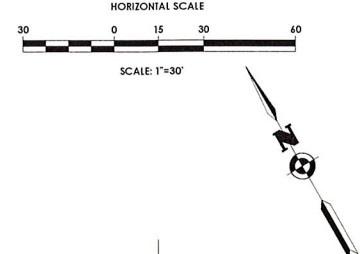


Oneonta Heights (Silver Creek) Stormwater Management Area Infiltration Testing

Testing completed on 8/12&13/15

Infiltration Test Number		Start Time	Finish Time	Elapsed Time (hours)	* Water Depth Start (inches)	* Water Depth Finish (inches)	Change in Water Level (inches)	Infiltration Rate (inches/Hour)	
8/12/2015									
IT-1	1	12:00 AM	1:00 PM	1	24	13	10	10	
IT-1	2	1:05 PM	2:05 AM	1	24	15	9	9	
IT-1	3	2:15 PM	3:15 PM	1	24	13	11	11	
IT-1	4	3:20 PM	4:20 PM	1	24	14	10	10	Average Infiltration rate
									10 in/hr
8/12/2015									
IT-2	1	12:10 PM	1:10 AM	1	24	14	10	10	
IT-2	2	1:20 PM	2:20 PM	1	24	13	8	8	
IT-2	3	2:25 PM	3:25 PM	1	24	13	11	11	
IT-2	4	3:30 PM	4:30 PM	1	24	14	10	10	Average Infiltration rate
									9.75 in/hr
8/13/2015									
IT-3	1	7:00 AM	8:00 AM	1	24	13	11	11	
IT-3	2	8:15 AM	9:15 AM	1	24	13	10	10	
IT-3	3	9:18 AM	10:18 AM	1	24	15	9	9	
IT-3	4	10:22 AM	11:22 PM	1	24	13	11	11	Average Infiltration rate
									10.25 in/hr
8/13/2015									
IT-4	1	7:10 AM	8:10 AM	1	24	14	10	10	
IT-4	2	8:20 AM	9:20 AM	1	24	14	10	10	
IT-4	3	9:25 AM	10:25 AM	1	24	15	9	9	
IT-4	4	10:30 AM	11:30 AM	1	24	13	11	11	Average Infiltration rate
									10 in/hr

Infiltration Tests
8/12/15 + 8/13/15



CITY OF ONEONTA
LOCATION SKETCH
N.T.S.

Client:
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Project Manager: David L. Cox, P.E.
Designed by: Matt Nissen, E.I.T.



Revisions		
No.	Date	Description
1	11/14/14	DC REVISED PER CITY COMMENTS
2	7/24/15	DC REVISED PER CITY COMMENTS
3	8/11/15	DC REVISED PER CITY COMMENTS

UNAUTHORIZED ALTERATIONS OR ADDITIONS TO THIS DRAWING IS IN VIOLATION OF STATE EDUCATION LAW ARTICLE 148 SECTION 1009 AND ARTICLE 147 SECTION 1707. THESE PLANS ARE COPYRIGHT PROTECTED ©

