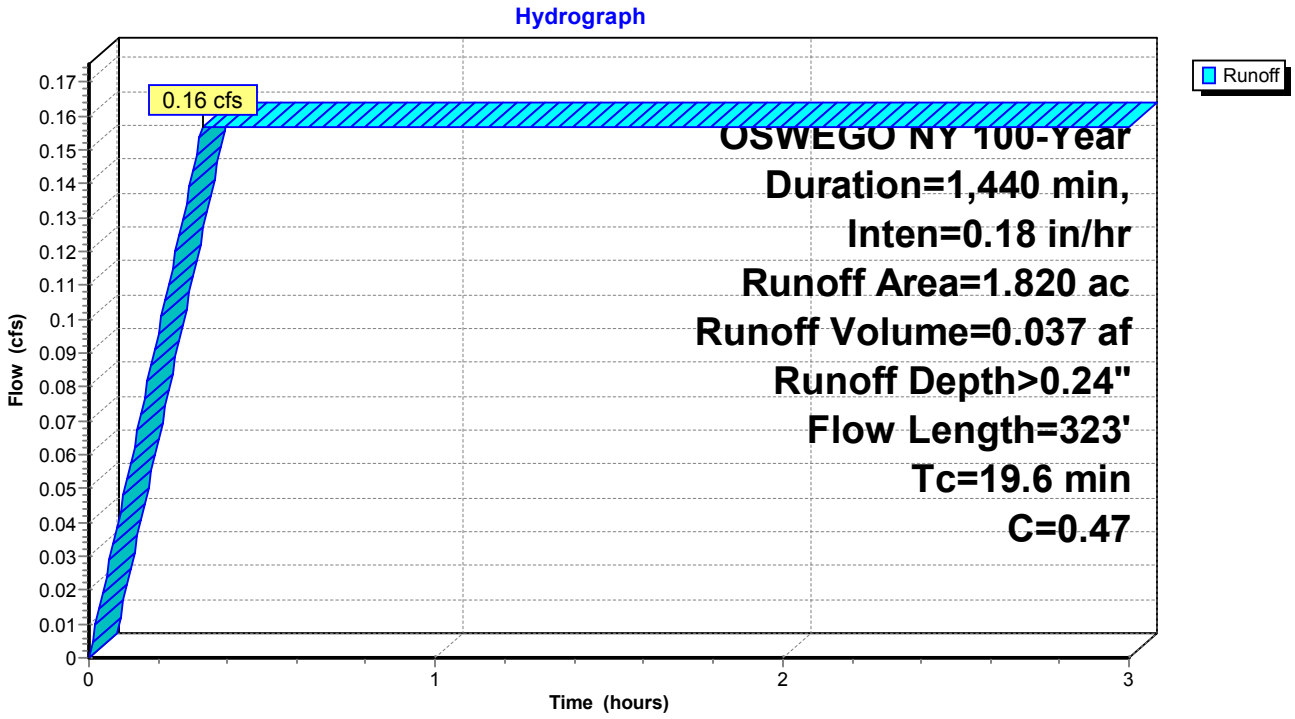
Runoff = 0.16 cfs @ 0.33 hrs, Volume= 0.037 af, Depth> 0.24"

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
OSWEGO NY 100-Year Duration=1,440 min, Inten=0.18 in/hr

Area (ac)	C	Description
1.130	0.20	Lawn Area
0.690	0.90	Impervious Area
1.820	0.47	Weighted Average
1.820		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
16.0	100	0.0080	0.10		**Sheet Flow, Lawn Area** Grass: Short n= 0.150 P2= 2.50"
3.6	223	0.0215	1.03		**Shallow Concentrated Flow, Shallow Concentrate** Short Grass Pasture Kv= 7.0 fps
19.6	323	Total			

Subcatchment 2: PR DA 2



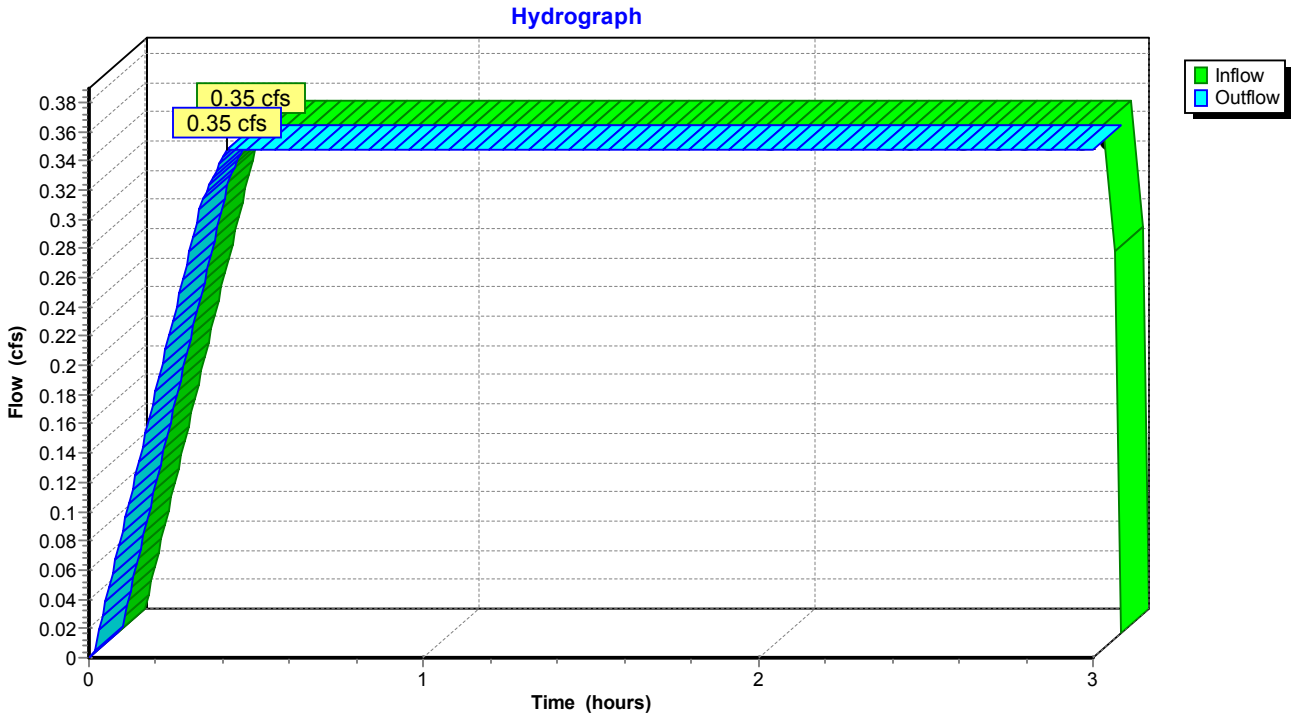
Summary for Reach DP: Design Point

[40] Hint: Not Described (Outflow=Inflow)

Inflow Area = 3.950 ac, 0.00% Impervious, Inflow Depth > 0.25" for 100-Year event
Inflow = 0.35 cfs @ 0.40 hrs, Volume= 0.081 af
Outflow = 0.35 cfs @ 0.41 hrs, Volume= 0.081 af, Atten= 0%, Lag= 0.6 min

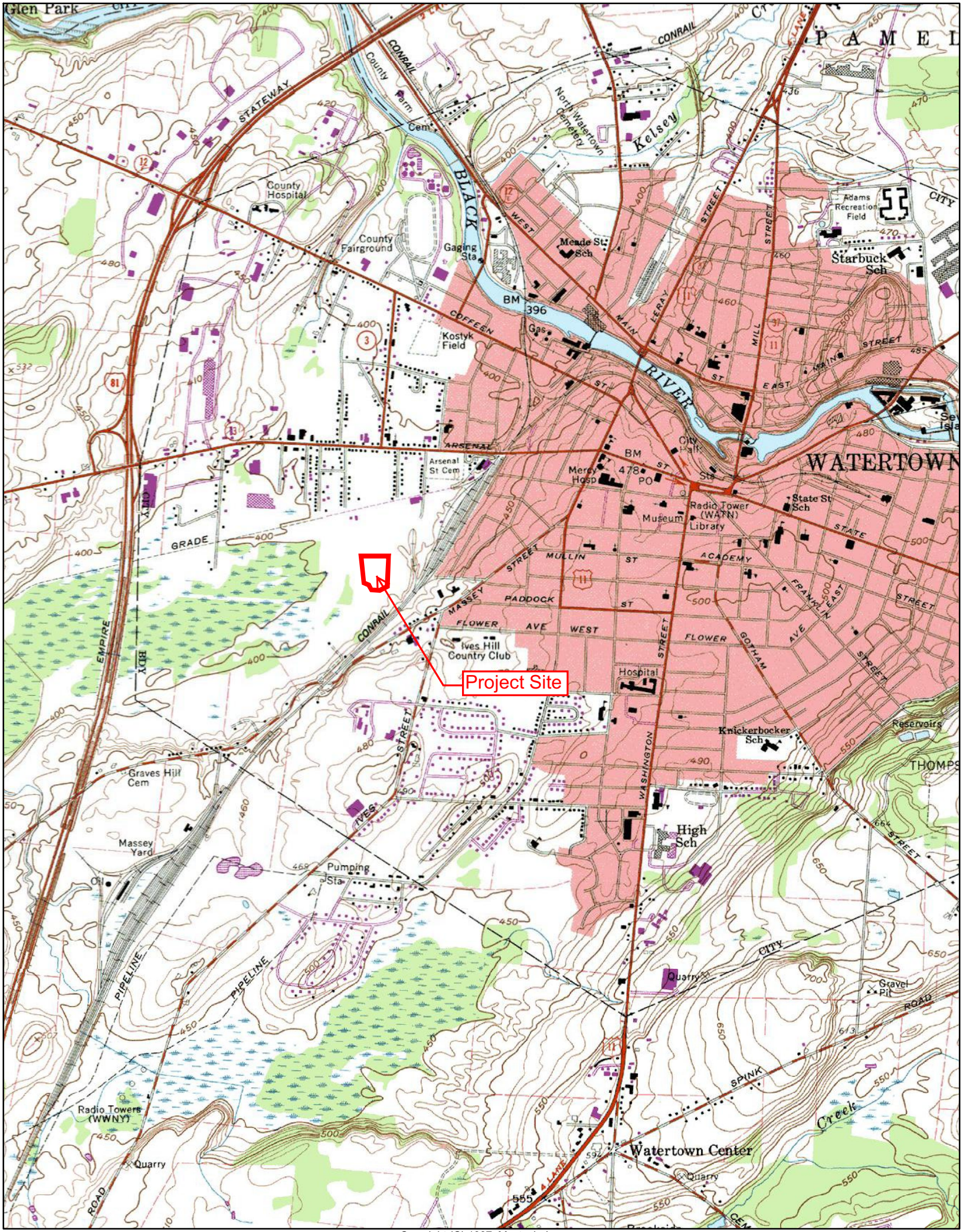
Routing by Sim-Route method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs

Reach DP: Design Point



EXISTING VS. PROPOSED RUNOFF COMPARISON
CURRENT APPLICATIONS - BUILDING ADDITION

24 HOUR STORM EVENT PEAK DISCHARGE - (CFS)								
DRAINAGE AREAS	EXIST. 10 YR	PROP. 10 YR	EXIST. 25 YR	PROP. 25YR	EXIST. 50 YR	PROP. 50 YR	EXIST. 100 YR	PROP. 100 YR
1	0.09	0.13	0.11	0.16	0.12	0.17	0.14	0.19
2	0.11	0.11	0.13	0.13	0.14	0.14	0.16	0.16



Short Environmental Assessment Form
Part 1 - Project Information

Instructions for Completing

Part 1 - Project Information. The applicant or project sponsor is responsible for the completion of Part 1. Responses become part of the application for approval or funding, are subject to public review, and may be subject to further verification. Complete Part 1 based on information currently available. If additional research or investigation would be needed to fully respond to any item, please answer as thoroughly as possible based on current information.

