





MAP PLAN AND REPORT FOR SEWER DISTRICT NO. 6 SANITARY SEWER EXTENSION #4

For Sanitary Sewer Services to Scannell Properties



SCHODACK DISTRIBUTION CENTER
US ROUTE 9
SCHODACK, NEW YORK

## PREPARED FOR:

SCANNELL PROPERTIES
294 GROVE LANE EAST, SUITE 140
WAYSATA, MN 55391

#### PREPARED BY:

MCFARLAND JOHNSON 60 RAILROAD PLACE, SUITE 402 SARATOGA SPRINGS, NY 12866 PH: (518) 580-9383 FX: (585) 905-0882

MJ PROJECT NO. 18362.00





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# Section 1: Project Description

#### A. Introduction

This report is for the sanitary sewer accommodations for the construction of an approximate one million square foot distribution center on an existing roughly 116.39 acres of undeveloped land between I-90 and NYS Route 9 in the Town of Schodack, New York.

#### B. Existing Conditions

The approximately 116.39 acres consists of agricultural and wooded undeveloped land. Ephemeral marsh areas are in the east-northeast, northeast, and southwestern portions of the site. Historically this land was used agriculturally for farming corn and wheat, but specifically at the site no buildings have been constructed, crops grown, or pesticides used. The site is bordered by forest, residential development, and light commercial development.

### C. Vegetative Cover

The site contains plant species associated with abandoned agricultural land: mixed coniferous/deciduous upland successional forest, and relatively small wetlands. This area was previously forest cleared for farming with signs of logging including: stumps, brush, and multi-trunked trees. The meadow is predominately tall grass that is mowed on an annual basis.

#### D. Topography

The project site is relatively level to steeply sloping with surface elevations in the range of about 310 to 350 feet. The easterly two-thirds of the site is mostly open fields with one roughly 400 square foot area where the surface slopes down some 20 feet in elevation to a shallow pond. The westerly third of the site is wooded and occupied by a ravine, which on the east side slopes steeply down about 40 feet in elevation before rising about 20 to 30 feet in elevation on the west side of the site.

#### E. Soils

According to the Natural Resources Conservation Service (NRCS) Soils Report, there are 7 mapped soils identified within the project boundary (see Appendix 5). Castile gravelly silt loam type D soils (CbA, 0-5 percent slopes), Hoosic gravelly sandy loam type A soils (HoA/B/C/D, 0-3/3-8/ rolling/ hilly/ steep percent slopes), and Natchaug muck type D soils (PaA, 0-2 percent slopes).



### F. Land Use and Zoning

The project is proposed on two adjoining properties (tax ID 200.00-6-1.3, 73.6 acres; and 200.00-6.22.1, 42.7 acres) comprising a total of 116.3 ±. It is located along NYS Route 9 in the Town of Schodack, Rensselaer County, New York. The proposed facility will be constructed in its entirety in one phase. The project site is currently zoned Planned Development District (PD-3) and the proposed use, sales distribution center, is an allowed use within this district subject to site plan approval. Because the project site is located within the Town's Water Quality Control District, the project also requires a special permit. Both of these approvals have been conditionally granted.

The project includes associated on-site roadways, parking, utility infrastructure, landscaping, and stormwater management facilities. There will be two (2) driveway entrances to the site off NYS Route 9; one dedicated driveway for employees and one dedicated driveway for trucks. A security gate with a Guard House will be provided at the truck entrance. Approximately 1,050 parking spaces will be provided for employees and approximately 300 parking spaces will be provided for truck trailers. Off-site improvements will include an extension of water, sewer, and natural gas mains to the project site. The off-site utilities will be extended from their current terminus along NYS Route 9 south of NYS Route 150.

# Section 2: Sanitary Sewer System

#### A. Description of Existing Sanitary Sewer System

The existing municipal sewer system is a gravity fed 8" PVC pipe that travels Northbound along the easterly side of Route 9/20. The manhole that the project intends on tying into is located adjacent to the Schodack Police Department.

The project site is located near Sewer District No. 6, but is currently not within the District as shown in Appendix 1. This proposed sewer extension would extend the District to encompass the project site pending the approval of the Schodack Town Board, the NYS Department of Health, and the NYS Department of Environmental Conservation. Sanitary wastewater collected within the Sewer District is directed to the Town of East Greenbush Municipal Sewer System. The Town of Schodack currently is sending approximately 30,000 GPD and is allowed up to 45,000 GPD to the East Greenbush sewer system.

# B. Description of Proposed Sanitary Sewer System

The project proposes a 4,200 LF 8" PVC gravity fed sewer system to discharge 6,000 GPD into the Town of Schodack municipal sanitary sewer system. See Appendix 2 for the Utility Plans outlining the proposed system. The proposed load from the project would increase the existing flow from 30,000 GPD to 36,000 GPD.

#### C. Sanitary Sewer Calculations

The sanitary sewer calculations for the Schodack Distribution Center are shown in Appendix 3. A summary of water usage from two similar facilities is provided. The monthly water bills from the two facilities are



also included. The pipe flow of the proposed sanitary sewer system is based off the actual water usage of these two similar facilities. The flow rate used in the sanitary sewer calculations is 6,000 GPD. The sanitary sewer slope value of 0.4% was determined from the 10 States Standards – Recommended Standards for Wastewater Facilities.

#### D. Conclusion

Presently, the Town of Schodack has an agreement with the Town of East Greenbush that allows Schodack to send up to 45,000 GPD into the East Greenbush sewer system. The Town of Schodack is currently discharging an average of 30,000 GPD into the East Greenbush system. The proposed Schodack Distribution Center is estimated to dispel 6,000 GPD into the system. Therefore, the capacity of the agreement with the Town of East Greenbush will allow the acceptance of the additional wastewater generated by the proposed Schodack Distribution Center.

# Section 3: Financing

Scannell Properties will be financing the installation of the proposed sanitary sewer system. A cost estimate of the proposed work is included in Appendix 4. No debt will be issued by the town for this project.

# Section 4: Sanitary Sewer District Extension

The project site is located near Sewer District No. 6, but is currently not within the District as shown in Appendix 1. This proposed Sewer District Extension would extend the District to encompass the project site pending the approval of the Schodack Town Board, the NYS Department of Health, and the NYS Department of Environmental Conservation. The map shown in Appendix 2 shows the land to be included within the Sewer District. The typical property within the proposed Sewer District Extension is an approximate 1,000,000 square-foot Sales Distribution Center.

#### Section 5: User Cost and Connection Fees

The property to be added to Sewer District No. 6 will become a rate payer under the district.

The Town of Schodack's building sewer inspection permit fee is \$200 (estimate 4 inspections @ \$50 each) and the sewer district connection fee is \$225 for a total of **\$425.00** to the Town of Schodack.

In accordance with the 5/27/2004 Intermunicipal Sewer Agreement with the Town of East Greenbush, the Town of Schodack collects a one-time hookup fee based on 60% of the anticipated water usage for the new or expanding business, divided by four hundred gallons per day, and multiplied by five thousand dollars. The proposed water usage for the project is estimated to be 6,000 GPD. Therefore, the one-time East Greenbush hookup fee, as per the above formula, is calculated to be:

6,000 GPD \* 0.60 / 400 GAL \* \$5,000 = \$45,000.00 one-time fee.