50% CONSTRUCTION DOCUMENTS
UTILITY PLAN
ONEONTA HEIGHTS
CLINTON STREET
ONEONTA, NY 13820

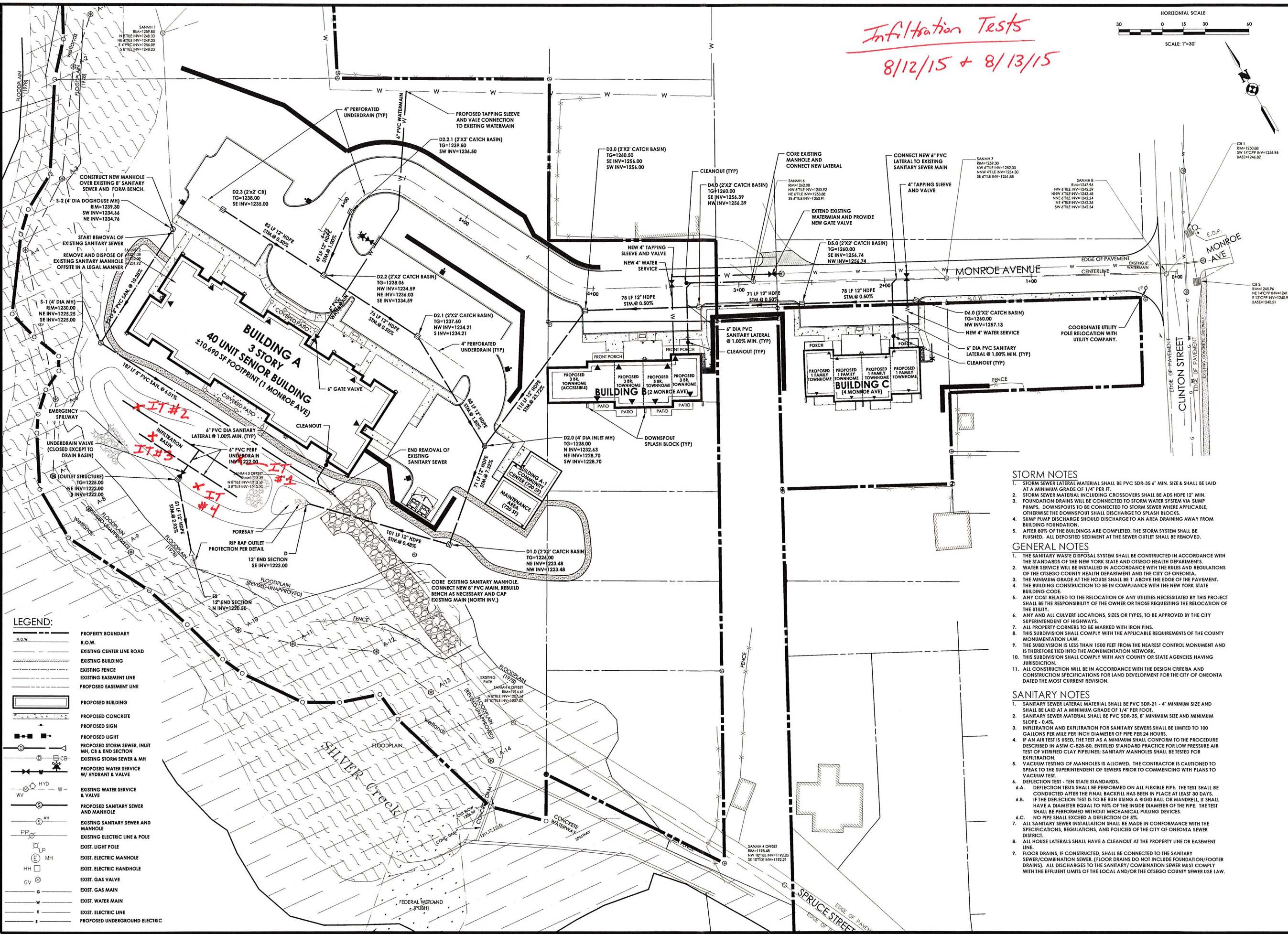
City of Oneonta, Otsego County, New York

Project No. **20141930.0001**

Drawing No. **C 102** Sheet No. **2**

Scale: **1"=30'**

Date: **7/31/2015**



- STORM NOTES**
- STORM SEWER LATERAL MATERIAL SHALL BE PVC SDR-35 4" MIN. SIZE & SHALL BE LAID AT A MINIMUM GRADE OF 1/4" PER FT.
 - STORM SEWER MATERIAL INCLUDING CROSSOVERS SHALL BE ADS HOPE 12" MIN.
 - FOUNDATION DRAINS WILL BE CONNECTED TO STORM WATER SYSTEM VIA SUMP PUMPS. DOWNSPOUTS TO BE CONNECTED TO STORM SEWER WHERE APPLICABLE, OTHERWISE THE DOWNSPOUT SHALL DISCHARGE TO FLASH BLOCKS.
 - SUMP PUMP DISCHARGE SHOULD DISCHARGE TO AN AREA DRAINING AWAY FROM BUILDING FOUNDATION.
 - AFTER 80% OF THE BUILDINGS ARE COMPLETED, THE STORM SYSTEM SHALL BE FLUSHED. ALL DEPOSITED SEDIMENT AT THE SEWER OUTLET SHALL BE REMOVED.

- GENERAL NOTES**
- THE SANITARY WASTE DISPOSAL SYSTEM SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE STANDARDS OF THE NEW YORK STATE AND OTSEGO HEALTH DEPARTMENTS.
 - WATER SERVICE WILL BE INSTALLED IN ACCORDANCE WITH THE RULES AND REGULATIONS OF THE OTSEGO COUNTY HEALTH DEPARTMENT AND THE CITY OF ONEONTA.
 - THE MINIMUM GRADE AT THE HOUSE SHALL BE 1" ABOVE THE EDGE OF THE PAVEMENT.
 - THE BUILDING CONSTRUCTION TO BE IN COMPLIANCE WITH THE NEW YORK STATE BUILDING CODE.
 - ANY COST RELATED TO THE RELOCATION OF ANY UTILITIES NECESSITATED BY THIS PROJECT SHALL BE THE RESPONSIBILITY OF THE OWNER OR THOSE REQUESTING THE RELOCATION OF THE UTILITY.
 - ANY AND ALL CULVERT LOCATIONS, SIZES OR TYPES, TO BE APPROVED BY THE CITY SUPERINTENDENT OF HIGHWAYS.
 - ALL PROPERTY CORNERS TO BE MARKED WITH IRON PINS.
 - THIS SUBDIVISION SHALL COMPLY WITH THE APPLICABLE REQUIREMENTS OF THE COUNTY MONUMENTATION LAW.
 - IF THE SUBDIVISION IS LESS THAN 1500 FEET FROM THE NEAREST CONTROL MONUMENT AND IS THEREFORE TIED INTO THE MONUMENTATION NETWORK.
 - THIS SUBDIVISION SHALL COMPLY WITH ANY COUNTY OR STATE AGENCIES HAVING JURISDICTION.
 - ALL CONSTRUCTION WILL BE IN ACCORDANCE WITH THE DESIGN CRITERIA AND CONSTRUCTION SPECIFICATIONS FOR LAND DEVELOPMENT FOR THE CITY OF ONEONTA DATED THE MOST CURRENT REVISION.