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

Part 1 - Project and Sponsor Information

Name of Action or Project:
Current Applications - Building Addition

Project Location (describe, and attach a location map):
275 Bellew Avenue South

Brief Description of Proposed Action:
The project consists of a proposed 10,240 sf building addition on the north side of the existing building. Site amenities include the construction of a 5,840 sf asphalt parking area expansion and drive along the north side of the addition. No new site utilities are proposed. Utilities will be provided from the within the existing building.

Name of Applicant or Sponsor:	Telephone: 315-785-9884
DC Building Systems, Inc.	E-Mail: don@dc-buildingsystems.com

Address:
19086 US Route 11

City/PO:	State:	Zip Code:
Watertown	NY	13601

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

3.a. Total acreage of the site of the proposed action? 3.95 acres
b. Total acreage to be physically disturbed? 0.77 acres
c. Total acreage (project site and any contiguous properties) owned or controlled by the applicant or project sponsor? 3.95 acres

4. Check all land uses that occur on, adjoining and near the proposed action.
☐ Urban ☐ Rural (non-agriculture) ☑ Industrial ☑ Commercial ☐ Residential (suburban)
☐ Forest ☐ Agriculture ☐ Aquatic ☐ Other (specify): _____
☐ Parkland

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

	NO	YES
6. Is the proposed action consistent with the predominant character of the existing built or natural landscape?	☐	☑
7. Is the site of the proposed action located in, or does it adjoin, a state listed Critical Environmental Area? If Yes, identify: _____	☑	☐
8. a. Will the proposed action result in a substantial increase in traffic above present levels?	☑	☐
b. Are public transportation service(s) available at or near the site of the proposed action?	☑	☐
c. Are any pedestrian accommodations or bicycle routes available on or near site of the proposed action?	☑	☐
9. Does the proposed action meet or exceed the state energy code requirements? If the proposed action will exceed requirements, describe design features and technologies: _____	☐	☑
10. Will the proposed action connect to an existing public/private water supply? If No, describe method for providing potable water: _____	☐	☑
11. Will the proposed action connect to existing wastewater utilities? If No, describe method for providing wastewater treatment: _____	☐	☑
12. a. Does the site contain a structure that is listed on either the State or National Register of Historic Places?	☑	☐
b. Is the proposed action located in an archeological sensitive area?	☐	☑
13. a. Does any portion of the site of the proposed action, or lands adjoining the proposed action, contain wetlands or other waterbodies regulated by a federal, state or local agency?	☐	☑
b. Would the proposed action physically alter, or encroach into, any existing wetland or waterbody? If Yes, identify the wetland or waterbody and extent of alterations in square feet or acres: _____	☑	☐

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

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

☐ Wetland ☑ Urban ☐ Suburban

	NO	YES
15. Does the site of the proposed action contain any species of animal, or associated habitats, listed by the State or Federal government as threatened or endangered?	☐	☑
16. Is the project site located in the 100 year flood plain?	☑	☐
17. Will the proposed action create storm water discharge, either from point or non-point sources? If Yes, a. Will storm water discharges flow to adjacent properties? ☐ NO ☑ YES	☐	☑
b. Will storm water discharges be directed to established conveyance systems (runoff and storm drains)? If Yes, briefly describe: ☐ NO ☑ YES		

	NO	YES
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)? If Yes, explain purpose and size: _____	☑	☐
19. Has the site of the proposed action or an adjoining property been the location of an active or closed solid waste management facility? If Yes, describe: _____	☑	☐
20. Has the site of the proposed action or an adjoining property been the subject of remediation (ongoing or completed) for hazardous waste? If Yes, describe: _____	☑	☐

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

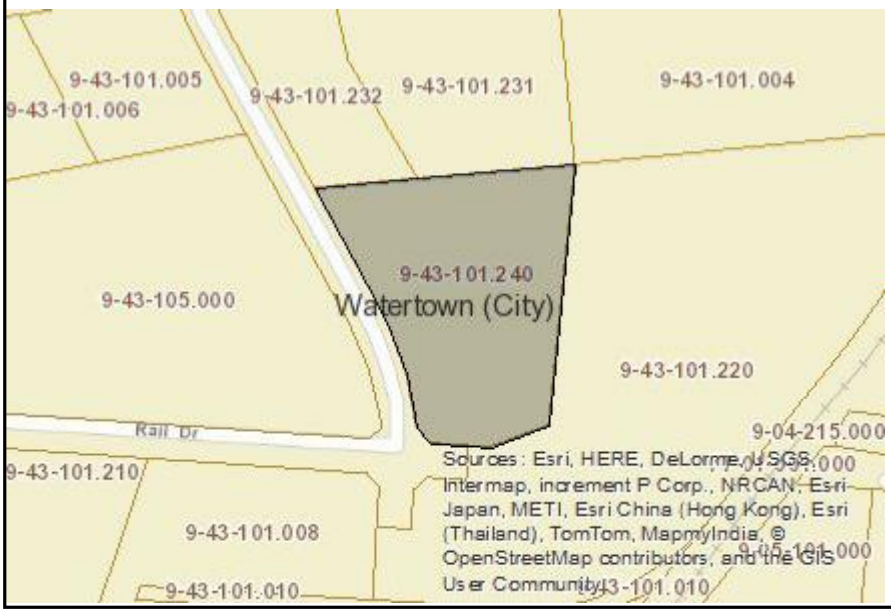
Applicant/sponsor name: DONALD E. CLARK Date: 1/23/15

Signature: Donald E. Clark

PRINT FORM

EAF Mapper Summary Report

Thursday, January 22, 2015 10:31 AM



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

Part 1 / Question 7 [Critical Environmental Area]	No
Part 1 / Question 12a [National Register of Historic Places]	No
Part 1 / Question 12b [Archeological Sites]	Yes
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 16 [100 Year Flood Plain]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
Part 1 / Question 20 [Remediation Site]	No

SHORT EAF SUMMARY REPORT:

Questions 12b, 13a, and 15 are answered automatically by the EAF mapper based upon limited digital mapping information that is available.

- Questions 12b, Archeological Sites, is answered yes due to the location of the historic railroad car maintenance turn-table located on the adjacent tax parcel number 9-43-101.231, directly north of the site. See Subdivision Final Plat, City Center Industrial Park, 10/15/2008, Jeff. Co. File #4655.

- Question 13a, Wetlands, is answered yes due to the location of wetlands located on the adjacent lots directly west of the City Center Industrial Park site. See Subdivision Final Plat, City Center Industrial Park, 10/15/2008, Jeff. Co. File #4655.

- Question 15, Threatened or Endangered Species, is answered yes due to the lot being part of the City Center Industrial Park, which was previously developed adjacent to undeveloped wetlands and forest area to the west. The project site was developed in 2008, and currently contains only buildings, parking lot, grass lawn and landscaping.

AUBERTINE and CURRIER
ARCHITECTS, ENGINEERS & LAND SURVEYORS, PLLC

NYS WBE/DBE Certified
SBA Woman Owned
Small Business (WOSB)

aubertinecurrier.com

522 Bradley Street
Watertown, New York 13601

Phone: 315.782.2005
Fax: 315.782.1472

Managing Partner
Annette M. Mason, P.E.
Structural Engineer

Partners
Michael L. Aubertine, R.A.
Architect

Patrick J. Currier, R.A.
Architect

Brian A. Jones, AIA.,
LEED AP BD+C
Architect

Matthew R. Morgia, P.E.
Civil Engineer

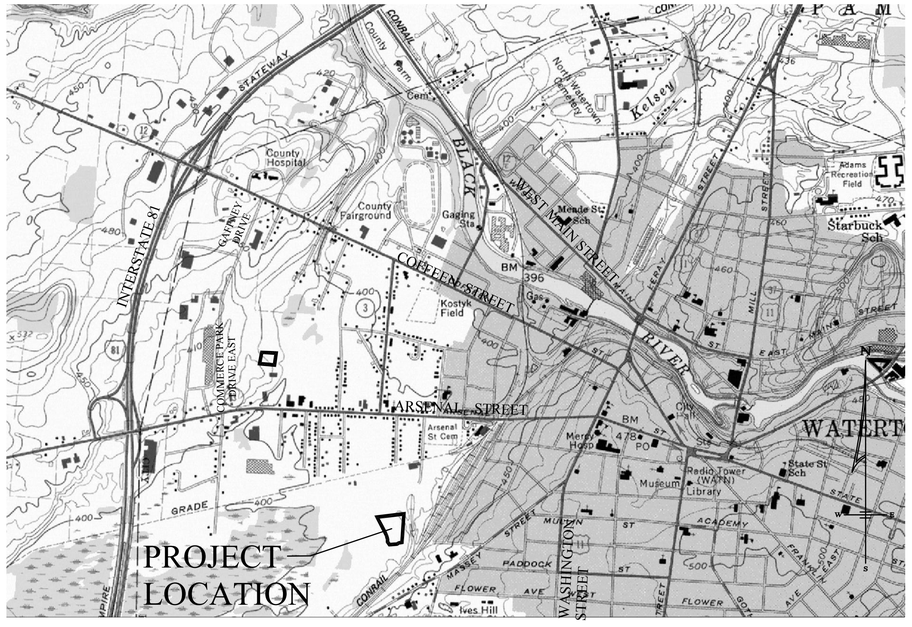
Jayson J. Jones, P.L.S.
Land Surveyor

CURRENT APPLICATIONS - ADDITION PROJECT
275 BELLEW AVENUE SOUTH

CITY OF WATERTOWN

JEFFERSON COUNTY, STATE OF NEW YORK

SITE PLANS: 02/17/2015



INDEX OF DRAWINGS

VF-101	BOUNDARY AND TOPOGRAPHIC SURVEY MAP OF THE LANDS OF CURRENT APPLICATIONS, INC.
CS-100	SITE, LANDSCAPING AND PHOTOMETRIC PLAN
CG-100	GRADING AND PLAN
CS-500	SITE DETAILS
A-100	PRELIMINARY FLOOR PLAN
A-200	PRELIMINARY EXTERIOR ELEVATIONS

OWNER

CURRENT APPLICATIONS, INC.
ATTN: GEORGE ANDERSON
275 BELLEW AVENUE SOUTH
WATERTOWN, NEW YORK 13601

CONTRACTOR/APPLICANT

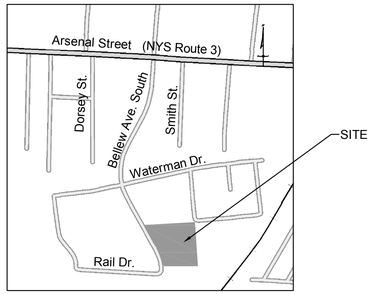
DC BUILDING SYSTEMS, INC.
ATTN: DON CLARK
19086 US ROUTE 11
WATERTOWN, NEW YORK 13601

ARCHITECT AND CIVIL/SITE ENGINEER

AUBERTINE and CURRIER, PLLC
522 BRADLEY STREET
WATERTOWN, NY 13601
TELE: (315) 782-2005
FAX: (315) 782-1472
www.aubertinecurrier.com

STATE OF NEW YORK
MATTHEW REA MURPHY
081071
LICENSED PROFESSIONAL ENGINEER

AUBERTINE and CURRIER
ARCHITECTS, ENGINEERS & LAND SURVEYORS, PLLC



LOCATION MAP
NOT TO SCALE

STANDARD NOTES:

1. Unauthorized alteration or addition to a survey map bearing a licensed land surveyor's seal is a violation of section 7209, sub-division 2, of the New York State Education Law.