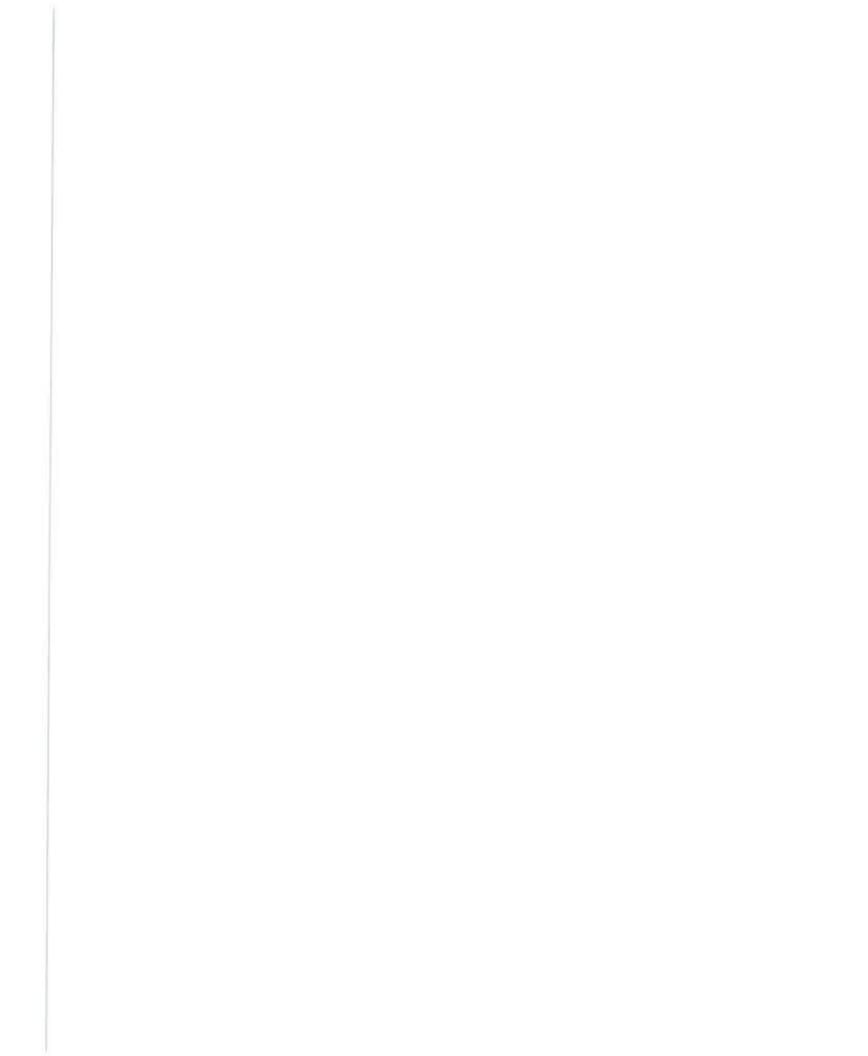


Current Town quarterly operations and maintenance charges are \$8.00 per 1,000 gallons used, billed approximately one week after the end of each calendar quarter. Based on the gallons per day, this would result in an annual sewer usage fee for the typical property of:

6,000 GPD \* 365 Day / 1,000 Gal \* \$8.00 = \$ 17,520 per year for the Distribution Center.

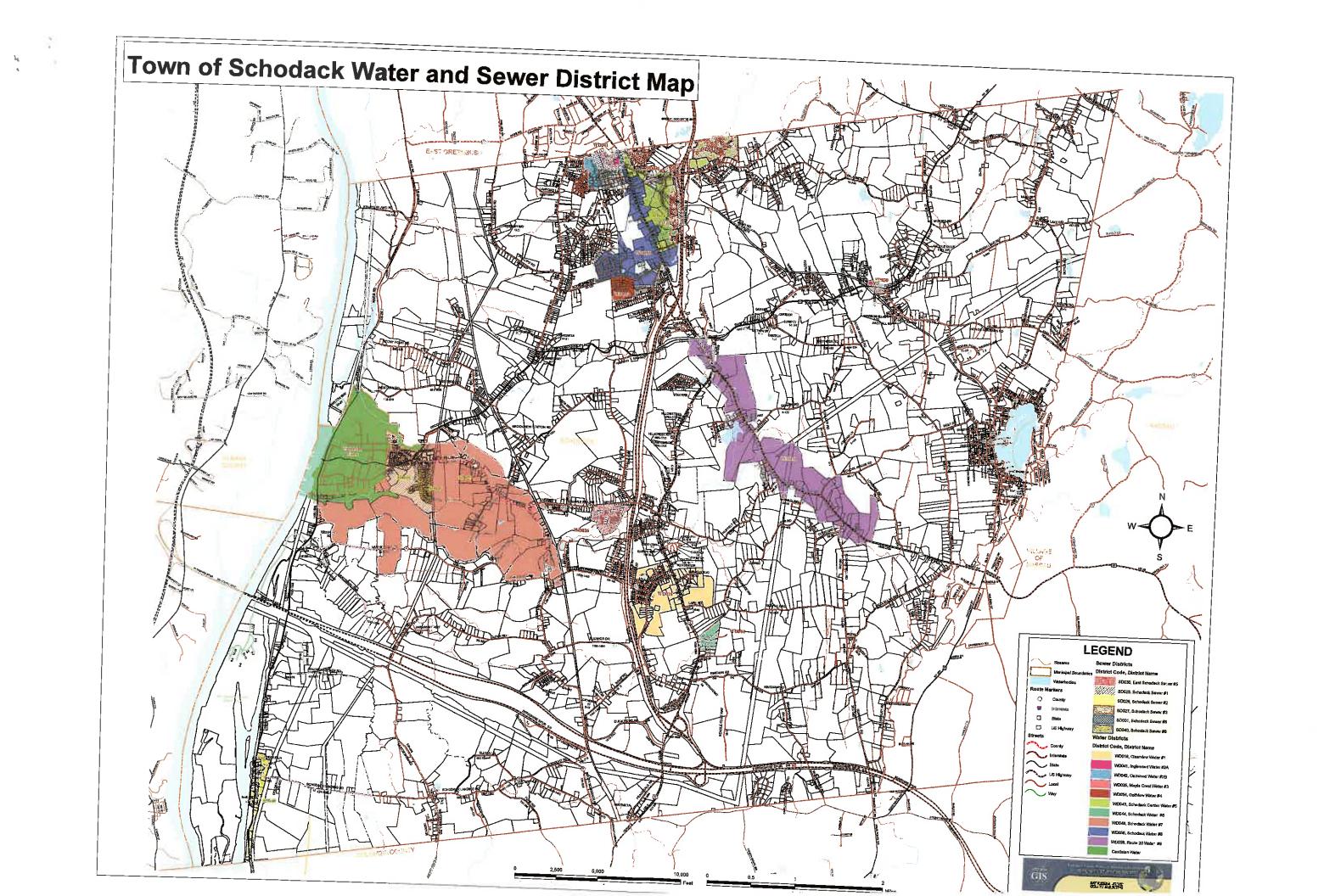
# Section 6: Conclusion

This report concludes that the Town of Schodack Sanitary Sewer District No. 6 has the capacity to accept the additional wastewater from the proposed Sewer District Extension.

