



ARCHITECTURE
ENGINEERING
LAND SURVEYING

21 October 2014

Mr. Justin Wood, P.E.
City Engineer
Room 305 – City Hall
245 Washington St
Watertown, NY 13601

Re: Site Plan Submission
Proposed Convenience Store – Washington Street

File: 2014-033E

Dear Mr. Wood:

On behalf of Edward Valentine, we are submitting the following materials for Site Plan review at the 4 November 2014 City Planning Board meeting:

- 3 full size sets of Site Development Plans for Departmental Review;
- 3 full size Topographic Surveys and 13 – 11"x17" copies;
- 3 full size Preliminary Architectural Plans and 13 – 11"x17" copies by JS Hagan Architect;
- 13 -11"x17" sets of Site Plans;
- 16 Signed and Sealed Engineering Reports;
- City of Watertown Site Plan Application, including Short EAF, and \$50 Application Fee.

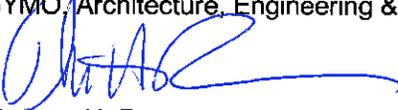
The project is located on tax parcel #14-26-102.1 in the City of Watertown.

The proposed development consists of a Nice and Easy Convenience Store with Tim Horton's Bakery (5,800 SF) and related utilities and appurtenances required for site plan approval. The proposed facility will include 12 fueling stations.

The developer plans on beginning construction in the Spring of 2015.

If there are any questions or you require additional information, please feel free to contact our office.

Sincerely,
GYMO, Architecture, Engineering & Land Surveying, PC



Thomas H. Ross
Design Engineer

Attachments

pc: Patrick J. Scordo, P.E. - GYMO, PC
Jim Hagan, AIA - JS Hagan Architect
Ed Valentine, John Valentine

220 Sterling Street Watertown, New York 13601
Tel: (315) 788-3900 Fax: (315) 788-0668
E-mail: gymopc@gymopc.com

Edward G. Olley, Jr., AIA
William P. Plante, PLS
Patrick J. Scordo, PE
Scott W. Soules, AIA
Ryan G. Churchill, PE

Gregory F. Ashley, PLS
Stephen J. Gracey, PLS

In Consultation
Leo F. Gozalkowski, PLS
Stephen W. Yaussi, AIA



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CITY OF WATERTOWN SITE PLAN APPLICATION PROCESS

The applicant is responsible for completeness of application and inclusion of all required information.

****INCOMPLETE APPLICATIONS WILL NOT BE PROCESSED****

In order to expedite the Site Plan review process, all applicants are encouraged to have a pre-application meeting with Planning & Engineering staff. Staff can be reached at (315) 785-7740.

In the interest of expediting site plan approvals, the City of Watertown wishes to advise you of the procedures in applying for these referrals:

A. Fill out the Site Plan / Site Plan Waiver - Determination Flow Chart below:

1. Is the use a one, two, or three family dwelling?
 YES (Site Plan Review is **not** required. You may apply directly for Building Permit.)
 NO (Go to question 2)
2. Is your building or parking lot construction or expansion less than or equal to 400 sq. ft.?
 YES (Site Plan Review is not required. You may apply directly for Building Permit.)
 NO (Go to question 3)
3. Does your building or parking lot construction or expansion exceed 2500 sq. ft.?
 YES (Site Plan Review required. Submit the Site Plan Application Form.)
 NO (Go to question 4)
4. Is your proposed building the first on the lot?
 YES (Site Plan Review required. Submit the Site Plan Application Form.)
 NO (Go to question 5)
5. Does your project involve a change in the property boundaries?
 YES (Site Plan Review required. Submit the Site Plan Application Form.)
 NO (Go to question 6)
6. Does your building or parking lot construction or expansion change or impair the overall grading, circulation, drainage, utility services, and appearance and visual effect of the property?
 YES (Site Plan Review required. Submit the Site Plan Application Form.)
 NO (*Site Plan Waiver allowed. Submit the Site Plan Waiver Form.)

* The City of Watertown Planning Board reserves the right to require Site Plan Review.

B. SITE PLAN APPROVAL SUBMITTAL REQUIREMENTS*

1. **3 complete, collated sets of the site plan application package** that includes the following documents:
 - a. Cover letter explaining the proposal.
 - b. Completed Site Plan Application Form.
 - c. Full size copies of all required plans (24"x36"), including 1 stamped & signed original.
 - d. Engineering Report.

2. **13 complete, collated sets of the site plan application package** that includes the following documents:
 - a. Cover letter explaining the proposal.
 - b. Completed Site Plan Application Form.
 - c. Reduced size copies of all required plans (11"x17") if they are legible. (otherwise submit full size sets)

3. **An electronic (pdf) copy** of the entire site plan application package to include the following:
 - a. A single, combined pdf containing the cover letter, the site plan application form and the Engineering Report.
 - b. A single, combined pdf containing all of the plan sheets and drawings.
 - c. The pdf may be submitted via email or on a CD.

Note: When Jefferson County Planning Board (239-M) Review is necessary, one additional full size set as described in # 1 above is required.

*Planning Board Recommendation and City Council Approval is required for Site Plans.

C. WAIVER OF SITE PLAN APPROVAL SUBMITTAL REQUIREMENTS**

1. **2 complete, collated sets of the site plan application package** that includes the following documents:
 - a. Cover letter explaining the proposal.
 - b. Completed Site Plan Waiver Application Form.
 - c. Full size copies of all required plans (24"x36"), including 1 signed original.

2. **8 complete, collated sets of the site plan application package** that includes the following documents:
 - a. Cover letter explaining the proposal.
 - b. Completed Site Plan Waiver Application Form.
 - c. Reduced size copies of all required plans (11"x17") if they are legible. (otherwise submit full size sets)

3. **An electronic (pdf) copy** of the entire site plan waiver application package to include the following:
 - a. A single, combined pdf containing the cover letter and the site plan waiver application form.
 - b. A single, combined pdf containing all of the plan sheets and drawings.
 - c. The pdf may be submitted via email or on a CD.

** Site Plan Approval of City Council may be waived by the City Planning Board.

D. Address submittals to:

Kurt W. Hauk, P.E.
 City Engineer
 Room 305, City Hall
 245 Washington Street
 Watertown, NY 13601

E. A **\$50.00** application fee must accompany the submittal.

A **\$50.00** application fee must accompany each resubmittal. You will be notified by the Engineering Department if an application requires a resubmittal.

Make checks payable to the City of Watertown.

F. All Site Plan submittals must be received by the City Engineer at least 14 calendar days prior to the next Planning Board Meeting; 21 calendar days if Jefferson County Planning Board action is necessary. Failure to meet the submittal deadline will result in **not** making the agenda for the upcoming Planning Board Meeting. **THERE ARE NO EXCEPTIONS.** The City Planning Board meets on the first Tuesday of each month at 3:00 P.M. in the City Council Chambers on the 3rd Floor of City Hall.

G. 2014 Meeting Schedules.

CITY OF WATERTOWN PLANNING BOARD 2014 (1 ST TUES. MONTH @ 3:00 PM)		CITY OF WATERTOWN CITY COUNCIL 2014 (1 ST & 3 RD MONDAY @ 7 PM)		JEFFERSON COUNTY PLANNING BOARD 2014 (LAST TUES. MONTH)	
MEETING DATE	DEADLINE	MEETING DATE		MEETING DATE	DEADLINE
Jan. 7	Dec. 24	Jan. 6, 20		Jan. 28	Jan. 14
Feb. 4	Jan. 21	Feb. 3, 17*		Feb. 25	Feb. 11
March 4	Feb. 18	March 3, 17		March 25	March 11
April 1	March 18	Apr. 7, 21		April 29	April 15
May 6	April 22	May 5, 19		May 27	May 13
June 3	May 20	Jun. 2, 16		June 24	June 10
July 1	June 17	July 7, 21		July 29	July 15
Aug. 5	July 22	Aug. 4, 18		Aug. 26	Aug. 12
Sept. 2	Aug. 19	Sept. 1*, 15		Sept. 30	Sept. 16
Oct. 7	Sept. 23	Oct. 6, 20		Oct. 28	Oct. 14
Nov. 4	Oct. 21	Nov. 3, 17		Nov. 25	Nov. 11
Dec. 2	Nov. 18	Dec. 1, 15		Dec. 30	Dec. 16

* = Meeting Date changed due to Holiday



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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: Nice and Easy - Washington Street

Tax Parcel Number: 14-26-102.1

Property Address: VL-10 Washington Street, Watertown

Existing Zoning Classification: Commercial

OWNER OF PROPERTY

Name: KDM Alliance, LLC

Address: 566 Coffeen Street

Watertown, NY 13601

Telephone Number: (315) 782-1050

Fax Number: _____

APPLICANT

Name: Edward Valentine

Address: PO Box 840

Watertown, NY 13601

Telephone Number: (315) 782 - 0982

Fax Number: _____

Email Address: edwardvalentine@yahoo.com

ENGINEER/ARCHITECT/SURVEYOR

Name: Patrick J. Scordo, P.E. - GYMO, P.C.

Address: 220 Sterling Street

Watertown NY, 13601

Telephone Number: (315) 788 - 3900

Fax Number: (315) 788 - 0668

Email Address: pat@gymopc.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.
- 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”.
- 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.
- 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).

■ 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.
- Maintenance & protection and traffic plans & notes for all required work within City streets including driveways, water laterals, sanitary laterals, storm connections, etc. are provided.
- 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 ARCHITECTURAL 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.

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.
Survey and Grading Plan Vertical Datum matches Summit Wood.
No demolition proposed.
SWPPP and Stormwater Calculations are forthcoming.
DEC Approval to be forwarded upon receipt.
DOH Approval not anticipated.

617.20
Appendix B
Short Environmental Assessment Form

Instructions for Completing

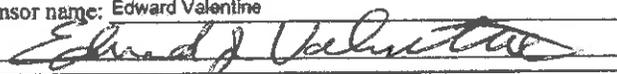
Part 1 - Project Information. The applicant or project sponsor is responsible for the completion of Part 1. Responses become part of the application for approval or funding, are subject to public review, and may be subject to further verification. Complete Part 1 based on information currently available.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

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

Part 1 - Project and Sponsor Information			
Name of Action or Project: Nice and Easy - Washington Street			
Project Location (describe, and attach a location map): Washington Street, at the intersection of Hudson Lane (Adjacent to Summit Wood Housing Development)			
Brief Description of Proposed Action: The project consists of the construction of a new approximately 5,800 SF convenience store on Washington Street in the City of Watertown. Sanitary and storm sewer facilities, water service, pedestrian and vehicular paths, landscaping, site lighting are proposed, among other amenities, to serve the project site.			
Name of Applicant or Sponsor: Edward Valentine		Telephone: (315) 782 - 0982	
		E-Mail: edwardvalentine@yahoo.com	
Address: PO Box 840			
City/PO: Watertown		State: NY	Zip Code: 13601
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.			NO <input type="checkbox"/>
			YES <input type="checkbox"/>
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: NYS Department of Environmental Conservation (Sewer), Town of Watertown			NO <input type="checkbox"/>
			YES <input checked="" type="checkbox"/>
3.a. Total acreage of the site of the proposed action?		_____ 2.91 acres	
b. Total acreage to be physically disturbed?		_____ 2.55 acres	
c. Total acreage (project site and any contiguous properties) owned or controlled by the applicant or project sponsor?		_____ 2.91 acres	
4. Check all land uses that occur on, adjoining and near the proposed action.			
<input type="checkbox"/> Urban <input type="checkbox"/> Rural (non-agriculture) <input type="checkbox"/> Industrial <input checked="" type="checkbox"/> Commercial <input checked="" type="checkbox"/> Residential (suburban)			
<input type="checkbox"/> Forest <input type="checkbox"/> Agriculture <input type="checkbox"/> Aquatic <input type="checkbox"/> Other (specify): _____			
<input type="checkbox"/> Parkland			

18. Does the proposed action include construction or other activities that result in the impoundment of water or other liquids (e.g. retention pond, waste lagoon, dam)? If Yes, explain purpose and size: _____	NO	YES
	<input checked="" type="checkbox"/>	<input type="checkbox"/>
19. Has the site of the proposed action or an adjoining property been the location of an active or closed solid waste management facility? If Yes, describe: _____	NO	YES
	<input checked="" type="checkbox"/>	<input type="checkbox"/>
20. Has the site of the proposed action or an adjoining property been the subject of remediation (ongoing or completed) for hazardous waste? If Yes, describe: _____	NO	YES
	<input checked="" type="checkbox"/>	<input type="checkbox"/>

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

Applicant/sponsor name: Edward Valentine Date: 10/16/2014
 Signature: 

Part 2 - Impact Assessment. The Lead Agency is responsible for the completion of Part 2. Answer all of the following questions in Part 2 using the information contained in Part 1 and other materials submitted by the project sponsor or otherwise available to the reviewer. When answering the questions the reviewer should be guided by the concept "Have my responses been reasonable considering the scale and context of the proposed action?"

	No, or small impact may occur	Moderate to large impact may occur
1. Will the proposed action create a material conflict with an adopted land use plan or zoning regulations?	<input type="checkbox"/>	<input type="checkbox"/>
2. Will the proposed action result in a change in the use or intensity of use of land?	<input type="checkbox"/>	<input type="checkbox"/>
3. Will the proposed action impair the character or quality of the existing community?	<input type="checkbox"/>	<input type="checkbox"/>
4. Will the proposed action have an impact on the environmental characteristics that caused the establishment of a Critical Environmental Area (CEA)?	<input type="checkbox"/>	<input type="checkbox"/>
5. Will the proposed action result in an adverse change in the existing level of traffic or affect existing infrastructure for mass transit, biking or walkway?	<input type="checkbox"/>	<input type="checkbox"/>
6. Will the proposed action cause an increase in the use of energy and it fails to incorporate reasonably available energy conservation or renewable energy opportunities?	<input type="checkbox"/>	<input type="checkbox"/>
7. Will the proposed action impact existing:	<input type="checkbox"/>	<input type="checkbox"/>
a. public / private water supplies?	<input type="checkbox"/>	<input type="checkbox"/>
b. public / private wastewater treatment utilities?	<input type="checkbox"/>	<input type="checkbox"/>
8. Will the proposed action impair the character or quality of important historic, archaeological, architectural or aesthetic resources?	<input type="checkbox"/>	<input type="checkbox"/>
9. Will the proposed action result in an adverse change to natural resources (e.g., wetlands, waterbodies, groundwater, air quality, flora and fauna)?	<input type="checkbox"/>	<input type="checkbox"/>

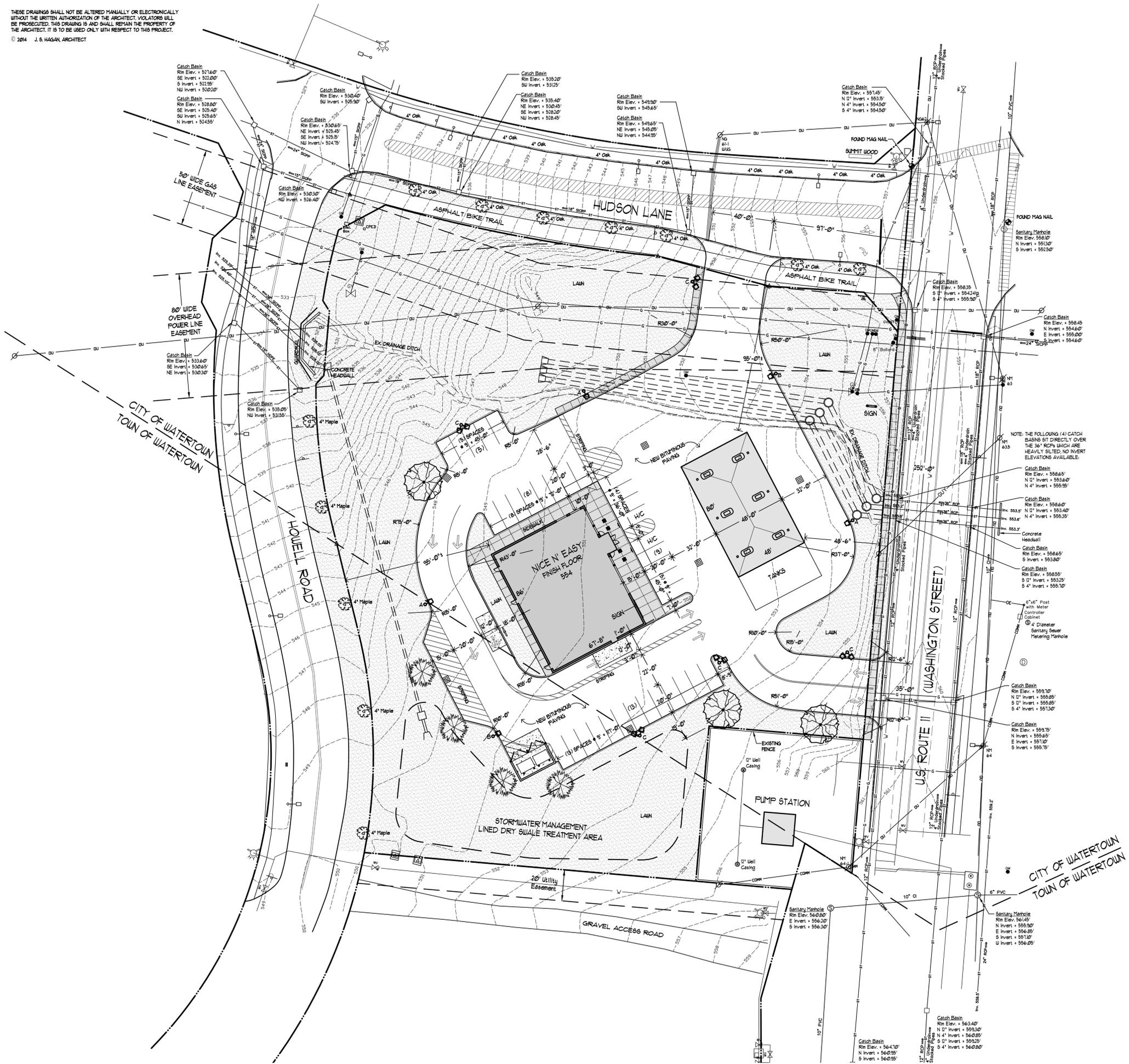
	No, or small impact may occur	Moderate to large impact may occur
10. Will the proposed action result in an increase in the potential for erosion, flooding or drainage problems?	<input type="checkbox"/>	<input type="checkbox"/>
11. Will the proposed action create a hazard to environmental resources or human health?	<input type="checkbox"/>	<input type="checkbox"/>

Part 3 - Determination of significance. The Lead Agency is responsible for the completion of Part 3. For every question in Part 2 that was answered "moderate to large impact may occur", or if there is a need to explain why a particular element of the proposed action may or will not result in a significant adverse environmental impact, please complete Part 3. Part 3 should, in sufficient detail, identify the impact, including any measures or design elements that have been included by the project sponsor to avoid or reduce impacts. Part 3 should also explain how the lead agency determined that the impact may or will not be significant. Each potential impact should be assessed considering its setting, probability of occurring, duration, irreversibility, geographic scope and magnitude. Also consider the potential for short-term, long-term and cumulative impacts.