2. Only boundary survey maps with the surveyor's embossed seal or red ink seal are genuine true and correct copies of the surveyor's original work and opinion.

3. Certifications on this boundary survey map signify that the map was prepared in accordance with the current existing Code of Practice for Land Surveys adopted by the New York State Association of Professional Land Surveyors, Inc. The certification is limited to persons for whom the boundary survey map is prepared, to the title company, to the governmental agency, and to the lending institution listed on this boundary survey map.

4. The certifications hereon are not transferable.

5. The location of underground improvements or encroachments are not always known and often must be estimated. If any, underground improvements or encroachments are not covered by this certificate.

GENERAL NOTES:

1. The subject parcel is City of Watertown Real Property Tax Parcel No. 9-43-101.240.

2. All adjoiners are per the City of Watertown Real Property Office.

3. Adjoining property lines should be considered approximate and are shown for reference only.

4. This survey was prepared without the benefit of an abstract of title and is subject to any modifications which may occur as a result of a complete title search.

5. The underground utilities and features shown hereon have been located from above ground visible features and other available records and therefore their location should be considered approximate only. Other underground utilities and features may exist, either in service or abandoned, that are not indicated on this survey. Dig Safely New York (UFPO) should be contacted prior to performing any excavation activities.

6. The field survey was performed February 05, 2015 through February 12, 2015 with significant snow cover and drifting. There may be existing improvements and/or other physical features that are not shown on this survey due to the heavy snow cover.

7. Bellew Avenue South and Rail Drive are public roads with a reputed width of 66 feet.

8. The City of Watertown also hereby agrees to Quitclaim any and all right, title and interest it may have in the fifty foot wide R.O.W. once known as Smith Street (this portion abandoned by City Council resolution adopted September 19, 1919). Subsequent to the 1919 abandonment, this portion was also once known as the Western Outfall Trunk Sewer 50' wide Sewer Easement. It being the intent of the City of Watertown to extinguish and cease any interest in that portion of this 50' wide strip that traverses the 3.95 acre parcel shown on this plat.

9. The Horizontal Datum for this survey is based on NYS Central Zone NAD83(1996) (North American Datum 1983/1996).

10. The Vertical Datum for this survey is based on the National Geodetic Vertical Datum of 1929 (NGVD29).

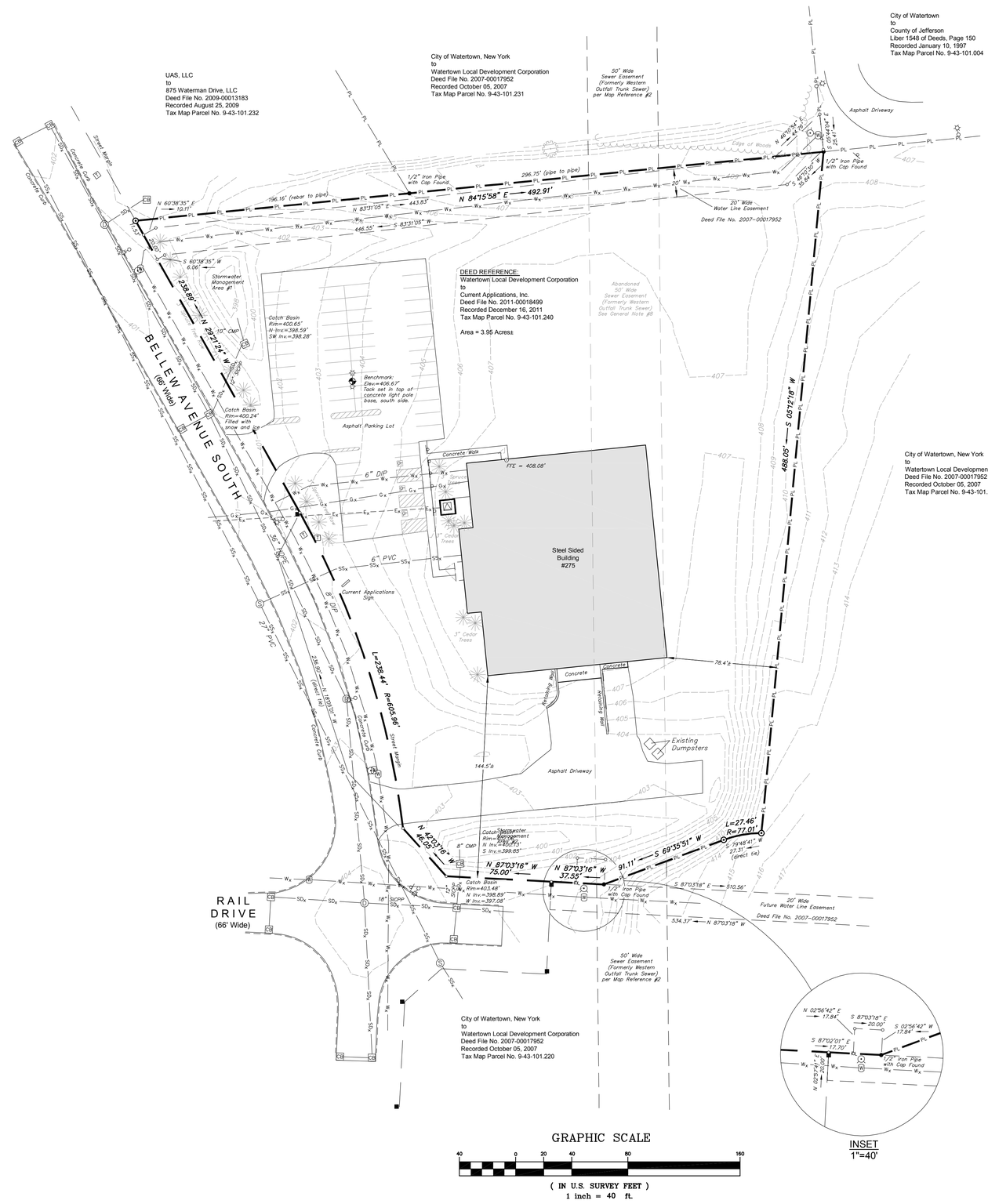
MAP REFERENCES:

1. "Subdivision Final Plat City Center Industrial Park, Bellew Ave. South, Haney St., Waterman Drive, Roundhouse Drive, Rail Drive, City of Watertown, County of Jefferson, State of New York" dated September 30, 2003, and last revised January 07, 2004, prepared by GYMO Architecture, Engineering and Land Surveying P.C., filed in the Jefferson County Clerk's Office as File No. 3215 on January 14, 2004.

2. "Subdivision Final Plat City Center Industrial Park, Bellew Ave. South, Haney St., Waterman Drive, Roundhouse Drive, Rail Drive, City of Watertown, County of Jefferson, State of New York" dated September 30, 2003, and last revised October 15, 2008, prepared by GYMO Architecture, Engineering and Land Surveying P.C., filed in the Jefferson County Clerk's Office as File No. 4655 on November 21, 2008.

3. "ALTA/ACSM Land Title Survey of the Lands of MLR Realty, LLC, 901 Rail Drive, City of Watertown, Jefferson County, New York" dated August 17, 2012, prepared by Aubertine and Currier, Architects, Engineers & Land Surveyors, PLLC.

4. "Topographic Survey of the Lands of MLR Realty, LLC, 901 Rail Drive, City of Watertown, Jefferson County, New York" dated November 25, 2014, prepared by Aubertine and Currier, Architects, Engineers & Land Surveyors, PLLC.



LEGEND

- 5/8" REBAR WITH CAP SET
- IRON PIPE FOUND (AS NOTED)
- CITY MONUMENT
- LEGAL POINT
- MAJOR CONTOUR
- MINOR CONTOUR
- PROPERTY LINE
- STREET MARGIN
- EASEMENT LINE
- EDGE OF PAVEMENT
- CURB LINE
- TREELINE
- WATER LINE
- SANITARY SEWER LINE
- STORM SEWER LINE
- GAS LINE
- UNDERGROUND ELECTRIC LINE
- FIRE HYDRANT
- WATER VALVE
- SANITARY SEWER MANHOLE
- STORM DRAIN MANHOLE
- CATCH BASIN
- LIGHT POLE
- TRANSFORMER
- TELEPHONE PEDESTAL
- SIGN
- CONIFEROUS TREE
- DECIDUOUS TREE