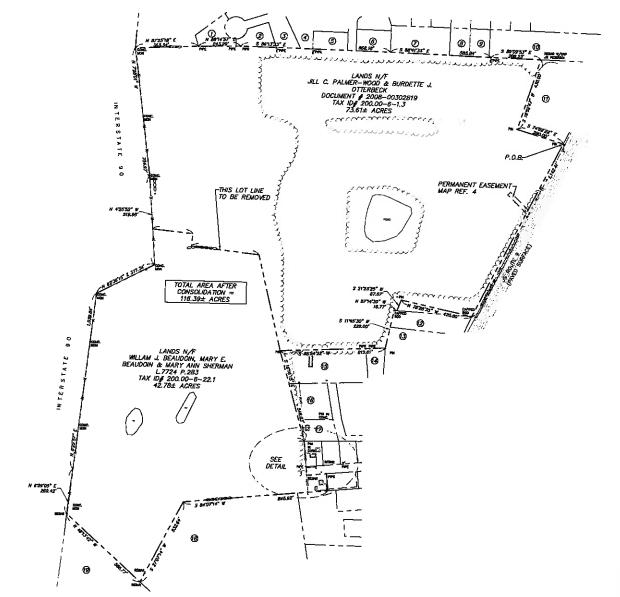




APPENDIX 1—EXISTING SANITARY SEWER DISTRICT MAP



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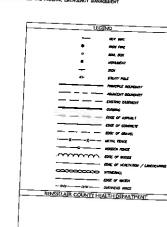
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- 1. MAP DITTLED "PLAT OF SURVEY OF LANDS OF MICHAEL L. & CHARLOTTE M. BELAK STUATE AT 1813 ROUTE 9" BY C.P. MCURROW, DATED JAMUARY 6, 1932, AND FAED IN THE REMISSOLARY COUNTY IS TRA'T
- MAP ENTIRED "PLAT OF SURVEY WITH LOT LINE ADJUSTMENT LANDS OF BRUNG" BY DAVID E. DICKINSON & ASSOCIATES, LIST REVISED 8-08-08, AND FILED IN THE REMISSEJACE COUNTY CLERK'S OFFICE AS MAR-NO. 2008-120 AND 2008-130.
- 3. MAPS ENTITLED THEM YORK STATE DEPARTMENT OF TRANSPORTATION DESCRIPTION AND MAP FOR THE 274-272-274-278.
- 4. MAPS ENTITLED "NEW YORK STATE DEPARTMENT OF PUBLIC WORKS, SCHOOLACK DENTER-STATE HIGHWAY NO. 5029" MAPS NO. 53, 54, 65, 65, 64, 65, 65"
- MAP ENTITLED "INMOMERBEDGER FARMS LOT NO. 1" BY BBT ASSOCIATES, DATED 4/10/84, AND FILED F THE RENSSELADE COUNTY CLERICS OFFICE AS MAD 1984-31.
- MAP ENTITLED "SUBDIVISION PLAN BIRCHWOOD ESTATES SECTION TWO" BY
- MAP ENTITIED "PROPOSED 3 LOT SUBDIMISION OF LANDS OF MAY C. FRAZEE (340-1206)" BY FREDERICK 1. METZGER LAND SURREPORES, P.C., DATED AUGUST 8, 2015, AND FILED IN THE RENSSELAD COUNTY CLERK'S OFFICE AS MAP 2016-1028.
- B. MAP CHITLED "CONNECTED MAP FRAZEE MINOR 3-LOT EMBOYMSION" BY REVIN M. GRADY, DATED JUNE 3.
  1894, AND RILED IN THE REMSSELACE COUNTY CLERK'S OFFICE AS MAP NO. 1888-56.

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- THE OFFSETS OF DIMENSONS SHOWN HEREOM, FROM THE PROPERTY LINES TO THE STRUCTURES, AND FOR A SPECIFIC PROPOSE AND USE; THEREOME, THEY ARE NOT INTRINGED TO MANUARITY THE PROPERTY LINES OR TO DIMES THE EMECTION OF PENCES, ADDITIONAL STRUCTURES OR ANY OTHER IMPORTMENTS.
- EASPIENTS AND/OR SUBSURFACE STRUCTURES RECORDED OR UNRECORDED ARE NOT QUARANTEED UNLESS
  PRISIDALLY EVIDENT ON THE PROJECTS AT THE TIME OF THE SURVEY.
- SUBJECT TO ALL RIGHTS, EASEMENTS, COVENANTS AND RESTRICTIONS OF RECORD.
- REFERENCE IS MADE TO FIRST AMERICAN TITLE INSURANCE COMPANY TITLE NO. NOS-789863-CH2, DIFFECTIVE DATE 1/1/2018.
- BASS OF BEARING IS NEW YORK STATE PLANE COORDINATE SYSTEM EAST ZONE, CONTROL WAS ESTABLISHED USING NYSNET WRS SYSTEM. THE HERIZZSYTAL DATUM IS RELATIVE TO MAGEST

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TOWN OF SCHODACK



PAT T. VANHAVERBEKE

LOT CONSOLIDATION

PREPARED FOR MCFARLAND JOHNSON

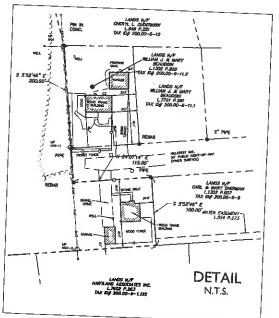
TAX ID #8 200-6-1.3 &

TOWN OF SCHODACK RENSSELAER COUNTY STATE OF NEW YORK



Phone 516.459.2257 Fee: 516.459.3294

LOT LINE ADJUSTMENT



## Legal Description Sewer District No.6

Sanitary Sewer Extension #4

Consolidated lands now or formerly of Jill C. Palmer-Wood, Burdette J. Otterbeck, William J. & Mary Beaudoin and Mary Ann Sherman

All that certain parcel or piece of land situate in the Town of Schodack, County of Rensselaer, and State of New York, and more particularly bounded and described as follows:

Beginning at an iron pin found in the western highway boundary of U.S. Route 9 at its intersection with the division line between lands now or formerly of Jill C. Palmer-Wood and Burdette J. Otterbeck (Document number 2008-00302819) to the south and lands now or formerly of James R. Matias and Judith Dunham-Matias (Liber 169, page 1431) to the north; Thence along the western highway boundary of U.S. Route 9 South 26° 01' 48" West, a distance of 1142.41 feet to a capped rod found at the northeast corner of lands now or formerly of Michael and Charlotte Belak (Liber 1298, page 417); Thence North 78° 28' 35" West, a distance of 420.80 feet to a point, Thence South 21° 23' 25" West, a distance of 67.67 feet to a point; Thence along the division line with lands now or formerly of Michael and Charlotte Belak (Liber 1298, page 417) North 87° 14' 30" West, a distance of 16.77 feet to a capped rod found; Thence continuing along the division line with Michael and Charlotte Belak, and along the division line with lands now or formerly of Frank and Linda Paonessa (Liber 324, page 1892) South 11° 45' 30" West, a distance of 226.00 feet to a iron pin found; Thence along the division line with lands now or formerly of Clifford and Deborah Brehm (Liber 1249, page 225) and along the division line with lands now or formerly George Brehm (Liber 1032, page 306) South 86° 54' 22" West, a distance of 612.61 feet to an iron pin found; Thence along the division line with lands now or formerly of George Brehm (Liber 1032, page 306), lands now or formerly of Paul and Heather Brehm (Liber 1611, page 199), and lands now or formerly of Cheryl L. Ouderkirk (Liber 648, page 221) South 16°16'15" East, a distance of 546.03 feet to an iron pin in concrete found; Thence along the division line with lands now or formerly William J. Beaudoin and Mary Beaudoin (Liber 1302, page 805) and with the terminus of Hillcrest Avenue South 05°52'46" East, a distance of 200.90 feet to a rebar found; Thence along the southern side of Hillcrest Avenue and passing through an iron pipe, North 84°07'14" East, a distance of 115.00 feet to a point in the southern line of Hillcrest Avenue at its intersection with the division line between lands now or formerly of Carl and Mary Sherman (Liber 1302, page 807) to the east and William J. and Mary E. Beaudoin and Mary Ann Sherman (Liber 7724, page 283) to the west; Thence along said division line South 05°52'46" East, a distance of 100.00 feet to a point; Thence along the division line with lands now or formerly of Hartland Associates, Inc, (Liber 7602, page 263) and lands now or formerly of Donald Hart (Liber 168, page 2218) South 84°07'14" West, a distance of 845.92 feet to a point; Thence continuing along the division line with lands now or formerly of Donald Hart (Liber 168, page 2218) and passing through a rebar found, South 27°07'14" West, a distance of 532.64 feet to a rebar found; Thence along the division line with lands now or formerly Hartland Associates, Inc. (Liber 168, page 2250) North 48°13'42" West, a distance of 586.77 feet to a rebar found at the eastern highway boundary of Interstate 90; Thence along the eastern highway boundary of Interstate 90 the following six courses and distances:

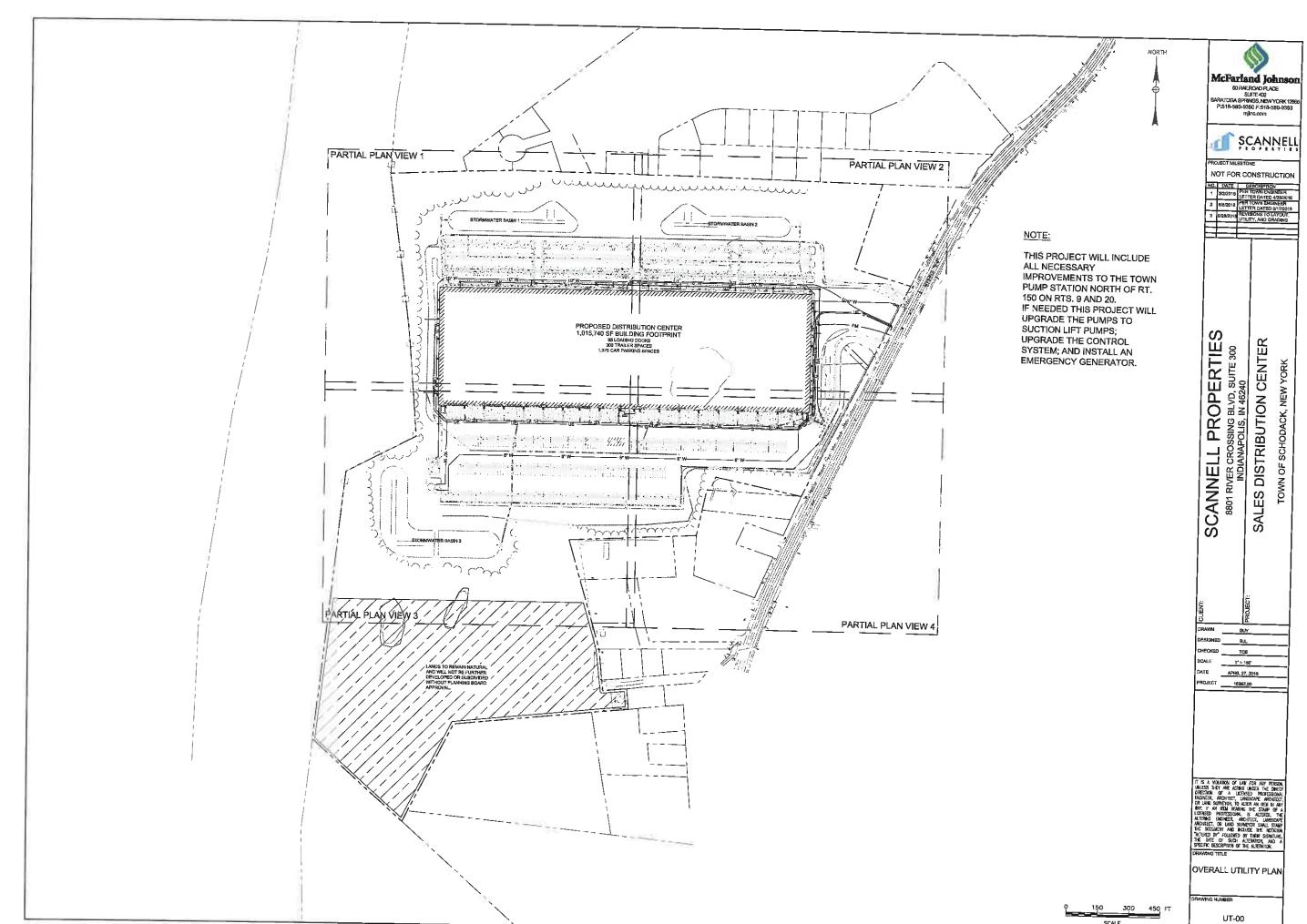
- 1. North 06°29'05" East, a distance of 262.42 feet to a point;
- 2. North 06°29'57" East, a distance of 1039.84 feet to a concrete monument found;