<input type="checkbox"/>	Check this box if you have determined, based on the information and analysis above, and any supporting documentation, that the proposed action may result in one or more potentially large or significant adverse impacts and an environmental impact statement is required.
<input type="checkbox"/>	Check this box if you have determined, based on the information and analysis above, and any supporting documentation, that the proposed action will not result in any significant adverse environmental impacts.
_____	_____
Name of Lead Agency	Date
_____	_____
Print or Type Name of Responsible Officer in Lead Agency	Title of Responsible Officer
_____	_____
Signature of Responsible Officer in Lead Agency	Signature of Preparer (if different from Responsible Officer)

PRINT

THESE DRAWINGS SHALL NOT BE ALTERED MANUALLY OR ELECTRONICALLY WITHOUT THE WRITTEN AUTHORIZATION OF THE ARCHITECT. VIOLATORS WILL BE PROSECUTED. THIS DRAWING IS AND SHALL REMAIN THE PROPERTY OF THE ARCHITECT. IT IS TO BE USED ONLY WITH RESPECT TO THIS PROJECT.
 © 2014 J. S. HAGAN, ARCHITECT



LOCATION MAP
NO SCALE

EXISTING SITE CONDITIONS TAKEN FROM MAPS
 PREPARED BY GYMO PC DATED 31 JANUARY 2014

SITE TABULATION

SITE AREA	126,894 SQFT: 2.91 ACRES±
PROPOSED BUILDING	5,896 SQFT
SITE COVERAGE	1.61% (9,136 SQFT)
PARKING REQUIRED	5 / 1000 SQFT = 23 SPACES
PARKING PROVIDED	35 SPACES

LEGEND

- 555 --- EXISTING CONTOUR
- [550] NEW CONTOUR
- [553] NEW SPOT GRADE
- [---] NEW CONCRETE SIDEWALK
- [---] LAIN AREA
- [---] CONCRETE PAD
- [---] EXISTING TREE TO BE REMAIN
- [---] EXISTING TREE TO BE REMOVED
- [---] NEW DECIDUOUS TREE
- [---] NEW EVERGREEN TREE

- ☐ A CREE INC. LED LIGHT FIXTURE MOUNTED ON A 20' POLE W/ A 2' BASE AND 1 HEAD PER POLE. ARE-EDG-3"MB-DA-08-E-UL-UH-525
- ☐ B CREE INC. LED LIGHT FIXTURE MOUNTED ON A 20' POLE W/ A 2' BASE AND 1 HEAD PER POLE. ARE-EDG-4"MB-DA-08-E-UL-UH-525
- ☐ C CREE INC. LED LIGHT FIXTURE MOUNTED ON A 20' POLE W/ A 2' BASE AND 2 HEADS PER POLE. ARE-EDG-4"MB-DA-08-E-UL-UH-525

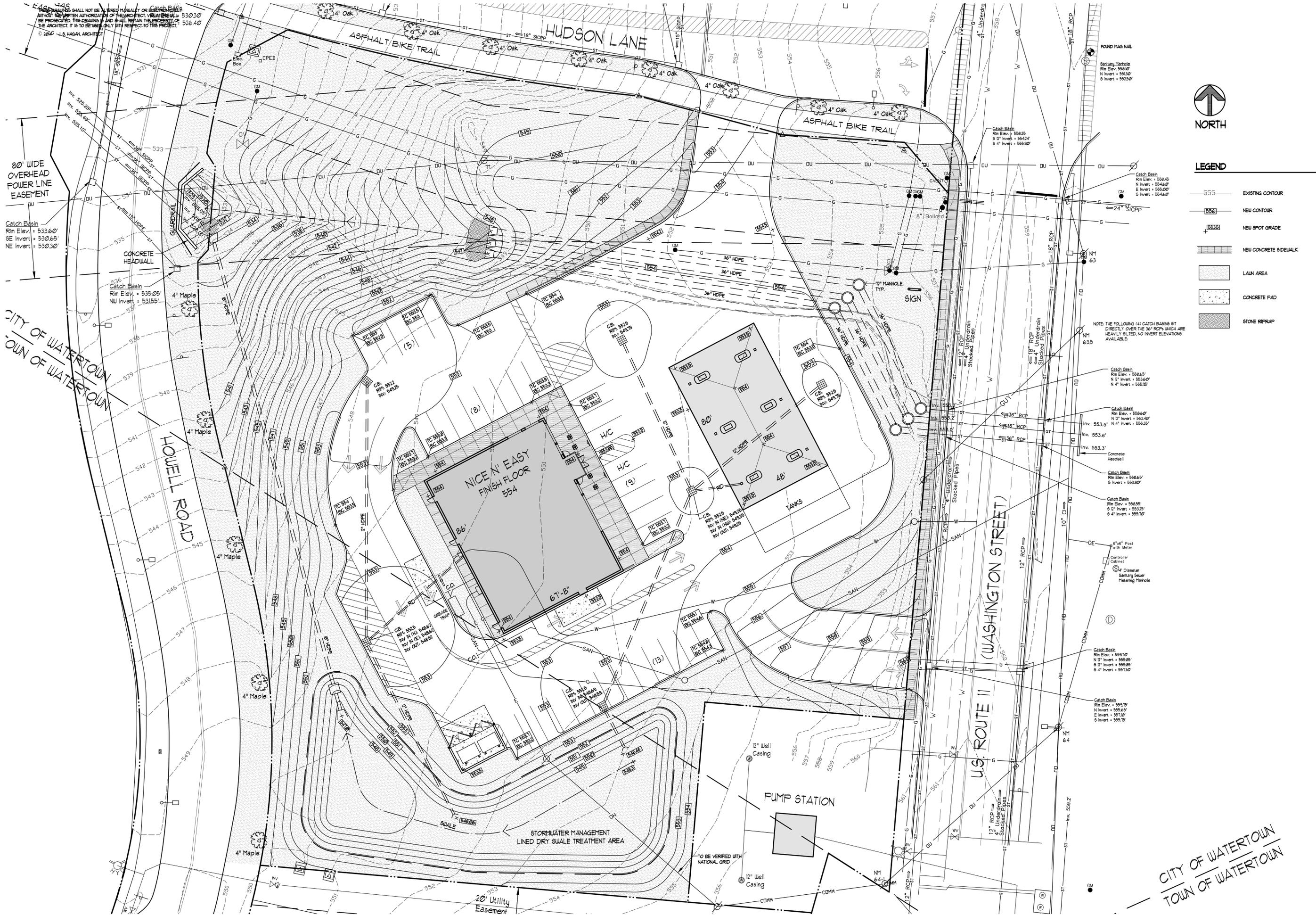
J.S. Hagan Architect, P.C.
design. build
 180 West 42nd Street, New York, NY 10018
 315-469-4382 Fax: 315-469-4276

20 OCTOBER 2014
 10 OCTOBER 2014
 20 AUGUST 2014
 9 JUNE 2014
 rev: 5 JUNE 2014

date: 3 JUNE 2014
 By: ANB

scale: 1" = 30'-0"

NICE N EASY FOR VALENTINE STORES
 OUTER WASHINGTON STREET
 WATERTOWN, NY

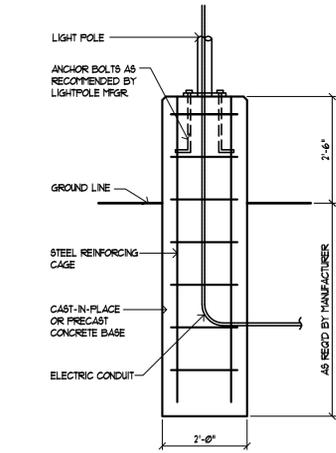


LEGEND

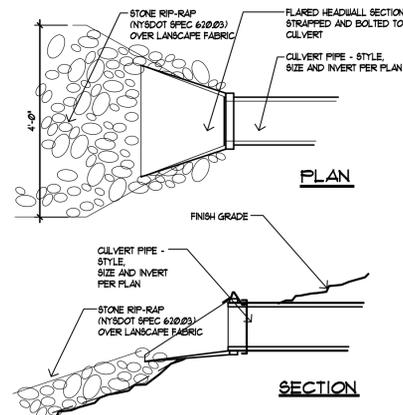
- EXISTING CONTOUR
- NEW CONTOUR
- NEW SPOT GRADE
- NEW CONCRETE SIDEWALK
- LAWN AREA
- CONCRETE PAD
- STONE RIPRAP

NOTE: THE FOLLOWING (4) CATCH BASINS SIT DIRECTLY OVER THE 36\"/>

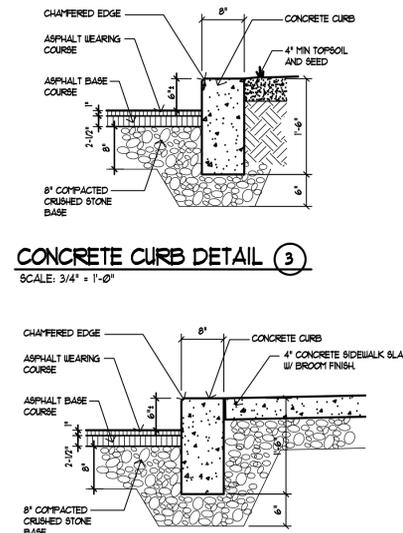
CITY OF WATERTOWN
 TOWN OF WATERTOWN



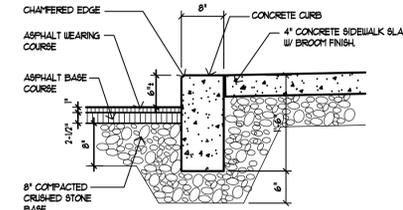
LIGHT POLE BASE DETAIL ①
 SCALE: 1/2" = 1'-0"



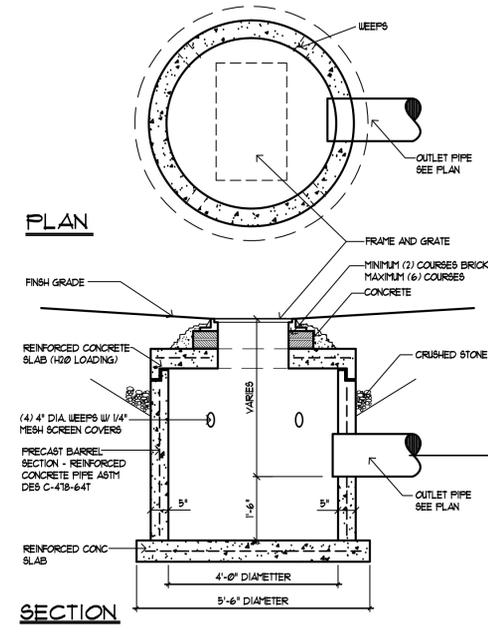
CULVERT FLARED END DETAIL ②
 N.T.S.



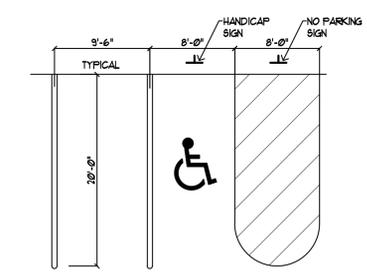
CONCRETE CURB DETAIL ③
 SCALE: 3/4" = 1'-0"



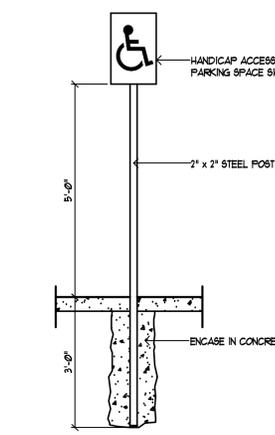
CONCRETE SIDEWALK DETAIL ④
 SCALE: 3/4" = 1'-0"



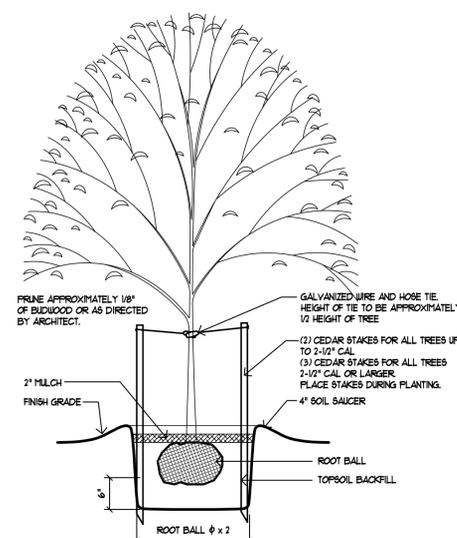
CATCH BASIN DETAIL ⑤
 N.T.S.



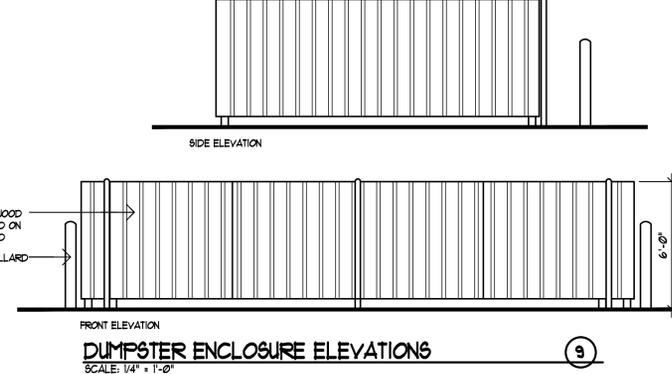
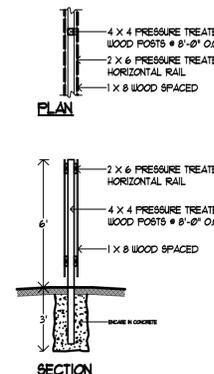
STRIPING DETAIL ⑥
 SCALE: 1/8" = 1'-0"



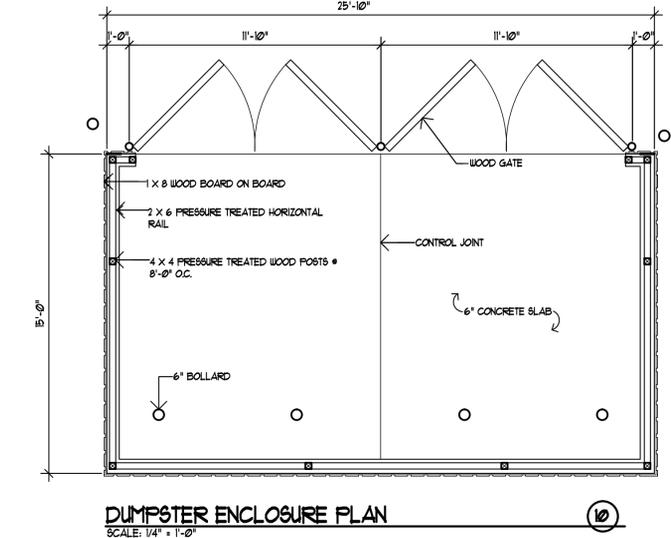
HANDICAP SIGN DETAIL ⑦
 SCALE: 1/2" = 1'-0"



TREE PLANTING DETAIL ⑧
 NO SCALE



DUMPSTER ENCLOSURE ELEVATIONS ⑨
 SCALE: 1/4" = 1'-0"



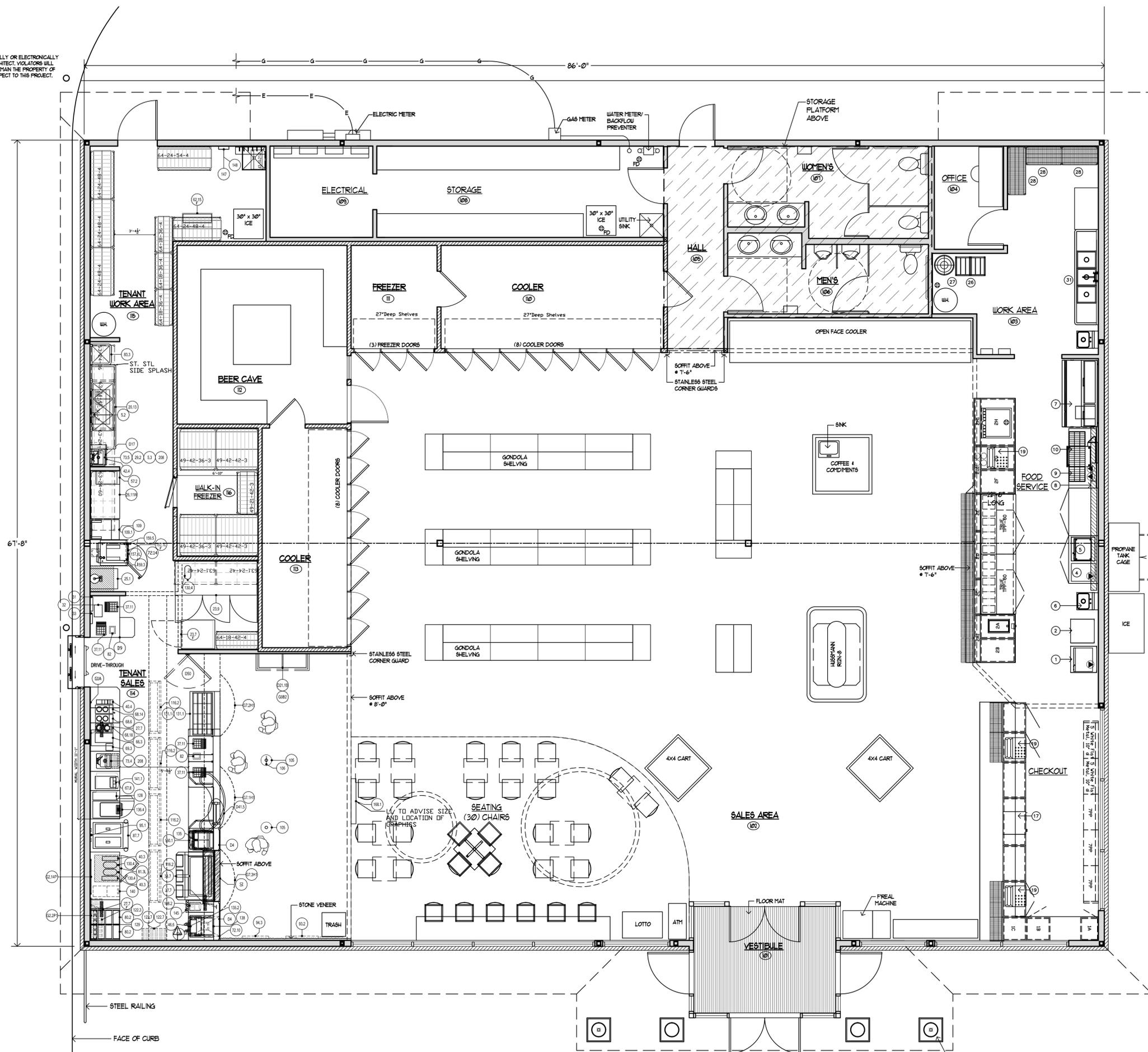
DUMPSTER ENCLOSURE PLAN ⑩
 SCALE: 1/4" = 1'-0"

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EQUIPMENT SCHEDULE

Count	ITEM	DESCRIPTION
1	005.3	SOAP DISPENSER - WALL MOUNTED
1	005.3	SOAP DISPENSER - WALL MOUNTED
1	002.13	3-COMP SINK - 85" - SOURCED (US)
1	003.7	REACH-IN COOLER - SINGLE DOOR - DELFELD
1	003.9	REACH-IN COOLER - TRIPLE DOOR - DELFELD
1	002.1	SHORT MOBILE KEEPER RACK (NBD SITE SPECIFIC)
1	006.116	FRIGNING TABLE - 10' x 48" - WOOD BUTYNER BLOCK
1	007.7	MONITOR - 23" - SERVICE AREA (STANDARD)
2	007.7	MONITOR - 23" - SERVICE AREA (STANDARD)
1	009.2	PAPERFRONT DISPENSER - ROLL (STANDARD)
1	001	WIRELESS BASE STATION
1	002	BATTERY CHARGER
1	003	HARDWARE RECEPTOR
4	007.11	POS CASH STATION (STANDARD)
1	008.7	SANDWICH UNIT 48" (219mm) - QSD/DELFELD
2	040.3	LD DISPENSER - 42" (STANDARD)
1	040.4	LD DISPENSER - 4 STEP HOT/ANGLED (CS)
1	042.4	MICROWAVE (STANDARD)
1	046.6	BAKED TOASTER - 14-SPEED (STANDARD)
1	057.2	FONDANT WARMER - STANDARD
1	062.15	ICE MACHINE - STAND ALONE - HOSHIZAKI 360LH (STANDARD US)
1	066.3	CREAMER - DUAL VOLUME (STANDARD US)
1	067.8	HOT POWDERED DRINK MACHINE - MAX 3 (STANDARD)
1	068.14	COFFEE BREWER - SUNN CMT-35 W/HW SPOUT (OPTIONAL)
1	068.18	COFFEE BREWER - SUNN AXOM 12 CUP (DARK ROAST)
1	068.6	COFFEE BREWER - SUNN CMT-35 (STANDARD)
1	069.3	SUGAR DISPENSER - 4 HEAD (STANDARD US)
1	072.10	EXHAUST HOOD - 60" (STANDARD)
1	072.14	EXHAUST HOOD - COMBI OVEN
1	073.4	DUMP SINK - 96" COUNTER - SOURCED (US)
1	073.5	HAND SINK - 20" - SOURCED - (US)
2	080.2	SOUP COOKER/WARMER - QUADRUPLE - VOLTRATH
1	081.3	1/2 REFRIGERATOR - LEFT HINGE
2	082	SAFE DEPOSIT BOX (US)
1	083.3	VEGETABLE SINK - SOURCED - 18" x 18" (US)
1	087.7	KEED CAPP - FULL HEIGHT - TAYLOR 342 - DUAL WHP
1	093.3	CAMP FRAME - MENGE (STANDARD)
1	094.3	POP FRAME - MENGE (STANDARD)
1	095.1	WALL CLOCK - WOOD
2	105	STANTION POST (UPGRADE)
1	106	STANTION POST (UPGRADE)
1	108.2	BAZEL SAKBE (STANDARD)
1	109	GLAZER - TABLE TOP
1	109.1	GLAZER STAND
4	116.2	MENUBOARD - 23" - CEILING MOUNTED
1	122.3	BAZEL/BREAD BASKET - WOOD - 42"
2	122.7	BAZEL/BREAD BASKET - WOOD - 24"
1	128	FLAVOR SHOT (STANDARD)
1	129	CHILDREN BN
3	130.4	ICED COFFEE - DISPENSER - NARROW (SITE SPECIFIC)
1	131.1	COMFY DISPLAY CASE - ANGLE - 4 x 5 (STANDARD)
1	131.11	INSERT RACK FOR 4 x 5 COMFY SNOWGLASS
2	135	HOT HOLDING UNIT (STANDARD)
1	135.2	HOT HOLDING UNIT - MASTER COOK (REST ONLY)
1	136.4	ESPRESSO MACHINE - NESCAFÉ MILANO (STANDARD)
1	138	TOASTER STAND
1	140	ICE CADDY
1	143.1	SEA CADDY - BAGGED
1	145	KNIFE HOLDER
1	147	BROCHARD KIT
1	148	PREST KIT
1	157.7L	COMBI OVEN - GLOBAL - (LEFT HINGE)
1	157.7R	COMBI OVEN - GLOBAL - (RIGHT HINGE)
1	159.3	COMBI OVEN STAND - DOUBLE (STANDARD)
1	159.5	COMBI OVEN STAND - INSERT SPEED RACK
1	160.1	PANINI PRESS - DOUGH-PRO (STANDARD)
1	160.1	PANINI PRESS - DOUGH-PRO (STANDARD)
2	208	FAUCET - HANDSINK - IN-COUNTER - SOURCED (US)
1	3M	COMB FILTERS (STANDARD)
2	304	GLASS GUARD W/WR POSTS
1	005	SNEEZE GUARD
1	009	Drive Thru Cash Counter - Perpendicular w/ Staging
1	007	MERCHANDISE SHELF
1	007.2B	MERCHANDISE WALL - WALL MOUNT - 4FT
1	041.5	PASS-THRU SHELF - OVAL - LARGE (SITE SPECIFIC)
1	056	SINK GATE
1	007.1H	BANNER - COFFEE - CURVED - 14h
1	007.2H	BANNER - BAKERY - CURVED - 14h
1	007.3H	BANNER - SOUP AND SANDWICH - CURVED - 14h
1	01A	WALL MURAL - COFFEE CUP - 2nd SURFACE ACRYLIC
1	021.1H1	IMAGE - ICED CAPP (DUAL) - PIC ON STAND-OFFS - 3' x 2'
1	021.2H1	IMAGE - OROGRANIS - PIC ON STAND-OFFS - 3' x 2'
1	086.2	MERCHANDISER GRAPHIC KIT - 4FT KIT - FOR WALL MOUNT 021.1H
1	SHELF - FREEZER	49-21-42-3
2	SHELF - FREEZER	49-42-42-3
3	SHELF - FULL HEIGHT	64-18-36-4
1	SHELF - FULL HEIGHT	64-18-42-4
4	SHELF - FULL HEIGHT	64-24-48-4
1	SHELF - FULL HEIGHT	64-24-34-4
1	SHELF - HANGING	43-14-21-2
1	SHELF - HANGING RACK	88-18-36-2
2	SHELF - OVERHEAD	63-24-36
1	SHELF - OVERHEAD	63-24-48
1	SHELF - OVERHEAD	63-24-60
2	SHELF - OVERHEAD - ISLAND	63.1-24-42