AUBERTINE and CURRIER
ARCHITECTS, ENGINEERS & LAND SURVEYORS, PLLC

522 Bradley Street
Watertown, New York 13601

aubertinecurrier.com

Phone: (315)782-2005
Fax: (315)782-1472

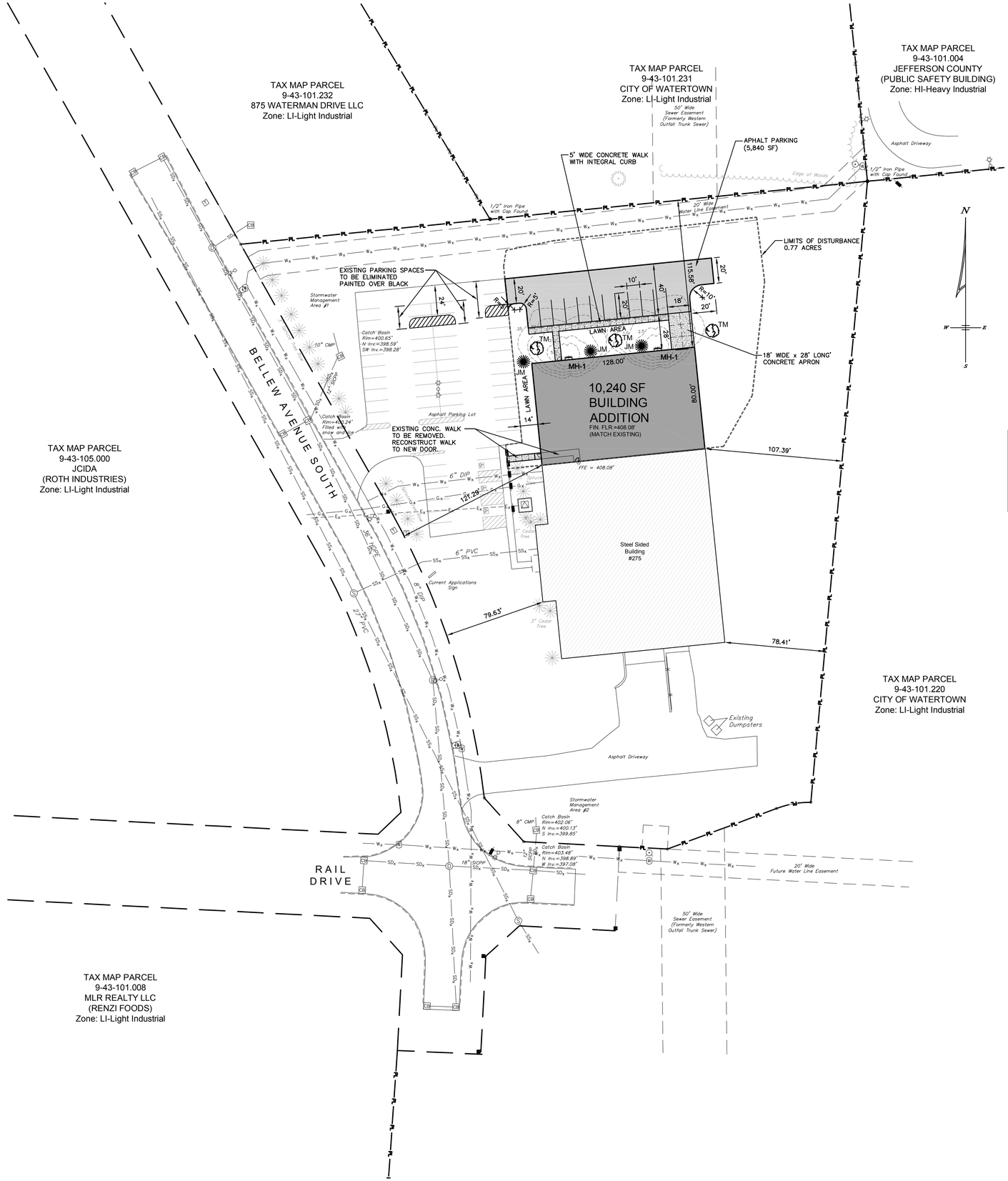
BOUNDARY and TOPOGRAPHIC SURVEY MAP of the LANDS of CURRENT APPLICATIONS, INC.

275 BELLEW AVENUE SOUTH
CITY of WATERTOWN
JEFFERSON COUNTY, NEW YORK

PROJECT NO:	2015-005.001
SCALE:	1" = 40'
DRAWN BY:	RES
CHECKED BY:	JDB
ISSUE DATES:	February 17, 2015

2015-005.001 DCBACA-VF-SB001.DWG

VF-101



PLANNING DATA

ZONING: LI LIGHT INDUSTRIAL
USE: MANUFACTURING - BUILDING ADDITION (10,240 SF)

ITEM	REQUIRED	AS PROVIDED
MIN. LOT AREA	--	172,220 SQ. FT. (3.95 ACRES)
MIN. FRONTAGE	NONE	755'
MIN. FRONT SETBACK	0'	79.63' (EXISTING) 121.29' (ADDITION)
MIN. REAR YARD SETBACK	0'	78.41' (EXISTING) 107.39' (ADDITION)
MIN. SIDE YARD SETBACK	0'	115.58'
MAX. BUILDING HEIGHT	--	19'-4"
MAX. BUILDING COVERAGE	NONE	--
PARKING REQUIREMENTS ORIGINAL BUILDING INDUSTRIAL USE (LIGHT) (200 SF-"1 SPACE", FOR EACH 1,000 SF) (20,056 SF / 1,000 SF = 20.1) ADDITION INDUSTRIAL USE (LIGHT) (200 SF-"1 SPACE", FOR EACH 1,000 SF) (10,240 SF / 1,000 SF = 10.2) ORIGINAL BUILDING WITH ADDITION INDUSTRIAL USE (LIGHT) (200 SF-"1 SPACE", FOR EACH 1,000 SF) (20,056+10,240 SF / 1,000 SF = 30.3)	20.1 SPACES 10.2 SPACES 30.3 SPACES	56 SPACES 11 SPACES (ADD) 7 SPACES (DEDUCT) 60 SPACES (TOTAL)
HANDICAPPED SPACES (PER ADA)	3 SPACES	3 SPACES (EXISTING)

GENERAL INFORMATION

WATER SUPPLY SYSTEM	EXISTING BUILDING WATER SERVICE LATERAL TO CITY MUNICIPAL SYSTEM
SANITARY SEWER SYSTEM	EXISTING BUILDING GRAVITY LATERAL TO CITY MUNICIPAL SYSTEM
LIMITS OF DISTURBANCE	0.77 ACRES

SITE LIGHTING SCHEDULE

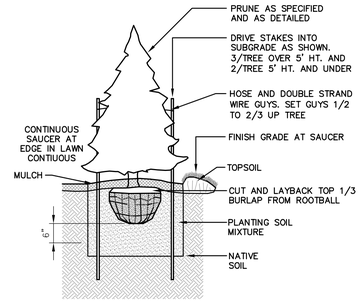
SYMBOL	FIXTURE	MOUNTING HEIGHT	QUANTITY
MH-1	FPM150MAL1 BY STONCO LIGHTING	12' MOUNTING HEIGHT	2

PLANTING SCHEDULE

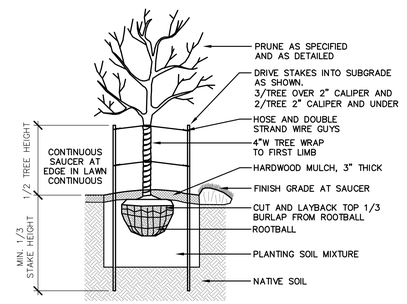
SYM	COMMON NAME	ABBREV.	BOTANICAL NAME	SIZE	QUANTITY
	TATARIAN MAPLE	TM	ACER TATARICUM	2" CALIPER	3
	JUNIPER MOONGLOW	JM	JUNIPERUS SCOPULORUM "MOONGLOW"	2'-3' B.B.	3

LANDSCAPING NOTE:

1. PLANT SPECIES WERE SELECTED BASED ON ABILITY TO GROW IN EXISTING SOIL CONDITIONS. PLANT SPECIFIED WERE ALSO CHOSEN BASED ON SIZE, SHAPE, COLOR AND GROWTH HABIT. ANY SUBSTITUTIONS SHALL BE APPROVED BY THE ARCHITECT.
2. ALL PLANTINGS SHALL ARRIVE ON-SITE BEARING THE ORIGINAL IDENTIFICATION TAGS SHOWING THEIR BOTANICAL NAME, COMMON NAME AND SIZE.
3. ALL TREES SHALL HAVE A 4' DIA. SHREDDED HARDWOOD MULCH RING AROUND THE BASE OF THE TREE.
4. ALL LANDSCAPED AREAS SHALL HAVE A WEED BARRIER FABRIC AND A MIN. OF 3" DEEP SHREDDED HARDWOOD MULCH.
5. ALL PLANTINGS SHALL BE THOROUGHLY WATERED AT THE TIME OF PLANTING.



1 TYPICAL EVERGREEN TREE PLANTING DETAIL
NOT TO SCALE



2 TYPICAL DECIDUOUS TREE PLANTING DETAIL
NOT TO SCALE

LEGEND	EXISTING	PROPOSED
5' CONTOUR	155	155
1' CONTOUR	154	154
PROPERTY LINE	PL PL	PL PL
RIGHT OF WAY		
SETBACK		
BUILDING		
ASPHALT PAVEMENT		
EDGE OF GRAVEL		
CURB		
SIDEWALK		
TREE LINE		
FENCE	X X	X X
WATERLINE	W_X W_X	W W
SANITARY SEWER	SS_X SS_X	SS SS
STORM SEWER	SD_X SD_X	SD SD
UNDERGROUND UTILITIES	UU_X UU_X	UU UU
UNDERGROUND ELECTRIC	E_X E_X	E E
GAS	G_X G_X	G G
COMMUNICATION	CU_X CU_X	C C
SANITARY MANHOLE	S	S
STORM MANHOLE	D	D
CATCH BASIN	CB	CB
COMMUNICATION MANHOLE	J	J
COMMUNICATION JUNCTION BOX	C	C
TRACER WIRE	TW	TW
FIRE HYDRANT		
WATER VALVE	W	
CURB STOP		
UTILITY POLE		
LIGHT POLE		
BUILDING LIGHT		

GENERAL NOTES:

1. UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN. PRIOR TO CONSTRUCTION CONTACT UNDERGROUND UTILITIES CALL CENTER OF NEW YORK FOR EXACT LOCATION OF ALL UNDERGROUND UTILITIES, (1-800-962-7962). CONTRACTOR IS RESPONSIBLE FOR LOCATING AND WORKING WITH THE APPROPRIATE UTILITY COMPANIES PRIOR TO CONSTRUCTION.
2. THE ONSITE TOPOGRAPHIC, UTILITY, AND PLANIMETRIC SURVEY FOR THE PROJECT AREA WAS CONDUCTED BY AUBERTINE AND CURRIER, PLLC ON 02/5, 2/6 AND 2/9/2015. UTILITY LOCATIONS WERE PLOTTED FROM DESIGN DRAWINGS THAT WERE PREPARED BY WILBUR D. THESIER, P.E. PC AND TECTONICS NORTHEAST INC. FOR THE W.L.D.C. SPECULATION BUILDING PROJECT, DATED 10/12/07 AND LAST REVISED 05/15/08 AND RECORD DRAWINGS OF MULTIPLE PROJECTS THAT ARE ON FILE IN THE CITY ENGINEERING DEPARTMENT. VERTICAL DATUM IS BASED ON NGVD29 DATUM AND THE HORIZONTAL DATUM IS BASED ON NAD83(96).
3. ALL OUT-OF-SCOPE AREAS DISTURBED BY THE CONTRACTOR'S OPERATIONS WILL BE RESTORED TO CONDITIONS EQUAL TO OR BETTER THAN THAT PRIOR TO CONSTRUCTION. OUTSIDE OF PROPERTY BOUNDARIES AND EASEMENT AREAS THE CONTRACTOR IS REMINDED THAT HE MUST OBTAIN WRITTEN AUTHORIZATION TO USE PRIVATE PROPERTY AND ASSUMES ALL LIABILITY HIMSELF.
4. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE CHARACTERISTICS AND EXTENT OF SUBSURFACE SOILS, ROCK, WATER TABLE LEVELS, ETC., PRIOR TO BIDDING.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND BONDS NECESSARY TO OBTAIN SAID PERMITS WHERE APPLICABLE.
6. SITE CONTRACTOR TO PROVIDE EROSION AND DUST CONTROL AS REQUIRED.
7. A LICENSED LAND SURVEYOR SHALL BE RETAINED FOR ALL UTILITY AND FIELD STAKEOUT AT THE CONTRACTORS EXPENSE.
8. PAVED AREAS WILL BE SAWCUT PRIOR TO EXCAVATION AND PAVING OPERATIONS. SAW CUT AREAS WILL BE TACK COATED PRIOR TO PAVING. TACK COAT SHALL MEET THE REQUIREMENTS OF ASPHALT OF ASPHALT EMULSION FOR TACK COAT, NYSDOT TABLE 702-9.
9. CONTRACTOR SHALL MAINTAIN ALL EROSION CONTROL MEASURES THROUGHOUT CONSTRUCTION UNTIL ESTABLISHMENT OF VEGETATIVE COVER. RUN-OFF CONTAINING SEDIMENTS FROM DISTURBED AREAS OF THE SITE SHALL NOT BE ALLOWED DIRECTLY INTO NATURAL STREAM CHANNELS.
10. ALL TREES AND WETLANDS TO REMAIN SHALL BE PROTECTED BY THE CONTRACTOR. CONSTRUCTION ACTIVITIES ADJACENT TO TREES SHALL BE CONDUCTED TO REDUCE THE IMPACT TO TREES TO THE MAXIMUM EXTENT PRACTICAL. ANY DAMAGE TO EXISTING TREES SHALL BE REPAIRED OR THE TREE REPLACED, AS DIRECTED BY THE OWNER AT THE CONTRACTORS EXPENSE.
11. CONTRACTOR SHALL PERFORM ALL ROADWAY CONNECTION WORK IN ACCORDANCE WITH NYSDOT SPECIFICATIONS. ALL ROADWAY WORK SHALL BE IN ACCORDANCE WITH NYSDOT MAINTENANCE AND PROTECTION OF TRAFFIC REGULATIONS, INCLUDING FLAGMEN, BARRICADES, WARNING SIGNS/LIGHTS, ETC., WHERE WARRANTED.
12. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL AND PROPER DISPOSAL, AT A NYSDEC ACCEPTABLE LOCATION, OF ALL MATERIALS NOT REUSED AS TRENCH BACKFILL.
13. EXCAVATIONS SHALL BE TO DEPTHS SHOWN ON DRAWINGS. ALL UNSTABLE OR UNSUITABLE MATERIAL SHALL BE EXCAVATED AND REMOVED TO SUCH DEPTH AS REQUIRED TO PROVIDE SUFFICIENT BEARING CAPACITY. OVEREXCAVATED AREAS SHALL BE BACKFILLED WITH SUITABLE MATERIAL.
14. COMPACTION OF PIPE BEDDING AND BACKFILL MATERIAL SHALL BE BY MEANS OF HAND-GUIDED POWER DRIVEN OR DRUM-TYPE OR PLATE TAMPERS. BACKFILLING SHOULD PROCEED IN ACCORDANCE WITH LIFT THICKNESSES AND COMPACTION REQUIREMENTS AS SHOWN ON THE DRAWINGS. UNLESS OTHERWISE NOTED ON THE DRAWINGS, COMPACTION REQUIREMENTS REFER TO PERCENT OF MAXIMUM DRY DENSITY AS DETERMINED IN ACCORDANCE WITH ASTM STANDARD D1557 METHOD "C". CARE SHOULD BE TAKEN TO SHAPE PIPE BEDDING TO FIT THE LOWER PART OF THE PIPE. BACKFILLING AND COMPACTION SHOULD PROGRESS EVENLY ALONG THE PIPE SIDEWALLS AND TO THE TOP OF PIPE BEDDING.
15. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES OF DIMENSIONS, ELEVATIONS AND LOCATIONS DURING PRECONSTRUCTION FIELD VERIFICATION. SUCH INFORMATION SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR VERIFICATION OR MODIFICATION OF THE PLANS.
16. THE CONTRACTOR SHALL PROVIDE AS-BUILT RECORD DRAWINGS INCLUDING, AS A MINIMUM, THE FOLLOWING INFORMATION AS WELL AS ALL REQUIREMENTS OF THE SPECIFICATION:
    - RECORD OF ALL UTILITIES ENCOUNTERED IN TRENCH EXCAVATION. INFORMATION SHALL INCLUDE DIAMETER OF UTILITY, DEPTH OF BURIAL AND LOCATION WITH REFERENCE TO NEAREST STRUCTURE SHOWN ON DRAWINGS. THIS INFORMATION SHALL BE KEPT CURRENT ON A WEEKLY BASIS. FAILURE TO DO SO MAY RESULT IN WITHHOLDING OF PAYMENTS.
    - DISTANCE TIES TO ALL MANHOLES, CLEANOUTS, BENDS AND CORPORATION STOPS.
    - UTILITY REPAIRS, SIDEWALK, AND DRIVEWAY REPLACEMENTS CENTERLINE.
    - STATIONS OF BENDS, CLEANOUTS, VALVES AND CORPORATION STOPS.
    - DENOTE BENCH MARK REFERENCE USED.
    - PERIODIC OFFSETS.
    - RECORD DETAILS NOT SHOWN ON THE ORIGINAL CONTRACT DOCUMENTS. ANY FIELD CHANGES OF DIMENSIONS AND DETAILS AND ANY CHANGES MADE BY CHANGE ORDER OR FIELD ORDER.
    - CERTIFICATE OF SUBSTANTIAL COMPLETION SHALL NOT BE ISSUED UNTIL AS-BUILT INFORMATION IS ACCEPTABLE.
    - PROVIDE TWO (2) SETS OF FINAL COMPLETE RECORD DRAWINGS. CONTRACTOR SHALL FURNISH AS-BUILT DATA ON PLAN SHEETS.
17. UPON COMPLETION OF STORM SEWER FACILITIES AND ESTABLISHMENT OF VEGETATION, THE NEW AND EXISTING STORM SYSTEMS RECEIVING RUNOFF FROM THIS SITE SHALL BE CLEANED OF DEBRIS. ONLY AT THIS TIME SHALL THE EROSION AND SEDIMENTATION CONTROL MEASURES BE REMOVED.

GRAPHIC SCALE

40 0 20 40 80 160

(IN FEET)
1 inch = 40 ft.

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STATE OF NEW YORK
MATTHEW REA MORSIA
081071
LICENSED PROFESSIONAL ENGINEER

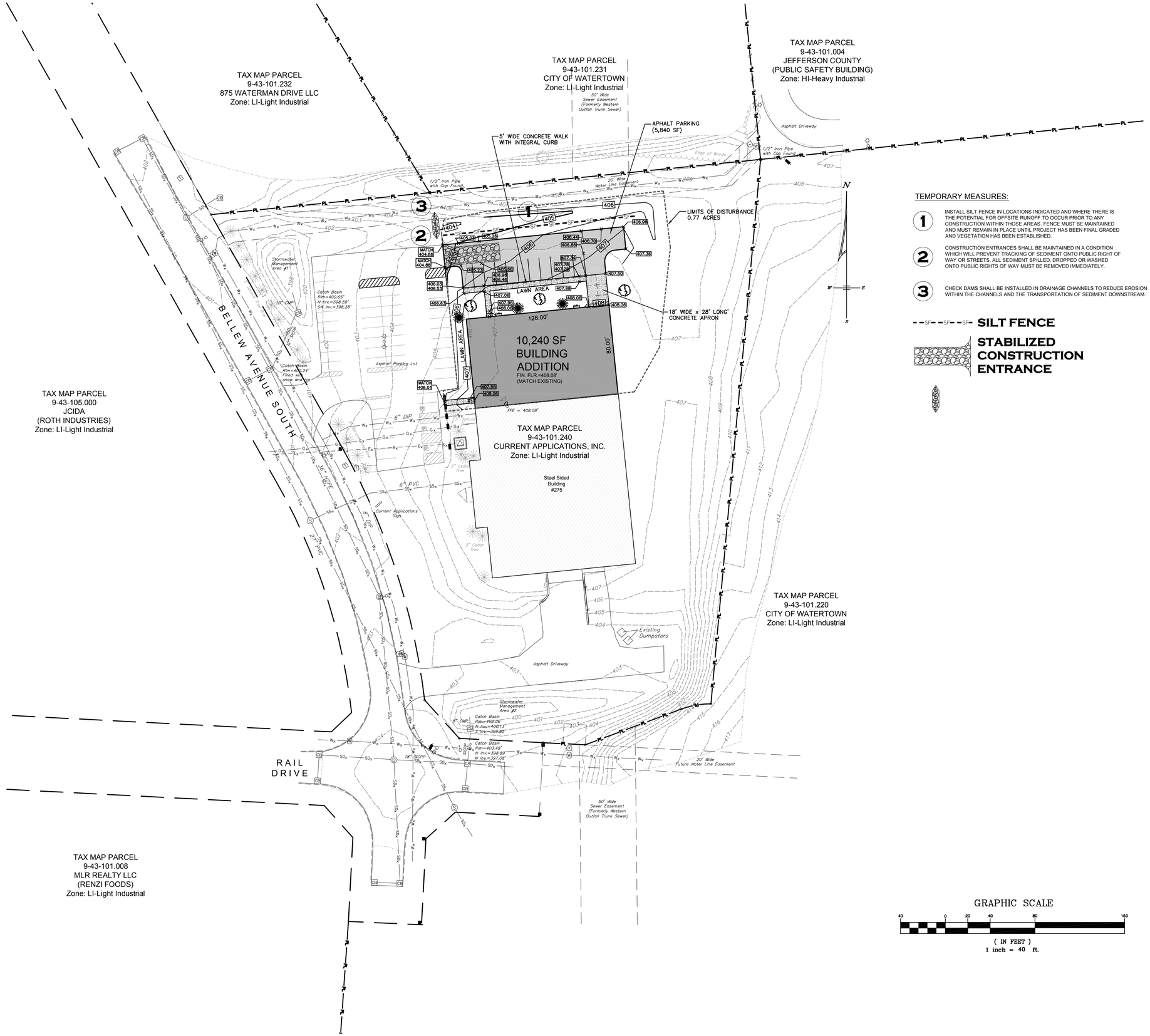
CURRENT APPLICATIONS ADDITION PROJECT

BELLEW AVENUE SOUTH
CITY OF WATERTOWN
JEFFERSON COUNTY, STATE OF NEW YORK

PROJECT NO: 2015-005
SCALE: AS NOTED
DRAWN BY: TFT
CHECKED BY: MRM
ISSUE DATES:
01/23/2015
02/17/2015

SITE, LANDSCAPING AND PHOTOMETRIC PLAN

CS100



TEMPORARY MEASURES:

1. INSTALL SILT FENCE IN LOCATIONS INDICATED AND WHERE THERE IS THE POTENTIAL FOR OFFSITE RUNOFF TO OCCUR PRIOR TO ANY CONSTRUCTION WITHIN THOSE AREAS. FENCE MUST BE MAINTAINED AND MUST REMAIN IN PLACE UNTIL PROJECT HAS BEEN FINAL GRADED AND VEGETATION HAS BEEN ESTABLISHED.
2. CONSTRUCTION ENTRANCES SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OF SEDIMENT ONTO PUBLIC RIGHT OF WAY OR STREETS. ALL SEDIMENT SPILLED, DROPPED OR WASHED ONTO PUBLIC RIGHTS OF WAY MUST BE REMOVED IMMEDIATELY.
3. CHECK DAMS SHALL BE INSTALLED IN DRAINAGE CHANNELS TO REDUCE EROSION WITHIN THE CHANNELS AND THE TRANSPORTATION OF SEDIMENT DOWNSTREAM.