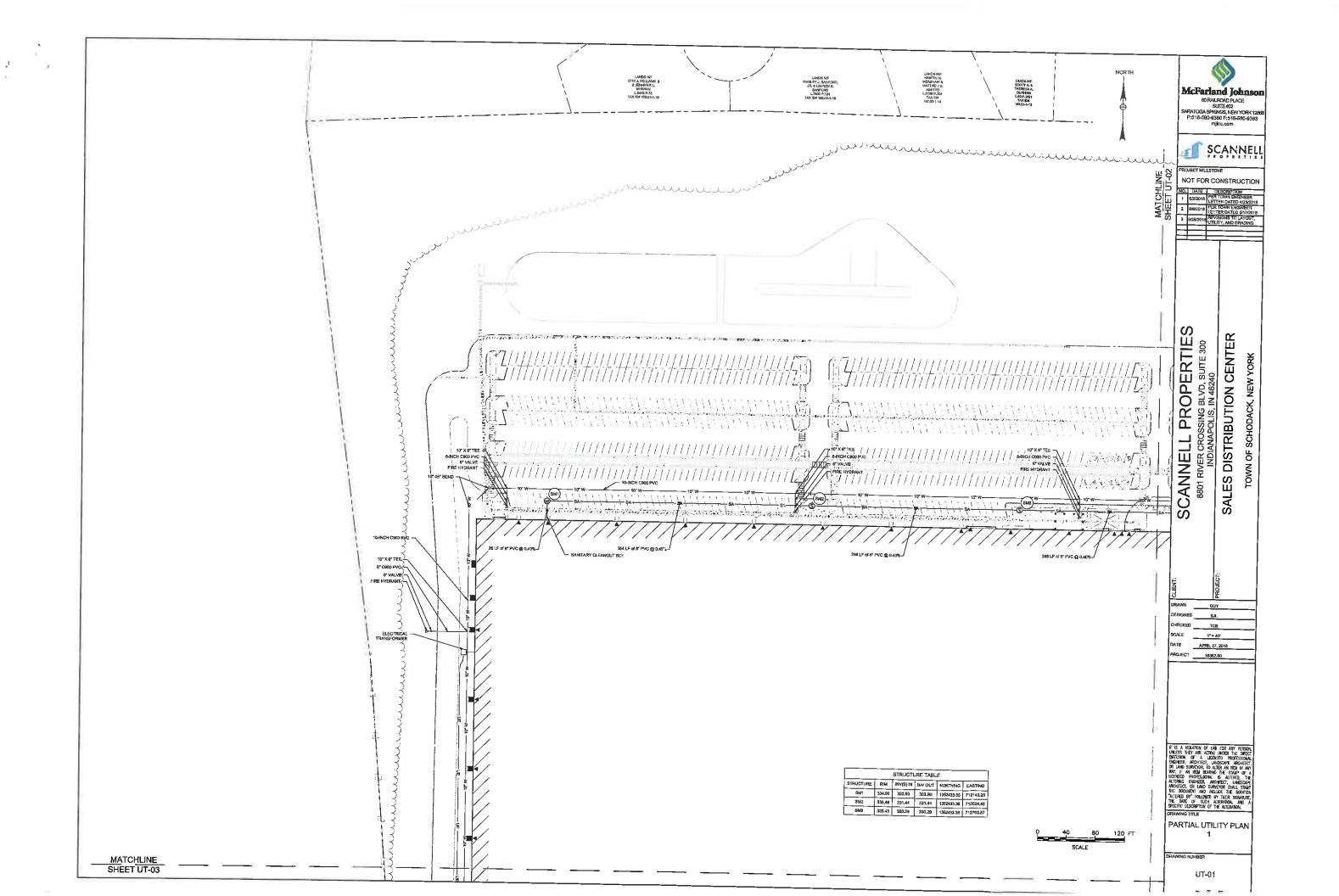
- 3. North 62°36'15" East, a distance of 377.34 feet to a concrete monument found;
- 4. North 04°25'52" West, a distance of 519.98 feet to a concrete monument found;
- 5. North 07° 28' 01" West, a distance of 754.97 feet to a concrete monument found;
- 6. North 87° 25' 18" East, a distance of 363.34 feet to an iron pipe found;

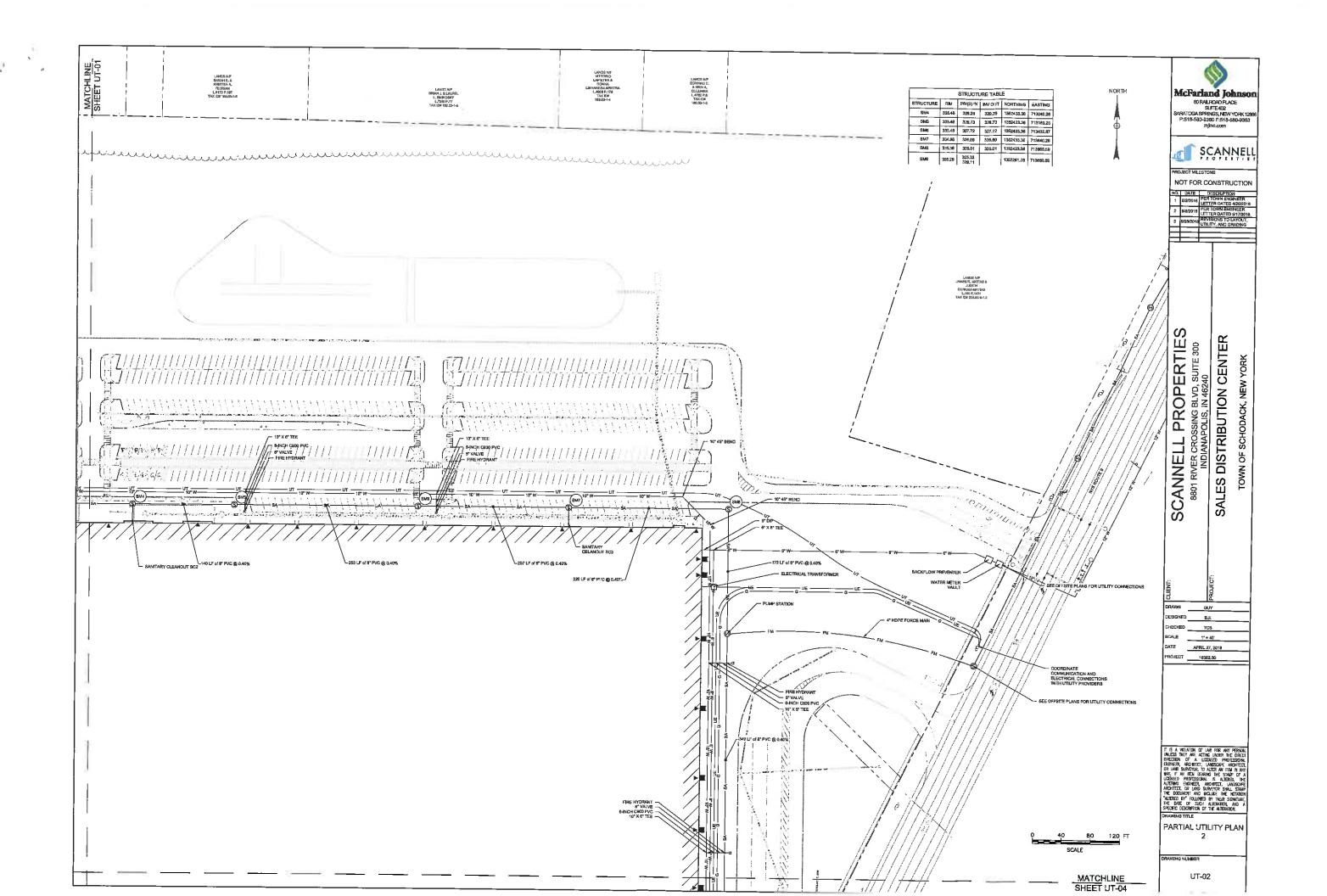
Thence along the division line with lands now or formerly of Otis J. Williams, II, and Jennifer L. Meehan (Liber 6446, page 73), and lands now or formerly of Wesley J. Sanford, Jr. and Lauren K. Sanford (Liber 7800, page 124) North 88°14'57" East, a distance of 243.29 feet to an iron pipe found; Thence continuing along the division line with lands now or formerly of Wesley J. Sanford, Jr. and Lauren K. Sanford (Liber 7800, page 124), and along the division line with lands now or formerly of Kristin M. Meashaw and Matthew B. Abatto (Liber 3129, page 334), lands now or formerly of Scott A. Dunham and Theresa A. Dunham, lands now or formerly of Robert A. Jansing (Liber 366, page 1395), lands now or formerly of Sarah E. and Kristen A. Fedigan (Liber 8173, page 197) and passing through two iron pipes found, South 89° 13' 33" East, a distance of 868.18 feet to a point; Thence along the division line with lands now or formerly of Brian J. and Laurel L. Smihosky (Liber 7266, page 77), lands now or formerly of Vittorio Lapietra & Donna Linhares-Lapietra (Liber 4008, page 178), lands now or formerly of Edward C. and Erin A. Cullings (Liber 4762, page 8), and lands now or formerly Kenneth C. and Crystal M. Swinton (Liber 7541, page 108) South 88° 41' 33" East, a distance of 585.84 feet to an iron pipe found; Thence continuing along the division line with lands now or formerly of Kenneth C. and Crystal M. Swinton (Liber 7541, page 108) South 89° 09' 53" East, a distance of 288.23 feet to capped rebar found; Thence along the division line with lands now or formerly of James R. Matias and Judith Dunham-Matias (Liber 169, page 1431) the following two courses