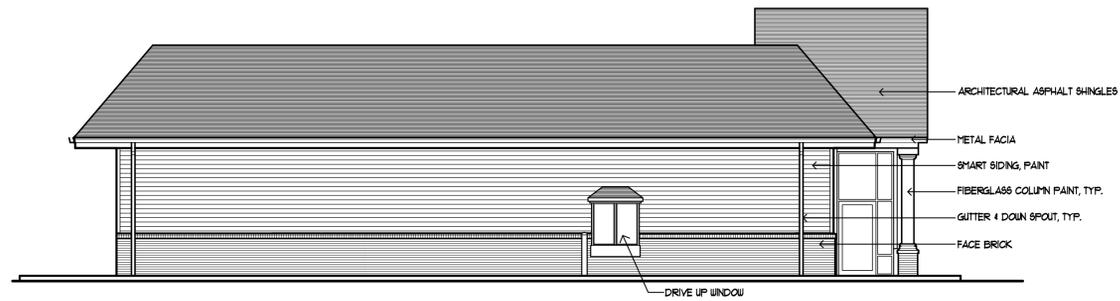
EQUIPMENT LIST

ITEM#	QTY	DESCRIPTION
1.	1	BREAD OVEN
2.	1	BREAD CABINET
3.	1	C COUNTER
4.	1	CONVECTION OVEN
5.	2	DOUBLE STACK MICROWAVE OVEN
6.	1	DROP-IN HAND SINK
7.	1	6" PIZZA PREP TABLE
8.	3	55" LED MENU BOARDS
9.	1	5' STEEL TABLE
10.	2	DOUBLE STACK PIZZA OVENS
12.	1	DROP-IN HOT WELL
13.	1	SANDWICH UNIT
15.	1	SODA MACHINE
17.	1	PIZZA DISPLAY CASE
18.	1	PIZZA DISPLAY CASE
19.	3	CASH REGISTER
25.	1	4" STAINLESS STEEL SHELVING UNIT
26.	1	BAG IN BOX RACK
27.	1	BULK CO2
29.	4	STORAGE SHELVING
31.	1	3 BAY SINK

J.S. Hagan Architect P.C.
design. build

180 Irvington Lane Syracuse, New York 13205 315-469-4282 Fax 315-469-4276
date: 10 OCTOBER 2014 rev: 20 OCTOBER 2014
by: AH/B

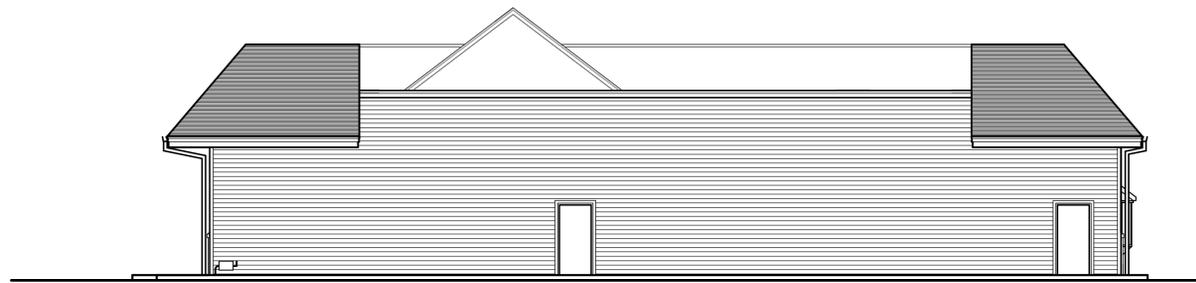
NICE N EASY FOR VALENTINE STORES
OUTER WASHINGTON STREET
WATERLOO, NY
FLOOR PLAN
scale: 1/4" = 1'-0"



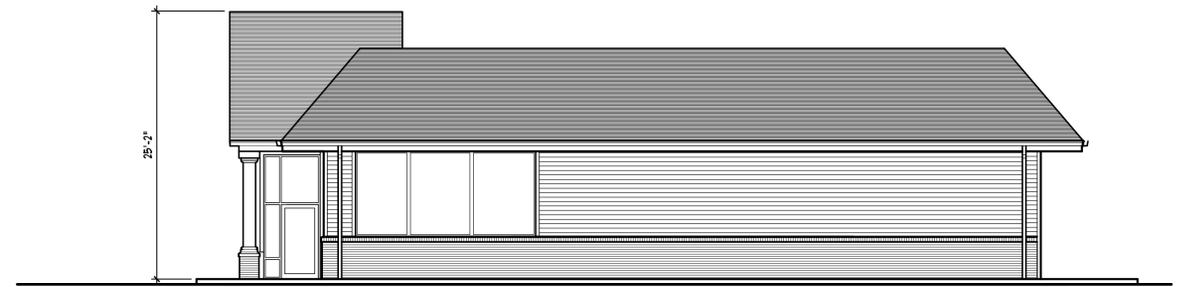
LEFT SIDE ELEVATION



FRONT ELEVATION



REAR ELEVATION



RIGHT SIDE ELEVATION



CANOPY
LEFT SIDE ELEVATION



FRONT ELEVATION



RIGHT SIDE ELEVATION



REAR ELEVATION

ABBREVIATIONS

AC - ACRES
 BLDG - BUILDING
 BOT - BOTTOM
 BW - BOTTOM OF WALL
 C - CURVE
 CB - CATCH BASIN
 CF - CUBIC FEET
 CI - CAST IRON
 CL - CENTERLINE
 CO - COUNTY
 CONC - CONCRETE
 CMP - CORRUGATED METAL PIPE
 CPP - CORRUGATED PLASTIC PIPE
 DA - DELTA ANGLE
 DA# - DRAINAGE AREA #
 DI - DUCTILE IRON
 DIA - DIAMETER
 DWG - DRAWING
 DYLL - DOUBLE YELLOW LANE LINE
 E - EAST
 EG - EXISTING GRADE
 EL - ELEVATION
 ESC - EROSION & SEDIMENT CONTROL
 FF - FINISHED FLOOR
 FG - FINISH GRADE
 GV - GATE VALVE
 HDPE - HIGH DENSITY POLYETHYLENE PIPE
 HYD - HYDRANT
 IPF - IRON PIPE FOUND
 IPS - IRON PIPE SET
 INT - INTERSECTION
 INV - INVERT
 L - LENGTH
 LF - LINEAR FEET
 MAX - MAXIMUM
 MIN - MINIMUM
 N - NORTH
 NA - NOT APPLICABLE
 NO./# - NUMBER
 NTS - NOT TO SCALE
 NYSDEC - NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
 NYSDOT - NEW YORK STATE DEPARTMENT OF TRANSPORTATION
 NYSDOH - NEW YORK STATE DEPARTMENT OF HEALTH
 OHW - OVERHEAD WIRE
 PC - POINT OF CURVATURE
 PCC - POINT OF COMPOUND CURVE
 PT - POINT OF TANGENCY
 PVC - POLYVINYL CHLORIDE PIPE
 R - RADIUS
 RCP - REINFORCED CONCRETE PIPE
 ROC - RUN OF CRUSHER
 ROW - RIGHT-OF-WAY
 S - SOUTH
 SAN - SANITARY
 SDR - STANDARD DIMENSION RATIO
 SMH - SANITARY MANHOLE
 STMH - STORM MANHOLE
 SWLL - SOLID WHITE LANE LINE
 SWPPP - STORM WATER POLLUTION PREVENTION PLAN
 TC - TIME OF CONCENTRATION
 TL - TANGENT LENGTH
 TYP - TYPICAL
 TW - TOP OF WALL
 TS & V - TAPPING SLEEVE & VALVE
 UNO - UNLESS NOTED OTHERWISE
 W - WEST

MASTER LEGEND

LEGEND:	EXISTING	PROPOSED
5' CONTOUR	--- 410 ---	--- 410 ---
1' CONTOUR	--- 409 ---	--- 409 ---
BOLLARD		•
BUILDING	_____	_____
BUSH		⊗
CATCH BASIN	□	□
CENTERLINE	_____	_____
CLEANOUT	○	○
CONCRETE SIDEWALK	CONC. SIDEWALK	_____
CONIFEROUS TREE	⊗	⊗
CURB STOP		⊗
CURBED ROAD	_____	_____
DECIDUOUS TREE	⊗	⊗
EASEMENT	_____	_____
EDGE OF PAVEMENT	_____	_____
ELECTRICAL BOX		□
ELECTRIC MANHOLE	⊕	⊕
FENCE	---x---	---x---
FIRE HYDRANT	⊗	⊗
FLOWERING PLANTINGS	•	•
GAS LINE	—G—	—G—
GUIDERAIL	—O—	—O—
½" IRON PIPE WITH CAP SET		⊙
IRON PIPE FOUND (AS NOTED)	•	⊙
LANDSCAPING		⊙
LIGHT POLE	⊙	⊙
OVERHANG	_____	_____
PAINTED LINES	_____	_____
PROPERTY LINE	_____	_____
SAWCUT	_____	_____
SEWER LINE	—S—	—S—
SEWER MANHOLE	⊕	⊕
SIGNS	△	△
SILT FENCE	_____	_____
SOLID WHITE LANE LINE	_____	_____
SPOT ELEVATION		578.12 +
STORM LINE	—ST—	—ST—
STORM MANHOLE	⊕	⊕
TEST PIT LOCATION		⊙
TOP OF CURB/BOTTOM OF CURB		578.62/578.12 +
TREELINE	~~~~~	~~~~~
UNDERGROUND CABLE AND TELEPHONE	_____	—CT—
UNDERGROUND ELECTRIC	_____	—E—
UNDERGROUND GAS, ELECTRIC, TELEPHONE	_____	—GET—
UNDERGROUND TELEPHONE	_____	—T—
UNDERGROUND GAS, ELECTRIC, TELEPHONE AND CABLE	_____	—GETC—
UTILITY POLE & GUY WIRE	⊕	⊕
WATER LINE	—W—	—W—
WATER OUTLINE	_____	_____
WATER VALVE	⊕	⊕
WATERLINE CROSSING	_____	_____
WETLANDS	~~~~~	~~~~~

GENERAL NOTES

- 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.
- THE TOPOGRAPHIC, PLANIMETRIC, AND BOUNDARY SURVEY WAS PERFORMED BY GYMO, P.C. BETWEEN JULY AND SEPTEMBER 2014.
- 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 TO OBTAIN WRITTEN AUTHORIZATION TO USE PRIVATE PROPERTY AND ASSUMES ALL LIABILITY WHEN ACCESSING THOSE PROPERTIES.
- THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE CHARACTERISTICS AND EXTENT OF SUBSURFACE SOILS, ROCK, WATER TABLE LEVELS, ETC., PRIOR TO BIDDING.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS, SECURITY, BONDS, FEES, AND PAYMENTS TO OBTAIN SAID PERMITS WHERE APPLICABLE.
- WHEN THE PERFORMANCE OF THE CONTRACTOR'S WORK REQUIRES THE INTERRUPTION OF UTILITY SERVICES, HE/SHE SHALL ISSUE A 48 HOUR PRIOR NOTICE TO THE GOVERNING MUNICIPALITY.
- SITE CONTRACTOR TO PROVIDE EROSION AND SEDIMENT CONTROL AND DUST CONTROL.
- A LICENSED LAND SURVEYOR SHALL BE RETAINED FOR ALL UTILITY AND FIELD STAKEOUT AND AS-BUILTS AT THE CONTRACTORS EXPENSE.
- 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 OFF SITE OR INTO NATURAL STREAM CHANNELS.
- ALL EXISTING FACILITIES (I.E.: TREES, PAVEMENT, CURBING, BUILDINGS, ETC.) TO REMAIN SHALL BE PROTECTED BY THE CONTRACTOR. CONSTRUCTION ACTIVITIES ADJACENT TO EXISTING FACILITIES TO REMAIN SHALL BE CONDUCTED TO REDUCE THE IMPACT TO THEM, TO THE MAXIMUM EXTENT PRACTICAL. ANY DAMAGE TO EXISTING FACILITIES TO REMAIN SHALL BE REPAIRED OR THE REPLACED, AS DIRECTED BY THE OWNER AT THE CONTRACTORS EXPENSE.
- CONTRACTOR SHALL PERFORM ALL R.O.W. CONNECTION AND/OR ADJACENT WORK IN ACCORDANCE WITH NYSDOT SPECIFICATIONS. ALL R.O.W. WORK SHALL BE IN ACCORDANCE WITH NYSDOT MAINTENANCE AND PROTECTION OF TRAFFIC REGULATIONS, INCLUDING FLAGMEN, BARRICADES, WARNING SIGNS/LIGHTS, ETC., WHERE WARRANTED.
- CONTRACTOR SHALL BE RESPONSIBLE FOR CLEARING, GRUBBING, CUTTING AND DISPOSING OF VEGETATION, TREES AND DEBRIS IN A NYSDOT ACCEPTABLE LOCATION.
- CONTRACTOR SHALL PERFORM ALL NECESSARY EARTHWORK, INCLUDING THE STRIPPING, STOCKPILING AND REPLACING OF TOPSOIL IN ACCORDANCE WITH THE PLANS. EXCESS MATERIAL SHALL BE REMOVED FROM THE SITE.
- 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. OVER-EXCAVATED AREAS SHALL BE BACKFILLED WITH SUITABLE MATERIAL.
- COMPACTION OF PIPE BEDDING AND BACKFILL MATERIAL SHALL BE BY MEANS OF HAND-GUIDED POWER DRIVEN, 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-D698, STANDARD PROCTOR. CARE SHALL 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 THE PIPE BEDDING.
- COMPACTION SHALL BE 90% MAXIMUM DRY DENSITY IN GRASS AREAS, 95% MAXIMUM DRY DENSITY IN GRAVEL/PAVED AREAS AND 98% MAXIMUM DRY DENSITY UNDER AND AROUND STRUCTURES. MAXIMUM DRY DENSITY SHALL BE AS DETERMINED BY ASTM-D698, STANDARD PROCTOR. THE CONTRACTOR SHALL HIRE AN INDEPENDENT TESTING AGENCY TO PERFORM PAVEMENT TESTING PER TECHNICAL SPECIFICATIONS AND PROVIDE THE RESULTS TO THE OWNER FOR REVIEW PRIOR TO FINAL PAYMENT.
- 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.
- THE CONTRACTOR SHALL DELIVER TO THE OWNER, AN AS-BUILT SURVEY, SIGNED AND SEALED BY A LAND SURVEYOR OR ENGINEER LICENSED IN THE STATE OF NEW YORK. AS-BUILT RECORD DRAWINGS SHALL INCLUDE, 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, CLEAN OUTS, CATCH BASINS, ETC.
 - UTILITY REPAIRS, SIDEWALK, AND DRIVEWAY REPLACEMENTS CENTERLINE.
 - RIM AND INVERT ELEVATIONS AND HORIZONTAL LOCATION OF MANHOLES, CATCH BASINS, AND CLEANOUTS.
 - STATIONS OF BENDS AND VALVES.
 - FINAL GRADE ELEVATIONS TO NEAREST 0.1-FOOT AND FINISHED FLOOR ELEVATIONS.
 - DENOTED BENCH MARK REFERENCES USED.
 - PERIODIC OFFSETS
 - NOTATION FROM THE ENGINEER OR SURVEYOR THAT THE GRADES ARE IN CONFORMANCE WITH THE SITE PLANS.
 - 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.
 - TWO (2) SETS OF FINAL COMPLETE RECORD DRAWINGS. CONTRACTOR SHALL FURNISH AS-BUILT DATA ON PLAN SHEETS.
- 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.
- CONTRACTOR SHALL PROVIDE SATISFACTORY DEWATERING AND DRAINAGE OF EXCAVATIONS.
- THE CONTRACTOR IS RESPONSIBLE FOR MAKING SURE THAT AREA ROADS AND PARKING FACILITIES ARE CLEAR OF DEBRIS AND MUD ON A DAILY BASIS DURING THE ENTIRE CONSTRUCTION PROCESS.
- EXCAVATIONS AND TRENCHING SHALL BE PERFORMED IN ACCORDANCE WITH STATE OF NEW YORK INDUSTRIAL CODE, RULE 23, O.S.H.A. TITLE 29, PART 1926, NEW YORK STATE DEPARTMENT OF LABOR, TITLE 12, PART 23, AND ALL OTHER APPLICABLE SAFETY STANDARDS AND CODES.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO BE AWARE OF AND TO CONFORM WITH ALL RULES AND RESPONSIBILITIES ASSOCIATED WITH PROVIDING A SAFE WORK PLACE. THE CONTRACTOR MUST COMPLY WITH OSHA 29 CFR PART 1926, SAFETY AND HEALTH REGULATIONS FOR CONSTRUCTION.
- A STORM WATER POLLUTION PREVENTION PLAN (SWPPP) WILL BE PREPARED FOR THIS PROJECT.
- 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.
- PLEASE NOTE THAT ANY CONTRACTOR WORKING WITHIN THE CITY OF WATERTOWN MUST PROVIDE A CURRENT CERTIFICATE OF LIABILITY INSURANCE (ACORD 25). IN ADDITION, NYS ALSO MANDATES PROOF OF WORKER'S COMPENSATION BE SHOWN PRIOR TO THE ENGINEERING DEPARTMENT ISSUING ANY PERMITS.
- UNDERGROUND PRIMARY ELECTRIC SERVICE BY OTHERS. CONTRACTOR TO COORDINATE WITH UTILITY COMPANY FOR DESIGN.

PLANNING DATA (CITY OF WATERTOWN)

CURRENT ZONING CLASSIFICATION - COMMERCIAL		
AREA AND BULK CALCULATIONS		
ITEM	REQUIRED/ALLOWED (IN COMMERCIAL ZONING)	PROPOSED
LOT AREA	40,000 SF	+/- 2.91 ACRES
FRONT YARD SETBACK	20'	50'
SIDE YARD SETBACK	5'	124', 95'
REAR YARD SETBACK	25'	95'
BUILDING COVERAGE	N/A	
PARKING	1 SPACE / 200 SF = 5,800 SF BUILDING / 200 = 29 SPACES	35 SPACES

**FOR APPROVALS ONLY
NOT FOR CONSTRUCTION**

210 Sterling Street
 Watertown, NY 13601
 tel: (515) 788-3900
 fax: (515) 788-0668
 www.gymopc.com



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 ARCHITECTURE, ENGINEERING & LAND SURVEYING, P.C.
IT IS A VIOLATION OF SECTION 2000 SUBSECTION 2 OF THE NEW YORK STATE EDUCATION LAW FOR ANY PERSON UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER OR LAND SURVEYOR TO ALTER THIS DOCUMENT IN ANY MANNER. ANY SUCH ALTERATION SHALL APPLY HIS OR HER OATH AND THE NOTATION HEREON BY FOLLOWED BY HIS OR HER SIGNATURE, DATE AND A SPECIFIC DESCRIPTION OF ALTERATION.

GENERAL NOTES AND INFORMATION
VALENTINE STORES, INC.
 WASHINGTON STREET, CITY/TOWN OF WATERTOWN
 JEFFERSON COUNTY, NEW YORK

Project No: 2014-033E
 Scale: As Noted
 Date: 10-14-2014
 Drawn By: THR/MJB
 Designed By: THR/PJS
 Checked By:
 Date Issued: 10-16-2014
 Drwg. No.