SILT FENCE

STABILIZED CONSTRUCTION ENTRANCE

LEGEND	EXISTING	PROPOSED
5' CONTOUR	155	155
1' CONTOUR	154	154
PROPERTY LINE	PL PL	PL PL
RIGHT OF WAY		
SETBACK		
BUILDING		
ASPHALT PAVEMENT		
EDGE OF GRAVEL		
CURB		
SIDEWALK		
TREE LINE		
FENCE	X X	X X X
WATERLINE	W_X W_X	W W
SANITARY SEWER	SS_X SS_X	SS SS
STORM SEWER	SD_X SD_X	SD SD
UNDERGROUND UTILITIES	UU_X UU_X	UU UU
UNDERGROUND ELECTRIC	E_X E_X	E E
GAS	G_X G_X	G G
COMMUNICATION	CU_X CU_X	C C
SANITARY MANHOLE	S	S
STORM MANHOLE	D	D
CATCH BASIN	CB	CB
COMMUNICATION MANHOLE	J	J
COMMUNICATION JUNCTION BOX	C_X	C_X
TRACER WIRE	TW	TW
FIRE HYDRANT		
WATER VALVE	W	
CURB STOP		
UTILITY POLE		
LIGHT POLE		
BUILDING LIGHT		

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14. COMPACTION OF PIPE BEDDING AND BACKFILL MATERIAL SHALL BE BY MEANS OF HAND-GUIDED POWER DRIVEN OR DRUM-TYPE OR PLATE TAMPERS. BACKFILLING SHOULD PROCEED IN ACCORDANCE WITH LIFT THICKNESSES AND COMPACTION REQUIREMENTS AS SHOWN ON THE DRAWINGS. UNLESS OTHERWISE NOTED ON THE DRAWINGS, COMPACTION REQUIREMENTS REFER TO PERCENT OF MAXIMUM DRY DENSITY AS DETERMINED IN ACCORDANCE WITH ASTM STANDARD D1557 METHOD "C". CARE SHOULD BE TAKEN TO SHAPE PIPE BEDDING TO FIT THE LOWER PART OF THE PIPE. BACKFILLING AND COMPACTION SHOULD PROGRESS EVENLY ALONG THE PIPE SIDEWALLS AND TO THE TOP OF PIPE BEDDING.
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    - PROVIDE TWO (2) SETS OF FINAL COMPLETE RECORD DRAWINGS. CONTRACTOR SHALL FURNISH AS-BUILT DATA ON PLAN SHEETS.
17. UPON COMPLETION OF STORM SEWER FACILITIES AND ESTABLISHMENT OF VEGETATION, THE NEW AND EXISTING STORM SYSTEMS RECEIVING RUNOFF FROM THIS SITE SHALL BE CLEANED OF DEBRIS. ONLY AT THIS TIME SHALL THE EROSION AND SEDIMENTATION CONTROL MEASURES BE REMOVED.

GRAPHIC SCALE

40 0 20 40 80 160

(IN FEET)
1 inch = 40 ft.

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Watertown, New York 13601

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STATE OF NEW YORK
MATTHEW REA MORELLA
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LICENSED PROFESSIONAL ENGINEER

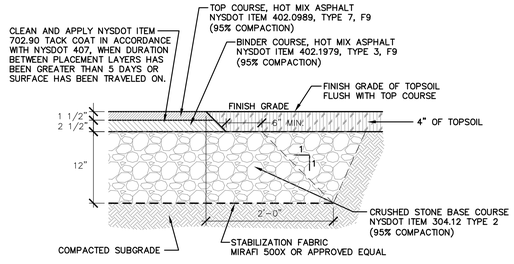
CURRENT APPLICATIONS ADDITION PROJECT

BELLEW AVENUE SOUTH
CITY OF WATERTOWN
JEFFERSON COUNTY, STATE OF NEW YORK

PROJECT NO:	2015-005
SCALE:	AS NOTED
DRAWN BY:	TFT
CHECKED BY:	MRM
ISSUE DATES:	01/23/2015 02/17/2015

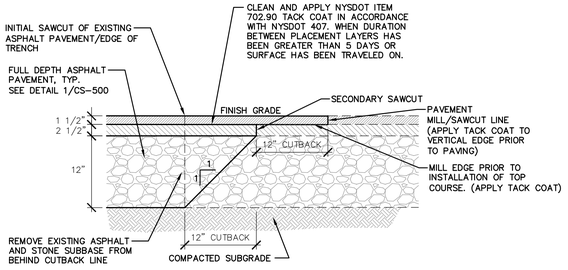
GRADING PLAN

CG100

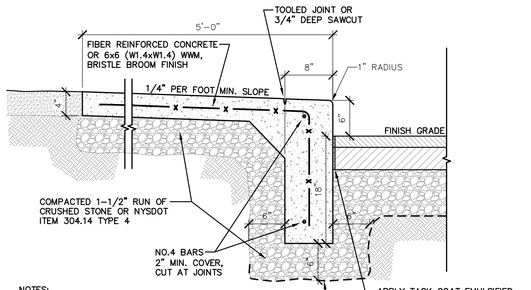


NOTES:
1. ALL HMA COMPACTION WILL BE TO 95% MADMTD (MIXTURE'S AVERAGE DAILY MAXIMUM THEORETICAL DENSITY) PER NYS DOT SPECIFICATIONS FOR HMA COMPACTION 402-3.07 BASE COURSE SHALL BE COMPACTED TO 95% MODIFIED PROCTOR MAXIMUM DENSITY.
2. FIELD VERIFICATION OF COMPACTION SHALL BE BY NUCLEAR DENSITY TESTING METHODS

1 TYPICAL ASPHALT PAVEMENT DETAIL
NOT TO SCALE

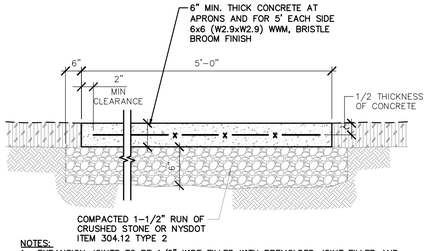


2 TYPICAL ASPHALT PAVEMENT JOINT DETAIL
NOT TO SCALE



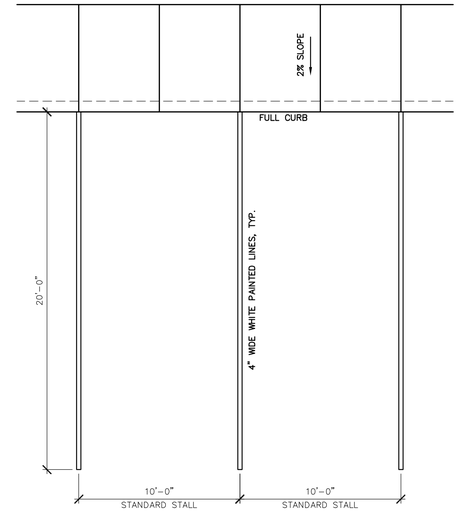
NOTES:
1. CONCRETE WALK AND CURB EXPANSION JOINTS TO COINCIDE AT 20' O.C. MAX., CONTRACTION JOINTS TO BE SPACED EVENLY AT 5' O.C. MAX. BOTH DIRECTIONS.
2. EXPANSION JOINTS TO BE 1/2" WDE FILLED WITH PREMOLDED JOINT FILLER AND SEALANT CONFORMING TO ASTM D1752 TYPE II.

3 TYPICAL INTEGRAL CURB AND WALK DETAIL
NOT TO SCALE

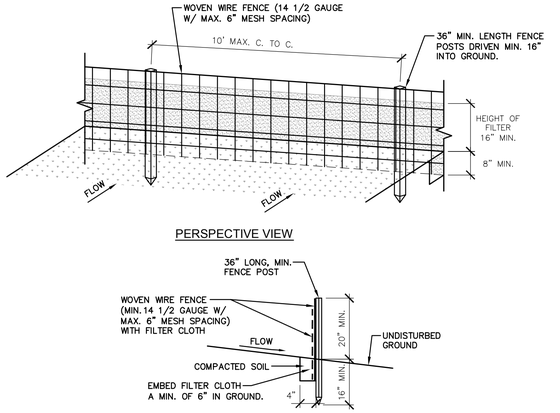


NOTES:
1. EXPANSION JOINTS TO BE 1/2" WDE FILLED WITH PREMOLDED JOINT FILLER AND SEALANT CONFORMING TO ASTM D1752 TYPE II.
2. CONTROL/CONTRACTION JOINTS SHALL BE TOOLED OR SAW CUT JOINT WITH A DEPTH OF 1/4 THE CONCRETE THICKNESS.

4 TYPICAL CONCRETE APRON DETAIL
NOT TO SCALE



5 TYPICAL PARKING STALL MARKINGS DETAIL
NOT TO SCALE



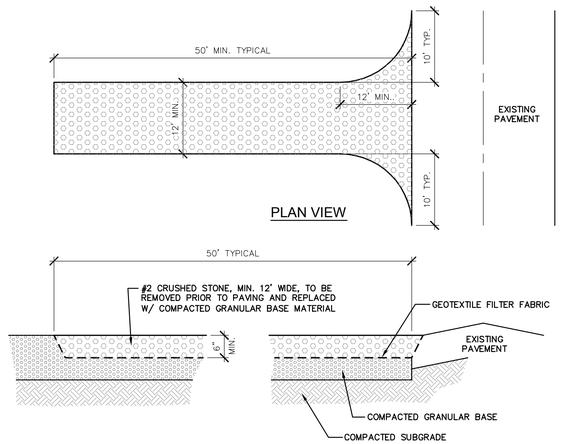
PERSPECTIVE VIEW

SECTION VIEW

CONSTRUCTION SPECIFICATIONS

1. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES. POSTS SHALL BE STEEL EITHER "T" OR "U" TYPE OR HARDWOOD.
2. FILTER CLOTH TO BE TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION. FENCE SHALL BE WOVEN WIRE, 12 1/2 GAUGE, 6" MAXIMUM MESH OPENING.
3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVER-LAPPED BY SIX INCHES AND FOLDED. FILTER CLOTH SHALL BE EITHER FILTER X, MIRAFI 100X, STABILINKA T140N, OR APPROVED EQUIVALENT.
4. PREFABRICATED UNITS SHALL BE GEOFAB, ENVIROFENCE, OR APPROVED EQUIVALENT.
5. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.

6 TYPICAL SILT FENCE DETAIL
NOT TO SCALE

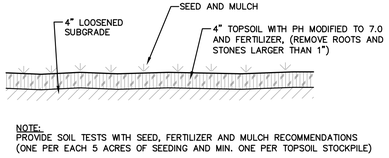


PLAN VIEW

CONSTRUCTION SPECIFICATIONS

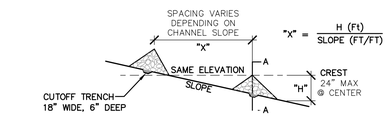
1. LENGTH – NOT LESS THAN 50 FEET (EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30 FOOT MINIMUM LENGTH WOULD APPLY).
2. THICKNESS – NOT LESS THAN SIX (6) INCHES.
3. WIDTH – TWELVE (12) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS. TWENTY-FOUR (24) FOOT IF SINGLE ENTRANCE TO SITE.
4. FILTER CLOTH – WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
5. SURFACE WATER – ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
6. MAINTENANCE – THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY, ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACTED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
7. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON A AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
8. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

7 TYPICAL OFFSITE SEDIMENT TRACKING DETAIL
NOT TO SCALE

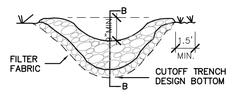


NOTE:
PROVIDE SOIL TESTS WITH SEED, FERTILIZER AND MULCH RECOMMENDATIONS (ONE PER EACH 5 ACRES OF SEEDING AND MIN. ONE PER TOPSOIL STOCKPILE)

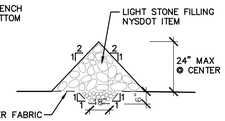
8 TYPICAL TOPSOIL REPLACEMENT DETAIL
NOT TO SCALE



PROFILE
NOT TO SCALE



SECTION A-A
NOT TO SCALE



SECTION B-B
NOT TO SCALE

CONSTRUCTION SPECIFICATIONS

1. STONE WILL BE PLACED ON A FILTER FABRIC FOUNDATION TO THE LINES, GRADES AND LOCATIONS SHOWN IN THE PLAN.
2. SET SPACING OF CHECK DAMS TO ASSUME THAT THE ELEVATIONS OF THE CREST OF THE DOWNSTREAM DAM IS AT THE SAME ELEVATION OF THE TOE OF THE UPSTREAM DAM.
3. EXTEND THE STONE A MINIMUM OF 1.5 FEET BEYOND THE DITCH BANKS TO PREVENT CUTTING AROUND THE DAM.
4. PROTECT THE CHANNEL DOWNSTREAM OF THE LOWEST CHECK DAM FROM SCOUR AND EROSION WITH STONE OR LINER AS APPROPRIATE.
5. ENSURE THAT CHANNEL APPURTENANCES SUCH AS CULVERT ENTRANCES BELOW CHECK DAMS ARE NOT SUBJECT TO DAMAGE OR BLOCKAGE FROM DISPLACED STONE. MAXIMUM DRAINAGE AREA 2 ACRES.