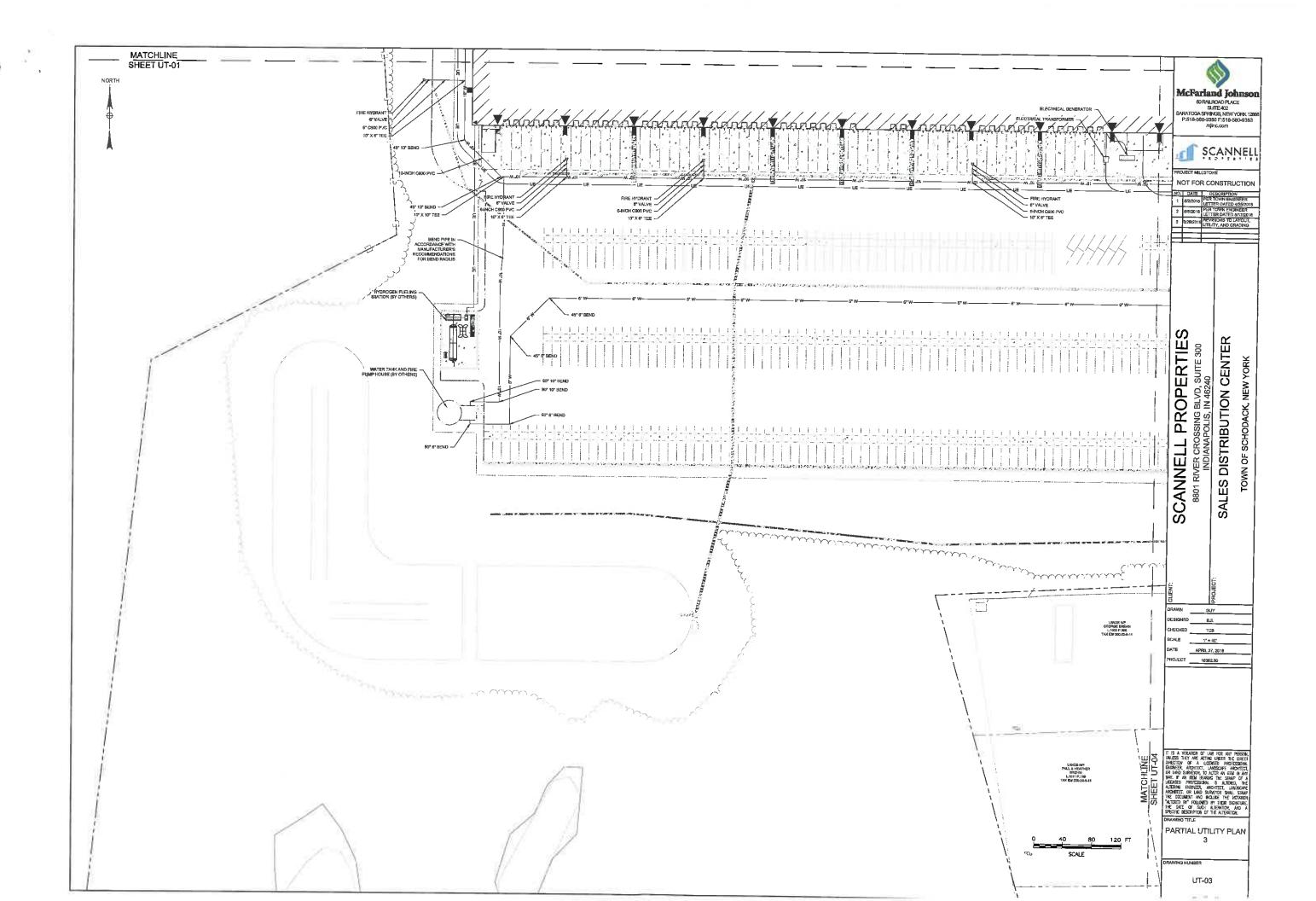
- 1. South 16° 52' 47" West, a distance of 430.00 feet to an iron pin found;
- 2. South 74° 02' 22" East, a distance of 280.00 feet to the point and place of beginning.