C001

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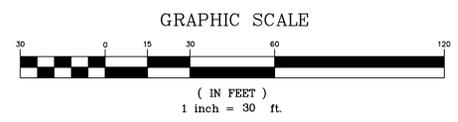
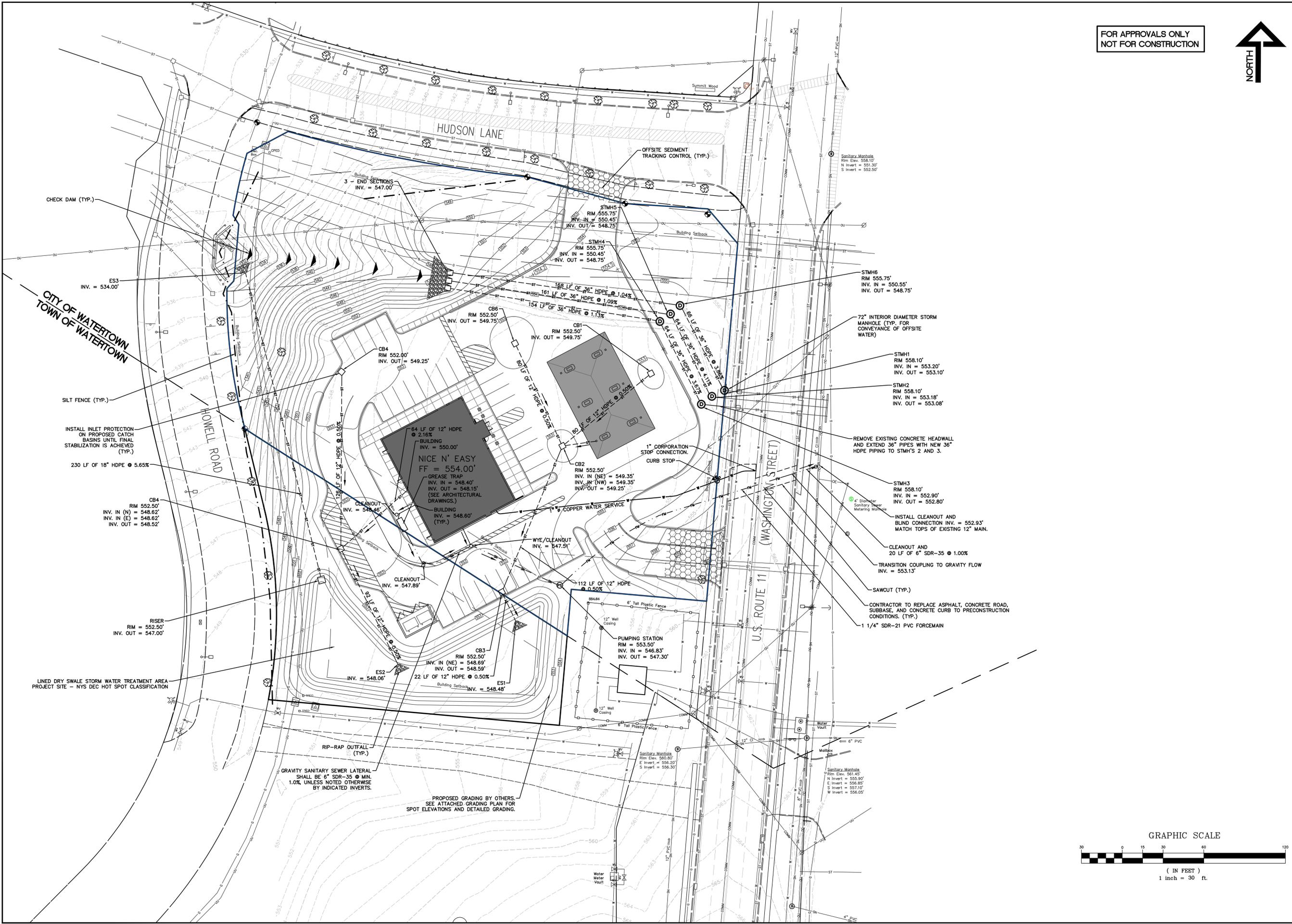


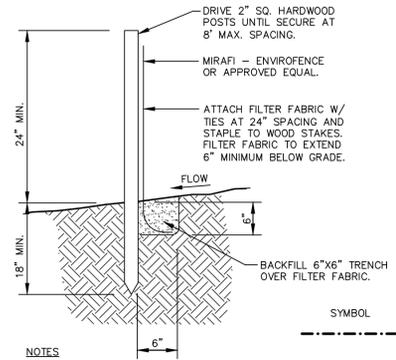
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SUCH LICENSEE SHALL AFFIX HIS OR HER
SEAL AND THE NOTATION "ALTERED BY"
FOLLOWED BY HIS OR HER SIGNATURE,
DATE AND A SPECIFIC DESCRIPTION OF
ALTERATION.

UTILITY AND ESC PLAN
VALENTINE STORES, INC.
WASHINGTON STREET, CITY/TOWN OF WATERTOWN
JEFFERSON COUNTY, NEW YORK

Project No: 2014-033E
Scale: As Noted
Date: 10-14-2014
Drawn By: THR
Designed By: THR/PJS
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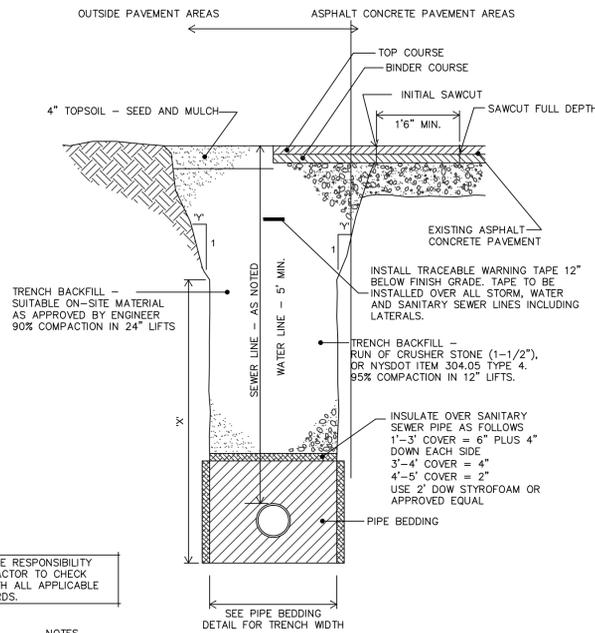
C101





- NOTES**
1. SILTATION FENCE TO REMAIN IN PLACE UNTIL LAWNS HAVE BEEN ESTABLISHED AND/OR FINISH SURFACES HAVE BEEN INSTALLED.
 2. SILTATION FENCE TO BE CHECKED AND MAINTAINED THROUGHOUT CONSTRUCTION. SILT ACCUMULATIONS SHALL BE REMOVED PERIODICALLY AS REQUIRED.
 3. SECTIONS OF FILTER FABRIC TO HAVE 12" OVERLAP AT WOOD STAKES AND STAPLED IN PLACE.

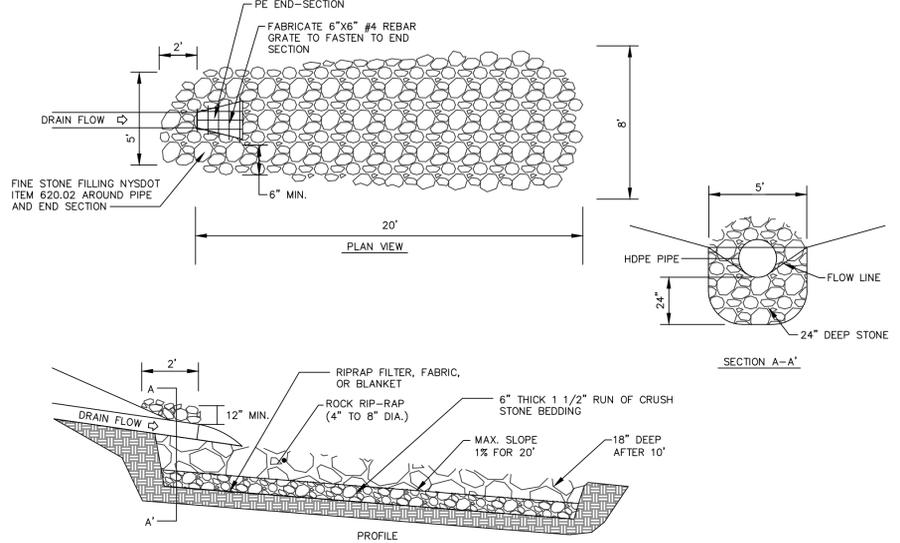
1	TYPICAL SILTATION FENCE DETAIL	
C501	NOT TO SCALE	D120-01



*IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CHECK AND COMPLY WITH ALL APPLICABLE SAFETY STANDARDS.

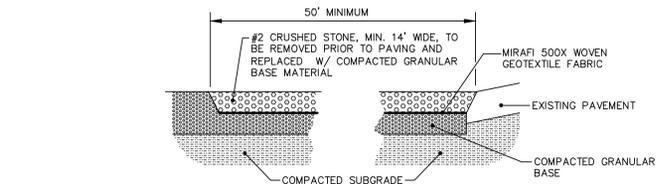
- NOTES**
1. DIMENSIONS 'X' AND 'Y' SHOWN ABOVE SHALL BE DETERMINED BY CONTRACTOR TO COMPLY WITH O.S.H.A., NEW YORK STATE DEPARTMENT OF LABOR, NEW YORK STATE INDUSTRIAL CODE AND ALL OTHER APPLICABLE SAFETY STANDARDS.
 2. SAFETY SHEETING OR TRENCH BOX MAY BE USED IN PLACE OF SLOPED TRENCH WALLS.
 3. SHEETING, WHEN REQUIRED, TO BE CUT OFF AT LEAST 5 FEET BELOW STREET AND A MINIMUM OF 1 FOOT ABOVE TOP OF PIPE. WOOD SHEETING DRIVEN BELOW MID-DIAMETER OF THE PIPE SHALL BE LEFT IN PLACE. STEEL SHEETING DRIVEN BELOW MID-DIAMETER MAY BE WITHDRAWN IF APPROVED IN WRITING BY THE ENGINEER. FOR PVC PIPE ALL SHEETING DRIVEN BELOW MID-DIAMETER SHALL BE LEFT IN PLACE.
 4. TRENCHES LOCATED ON ROAD SHOULDERS SHALL BE TREATED THE SAME AS UNDER PAV'T.
 5. CONTRACTOR MAY USE NATIVE MATERIAL AS BACKFILL IF APPROVED BY ENGINEER.

4	TYPICAL UTILITY LINE TRENCH DETAIL AND PAYMENT LIMITS	
C501	NOT TO SCALE	D101-02

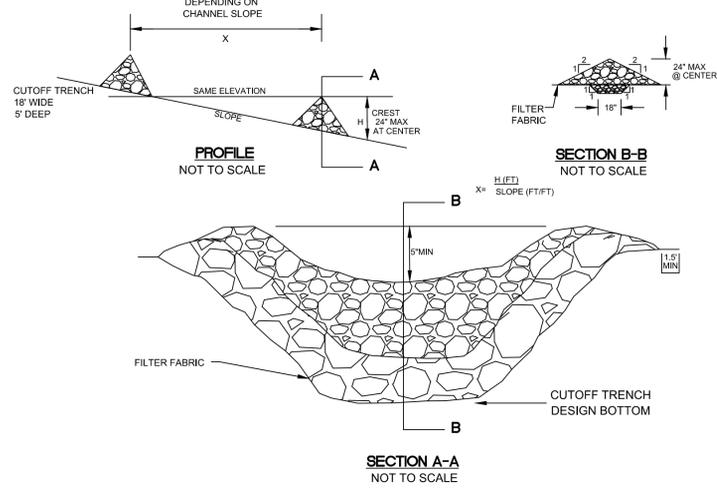
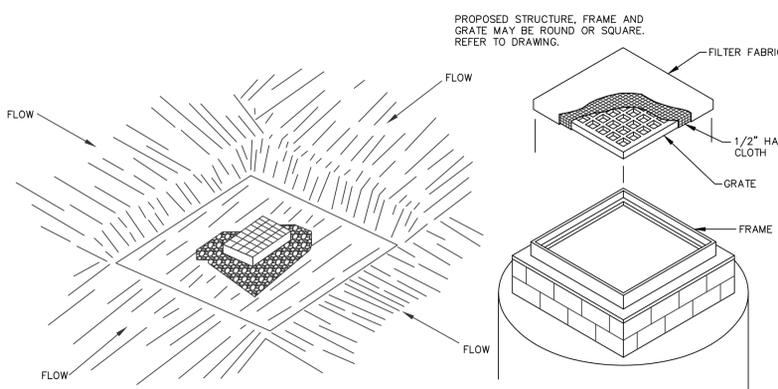


- NOTES:**
1. STONE FOR RIPRAP SHALL CONSIST OF FIELD STONE OR ROUGH UNHEWN QUARRY STONE. THE STONE SHALL BE HARD AND ANGULAR AND OF A QUALITY THAT WILL NOT DISINTEGRATE ON EXPOSURE TO WATER OR WEATHERING. THE SPECIFIC GRAVITY OF THE INDIVIDUAL STONES SHALL BE AT LEAST 2.5.
 2. RIPRAP SHALL HAVE A FILTER PLACED UNDER IT IN ALL CASES TO PREVENT SOIL MOVEMENT INTO AND THROUGH THE RIPRAP.
- THE FILTER MAY CONSIST OF A GRAVEL LAYER OR A PLASTIC FILTER CLOTH. THE PLASTIC FILTER CLOTH MAY BE WOVEN OR NON-WOVEN MONOFILAMENT YARNS, AND SHALL MEET THE FOLLOWING BASE REQUIREMENTS: THICKNESS 20-60 MILS, GRAB STRENGTH 90-120 LBS; AND SHALL CONFORM TO ASTM D-1982.
- GRAVEL FILTER BLANKET, WHEN USED, SHALL BE DESIGNED BY COMPARING PARTICLE SIZES OF THE OVERLYING MATERIAL AND THE BASE MATERIAL. DESIGN CRITERIA IS AVAILABLE IN THE STANDARD AND SPECIFICATION FOR RIPRAP SLOPE PROTECTION ON PAGE 7B.57 OF THE NEW YORK STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL.
3. UPON RIPRAP SLOPE INSTALLATION, LINING SHOULD BE MAINTAINED AS BUILT TO PREVENT UNDERMINING AND DETERIORATION. WATERWAYS SHOULD BE INSPECTED AFTER HIGH FLOWS FOR EVIDENCE OF SCOUR BENEATH THE RIPRAP OR FOR DISLODGED STONES. REPAIRS SHOULD BE MADE IMMEDIATELY.

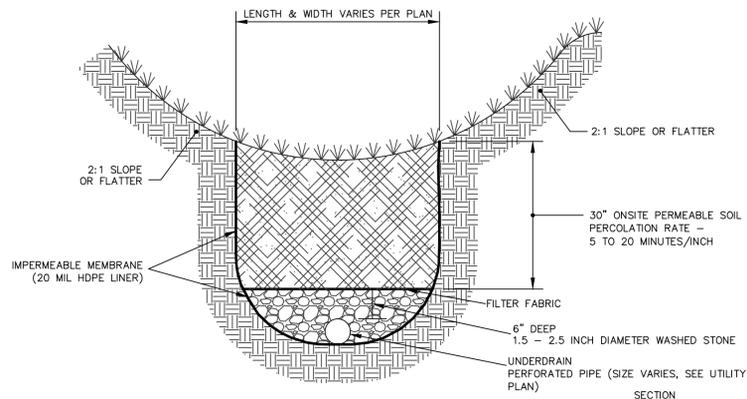
7	TYPICAL STORM OUTFALL DETAIL	
C501	NOT TO SCALE	D114-02



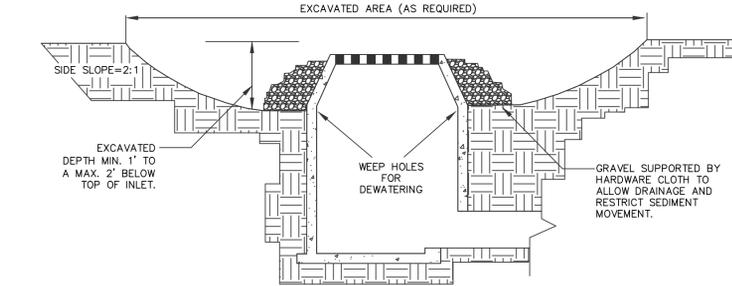
2	TYPICAL OFFSITE SEDIMENT TRACKING CONTROL	
C501	NOT TO SCALE	D163-01



5	TYPICAL CHECK DAM DETAIL	
C501	NOT TO SCALE	D117-01

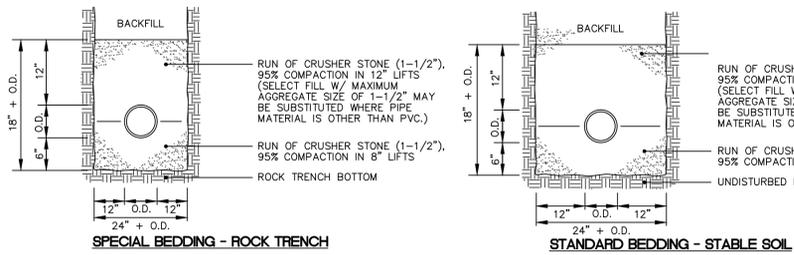


8	DRY SWALE DETAIL	
C501	NOT TO SCALE	



- CONSTRUCTION SPECIFICATIONS:**
1. CLEAR THE AREA OF ALL DEBRIS THAT WILL HINDER EXCAVATION.
 2. GRADE APPROACH TO THE INLET UNIFORMLY AROUND THE BASIN.
 3. WEEP HOLES SHALL BE PROTECTED BY GRAVEL.
 4. UPON STABILIZATION OF CONTRIBUTING DRAINAGE AREA, SEAL WEEP HOLES, FILL BASIN WITH STABLE SOIL TO FINAL GRADE, COMPACT IT PROPERLY AND STABILIZE WITH PERMANENT SEEDING.
- MAXIMUM DRAINAGE AREA 1 ACRE

3	EXCAVATED DROP INLET PROTECTION	
C501	NOT TO SCALE	



6	TYPICAL PIPE BEDDING DETAILS AND PAYMENT LIMITS	
C501	NOT TO SCALE	U102-01

ARCHITECTURE
ENGINEERING
LAND SURVEYING

GYMOPC

210 Sterling Street
Watertown, NY 13601
tel: (513) 788-3900
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www.gymopc.com

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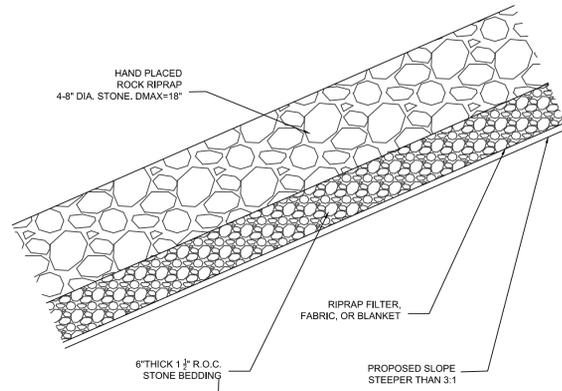
SITE DETAILS

VALENTINE STORES, INC.
WASHINGTON STREET, CITY/TOWN OF WATERTOWN
JEFFERSON COUNTY, NEW YORK

Project No: 2014-033E
Scale: As Noted
Date: 10-14-2014
Drawn By: THRMJB
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Date Issued: 10-16-2014
Drwg. No.

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C501



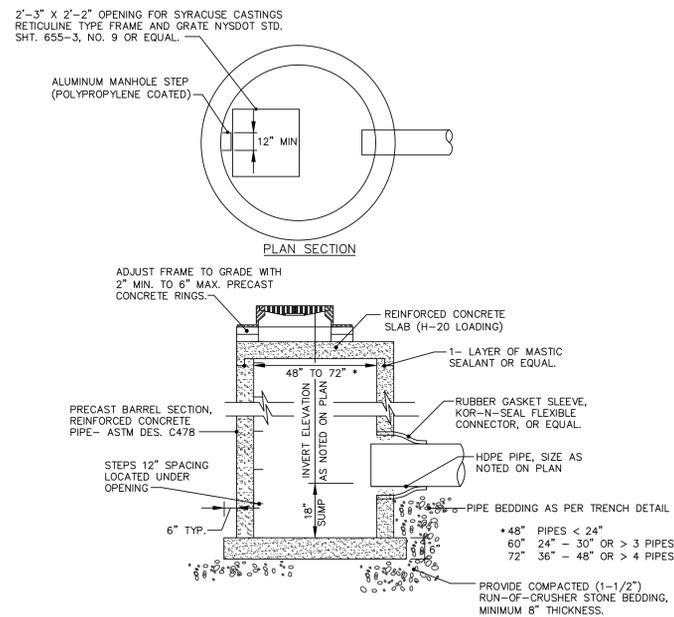
NOTES:

- RIPRAP SLOPE LOCATIONS ARE LABELED ON THE CIVIL PLANS.
- STONE FOR RIPRAP SHALL CONSIST OF FIELD STONE OR ROUGH UNHEWN QUARRY STONE. THE STONE SHALL BE HARD AND ANGULAR AND OF A QUALITY THAT WILL NOT DISINTEGRATE ON EXPOSURE TO WATER OR WEATHERING. THE SPECIFIC GRAVITY OF THE INDIVIDUAL STONES SHALL BE AT LEAST 2.5.
- RIPRAP SHALL HAVE A FILTER PLACED UNDER IT IN ALL CASES TO PREVENT SOIL MOVEMENT INTO AND THROUGH THE RIPRAP.
THE FILTER MAY CONSIST OF A GRAVEL LAYER OR A PLASTIC FILTER CLOTH. THE PLASTIC FILTER CLOTH MAY BE WOVEN OR NON-WOVEN MONOFILAMENT YARNS, AND SHALL MEET THE FOLLOWING BASE REQUIREMENTS: THICKNESS 20-60 MILS, GRAB STRENGTH 90-120 LBS; AND SHALL CONFORM TO ASTM D-1682.
- UPON RIPRAP SLOPE INSTALLATION, LINING SHOULD BE MAINTAINED AS BUILT TO PREVENT UNDERMINING AND DETERIORATION. WATERWAYS SHOULD BE INSPECTED AFTER HIGH FLOWS FOR EVIDENCE OF SCOUR BENEATH THE RIPRAP OR FOR DISLODGED STONES. REPAIRS SHOULD BE MADE IMMEDIATELY.

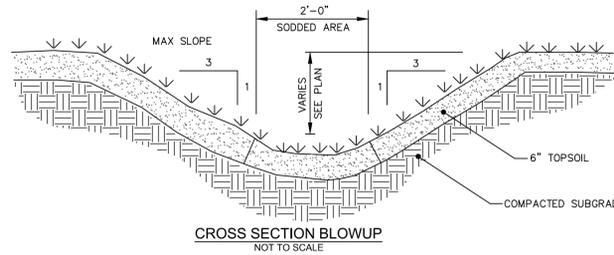
CONSTRUCTION SPECIFICATIONS:

- THE FOUNDATION AREA SHALL BE CLEARED OF TREES, STUMPS, ROOTS, SOD, LOOSE ROCK, OR OTHER OBJECTIONABLE MATERIAL.
- THE CROSS-SECTION SHALL BE EXCAVATED TO THE NEAT LINES AND GRADES AS SHOWN ON THE PLANS. OVER-EXCAVATED AREAS SHALL BE BACKFILLED WITH MOIST SOIL COMPACTED TO THE DENSITY OF THE SURROUNDING MATERIAL.
- NO ABRUPT DEVIATIONS FROM DESIGN GRADE OR HORIZONTAL ALIGNMENT SHALL BE PERMITTED.
- FILTER LINING AND ROCK RIPRAP SHALL BE PLACED TO LINE AND GRADE IN THE MANNER SPECIFIED.