9 TYPICAL STONE CHECK DAM DETAIL
NOT TO SCALE

SPECIFICATIONS:

SEED

A. TEMPORARY SEED SPECIES: STATE CERTIFIED SEED FROM GRASS SPECIES, AS FOLLOWS:
   1. PERENNIAL RYE, 100%
   2. ANNUAL RYE, 100%
   3. 'AROOSTOOK' WINTER RYE, 100%
B. GRASS/LAWN AREA SEED SPECIES: STATE-CERTIFIED SEED OF GRASS SPECIES, AS FOLLOWS:
   1. KENTUCKY BLUE GRASS: 40%
   2. CREEPING RED FESCUE GRASS: 25%
   3. PERENNIAL RYE: 15%
   4. TALL FESCUE OR SMOOTH BROMEGRASS: 20%
C. WATERWAYS/DRAINAGE CHANNELS SEED SPECIES: STATE-CERTIFIED SEED OF GRASS SPECIES, AS FOLLOWS:
   1. PERENNIAL RYE: 60%
   2. TALL FESCUE OR SMOOTH BROMEGRASS: 40%
   3. REDTOP: 4%

PLANTING MATERIALS

A. TOPSOIL: ASTM D 5268, PH RANGE OF 6.5 TO 7.5, A MINIMUM OF 6 PERCENT ORGANIC MATERIAL CONTENT AND A MAXIMUM OF 20 PERCENT; FREE OF STONES 1 INCH (25 MM) OR LARGER IN ANY DIMENSION AND OTHER EXTRANEOUS MATERIALS HARMFUL TO PLANT GROWTH; NOT LESS THAN 20 PERCENT FINE TEXTURED MATERIAL C PASSING THE NO. 200 SIEVE, AND NOT MORE THAN 15 PERCENT CLAY; CONTAIN LESS THAN 500 PPM SOLUBLE SALTS.
   1. TOPSOIL SOURCE: REUSE SURFACE SOIL STOCKPILED ON-SITE AND SUPPLEMENT WITH IMPORTED OR MANUFACTURED TOPSOIL FROM OFF-SITE SOURCES WHEN QUANTITIES OR QUALITY IS INSUFFICIENT. VERIFY SUITABILITY OF STOCKPILED SURFACE SOIL TO PRODUCE TOPSOIL.
   2. TOPSOIL SOURCE: AMEND EXISTING IN-PLACE SURFACE SOIL TO PRODUCE TOPSOIL. VERIFY SUITABILITY OF SURFACE SOIL TO PRODUCE TOPSOIL. SURFACE SOIL MAY BE SUPPLEMENTED WITH IMPORTED OR MANUFACTURED TOPSOIL FROM OFF-SITE SOURCES.
B. INORGANIC SOIL AMENDMENTS:
   1. LIME: ASTM C 602, CLASS T OR O, AGRICULTURAL LIMESTONE CONTAINING A MINIMUM 80 PERCENT CALCIUM CARBONATE EQUIVALENT.
C. ORGANIC SOIL AMENDMENTS
   1. COMPOST: WELL-COMPOSTED, STABLE, AND WEED-FREE ORGANIC MATTER, PH RANGE OF 5.5 TO 8.
   2. PEAT: SPHAGNUM PEAT MOSS, PARTIALLY DECOMPOSED, FINELY DIVIDED OR GRANULAR TEXTURE, WITH PH RANGE OF 3.4 TO 4.8
   3. PEAT: FINELY DIVIDED OR GRANULAR TEXTURE, WITH PH RANGE OF 6 TO 7.5, CONTAINING PARTIALLY DECOMPOSED MOSS PEAT, NATIVE PEAT, OR REED-SEDGE PEAT AND HAVING WATER-ABSORBING CAPACITY OF 1100 TO 2000 PERCENT.
D. FERTILIZER:
   1. COMMERCIAL FERTILIZER: COMMERCIAL-GRADE COMPLETE FERTILIZER OF NEUTRAL CHARACTER, CONSISTING OF FAST- AND SLOW-RELEASE NITROGEN, 50 PERCENT DERIVED FROM NATURALORGANIC SOURCES OF UREA FORMALDEHYDE, PHOSPHOROUS, AND POTASSIUM IN THE FOLLOWING COMPOSITION: COMPOSITION: 1 LB/1000 SQ. FT. (0.45 KG/92.9 SQ. M) OF ACTUAL NITROGEN, 4 PERCENT PHOSPHOROUS, AND 2 PERCENT POTASSIUM, BY WEIGHT.
   2. SLOW-RELEASE FERTILIZER: GRANULAR OR PELLETED FERTILIZER CONSISTING OF 50 PERCENT WATER-INSOLUBLE NITROGEN, PHOSPHORUS, AND POTASSIUM IN THE FOLLOWNG COMPOSITION:
   3. COMPOSITION: 20 PERCENT NITROGEN, 10 PERCENT PHOSPHOROUS, AND 10 PERCENT POTASSIUM, BY WEIGHT.
E. MULCHES:
   1. STRAW MULCH: PROVIDE AIR-DRY, CLEAN, MILDEW- AND SEED-FREE, SALT HAY OR THRESHED STRAW OF WHEAT, RYE, OATS, OR BARLEY. PEAT MULCH MAY BE REQUIRED IF SEEDED LAWNS ARE SUBJECT TO HOT, DRY WEATHER OR DRYING WNDS WITHIN 30 DAYS OF PLANTING.
   2. PEAT MULCH: SPHAGNUM PEAT MOSS, PARTIALLY DECOMPOSED, FINELY DIVIDED OR GRANULAR TEXTURE, WITH PH RANGE OF 3.4 TO 4.8.
   3. PEAT MULCH: FINELY DIVIDED OR GRANULAR TEXTURE, WITH PH RANGE OF 6 TO 7.5, CONTAINING PARTIALLY DECOMPOSED MOSS PEAT, NATIVE PEAT, OR REED-SEDGE PEAT AND HAVING WATER-ABSORBING CAPACITY OF 1100 TO 2000 PERCENT.
   4. COMPOST MULCH: WELL-COMPOSTED, STABLE, AND WEED-FREE ORGANIC MATTER, PH RANGE OF 5.5 TO 8.
   5. UTILIZE MULCH ANCHORING METHOD OR MATERIAL AS REQUIRED BY NYS STANDARD SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL. (PEG & TWINE, MULCHING NETTING, WOOD CELLULOSE, TACKIFIER, OR MECHANICAL METHODS)

EXECUTION

LAWN PREPARATION

A. NEWLY GRADED SUBGRADES: LOOSEN SUBGRADE TO A MINIMUM DEPTH OF 4 INCHES (100 MM). REMOVE STONES LARGER THAN 1 INCH (25 MM) IN ANY DIMENSION AND STICKS, ROOTS, RUBBISH, AND OTHER EXTRANEOUS MATTER AND LEGALLY DISPOSE OF THEM OFF OWNER'S PROPERTY.
   1. APPLY SUPERPHOSPHATE FERTILIZER DIRECTLY TO SUBGRADE BEFORE LOOSENING.
   2. THOROUGHLY BLEND PLANTING SOIL MIX OFF-SITE BEFORE SPREADING OR SPREAD TOPSOIL, APPLY SOIL AMENDMENTS AND FERTILIZER ON SURFACE, AND THOROUGHLY BLEND PLANTING SOIL MIX.
   3. SPREAD PLANTING SOIL MIX TO A DEPTH OF 4 INCHES (150 MM) BUT NOT LESS THAN REQUIRED TO MEET FINISH GRADES AFTER LIGHT ROLLING AND NATURAL SETTLEMENT. DO NOT SPREAD IF PLANTING SOIL OR SUBGRADE IS FROZEN, MUDDY, OR EXCESSIVELY WET.
B. FINISH GRADING: GRADE PLANTING AREAS TO A SMOOTH, UNIFORM SURFACE PLANE WITH LOOSE, UNIFORMLY FINE TEXTURE. GRADE TO WITHIN PLUS OR MINUS 1/2 INCH (13 MM) OF FINISH ELEVATION. ROLL AND RAKE, REMOVE RIDGES, AND FILL DEPRESSIONS TO MEET FINISH GRADES. LIMIT FINE GRADING TO AREAS THAT CAN BE PLANTED IN THE IMMEDIATE FUTURE.
C. MOISTEN PREPARED LAWN AREAS BEFORE PLANTING IF SOIL IS DRY. WATER THOROUGHLY AND ALLOW SURFACE TO DRY BEFORE PLANTING. DO NOT CREATE MUDDY SOIL.
D. RESTORE AREAS IF ERODED OR OTHERWISE DISTURBED AFTER FINISH GRADING AND BEFORE PLANTING.

TEMPORARY EROSION AND SEDIMENTATION CONTROL

A. PROVIDE TEMPORARY EROSION AND SEDIMENTATION CONTROL MEASURES TO PREVENT SOIL EROSION AND DISCHARGE OF SOIL-BEARING WATER RUNOFF OR AIRBORNE DUST TO ADJACENT PROPERTIES AND WALKWAYS, ACCORDING TO A SEDIMENT AND EROSION CONTROL PLAN, SPECIFIC TO THE SITE THAT COMPLIES WITH NYS DEC SPDES GENERAL PERMIT FOR STORMWATER DISCHARGES FROM CONSTRUCTION ACTIVITY, GP-01-10-001.
B. THE OPERATOR SHALL INITIATE STABILIZATION MEASURES AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THEN 14 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAVE TEMPORARILY OR PERMANENTLY CEASED. THIS REQUIREMENT DOES NOT APPLY IN THE FOLLOWING INSTANCES;
   1. WHERE THE INITIATION OF STABILIZATION MEASURES BY THE 14TH DAY AFTER CONSTRUCTION ACTIVITY TEMPORARILY OR PERMANENTLY CEASED IS PRECLUDED BY SNOW COVER OR FROZEN GROUND CONDITIONS, STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE;
C. SEED WITH 24 HOURS OF DISTURBANCE OR LOOSEN SCARIFY THE SOIL SURFACE PRIOR TO SEEDING.
D. SPRING, SUMMER OR EARLY FALL TEMPORARY SEEDING: ANNUAL OR PERENNIAL RYE GRASS AT A RATE OF 30 LBS/AC. (PERENNIAL RYE GRASS MUST BE UTILIZED WHERE FINAL GRADING ACTIVITIES WILL NOT BE COMPLETED UNTIL THE FOLLOWING SPRING.)
E. LATE FALL OR EARLY WINTER TEMPORARY SEEDING: CERTIFIED 'AROOSTOOK' WINTER RYE AT A RATE OF 100 LBS/AC.
F. MULCH HAY OR STRAW AT A RATE OF 2 TONS/ACRE (APPROXIMATELY 90 BALES PER ACRE). MULCH ANCHORING WILL BE REQUESTED WHERE WIND OR AREAS OF WATER ARE OF CONCERN. WOOD FIBER HYDROMULCH OR OTHER SPRAYABLE PRODUCTS APPROVED FOR EROSION CONTROL MAY BE USED IF APPLIED ACCORDING TO MANUFACTURERS SPECIFICATIONS.