- SANITARY NOTES**
- SANITARY SEWER LATERAL MATERIAL SHALL BE PVC SDR-21 - 4" MINIMUM SIZE AND SHALL BE LAID AT A MINIMUM GRADE OF 1/4" PER FOOT.
 - SANITARY SEWER MATERIAL SHALL BE PVC SDR-35, 8" MINIMUM SIZE AND MINIMUM SLOPE - 0.4%.
 - INFILTRATION AND EXFILTRATION FOR SANITARY SEWERS SHALL BE LIMITED TO 100 GALLONS PER MILE PER INCH DIAMETER OF PIPE PER 24 HOURS.
 - IF AN AIR TEST IS USED, THE TEST AS A MINIMUM SHALL CONFORM TO THE PROCEDURE DESCRIBED IN ASTM C-828-80, ENTITLED STANDARD PRACTICE FOR LOW PRESSURE AIR TEST OF VITRIFIED CLAY PIPELINES; SANITARY MANHOLES SHALL BE TESTED FOR EXFILTRATION.
 - VACUUM TESTING OF MANHOLES IS ALLOWED. THE CONTRACTOR IS CAUTIONED TO SPEAK TO THE SUPERINTENDENT OF SEWERS PRIOR TO COMMENCING WITH PLANS TO VACUUM TEST.
 - DEFLECTION TEST - TEN STATE STANDARDS.
 - DEFLECTION TESTS SHALL BE PERFORMED ON ALL FLEXIBLE PIPE. THE TEST SHALL BE CONDUCTED AFTER THE FINAL BACKFILL HAS BEEN IN PLACE AT LEAST 30 DAYS.
 - IF THE DEFLECTION TEST IS TO BE RUN USING A RIGID BALL OR MANDELL, IT SHALL HAVE A DIAMETER EQUAL TO 95% OF THE INSIDE DIAMETER OF THE PIPE. THE TEST SHALL BE PERFORMED WITHOUT MECHANICAL PULLING DEVICES.
 - NO PIPE SHALL EXCEED A DEFLECTION OF 8%.
 - ALL SANITARY SEWER INSTALLATION SHALL BE MADE IN CONFORMANCE WITH THE SPECIFICATIONS, REGULATIONS, AND POLICIES OF THE CITY OF ONEONTA SEWER DISTRICT.
 - ALL HOUSE LATERALS SHALL HAVE A CLEANOUT AT THE PROPERTY LINE OR EASEMENT LINE.
 - FLOOR DRAINS, IF CONSTRUCTED, SHALL BE CONNECTED TO THE SANITARY SEWER/COMBINATION SEWER. (FLOOR DRAINS DO NOT INCLUDE FOUNDATION/FOOTER DRAINS). ALL DISCHARGES TO THE SANITARY/COMBINATION SEWER MUST COMPLY WITH THE EFFLUENT LIMITS OF THE LOCAL AND/OR THE OTSEGO COUNTY SEWER USE LAW.

LEGEND:

	PROPERTY BOUNDARY
	R.O.W.
	EXISTING CENTER LINE ROAD
	EXISTING BUILDING
	EXISTING FENCE
	EXISTING EASEMENT LINE
	PROPOSED EASEMENT LINE
	PROPOSED BUILDING
	PROPOSED CONCRETE
	PROPOSED SIGN
	PROPOSED LIGHT
	PROPOSED STORM SEWER, INLET, MH, CB & END SECTION
	EXISTING STORM SEWER & MH
	PROPOSED WATER SERVICE W/ HYDRANT & VALVE
	EXISTING WATER SERVICE & VALVE
	PROPOSED SANITARY SEWER AND MANHOLE
	EXISTING SANITARY SEWER AND MANHOLE
	EXISTING ELECTRIC LINE & POLE
	EXIST. LIGHT POLE
	EXIST. ELECTRIC MANHOLE
	EXIST. ELECTRIC HANDHOLE
	EXIST. GAS VALVE
	EXIST. GAS MAIN
	EXIST. WATER MAIN
	EXIST. ELECTRIC LINE
	PROPOSED UNDERGROUND ELECTRIC