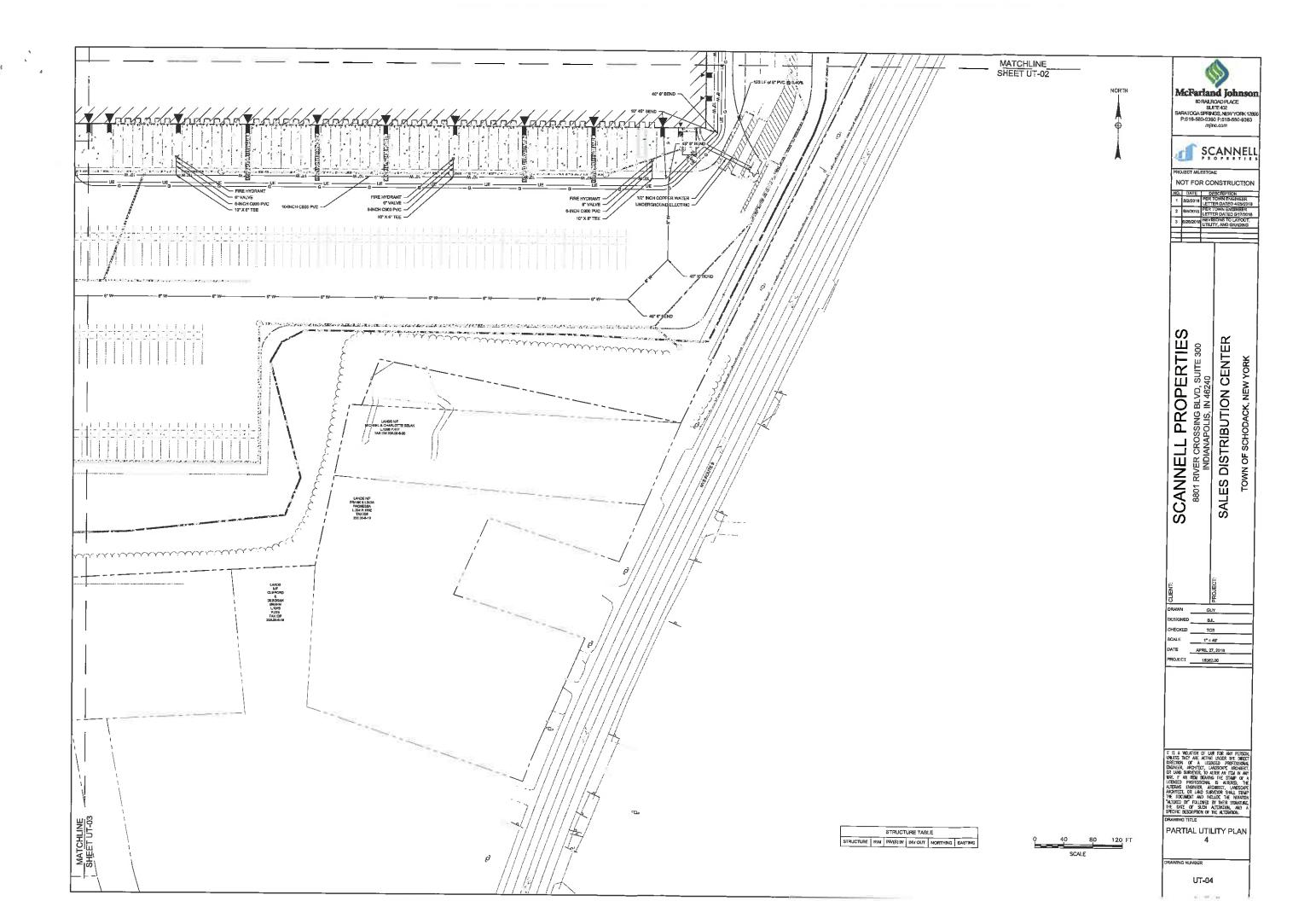
Containing or 116.39 acres or 5,070,10 square feet of land, more or less.















APPENDIX 3 – SANITARY SEWER CALCULATIONS



Project Name: Schodack Distribution Center

Project Number: 18362.00

Page 1 of 1 Calculated By: NSO Checked By:

### **Proposed Sanitary Sewer**

$$Diameter = 8 in$$

$$Slope := 0.4\%$$

$$Velocity_{minimum} = 2.0 \frac{ft}{s}$$

$$Flow \stackrel{*}{:=} 6000 \frac{ga}{da}$$

$$n = 0.013 \frac{s}{ft^{\frac{1}{3}}}$$

 $Flow \stackrel{*}{:=} 6000 \frac{gal}{day}$   $n := 0.013 \frac{s}{\int_{1}^{\frac{1}{3}}}$  (10 States Standards - Recommended Standards for Wastewater Facilities, pg. 30-1)

# **Pipe Velocity**

$$Area := \left(\frac{Diameter}{2}\right)^2 \cdot \pi = 0.349 \ ft^2$$

 $Perimeter := \pi \cdot Diameter = 2.094 \ ft$ 

$$Radius_{hydraulic} = \frac{Area}{Perimeter} = 0.167 \ ft$$

$$Velocity = \frac{1.49 \cdot Radius_{hydraulic}}{n} = \frac{\frac{2}{3} \cdot Slope^{\frac{1}{2}}}{n} = 2.195 \frac{ft}{s}$$

 $Actual\ Velocity = 2.195ft/s > Minimum\ Velocity = 2.0ft/s$ ... okay

# Pipe Capacity - Flowing Full

$$Velocity = 2.195 \frac{ft}{s}$$

$$Area = 0.349 ft^2$$

$$Capacity = Velocity \cdot Area = 0.766 \frac{ft^3}{s}$$

Gallons per Minute Conversion

$$0.776 \frac{ft^{3}}{s} \cdot 7.48052 \frac{gal}{ft^{3}} \cdot 60 \frac{s}{min} = 348.293 \frac{gal}{min}$$

Gallons per Day Conversion

$$348.293 \frac{gal}{min} \cdot 1440 \frac{min}{day} = 501542 \frac{gal}{day}$$

 $Actual\ Capacity=501,542\ gal/day > Flow=6,000\ gal/day$ . okay

07/03/2

	81
2018	

<sup>\*</sup>Flow based on estimated water usage

#### McFARLAND-JOHNSON, INC.

60 RAILROAD PLACE SARATOGA SPRINGS, NY 12866 PHONE (518) 580-9380 FAX (518) 580-9383 www.mjinc.com

Project:

Project: Scannell Properties, Schodack, New York
Estimated Water Usage

June 28, 2018

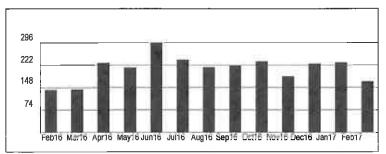
Date of the	Facility	Water Usage (gal)	Period of Time (days)	GPD .
02/2017	Lakeland, FL	167000	29	5759
03/2017	Lakeland, FL	167000	29	5759
04/2017	Lakeland, FL	175000	32	5469
05/2017	Lakeland, FL	160000	29	5517
06/2017	Lakeland, FL	168000	30	5600
07/2017	Lakeland, FL	198000	33	6000
09/2017	Lakeland, FL	185000	33	5606
10/2017	Lakeland, FL	123000	29	4241
11/2017	Lakeland, FL	148000	29	5103
12/2017	Lakeland, FL	185000	32	5781
07/2017-10/2017	Fall River, MA	65076	94	692
10/2017-01/2018	Fall River, MA	56848	96	592
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				-
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# CITY OF LAKELAND DEPARTMENT OF ELECTRIC UTILITIES

Service Location: 1760 COUNTY LINE RD LAKELAND, FL 33811 US

SERVICE LOCATION DETAIL		
I	temized Charges	Total Charges
Water Service		<b>3</b>
Water Commercial Inside Monthly Base Charge\$	148.30	
Water-1000 gal - 120 @ 2.26\$		
Water-1000 gal - 47 @ 2.26\$		
Inside the City Utility Tax\$		
Current Water Service Charges	. W	578.29
Water Irrigation	8	
Irrigation Commercial Inside Monthly Base Charge.	74,15	
Water-1000 gal - 42 @ 2.42\$		
Water-1000 gal - 35 @ 3.02\$		
Inside the City Utility Tax\$	28.15	
Current Water Irrigation Charges		309.64
Other Services		000.0.
Solid Waste Commercial\$	17.05	
Wastewater Service\$		
Stormwater Service\$	•	
Fire Sprinkler Protection	•	
Wastewater Flow Impact\$		
Other Services and Account Charges		5,138.22