PERMANENT SEEDING

A. SOWING RATES VARY WITH GRASS SPECIES AND MIXTURES.
B. SOW SEED AT THE RATE OF 6 LB/1000 SQ. FT. (250 LB/AC).
C. RAKE SEED LIGHTLY INTO TOP 1/8 INCH (3 MM) OF TOPSOIL, ROLL LIGHTLY, AND WATER WITH FINE SPRAY.
D. MULCH WITH STRAW AT A RATE OF 2 TONS/ACRE (APPROXIMATELY 90 BALES PER ACRE). MULCH ANCHORING WILL BE REQUESTED WHERE WIND OR AREAS OF WATER ARE OF CONCERN. WOOD FIBER HYDROMULCH OR OTHER SPRAYABLE PRODUCTS APPROVED FOR EROSION CONTROL MAY BE USED IF APPLIED ACCORDING TO MANUFACTURERS SPECIFICATIONS.

SATISFACTORY LAWNS

A. SATISFACTORY SEEDED LAWN: AT END OF MAINTENANCE PERIOD, A HEALTHY, UNIFORM, CLOSE STAND OF GRASS HAS BEEN ESTABLISHED, FREE OF WEEDS AND SURFACE IRREGULARITIES, WITH COVERAGE EXCEEDING 90 PERCENT OVER ANY 10 SQ. FT. (0.92 SQ. M) AND BARE SPOTS NOT EXCEEDING 5 BY 5 INCHES (125 BY 125 MM.)
B. VEGETATION SHALL BE ESTABLISHED AS SOON AFTER CONSTRUCTION AS POSSIBLE TO ENSURE PROTECTION FROM EROSION. IF RILLING OCCURS, REGRADE AND USE FABRIC OR JUTE MESH TO PROTECT AREA.
C. REESTABLISH LAWNS THAT DO NOT COMPLY WITH REQUIREMENTS AND CONTINUE MAINTENANCE UNTIL LAWNS ARE SATISFACTORY.

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CITY OF WATERTOWN
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ISSUE DATES:
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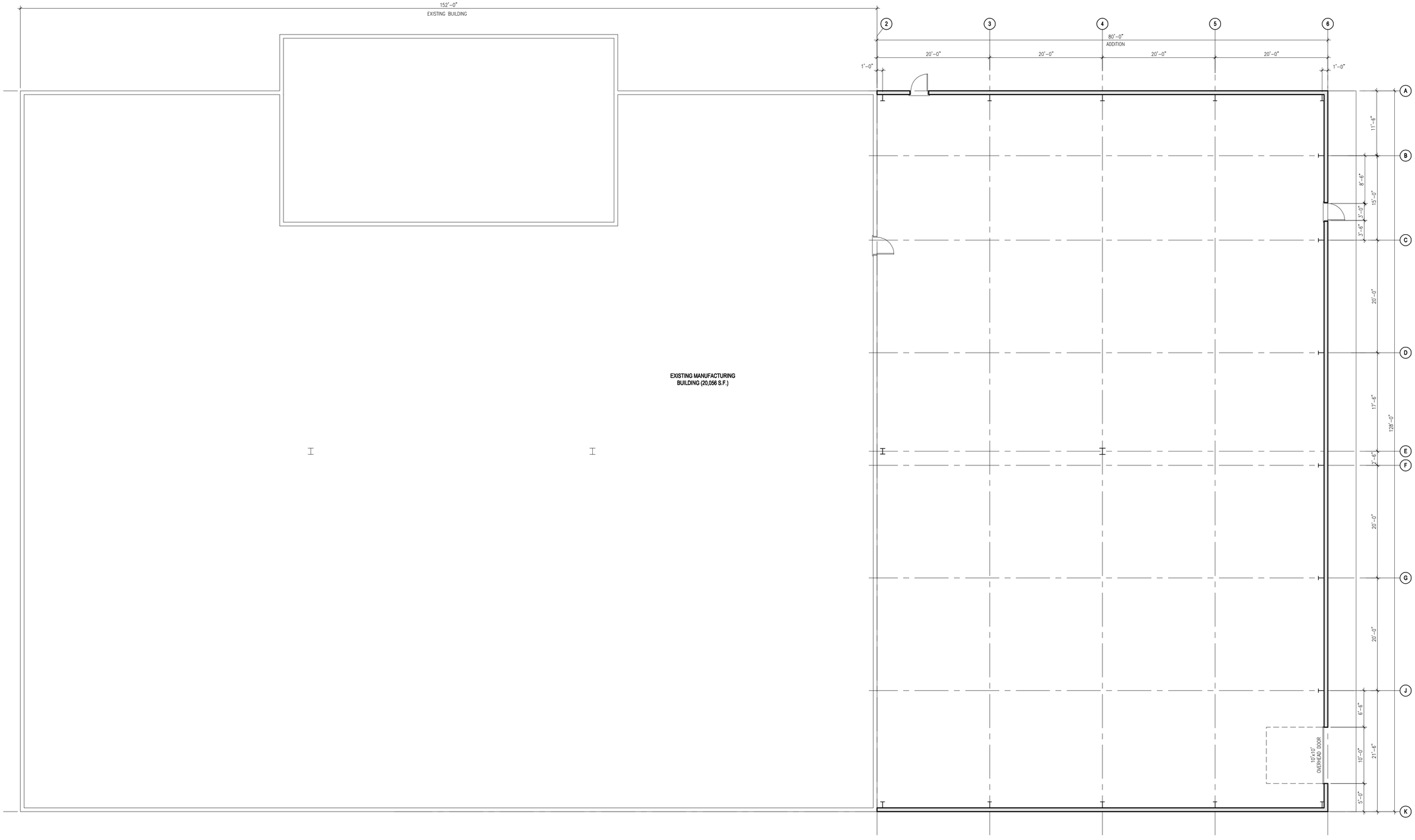
02/17/2015

SITE DETAILS

CS500



A FLOOR PLAN
1/8"=1'-0"

PROGRESS PRINT
NOT FOR CONSTRUCTION

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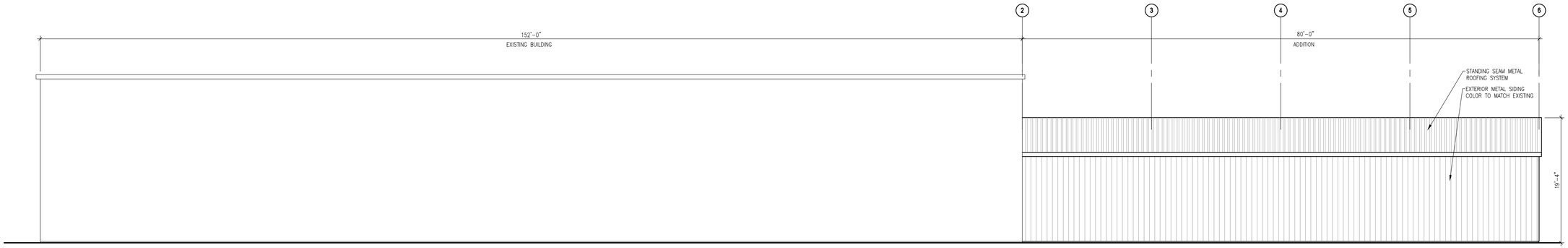
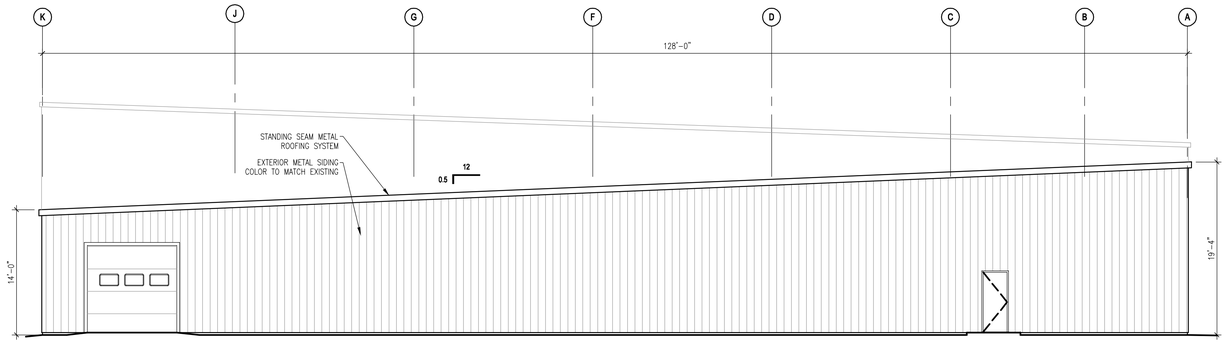
FLOOR PLAN

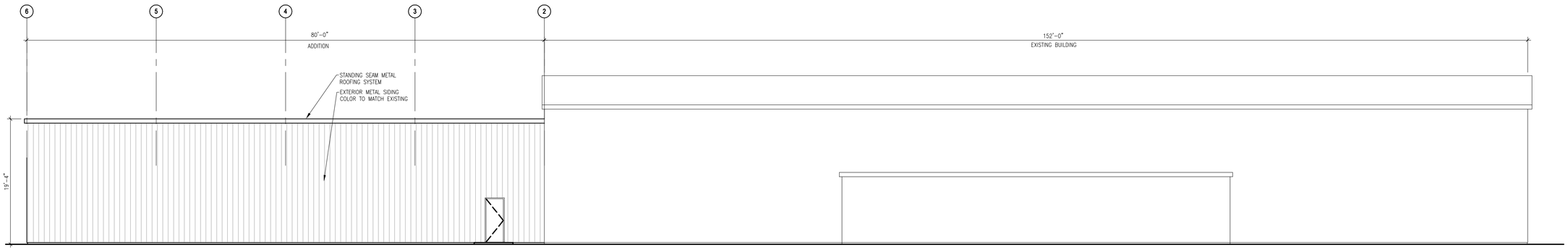
A100



1 EAST ELEVATION
1/8"=1'-0"



2 NORTH ELEVATION
1/8"=1'-0"



3 WEST ELEVATION
1/8"=1'-0"

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EXTERIOR ELEVATIONS

A200