1	RIPRAP SLOPE DETAIL
C502	NOT TO SCALE



2	TYPICAL PRECAST CATCH BASIN DETAIL (CB)
C502	NOT TO SCALE
	D102-02



CROSS SECTION BLOWUP
NOT TO SCALE

PARABOLIC CROSS SECTION
NOT TO SCALE

GRASSED LINED SWALE SPECIFICATIONS

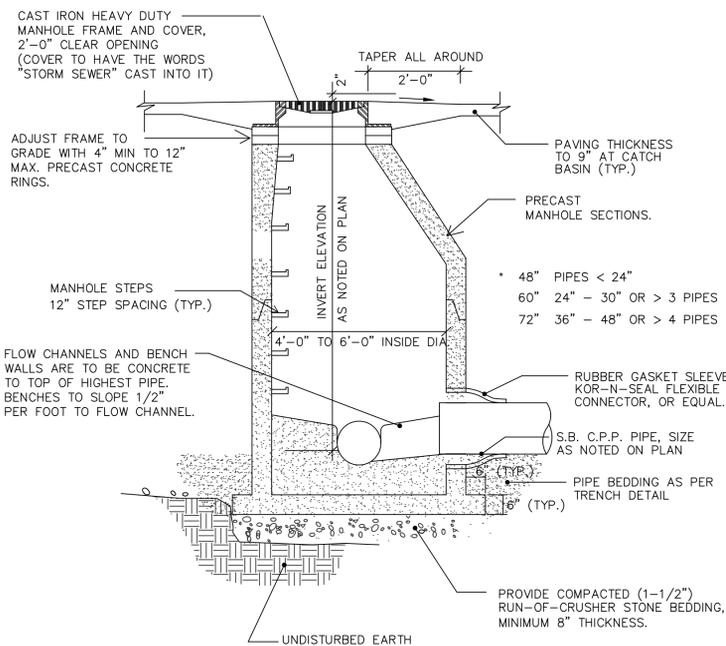
SWALE	T (TOP WIDTH)	D (DEPTH)
1	6.1'	1.0'
2	1.0'	1.0'
3	15.7'	0.8'
4	1.2'	1.1'
5	1.0'	1.2'
6	1.2'	1.3'

*THESE ARE THE MINIMUM DIMENSIONS OF THE GRASSED LINED SWALES.

CONSTRUCTION SPECIFICATIONS

- ALL TREES, BRUSH, STUMPS, OBSTRUCTIONS AND OTHER OBJECTIONABLE MATERIAL SHALL BE REMOVED AND DISPOSED OF SO AS NOT TO INTERFERE WITH THE PROPER FUNCTIONING OF THE WATERWAY.
- THE WATERWAY SHALL BE EXCAVATED OR SHAPED TO LINE, GRADE AND CROSS SECTION AS REQUIRED TO MEET THE CRITERIA SPECIFIED HEREIN, AND BE FREE OF BANK PROJECTIONS OR OTHER IRREGULARITIES WHICH WILL IMPEDE NORMAL FLOW.
- FILLS SHALL BE COMPACTED AS NEEDED TO PREVENT UNEQUAL SETTLEMENT THAT WOULD CAUSE DAMAGE IN THE COMPLETE WATERWAY.
- ALL EARTH REMOVED AND NOT NEEDED IN CONSTRUCTION SHALL BE SPREAD OR DISPOSED OF SO THAT IT WILL NOT INTERFERE WITH THE FUNCTIONING OF THE WATERWAY.
- STABILIZATION SHALL BE DONE ACCORDING TO THE APPROPRIATE STANDARD AND SPECIFICATIONS FOR VEGETATIVE PRACTICES.
- SEEDING AND MULCHING MAY BE USED FOR THE ESTABLISHMENT OF THE VEGETATION. IT IS RECOMMENDED THAT, WHEN CONDITIONS PERMIT, TEMPORARY WATERWAYS OR OTHER MEANS SHOULD BE USED TO PREVENT WATER FROM ENTERING THE WATERWAY DURING THE ESTABLISHMENT OF THE VEGETATION.

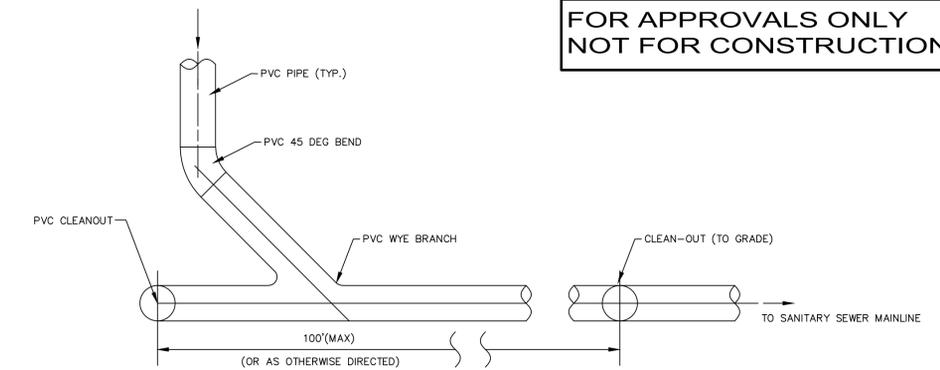
3	GRASSED WATERWAY
C502	NOT TO SCALE



NOTES:

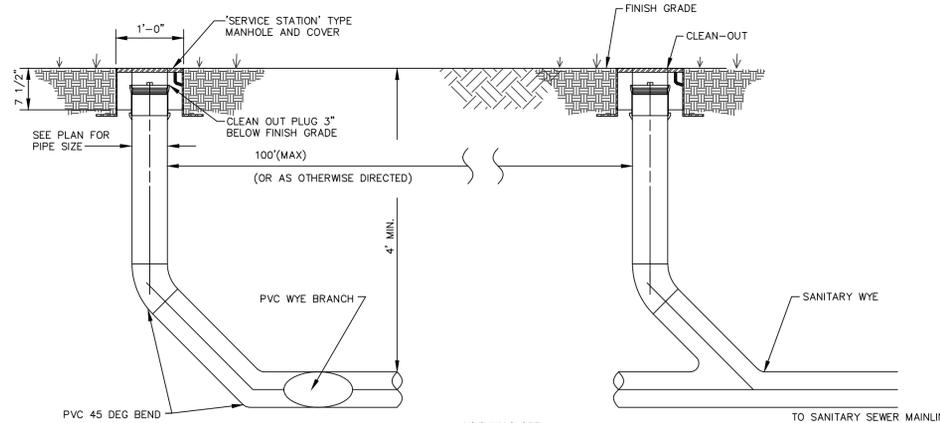
- ALL MANHOLE SECTIONS TO BE HS-20 LOAD RATING MINIMUM.

4	STORM MANHOLE DETAIL (STMH)
C502	NOT TO SCALE
	D101-01



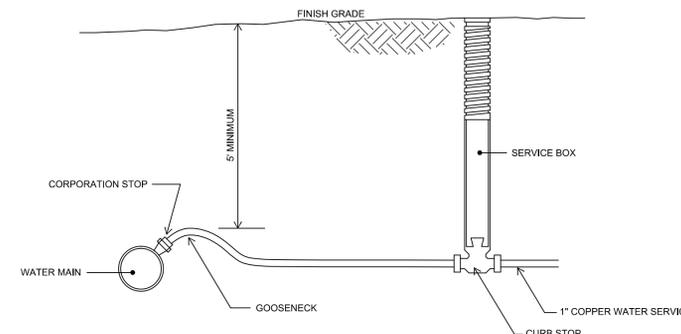
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PLAN

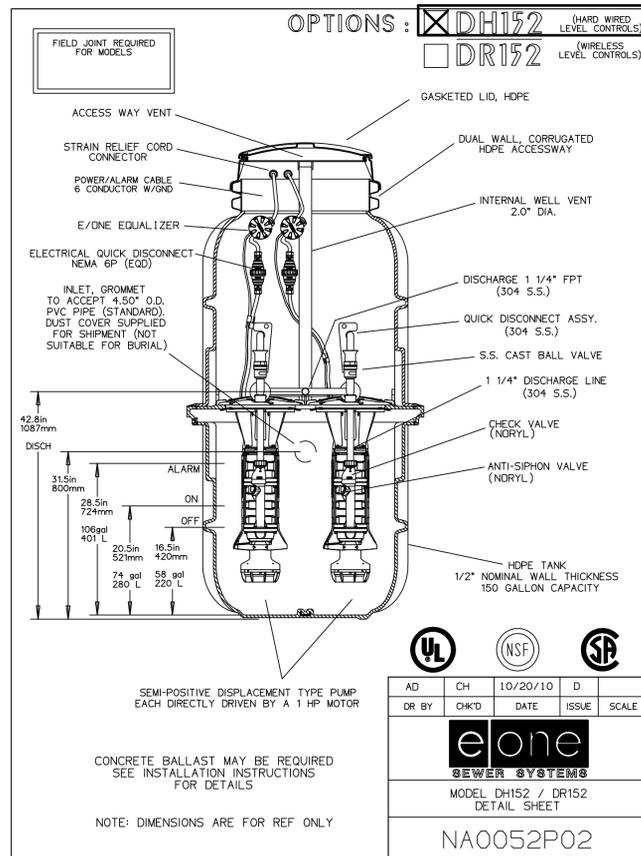


MINIMUM SLOPE
6" PVC = 1.00%
4" PVC = 2.00%

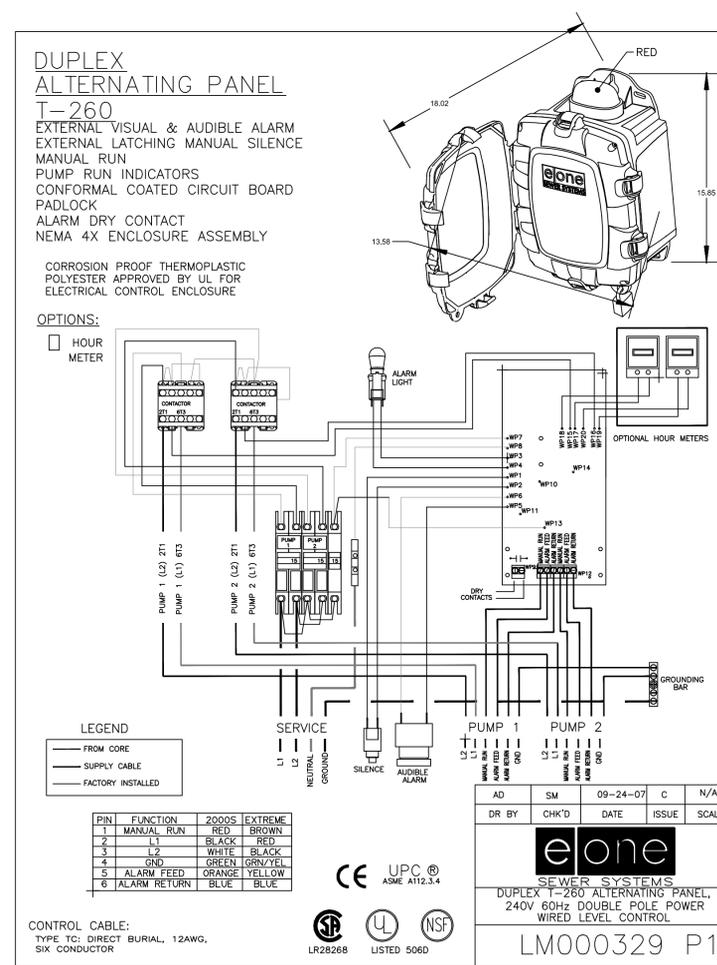
5	TYPICAL SEWER LATERAL DETAIL
C502	NOT TO SCALE
	D163-01



6	TYPICAL SERVICE CONNECTION TO WATER MAIN DETAIL
C502	NOT TO SCALE
	W102-01

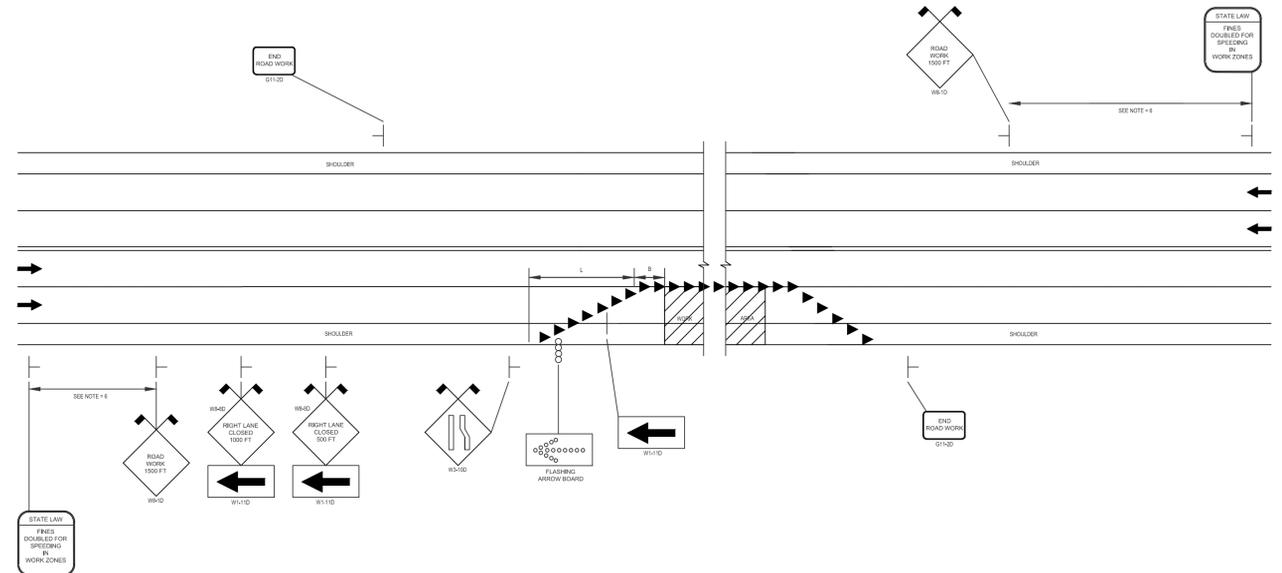


1	PUMPING STATION DETAIL
C503	NOT TO SCALE



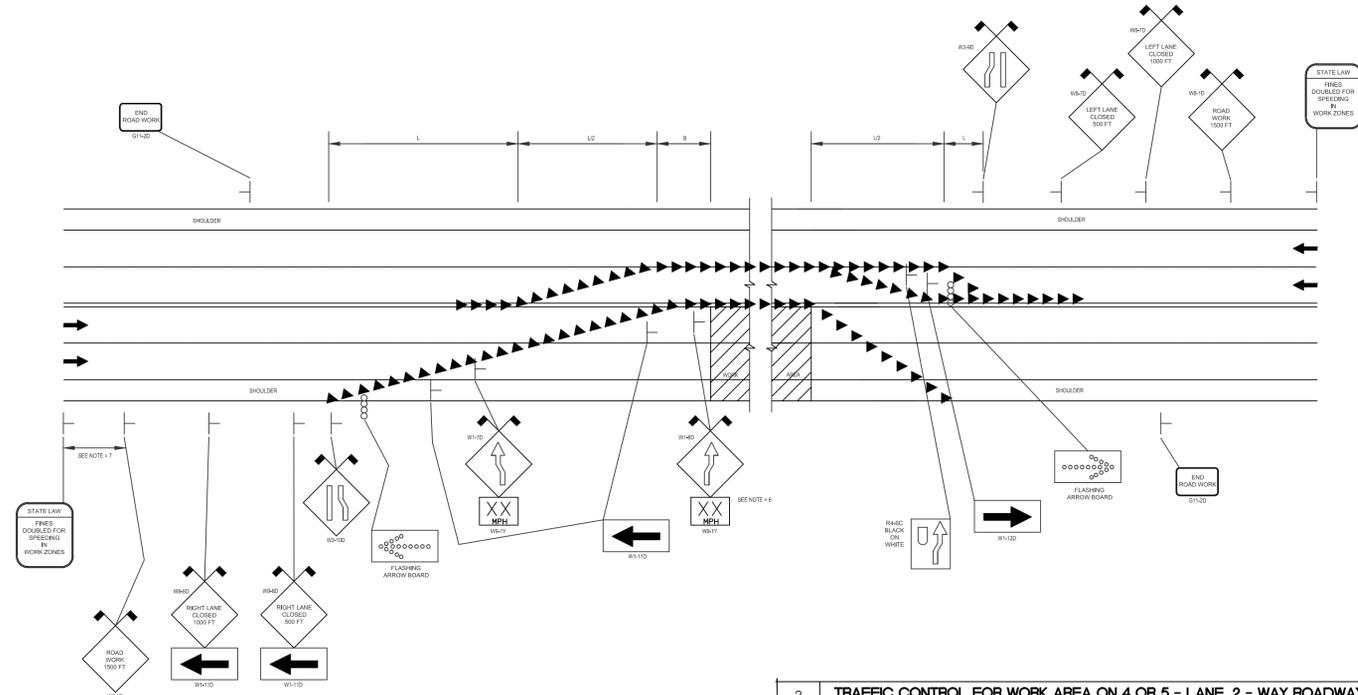
2	PUMPING STATION CONTROL PANEL DETAIL
C503	NOT TO SCALE

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- NOTES:**
1. LEGEND: ▲ DELINIAATION DEVICE, ○ FLASHING ARROW BOARD
 2. "L" APPROX. = TRANSITION LENGTH SEE TABLE I, STANDARD TAPER LENGTHS
 3. "B" APPROX. = BUFFER ZONE SEE TABLE I, STANDARD TAPER LENGTHS
 4. THE MAXIMUM SPACING BETWEEN DELINIAATION DEVICES SHALL BE EQUIVALENT TO THE NUMERICAL VALUE OF THE SPEED LIMIT OR 40 L.F. (12M) MAX.
 5. "L" DISTANCE SHOULD BE PROVIDED WHERE NO INTERFERENCE OCCURS WITH SIDEROADS OR INTERCHANGES. IF AN INTERSECTION FALLS WITHIN THE "L" DISTANCE THEN THE FULL TAPER SHALL BE COMPLETED BEFORE THE INTERSECTION.
 6. INSTALL SIGN 1000 FT (304M) UPSTREAM OF THE FIRST WARNING SIGN ON HIGHWAYS WITH THE 85th PERCENTILE SPEEDS EQUAL TO OR GREATER THAN 45 MPH AND 300-500 FT (91M-152M) UPSTREAM FOR SPEEDS UNDER 45 MPH.

1 TRAFFIC CONTROL FOR WORK AREA ON 4 OR 5 - LANE, 2 - WAY ROADWAY (RIGHT LANE CLOSURE)
C507 NOT TO SCALE



- NOTES:**
1. LEGEND: ▲ DELINIAATION DEVICE, ○ FLASHING ARROW BOARD
 2. "L" APPROX. = TRANSITION LENGTH SEE TABLE I, STANDARD TAPER LENGTHS
 3. "B" APPROX. = BUFFER ZONE SEE TABLE I, STANDARD TAPER LENGTHS
 4. THE MAXIMUM SPACING BETWEEN DELINIAATION DEVICES SHALL BE EQUIVALENT TO THE NUMERICAL VALUE OF THE SPEED LIMIT OR 40 L.F. (12M) MAX.
 5. "L" DISTANCE SHOULD BE PROVIDED WHERE NO INTERFERENCE OCCURS WITH SIDEROADS OR INTERCHANGES. IF AN INTERSECTION FALLS WITHIN THE "L" DISTANCE THEN THE FULL TAPER SHALL BE COMPLETED BEFORE THE INTERSECTION.
 6. "XX" SPEED TO BE DETERMINED BY THE REG. TRAFFIC ENGINEER. ADVANCE POSTING DISTANCE SHALL BE PER TABLE IV.
 7. INSTALL SIGN 1000 FT (304M) UPSTREAM OF THE FIRST WARNING SIGN ON HIGHWAYS WITH THE 85th PERCENTILE SPEEDS EQUAL TO OR GREATER THAN 45 MPH AND 300-500 FT (91M-152M) UPSTREAM FOR SPEEDS UNDER 45 MPH.

2 TRAFFIC CONTROL FOR WORK AREA ON 4 OR 5 - LANE, 2 - WAY ROADWAY (TWO LANES CLOSED)
C507 NOT TO SCALE

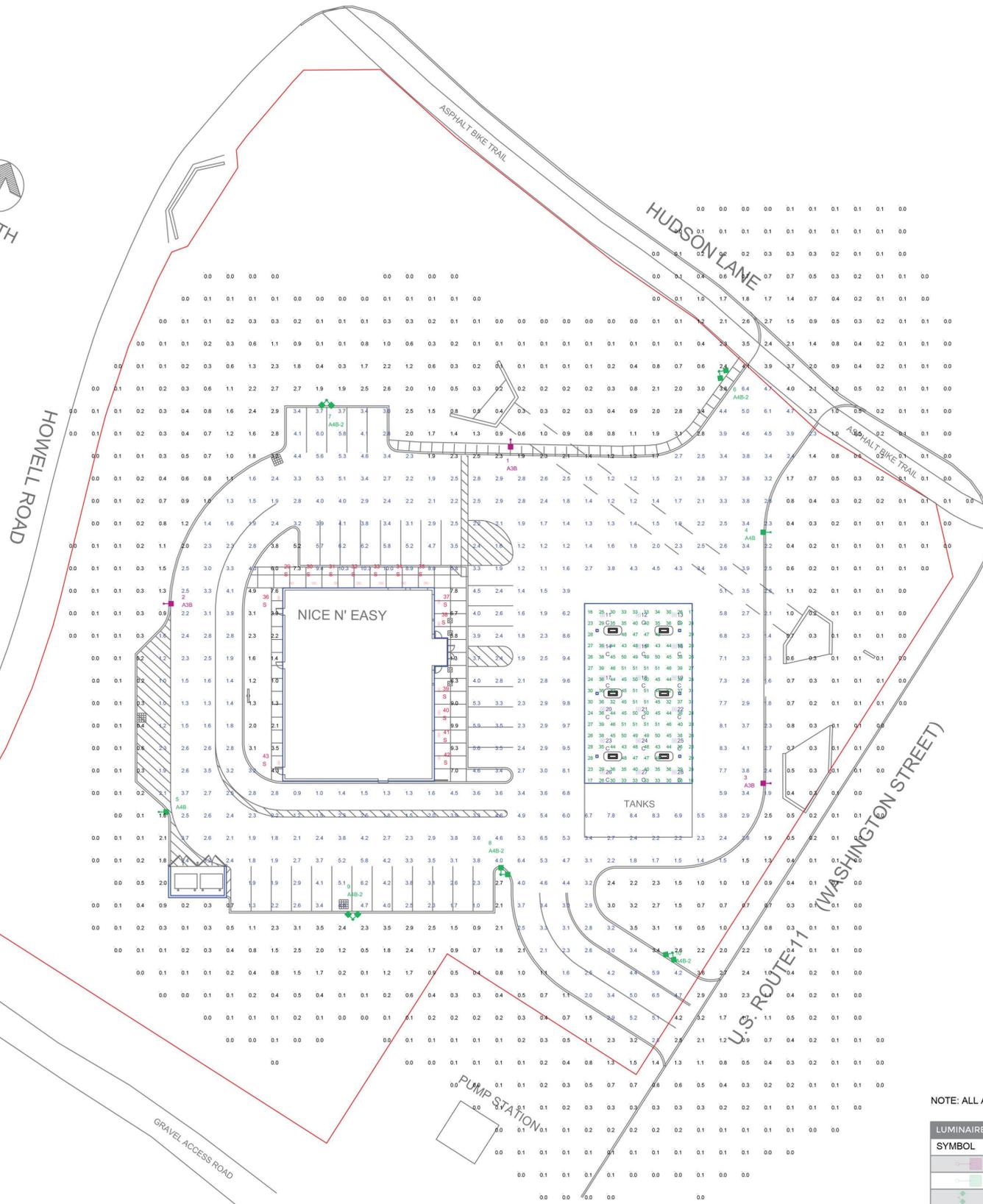
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MPT DETAILS
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WASHINGTON STREET, CITY/TOWN OF WATERTOWN
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Date Issued: 10-16-2014
Drwg. No.

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C504



LUMINAIRE LOCATION SUMMARY

LUM NO.	LABEL	MTG. HT.
1	A3B	22
2	A3B	22
3	A3B	22
4	A4B	22
5	A4B	22
6	A4B-2	22
7	A4B-2	22
8	A4B-2	22
9	A4B-2	22
10	A4B-2	22
11	C	15
12	C	15
13	C	15
14	C	15
15	C	15
16	C	15
17	C	15
18	C	15
19	C	15
20	C	15
21	C	15
22	C	15
23	C	15
24	C	15
25	C	15
26	C	15
27	C	15
28	C	15
29	S	12
30	S	12
31	S	12
32	S	12
33	S	12
34	S	12
35	S	12
36	S	12
37	S	12
38	S	12
39	S	12
40	S	12
41	S	12
42	S	12
43	S	12

FOOTCANDLE LEVELS CALCULATED AT GRADE USING INITIAL LUMEN VALUES

LABEL	AVG	MAX	MIN	AVG/MIN	MAX/MIN
PAVED AREA	3.34	10.3	0.9	3.71	11.44
UNDEFINED AREA	0.74	9.9	0.0	N.A.	N.A.
UNDER CANOPY	37.90	51	16	2.37	3.19

NOTE: ALL AREA LIGHTS ON NEW 20 FT. POLE MOUNTED ON 2 FT. CONCRETE BASE

SYMBOL	QTY	LABEL	ARRANGEMENT	LUMENS	LLF	ARR. WATTS	TOTAL WATTS	MANUFACTURER	DESCRIPTION
	3	A3B	SINGLE	8619	1.040	133	399	CREE, INC.	ARE-EDG-3MB-DA-08-E-UL-WH-525
	2	A4B	SINGLE	9258	1.040	133	266	CREE, INC.	ARE-EDG-4MB-DA-08-E-UL-WH-525
	5	A4B-2	2 @ 90 DEGREES	9258	1.040	266	1330	CREE, INC.	ARE-EDG-4MB-DA-08-E-UL-WH-525
	18	C	SINGLE	10912	1.040	101	1818	CREE, INC.	CAN-304-SL-RS-06-E-UL-WH-525
	15	S	SINGLE	4167	1.040	52	780	BETALED, A DIVISION OF RUUD LI	SFT-227-5M-RM-03-D-UL-WH-525

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SCALE: 1" = 30'
LAYOUT BY: BJM
DWG SIZE: D
DATE: 9/17/14

PROJECT NAME:
**NICE N EASY
WATERTOWN, NY.**
DRAWING NUMBER:
RL-2321-S1



AREA LIGHTS

SYMBOL	QTY	LABEL
	3	A3B

ARE-EDG-3MB-DA-08-E-UL-WH-525

ARE-EDG-3MB/3MP-DA

Cree Edge™ Area Luminaire – Type II Medium w/ Backlight Control – Direct Arm Mount

Product Description
Slim, low profile design minimizes wind load requirements. Luminaire sides are rugged cast aluminum with integral, weatherlight LED driver compartments and high performance aluminum heat sinks. Convenient, interlocking mounting method. Mounting housing is rugged die cast aluminum and mounts to 3-4" (76-102mm) square or round pole. Luminaire is secured by two 5/16-18 UNC bolts spaced on 2" (51mm) centers.

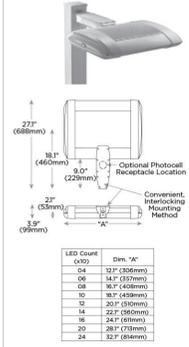
Performance Summary

- Utilizes BetaLED® Technology
- Patented NanoOptic® Product Technology
- Made in the U.S.A. and/or imported parts
- CRI: Minimum 70 CRI
- CCT: 5700K (+/- 500K) Standard, 4000K (+/- 300K)
- Limited Warranty*: 10 years on luminaire / 10 years on Colorfast DeltaGuard® Finish
- EPA and Weight Reference EPA and Weight spec sheet

Accessories

Field Installed Accessories

XA-BRDSPK Bird Spikes



Ordering Information

ARE-EDG	Optic	Mounting	LED Count (x10)	Series	Voltage	Color Option	Drive Current	Options
ARE-EDG	DM	DA	04	E	UL	WH	350*	40K 4000K Color Temperature
	Type II Medium w/ Backlight Control	Direct Arm	04	E	UL	White	350*	Color temperature per luminaire
	w/ Backlight Control		08	UL	100-277V	WH	525*	DM 0-10V Dimming
			12	UL	100-277V	WH	525*	Control by other
	Type II Medium w/ Backlight Control		16	UL	100-277V	WH	525*	Refer to dimming spec sheet for details
			20	UL	100-277V	WH	525*	Control by other
			24	UL	100-277V	WH	525*	Refer to dimming spec sheet for details
			24	UL	100-277V	WH	525*	Control by other
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			24					

2014-033E

ENGINEERING REPORT

PROPOSED CONVENIENCE STORE

**CITY OF WATERTOWN/TOWN OF WATERTOWN
JEFFERSON COUNTY, NEW YORK**



ENGINEERING REPORT

**PROPOSED CONVENIENCE STORE
WASHINGTON STREET
CITY OF WATERTOWN/TOWN OF WATERTOWN
JEFFERSON COUNTY
STATE OF NEW YORK**

**VALENTINE STORES, INC.
PO BOX 840
WATERTOWN, NY 13601
PH: (315) 782-0982
CONTACT: MR. ED VALENTINE**

**PROJECT # 2014-033E
16 OCTOBER 2014**



**PATRICK J. SCORDO, P.E.
DIRECTOR OF ENGINEERING**

The above Engineer states that to the best of his knowledge, information and belief, the plans and specifications are in accordance with the applicable requirements of New York State. It is a violation of New York State Law for any person, unless acting under the direction of a licensed professional engineer to alter this document in any way. If altered, such licensee shall affix his or her seal and the notation "altered by" followed by his or her signature, date, and a specific description of alteration.

**GYMO ARCHITECTURE, ENGINEERING
& LAND SURVEYING, P.C.
220 STERLING STREET-WATERTOWN, NY-TELE: (315)788-3900 FAX: (315)788-0668**

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1.0 SITE AND PROJECT DESCRIPTIONS

1.1 Location

The project is located on Washington Street in the City of Watertown and Town of Watertown, Jefferson County, New York. The project area is located on the southwest corner of the intersection of Washington Street and Hudson Lane on a vacant lot. Summit Wood Housing Development exists to the west of the project site.

The project is located on City of Watertown Tax parcel 14-26-102.1. The proposed lot is approximately 2.91 acres (2.27 acres in City of Watertown).

The approximate project site limits can be seen on the civil plans in Appendix A.

1.2 Project Description

The project involves construction of a new ±5,800 sf convenience store. Sanitary sewer and water facilities will be installed within the site, as well as stormwater facilities to convey runoff to a treatment area at the south westerly portion of the site. The project will include asphalt parking areas and 12 fueling stations. These features are depicted on civil drawing set (see Appendix A). The utilities are discussed in greater detail in later sections of the report.

1.3 Zoning/Parking

The existing zoning of the project area is zoned entirely Commercial. The proposed use will be a retail gasoline station.

Parking requirements for retail use in the City of Watertown is 5 spaces per 1,000 square foot of retail space. The required number of spaces for the project site is 29 spaces (5,800SF/200).

1.4 Site Topography

The project site contains a high point elevation of approximately 558 feet at the easterly side of the site. The majority of the site generally drains via overland sheetflow in a westerly direction to an existing roadside ditch and to existing culverts located at the intersection of Hudson Lane and Howell Road.

Slopes on the site range from generally around three to thirteen percent as can be seen from the provided civil plans in Appendix B. The site generally drops approximately 27 feet as you travel from the east to the west across the site.

For existing cover and grade conditions, see attached orthoimagery (Appendix B) and existing topography on the civil drawings in Appendix A.

1.5 Soil Classification

According to the United States Department of Agriculture, Natural Resources Conservation Service (USDA NRCS), on the site you will find exclusively Farmington loam - three to eight percent slopes (FaB). FaB is a Hydrologic Soil Group D soil.

Research of USDA/NRCS soil mapping and previous engineering experience in the project area has revealed that, in general, bedrock is located near the ground's surface.

2.0 WATER FACILITIES

2.1 Water Distribution

Water service for this site will be supplied via an existing twelve-inch ductile iron water main located in the center of Washington Street. A 1-inch diameter copper water service has been designed to connect to this existing water main. A curb stop will be installed at the margin of Washington Street. The water lateral will remain privately owned up to the margin and the City of Watertown will own from the margin to the connection.

The projected flow for the convenience store with food service was calculated by averaging actual meter readings from other similar stores in the area. Using a peaking factor of 4, the maximum demand is 2.78 gallons/minute.

Anticipated Use	Anticipated Water Usage (GPD)
5,800 sf Convenience Store w/ food service	1,000

3.0 SANITARY SEWER FACILITIES

3.1 Existing Sanitary Sewer Facilities

A 12-inch gravity Sanitary Sewer, flowing south to north, currently exists along Washington Street. This main will be utilized for the projects sanitary sewer discharge.

3.2 Proposed Sanitary Sewer Facilities

A 4-Inch gravity sewer system, including a grease trap for kitchen waste will convey sanitary sewer waste to a grinder pumping station located in a grassed area south of the gas pumping stations and canopy. From the pumping station, a 1 ¼-Inch force main will connect to the existing sanitary sewer main located on the east side of Washington Street. The 20-feet prior to the connection will be gravity flow.

The pumping station was designed to handle both the average and peak flows from the proposed project. The estimated flows are shown in the Water Demand section of this report per NYS Department of Environmental Conservation (NYS DEC) guidelines. Additional details of the pump station designs can be reviewed in the attached calculations (Appendix C) and site utility plans and details.

4.0 HYDROLOGIC AND HYDRAULIC ANALYSIS

4.1 Off-Site

An existing swale currently carries offsite storm water from the east through the project site. The swale begins on the easterly portion of the site at three 36-Inch culverts that cross Washington Street and terminates at a headwall crossing Howell Road.

4.2 Onsite

The proposed drainage system will include catch basins and curbing installed in the parking lot, which will drain to the south into a stormwater management area. A lined dry swale is proposed to treat the stormwater for the site, as the project site is classified as a NYS DEC hotspot. Discharge under the proposed conditions will decrease when

compared to the existing conditions. A Stormwater Pollution Prevention Plan (SWPPP) report will be prepared for the project. Stormwater calculations will be provided upon completion of the SWPPP analysis.

For existing cover and grade conditions, see attached orthoimagery in Appendix B. Also, see attached civil drawings for grade conditions in Appendix A.

The Notice of Intent will be submitted to the NYS Department of Environmental Conservation (DEC) as required.

The stormwater piping will be High Density Polyethylene (HDPE). Storm water piping will be owned and maintained by the developer. The City of Watertown is contemplating owning and maintaining the three HDPE pipes used to divert the existing drainage from the Washington Street culverts.

The increase in peak flow will be attenuated in accordance with the NYS State Pollutant Discharge Elimination System (SPDES) requirements of no increase of the peak runoff from existing to proposed conditions of the 100 year - 24 hour storm event. The surrounding environment will also be protected from contamination and erosion through the implementation of Best Management Practices (BMP) during construction as required by the NYS DEC.

4.3 Proposed Storm Sewer Piping

The storm drainage piping will be designed to carry, at a minimum, the peak runoff of the 10 year - 24 hour storm event. In addition, a 100-year overland flood route will be designed to avoid flooding of any structures.

The three HDPE pipes used to convey storm water from the Washington Street culverts will be designed to convey the 25 year - 24 hour storm event.

4.4 Proposed Storm Water Management

A stormwater treatment area will be designed to comply with NYS SPDES guidelines for discharges from construction projects. The stormwater treatment area will provide quantity control of the peak runoff from a 100 year - 24 hour storm event, and provide quality treatment of the first 0.9-inch of runoff from new impervious surfaces. The Stormwater management location is shown on Civil Plan Sheets in Appendix A.

This site currently contains no onsite storm water treatment or storage facilities.

To size the treatment facilities, a drainage analysis will be completed for future conditions.

The anticipated land cover for the project is impervious area in the form of paved driveways, buildings, and parking lots along with pervious grassed lawn and landscaped areas. The onsite soils are hydrologic group D.

A lined dry swale from the NYS Stormwater Management Design Manual has been selected as the choice for the stormwater treatment proposed for runoff treatment.

5.0 TRAFFIC ANALYSIS

5.1 Estimated Additional Daily Traffic

During a meeting with the City Engineering Department on 14 October 2014, it was agreed that rather than using the ITE Trip Generation Traffic Study data, the most accurate (and building use specific) means to assess traffic projections would be for

GYMO, P.C. to count trip totals and determine a peak hour traffic volume using the recently built and comparable Nice and Easy Convenience Store and Tim Horton's Donut Shop, located on Coffeen Street in the Town of Watertown. However, it must be noted that the Coffeen Street Convenience Store and Donut Shop has 16 fueling stations, while the Washington Street Convenience Store proposes 12 fueling stations. Additionally, GYMO, P.C. will be obtaining traffic stacking data as traffic approaches the traffic signal at the intersection of Washington Street and Hudson Lane.

GYMO, P.C. conducted a traffic study to determine the stacking of east bound traffic on Hudson Lane at the Washington Street intersection. A representative of GYMO, P.C. monitored the number of vehicles stacked at the intersection on Hudson Lane during weekday peak hour traffic (7:00-9:00 AM and 4:00-6:00 PM (Typical peak hours for traffic studies conducted)) on 16 October 2014 and 17 October 2014. The maximum vehicles recorded were three stacked at this intersection. Adverse impacts from stacking of vehicles on Hudson Lane at this intersection are not anticipated.

Traffic stacking data was also collected for north bound traffic on Washington Street heading into the City of Watertown (20 October 2014 AM). During the peak hour, the most recorded stacked cars at the intersection headed northbound was seven vehicles. The distance between the intersection and the proposed driveway is approximately 260'. Stacking at this intersection should not adversely affect the proposed driveway onto Washington Street.

Additionally, GYMO, P.C. conducted a traffic study on the existing Nice and Easy and Tim Horton's on Coffeen Street during weekday peak hours on 16 October 2014, 17 October 2014, and 20 October 2014. The data showed an AM peak hour of 133 trip ends (55 drive thru trips). Considering that the proposed Washington Street Store will only have 12 fueling stations and the owner's market study of the project location predicts fewer transactions, a reduction of 35% of the peak hour traffic is anticipated from the Coffeen Street location, meaning the peak hour is predicted to be 87 vehicles (36 drive thru trips). It is anticipated that during the peak hour (AM), the majority of the traffic to utilize the Washington Street exit and make a left hand turn will be drive thru customers. Of the 36 peak hour drive thru trips, 70% are anticipated to enter the City of Watertown from the Nice and Easy directly onto Washington Street (the other 30% are anticipated to utilize the intersection on Hudson Lane or take a right hand turn onto Washington Street from the Nice and Easy and enter the Town of Watertown). Therefore approximately 25 cars (less than 2 cars per minute) are anticipated to make a left hand turn directly onto Washington Street during the AM peak hour. The intersection and traffic signal will allow for delays in south bound traffic and allow for these vehicles to enter the north bound traffic lane.

The developer originally requested a driveway, containing one lane in and two lanes out onto Washington Street. In consideration of the City of Watertown's concern of reducing the points of potential traffic conflict on Washington Street, the owner has agreed to reduce their request to a driveway, containing one lane in and one lane out onto Washington Street.

Traffic data collected on the intersection and the Coffeen Street Store is attached in Appendix D.

6.0 SENSITIVE AREA INVESTIGATION

6.1 Floodzone

The FEMA Flood Insurance Rate Map indicates the project is located within floodzone X (in project area located in the Town of Watertown) corresponding to areas outside the 500-year flood and is not located within any special flood zones within the City of Watertown. See attached FEMA Flood Mapping in Appendix B.

6.2 Wetlands

The NYSDEC New York state Freshwater Wetlands Map and USFWS NWI Map show no regulated wetlands on the site. Beaver meadows is located to the west of the Summit Wood housing development. See attached wetland mapping in Appendix B.

6.3 Threatened/Endangered Species

The NYS DEC Environmental Mapper shows no endangered or threatened species on the project site. See attached mapping in Appendix B.

6.4 Archaeological Sensitive Areas

The NYS Historic Preservation Office Mapper shows the project site as being located within an Archaeological Sensitive Area. See attached mapping in Appendix B. However due to the development of adjacent projects, Archaeological Sensitive Areas within this 2.91 acre site are not anticipated.

7.0 LIGHTING

7.1 Site Lighting

Parking and sidewalk areas will be illuminated by a combination of LED fixtures mounted on 20 foot poles and down lights mounted under the gas and store canopies. Light details and photometrics plan can be seen on the Architectural Drawings attached in Appendix A.

8.0 LANDSCAPING

8.1 Existing Landscaping

There is currently no desirable landscaping on the proposed developed area.

8.2 Proposed Landscaping

The proposed landscaping can be seen on the Architectural Drawings attached in Appendix A. Plant species were selected to grow in existing soil conditions and hardiness zones as well as to conform to the City of Watertown's requirements.

9.0 **SUMMARY**

Provided the improvements described in this report are constructed within substantial conformance of detailed Engineering Plans and Specifications, this project and the corresponding infrastructure improvements will be an asset to the community.

Respectfully Submitted,
GYMO Architecture, Engineering & Land Surveying, PC



Thomas H. Ross
Design Engineer

APPENDIX A

SITE DEVELOPMENT PLANS

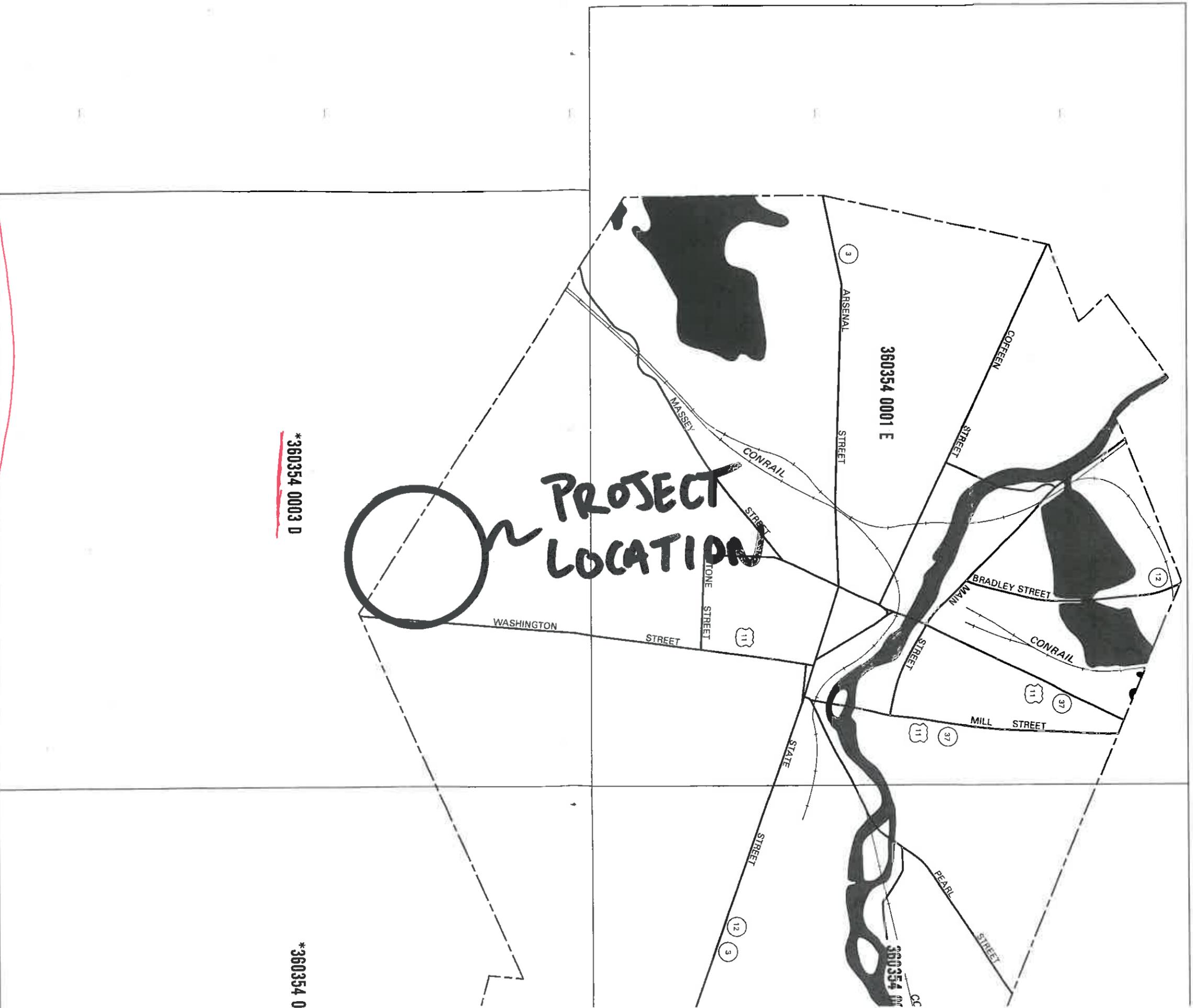
APPENDIX B

MAPPING



PROJECT
LOCATION

LEGEND
SPECIAL FLOOD HAZARD AREAS;
FOR ORIENTATION PURPOSES ONLY



* PANEL NOT PRINTED NO SPECIAL FLOOD HAZARD AREAS

*360354 0003 D

*360354 0

and flood hazard areas. The coastal flooding elevations shown may differ significantly from those developed by the National Weather Service for hurricane evacuation planning.

Areas not in Special Flood Hazard Areas may be protected by flood control structures.

Boundaries of the floodways were computed at cross sections and interpolated between cross sections. The floodways were based on hydraulic considerations with regard to requirements of the Federal Emergency Management Agency.

Floodway widths in some areas may be too narrow to show to scale. Floodway widths are provided in the Flood Insurance Study Report. Station reference marks are described in the Flood Insurance Study Report.

Vertical base flood elevations apply only landward of 0.0 NGVD. Vertical base flood elevations shown on this map include the effects of sea level rise action.

Adjoining map panels see separately printed Map Index.

MAP REPOSITORY
Federal Emergency Management Agency
Municipal Building, 6873 Brookside Dr., Watertown, NY 13601
Copies available for reference only, not for distribution.

INITIAL IDENTIFICATION:
APRIL 5, 1974

FLOOD HAZARD BOUNDARY MAP REVISIONS:
FEBRUARY 20, 1976
DECEMBER 17, 1976

FLOOD INSURANCE RATE MAP EFFECTIVE:
JUNE 5, 1985

FLOOD INSURANCE RATE MAP REVISIONS:
SEPTEMBER 30, 1987 - to add base flood elevations, to change special flood hazard areas, to change zone designations, and to update map data.

To determine if flood insurance is available, contact an insurance agent or call the National Flood Insurance Program at (800) 666-6620.



ZONE X

CONRAIL

63

LIMITS

CORPORATE

11

165

SPRING

VALLEY

DRIVE

PROJECT LOCATION

ZONE X

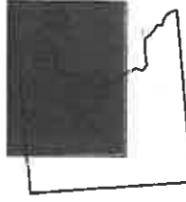
NATIONAL FLOOD INSURANCE PROGRAM

FIRM FLOOD INSURANCE RATE MAP

TOWN OF WATERTOWN, NEW YORK JEFFERSON COUNTY

PANEL 10 OF 20

(SEE MAP INDEX FOR PANELS NOT PRINTED)



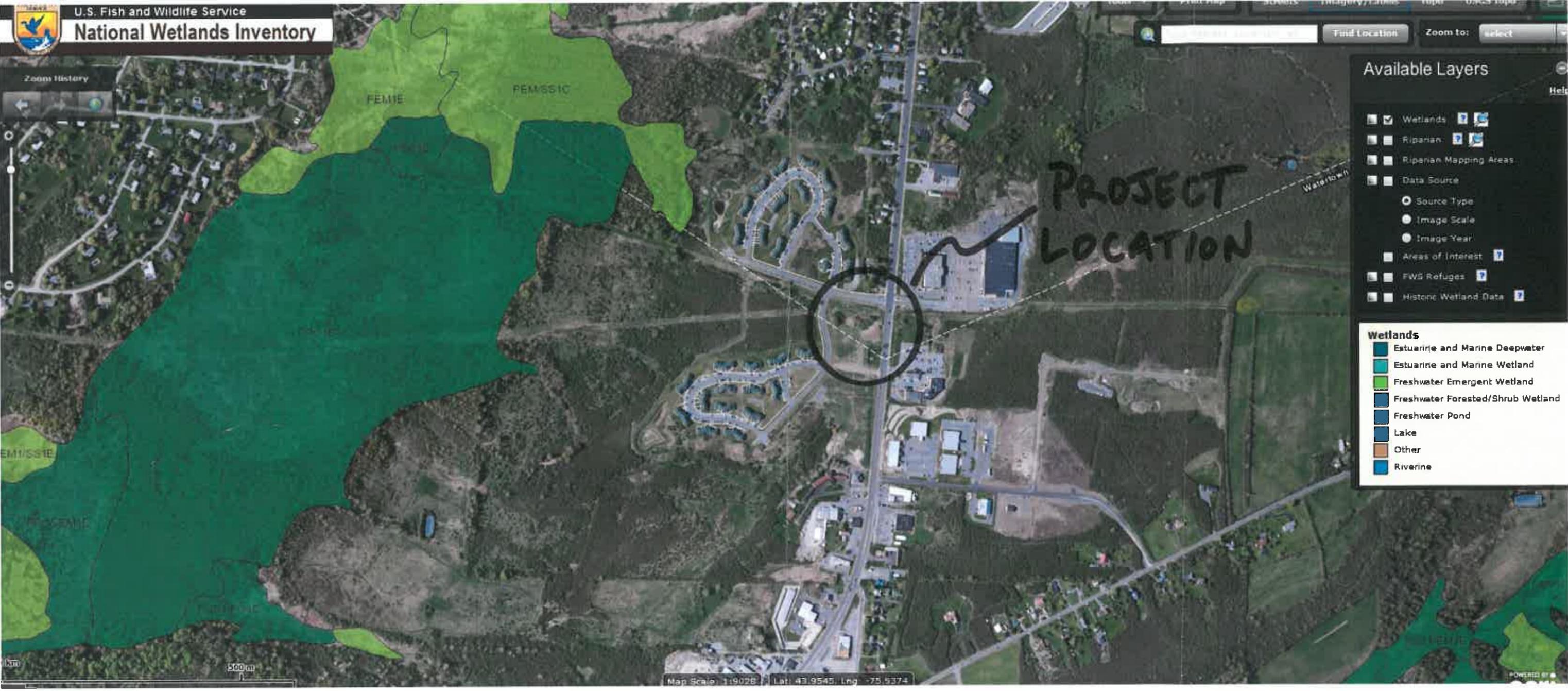
PANEL LOCATION

COMMUNITY-PANEL NUMBER 360355 0010 D

MAP REVISED: SEPTEMBER 30, 1987



Federal Emergency Management Agency



Available Layers

- Wetlands
- Riparian
- Riparian Mapping Areas
- Data Source
- Source Type
- Image Scale
- Image Year
- Areas of Interest
- FWS Refuges
- Historic Wetland Data

Wetlands

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

Map Scale: 1:9028 | Lat: 43.9545 | Long: -75.5374

Search	Layers & Legend	Tell Me More
Need a Permit?	Contacts	Help

Map Layers & Legend

More layers appear as you zoom in.

- Classified Water Bodies
- Unique Geological Features
- Classified Water Bodies
- State-Regulated Freshwater

Wetlands

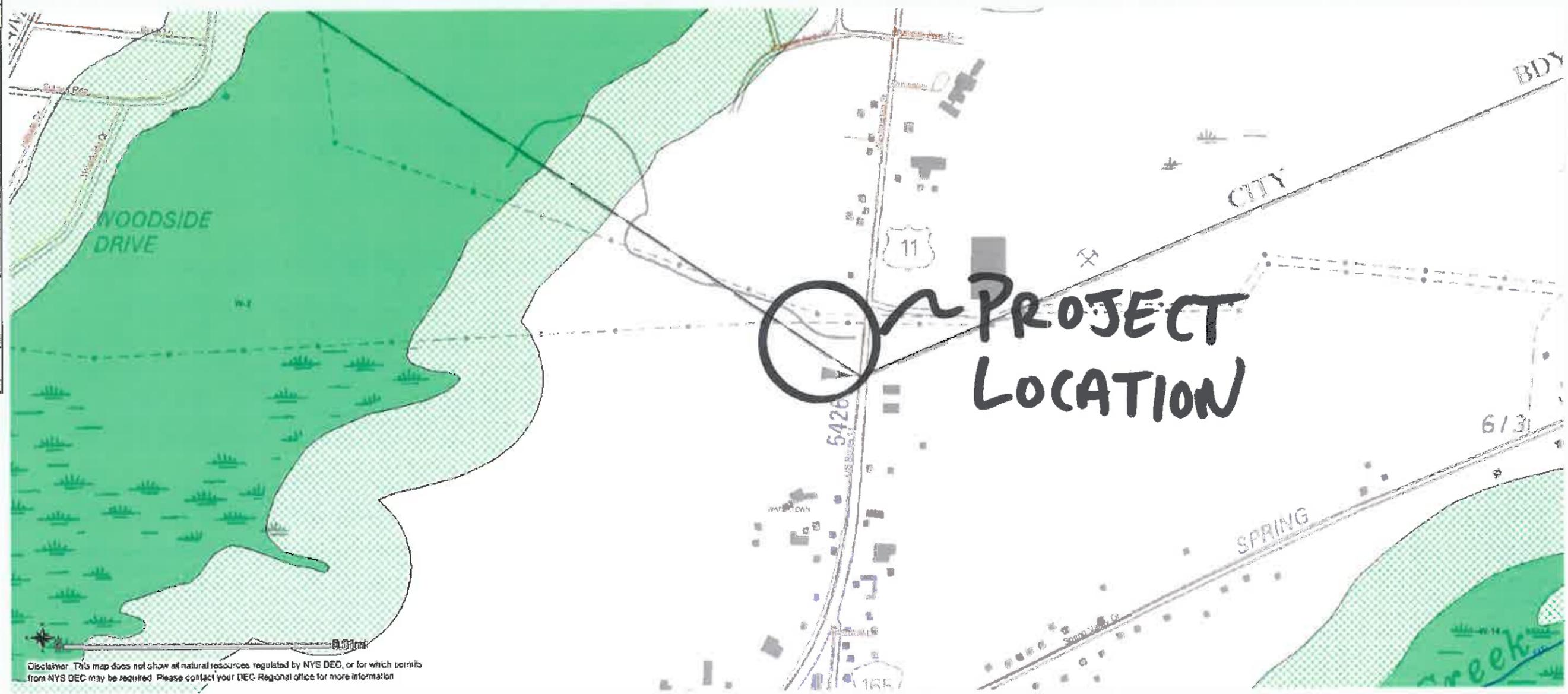
- Wetland Checkzone ?
- Rare Plants and Rare Animals
- Significant Natural Communities
- Natural Communities Vicinity ?

Background Map

- Adirondack Park Boundary
- Counties

Click "Refresh Layers" to activate and deactivate layers.

Refresh Layers

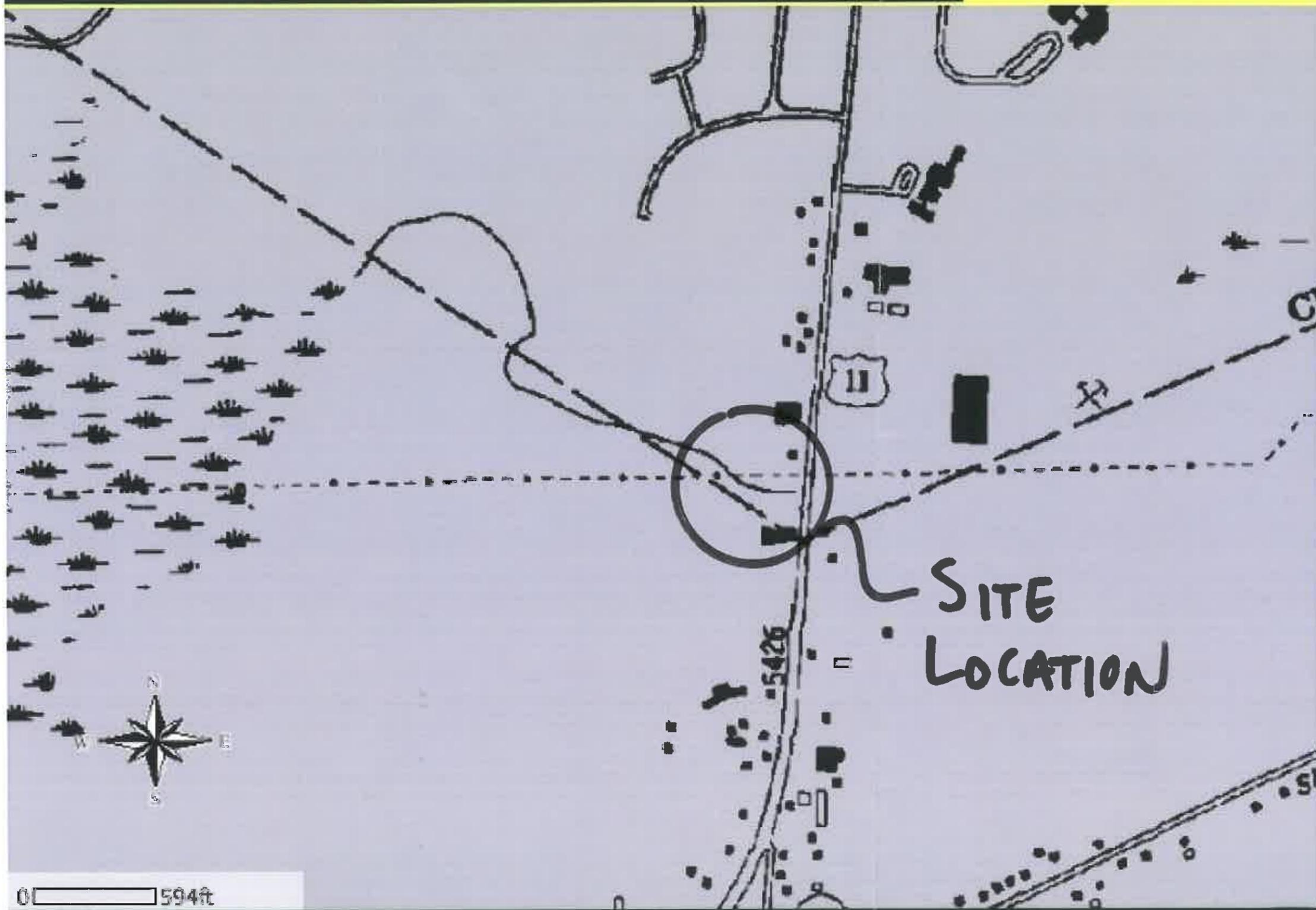


NYS DEC WETLANDS/RARE PLANTS AND ANIMALS



NY State Historic Preservation Office GIS-Public Access

Click on map to:



0 594ft

Query

Full View

Clear

Print

Zoom to Location

Help

View Layers

View Legend

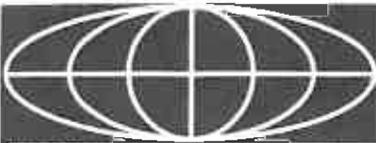
Visible Layer Name

- Background Maps (Scanned Quads)
- Archeo Sensitive Area
- State/National Register
- State Parks
- County Boundaries
- Quad Index
- Certified Local Governments
- Tax Credit Qualifying Tracts
- Municipal Boundaries

Refresh

APPENDIX C

PUMPING STATION CALCULATIONS



GYMO

ARCHITECTURE, ENGINEERING & LAND SURVEYING, P.C.

220 Sterling Street, Watertown, NY 13601 Tel: (315) 788-3900 Fax: (315) 788-0668

PROJECT

NICE + EASY - WASHINGTON ST.

SHEET

1/2

BY

THR

DATE

10/14/14

FILE NO.

2014-033E

→ Design Flow

AVERAGE FLOW = 1,000 gpd

= 1,000 / (1440 min/day) = 0.69 gpm

PEAK HOURLY FLOW = AVG x 4 = 2.76 gpm

→ SYSTEM: DYNAMIC-

- 125 LF OF FORCEMAIN FROM PS TO CONNECTION PT 1 1/4" SDR-35
- BENDS/FITTINGS ⇒ 26' OUT, 52' IN
- EQUIVALENT LENGTH = 203' SAY 205'

$$\text{Area} = \frac{\pi D^2}{576}$$

$$= 0.012 \text{ ft}^2$$

→ STATIC = CONNECTION POINT - GRADING INLET @ PS

= 554.32 - 545.46 = 8.86'

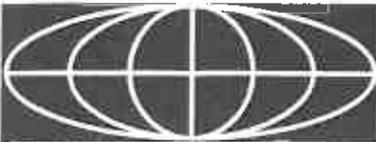
SAY 9.0'

Q	V (F/SEC)	STATIC	DYNAMIC	TDH
0		9.0'		9.0'
5	0.93	↓	0.12 x 4.73	9.57'
10	1.86		6.45 x 4.73	11.14'
15	2.79		0.95 x 4.73	13.50'
20	3.72		1.61 x 4.73	16.62'
25	4.65		2.44 x 4.73	20.54'

DYNAMIC = $H_L \times ERL \times$
 $(144 \text{ ft}^2/\text{ft}^2) \times (62.4 \text{ PCF})$
 $100' = H_L \times 4.73$

Pump OPERATES @ 13 TDH AND 14 GPM

$$V = \frac{Q}{A} = \frac{14 \text{ gpm}}{0.012 \text{ ft}^2} \times \frac{1 \text{ min}}{60 \text{ sec}} \times \frac{1 \text{ ft}^3}{7.48 \text{ gals}} = 2.6 \text{ F/SEC}$$



PROJECT

SHEET

BY

DATE

FILE NO.

$$\begin{aligned} \text{STORAGE VOLUME} &= \pi (R^2) \times H \\ &= \pi (11.7^2) \times 38.8'' \\ &= 14,741 \text{ in}^3 \left(\frac{144}{12^3} \right)^3 = 8.53 \text{ ft}^3 \times 7.48 \\ &= 63.2 \text{ GALLONS} \end{aligned}$$

AVERAGE FLOW

$$Q_{un} = 0.69 \text{ gpm, SAY } 1 \text{ gpm}$$

$$\text{FILL} = \frac{63.2 \text{ gallons}}{1 \text{ gpm}} = 63.2 \text{ mins}$$

$$\text{Pump} = \frac{63.2 \text{ gallons}}{14-1 \text{ gpm}} = 4.9 \text{ mins}$$

$$68.1 \text{ mins}$$

$$\rightarrow 0.88 \text{ cycles/hr}$$

PEAK FLOW

$$Q_{un} = 2.76 \text{ gpm, SAY } 3 \text{ gpm}$$

$$\text{FILL} = \frac{63.2}{3} = 21.1 \text{ mins}$$

$$\text{Pump} = \frac{63.2}{14-3} = 5.7 \text{ mins}$$

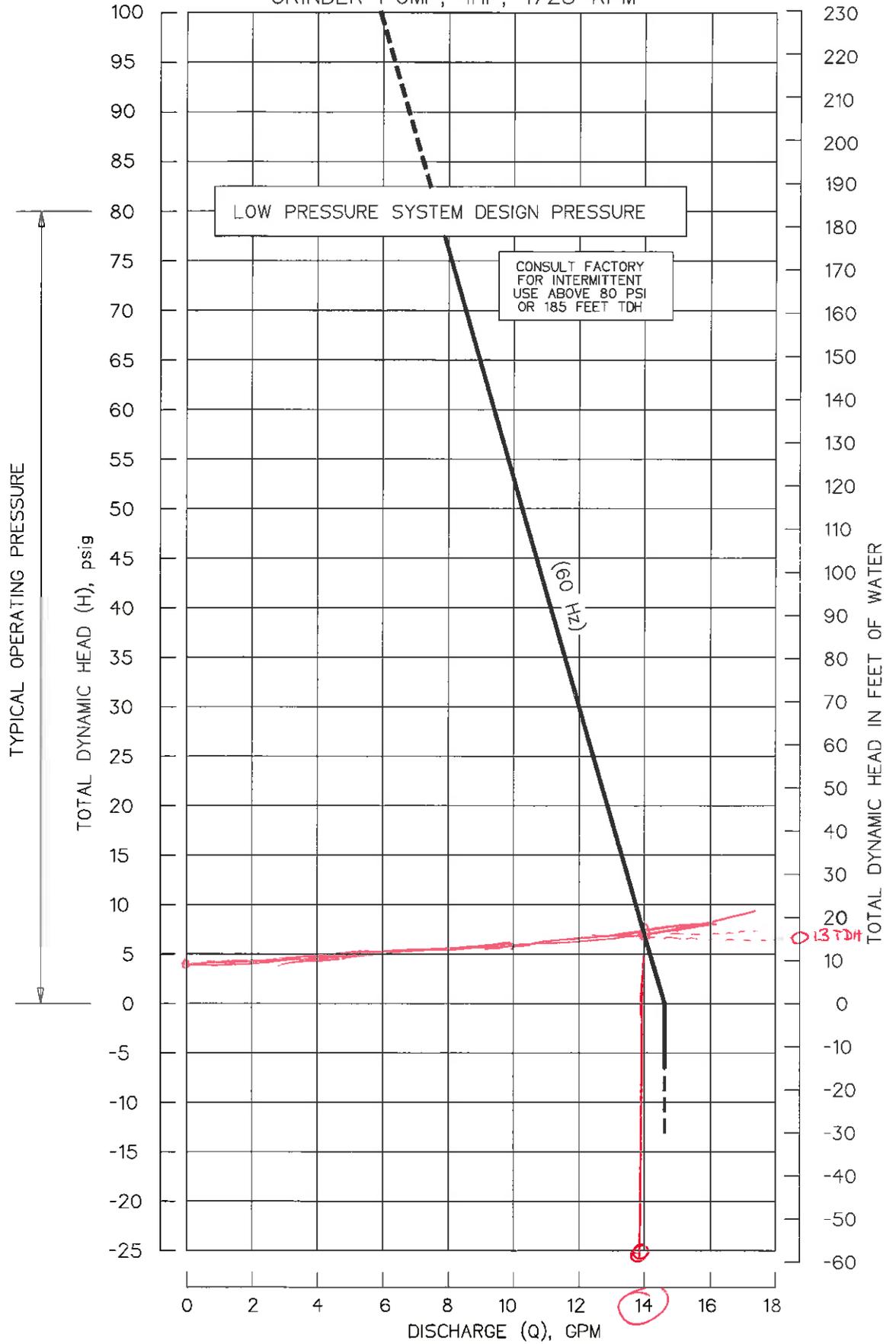
$$26.8 \text{ mins}$$

$$\rightarrow 2.2 \text{ cycles/hr}$$

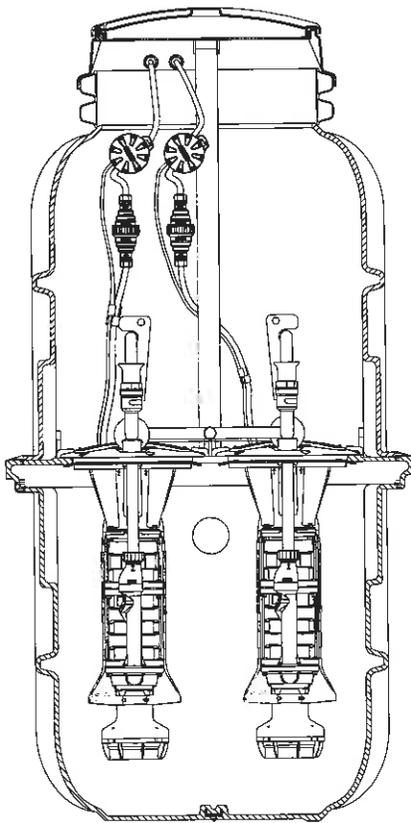
NOTE: UNDER NORMAL FLOW CONDITIONS
UNABLE TO MEET < 20 mins in
NET WELL before pumping out

ONE SPD PUMP PERFORMANCE CURVE

GRINDER PUMP, 1HP, 1725 RPM



DH152



Patent Numbers: 5,752,315
5,562,254 5,439,180

* Discharge data includes loss through check valve, which is minimal.

NA0052P01

General Applications

The size, efficiency and operating economy of the DH152 make it an ideal choice for multiple dwellings, waterfront property, subdivision developments and marinas. The DH152 is ideally suited for both new and existing communities.

General Features

The DH152 grinder pump station is a complete unit that includes: two grinder pumps with check valves, HDPE (high density polyethylene) tank and controls. The DH152 is packaged into a single complete unit, ready for installation.

All solids are ground into fine particles, allowing them to pass easily through the pump, check valve and small-diameter pipelines. Even objects that are not normally found in sewage, such as plastic, rubber, fiber, wood, etc., are ground into fine particles.

The 1 1/4-inch discharge connection is adaptable to any piping materials, thereby allowing it to meet local code requirements.

The tank is made of tough corrosion-resistant HDPE. The optimum tank capacity of 150 gallons is based on computer studies of water usage patterns. A single DH152 is ideal for up to four average, single-family homes, and can also be used for up to 12 average, single-family homes with the consent of the factory. This model can accommodate flows of 3000 GPD.

The internal check valve assembly, located in each grinder pump, is custom-designed for non-clog, trouble-free operation.

The grinder pump is automatically activated and runs infrequently for very short periods. The annual energy consumption is typically that of a 40-watt light bulb.

Units are available for indoor and outdoor installations. Outdoor units are designed to accommodate a wide range of burial depths.

Operational Information

Motor

1 hp, 1,725 rpm, high torque, capacitor start, thermally protected, 120/240V, 60 Hz, 1 phase

Inlet Connections

4-inch inlet grommet standard for DWV pipe. Other inlet configurations available from the factory.

Discharge Connections

Pump discharge terminates in 1 1/4-inch NPT female thread. Can easily be adapted to 1 1/4-inch PVC pipe or any other material required by local codes.

Discharge*

15 gpm at 0 psig (per pump)

11 gpm at 40 psig (per pump)

7.8 gpm at 80 psig (per pump)

Control Panel

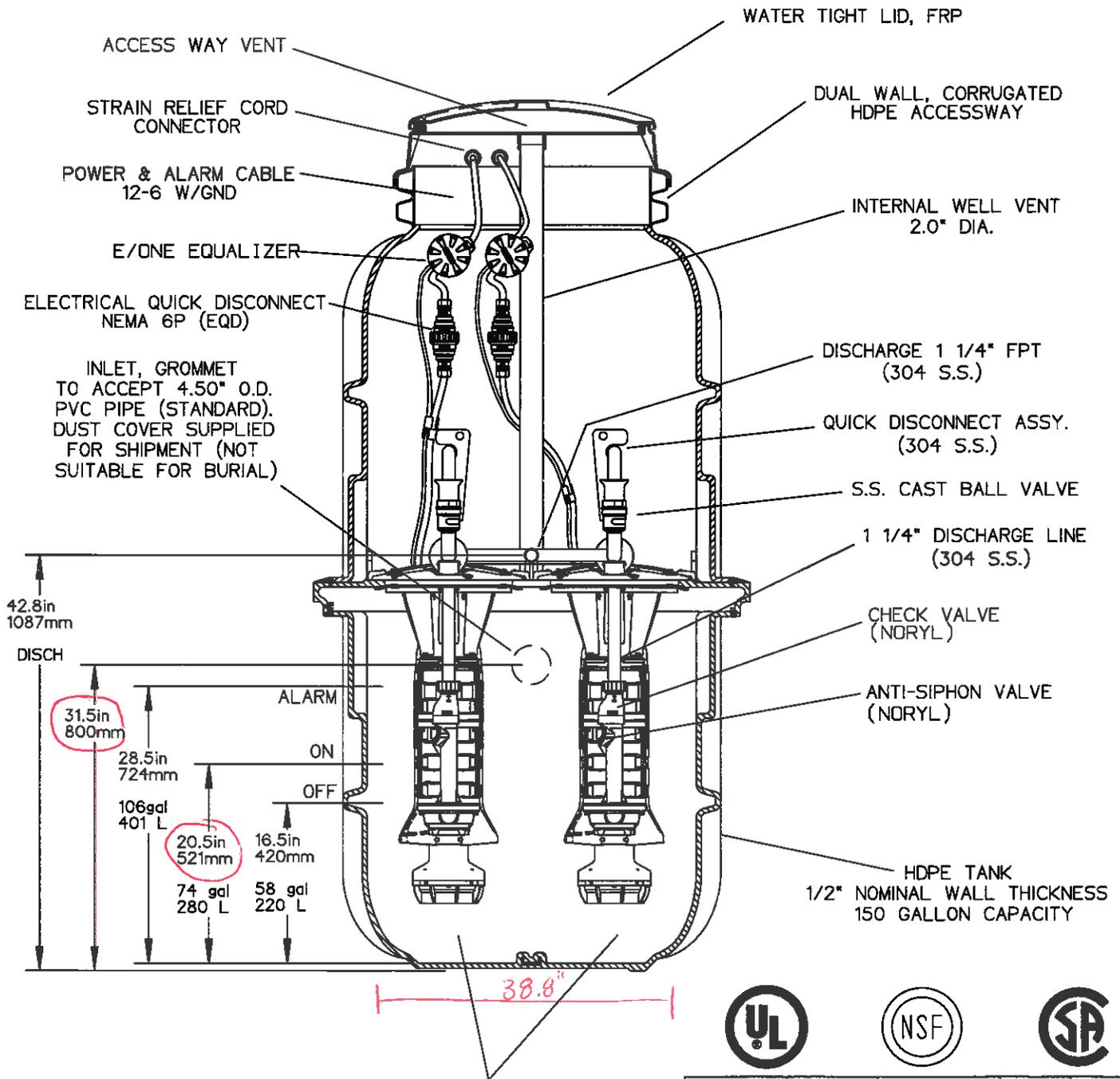
This station is designed to use the Alternating Control Panel, MOD T260.

Overload Capacity

The maximum pressure that the pump can generate is limited by the motor characteristics. The motor generates a pressure well below the rating of the piping and appurtenances. The automatic reset feature does not require manual operation following overload.

DH152

FIELD JOINT REQUIRED
FOR MODELS
DH152-129 & DH152-160



SEMI-POSITIVE DISPLACEMENT TYPE PUMP
EACH DIRECTLY DRIVEN BY A 1 HP MOTOR

BALLAST REQUIREMENTS

A CONCRETE ANCHOR IS REQUIRED
ON ALL OUTDOOR MODEL DH152 STATIONS
SPECIFIC CONCRETE DIMENSIONS ARE REQUIRED
TO ACHIEVE NECESSARY BALLAST EFFECT

SEE INSTALLATION INSTRUCTIONS FOR FURTHER DETAILS



LNT	GAE	04/24/07	-	
DR BY	CHK'D	DATE	ISSUE	SCALE



MODEL DH152
DETAIL SHEET

NA0052P02

APPENDIX D

TRAFFIC COUNT INFORMATION

10/16/14, 10/17/14, 10/20/2014		Thomas Ross	Project # 2014-033e
Peak Hours			
Bomax Nice and Easy			
Time (10/16/14 PM)	Number of Trip Ends	Time (10/17/14 AM)	Number of Trip Ends
4:00 - 4:10	16	7:00 - 7:10	15
4:10 - 4:20	15	7:10 - 7:20	16
4:20 - 4:30	15	7:20 - 7:30	9
4:30 - 4:40	20	7:30 - 7:40	27
4:40 - 4:50	16	7:40 - 7:50	25
4:50 - 5:00	12	7:50 - 8:00	22
5:00 - 5:10	14	8:00 - 8:10	15
5:10 - 5:20	13	8:10 - 8:20	18
5:20 - 5:30	19	8:20 - 8:30	18
5:30 - 5:40	20	8:30 - 8:40	15
5:40 - 5:50	9	8:40 - 8:50	23
5:50 - 6:00	13	8:50 - 9:00	17
PM Peak Hour	91	AM Peak Hour	133
Time (10/20/14 PM)	Number of Trip Ends	Time (10/20/14 AM)	Number of Trip Ends
4:00 - 4:10	15	7:00 - 7:10	14
4:10 - 4:20	13	7:10 - 7:20	13
4:20 - 4:30	11	7:20 - 7:30	16
4:30 - 4:40	9	7:30 - 7:40	18
4:40 - 4:50	10	7:40 - 7:50	17
4:50 - 5:00	12	7:50 - 8:00	13
5:00 - 5:10	10	8:00 - 8:10	18
5:10 - 5:20	22	8:10 - 8:20	15
5:20 - 5:30	16	8:20 - 8:30	11
5:30 - 5:40	16	8:30 - 8:40	16
5:40 - 5:50	11	8:40 - 8:50	17
5:50 - 6:00	10	8:50 - 9:00	10
PM Peak Hour	94	AM Peak Hour	102

10/16/2014	William Boulter
7:00 to 9:00	Thursday Morning
Washington ST	

Project # 2014-033e Washington Street Nice -N - Easy

Time	# of vehicles in queue	Type Of Vehicle	notes
7:00	1	School Bus	Turned Left
	1	Car	Turned Left
7:05	1	Car	Turned Left
	1	Pu Truck	Turned Right
7:13	2	Car	Turned Left
	1	School Bus	Turned Left
7:16	1	Car	Turned Left
7:21	1	Pu Truck	Turned Right
	1	Car	Turned Left
7:24	1	Car	Turned Left
7:28	1	Pu Truck	Turned Left
7:29	1	Car	Turned Right
7:30	1	Trash Truck	Turned Right
	1	Car	Turned Left
7:34	1	Car	Turned Left
7:37	1	Car	Turned Left
7:38	1	Car	Turned Left
7:39	1	Car	Went Straight
7:40	1	Car	Turned Left
	1	Pu Truck	Turned Left
7:42	1	Car	Turned Left
7:43	2	Car	Turned Left
	1	Pu Truck	Went Straight
7:45	1	Car	Turned Left
	1	Car	Turned Right
7:49	1	Car	Turned Left
	1	Car	Went Straight
7:51	2	Car	Turned Left
7:52	1	Car	Turned Left
7:53	1	Car	Turned Right
7:55	1	Car	Turned Left
7:57	1	Car	Turned Right
8:01	1	Car	Turned Right
8:03	2	Car	Turned Left
8:04	3	Car	Turned Left
8:05	2	Car	Turned Left
8:06	2	Car	Turned Left
8:07	1	Car	Turned Left
8:08	1	Pu Truck	Turned Left
8:12	1	Car	Turned Left
	1	School Bus	Turned Left
8:13	2	Car	Turned Left
8:14	3	Car	Turned Left
8:15	2	Car	Turned Left
8:16	2	Car	Turned Left
8:17	1	Car	Turned Right
	3	Car	Turned Left
8:18	2	Car	Turned Left
8:19	1	Car	Turned Right
8:20	2	Car	Turned Left
8:22	3	Car	Turned Left

10/16/2014	William Boulter
4:00 to 6:00	Thursday Evening
Washington ST	

Project # 2014-033e Washington Street Nice -N - Easy

Time	# of vehicles in queue	Type Of Vehicle	notes
4:00	2	Car	Turning Left
	1	Car	Turning Right
4:02	1	Car	Turning Right
4:03	1	Car	Turning Left
4:05	2	Car	Turning Left
4:06	2	Car	Turning Left
4:10	1	Car	Turning Left
4:11	2	Car	Turning Left
4:12	1	Car	Turning Left
4:13	1	Car	Turning Left
4:14	1	Car	Turning Right
4:15	2	Car	Turning Left
4:18	1	Car	Turning Left
4:20	1	Car	Turning Left
	1	Fed Ex truck	Turning Right
4:21	2	Car	Turning Left
4:22	4	car	Turning Left
4:24	1	Car	Turning Right
4:26	1	Car	Turning Left
4:28	2	Car	Turning Left
4:30	1	Car	Turning Left
4:31	1	Car	Turning Left
4:32	1	Car	Turning Left
	1	Car	Turning Right
4:33	1	Car	Turning Right
4:34	1	Car	Turning Right
	1	Car	Turning Left
4:36	1	Car	Turning Right
4:39	1	Car	Turning Right
	2	Car	Turning Left
4:40	1	Pu Truck	Turning Left
	1	Car	Turning Left
4:41	1	Car	Turning Left
4:42	2	Car	Turning Left
4:47	1	Car	Turning Left
4:49	1	Car	Turning Left
4:51	1	Car	Turning Right
4:52	1	Car	Turning Left
4:53	1	Car	Turning Right
4:54	1	Car	Turning Left
4:55	1	Car	Turning Left
	1	Car	Turning Right
4:57	2	Car	Turning Left
4:58	1	Car	Turning Right
4:59	2	Car	Turning Left
5:00	1	Car	Turning Left
5:02	1	car	Turning Right
5:03	1	Pu Truck	Turning Left
	1	Car	Turning Right
5:04	2	Car	Turning Left
5:05	1	Pu Truck	Turning Left

10/17/2014	William Boulter
7:00 to 9:00	Friday Morning
Washington ST	

Project # 2014-033e Washington Street Nice -N - Easy

Time	# of vehicles in queue	Type Of Vehicle	notes
7:00	1	Car	Turning left
7:01	1	School Bus	Turned Left
	1	Pu Truck	Turned Right
7:04	1	Pu Truck	Turned Left
7:06	1	Car	Turned Left
7:07	1	Car	Turned Left
7:10	1	Car	Turned Left
7:12	1	School Bus	Turned Left
	1	Car	Turned Left
7:14	1	Car	Turned Left
	1	Car	Turned Right
7:15	1	Car	Turned Left
7:16	3	Car	Turned Left
7:19	1	Car	Turned Left
7:20	1	Car	Turned Left
7:23	2	Car	Turned Right
	1	Pu Truck	Turned Left
7:24	1	Car	Turned Left
7:30	1	Car	Turned Left
7:32	1	Car	Turned Left
7:34	2	Car	Turned Left
7:35	1	Pu Truck	Turned Left
7:36	2	Car	Turned Left
7:39	1	Pu Truck	Turned Left
7:44	2	Car	Turned Left
7:47	1	Car	Turning left
7:48	1	Car	Turning left
7:49	1	Car	Turning left
7:52	3	Car	Turning left
7:53	1	Car	Going straight
	1	Car	Turning Right
7:54	1	Car	Turning left
	1	Car	Turning Right
7:55	1	Car	Turning Right
7:56	2	Car	Turning left
7:59	1	Car	Turning Right
8:00	1	Car	Turning Right
8:01	1	Car	Turning left
8:02	2	Car	Turning left
8:03	1	Car	Turning left
8:04	2	Car	Turning left
8:05	1	Car	Turning left
8:06	1	School Bus	turning left
	1	Pu Truck	Turning left
8:07	1	Car	Turning left
8:11	1	Pu Truck	Turning left
8:12	2	Car	Turning left
8:13	3	Car	Turning left
8:14	2	Car	Turning left
8:16	1	Car	Turning left
8:17	1	Car	Turning left

10/17/2014	William Boulter
4:00 to 6:00	Friday Evening
Washington ST	

Project # 2014-033e Washington Street Nice -N - Easy

HUDSON

Time	# of vehicles in queue	Type Of Vehicle	notes
4:00	1	Car	Turning Right
4:01	2	Car	Turning Left
4:02	1	Car	Turning Left
4:07	1	Car	Turning Left
4:08	1	Car	Turning Left
4:09	1	Car	Turning Left
4:11	2	Car	Turning Left
	1	car	turning Right
4:12	1	Pu Truck	Turning Left
4:14	1	Car	Turning Left
	1	Car	Turning Right
4:16	1	Car	Turning Left
	2	Car	Turning Right
4:18	2	Car	Turning Left
4:19	1	Car	Turning Left
4:20	1	car	Turning Left
4:23	1	Fed Ex	Turning Right
4:24	2	Car	Turning Left
4:26	2	Car	Turning Left
4:27	2	Car	Turning Left
4:28	1	Fed Ex	Turning Left
4:30	1	Car	Turning Left
4:31	2	Car	Turning Left
4:32	2	car	Turning Left
	1	Car	Turning Right
4:33	1	Car	Turning Right
4:34	2	Car	Turning Right
	1	Car	Turning Left
4:36	1	Car	Turning Left
4:37	1	Car	Turning Left
4:38	1	Car	Turning Left
	1	Car	Turning Right
4:39	1	Car	Turning Left
4:41	1	Pu Truck	Turning Left
	1	Pu Truck	Turning Right
	2	Car	Turning Left
4:43	2	Pu Truck	Turning Right
	2	Car	Turning Left
4:45	1	Car	Turning Left
4:46	1	Car	Turning Left
4:47	1	Car	Turning Left
4:48	1	Car	Turning Left
4:50	1	Car	Turning Left
4:51	1	Car	Turning Left
4:53	1	Car	Turning Right
	1	Car	Turning Left
4:54	1	Car	Turning Left
4:55	1	Car	Turning Left
4:56	2	Car	Turning Left
4:59	2	Car	Turning Left
5:01	1	Car	Turning Left

10/20/2014
 7:00 to 9:00
 Washington ST

William Boulter
 Monday Morning

Project # 2014-033e Washington Street Nice -N - Easy

Stack count North bound lane of Washington Street

Time of Red Light	Lane A	Lane B	notes
7:01	0	1	Lane A is the outside Lane / Lane B is the inside lane
7:03	0	0	
7:04	2	0	
7:05	0	0	
7:07	1	1	
7:10	1	0	
7:13	0	2	
7:14	0	0	
7:15	1	1	
7:17	0	2	
7:19	3	1	
7:21	2	3	
7:23	0	0	
7:24	2	1	
7:27	3	3	
7:28	3	2	
7:30	0	0	
7:31	2	2	
7:32	1	3	
7:34	0	0	
7:35	0	0	
7:36	0	1	
7:37	1	4	
7:39	2	1	
7:40	2	3	
7:42	0	0	
7:43	2	7	
7:45	0	0	
7:46	3	4	
7:48	2	4	
7:49	1	3	
7:50	4	4	
7:51	0	1	
7:52	1	1	
7:54	0	1	
7:55	0	4	
7:56	2	2	
7:57	3	4	
7:58	8	1	
8:00	0	0	
8:01	0	0	
8:03	1	4	
8:05	0	2	
8:06	4	5	
8:07	1	3	
8:08	0	1	
8:09	1	0	
8:10	0	1	
8:11	0	0	
8:12	0	1	
8:13	1	3	