Service Reading	Meter Number	Current Read Date	Current Reading	Prior Read Date	Prior Reading	No. of Days	Billed Usage	Prior Month	Same Month Last Year
Water-1000 gal	30000102	02/02/2017	3574	01/04/2017	3497	29	77	79	74
Water-1000 gal	31878884	02/02/2017	8365	01/04/2017	8245	29	120	162	89
Water-1000 gal	60841042	02/02/2017	2672	01/04/2017	2625	29	47	69	51



Water Service

# Page 4 of 9 CITY OF LAKELAND DEPARTMENT OF ELECTRIC UTILITIES

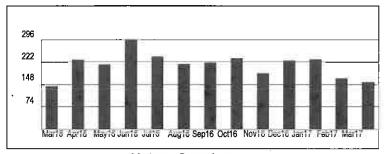
Service Location: 1760 COUNTY LINE RD LAKELAND, FL 33811 US Location No.: 2152438

SERVICE LOCATION DETAIL	oi Py	
	ized Charges	Total Charges
Water Service		
Water Commercial Inside Monthly Base Charge\$	148.30	
Water-1000 gal - 113 @ 2.26\$	255.38	
Water-1000 gal - 42 @ 2.26\$	94.92	
Inside the City Utility Tax\$	49.86	
Current Water Service Charges	ā	548.46
Water Irrigation		
Irrigation Commercial Inside Monthly Base Charge\$	74.15	
Water-1000 gal - 42 @ 2.42\$	101.64	
Water-1000 gal - 59 @ 3.02\$	178.18	
Water-1000 gal - 180 @ 3.93\$	707.40	
Inside the City Utility Tax\$	106.14	
Current Water Irrigation Charges		1.167.51
Other Services		(6)
Solid Waste Commercial\$	17.05	
Wastewater Service\$	1,001.32	
Stormwater Service\$	2,294.74	
Fire Sprinkler Protection\$	308.40	
Wastewater Flow Impact\$	1,468.91	

Service Reading	Meter Number	Current Read Date	Current Reading	Prior Read Date	Prior Reading	No. of Days	Billed Usage	Prior Month	Same Month Last Year
Water-1000 gal	30000102	03/03/2017	3855	02/02/2017	3574	29	281	77	83
Water-1000 gal	31878884	03/03/2017	8478	02/02/2017	8365	29	113	120	88
Water-1000 gal	60841042	03/03/2017	2714	02/02/2017	2672	29	42	47	53

5,090.42

Other Services and Account Charges.....



Water Service

## CITY OF LAKELAND DEPARTMENT OF ELECTRIC UTILITIES

Service Location: 1760 COUNTY LINE RD LAKELAND, FL 33811 US Location No.: 2152438

SERVICE LOCATION DETAIL	Silver .	
Ite	mized Charges	Total Charges
Water Service		
Water Commercial Inside Monthly Base Charge\$	148.30	
Water-1000 gal - 133 @ 2.26\$	300.58	
Water-1000 gal - 50 @ 2.26\$	113.00	
Inside the City Utility Tax\$	56.19	
Current Water Service Charges		618.07
Water Irrigation		
Irrigation Commercial Inside Monthly Base Charge.	74.15	
Water-1000 gal - 42 @ 2.42\$	101.64	
Water-1000 gal - 28 @ 3.02\$	84.56	
Inside the City Utility Tax\$	26.04	
Current Water Irrigation Charges		286.39
Other Services		
Solid Waste Commercial\$	17.05	
Wastewater Service\$	1,112.76	
Stormwater Service\$	2,294.74	
Fire Sprinkler Protection.	308.40	
the management of the first of	000 47	

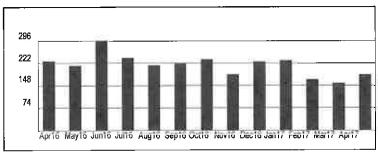
Wastewater Flow Impact.....\$ 862.17
Other Services and Account Charges.....

Service Reading	l
Water-1000 gal	ļ
Water-1000 gal	ĺ
\\\/ater_1000 gal	l

Meter Number	Current Read Date	Current Reading	Prior Read Date	Prior Reading	No. of Days	Billed Usage	Prior Month	Same Month Last Year
30000102	04/04/2017	3925	03/03/2017	3855	32	70	281	74
31878884	04/04/2017	8611	03/03/2017	8478	32	133	113	144
60841042	04/04/2017	2764	03/03/2017	2714	32	50	42	85

308.40 862.17

4,595.12



Water Service

4,088.46

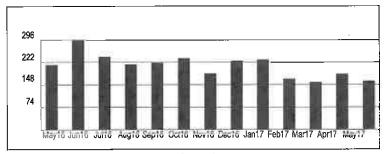
# CITY OF LAKELAND DEPARTMENT OF ELECTRIC UTILITIES

Service Location: 1760 COUNTY LINE RD LAKELAND, FL 33811 US

SERVICE LOCATION DETAIL		IT'M CIL	
	Itemized	Charges	Total Charges
ater Service	16		
Water Commercial Inside Monthly Base Charge	\$	148.30	
Water-1000 gal - 117 @ 2.26	\$	264.42	
Water-1000 gal - 43 @ 2.26	.\$	97.18	
Inside the City Utility Tax		50.99	
Current Water Service Charges			560.89
ater Irrigation			
Irrigation Commercial Inside Monthly Base Charge	\$	74.15	
Water-1000 gal - 42 @ 2.42	.\$	101.64	
Water-1000 gal - 28 @ 3.02		84.56	
Inside the City Utility Tax	.\$	26.04	
Current Water Irrigation Charges			286.39
ther Services			
Solid Waste Commercial	.\$	17.05	

Solid Waste Commercial\$	17.0
Wastewater Service\$	1,021.2
Stormwater Service\$	2,294.7
Fire Sprinkler Protection\$	308.4
Wastewater Flow Impact\$	

Service Reading	Meter Number	Current Read Date	Current Reading	Prior Read Date	Prior Reading	No. of Days	Billed Usage	Prior Month	Same Month Last Year
Water-1000 gal	30000102	05/03/2017	3995	04/04/2017	3925	29	70	70	63
Water-1000 gal	31878884	05/03/2017	8728	04/04/2017	8611	29	117	133	130
Water-1000 gal	60841042	05/03/2017	2807	04/04/2017	2764	29	43	50	83



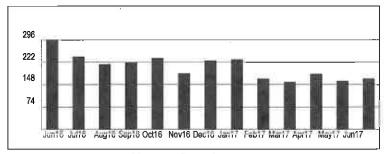
Water Service

# CITY OF LAKELAND DEPARTMENT OF ELECTRIC UTILITIES

Service Location: 1760 COUNTY LINE RD LAKELAND, FL 33811 US

SERVICE LOCATION DETAIL		
Iter	ized Charges	Total Charges
Water Service		
Water Commercial Inside Monthly Base Charge\$	148.30	
Water-1000 gal - 124 @ 2.26\$	280.24	
Water-1000 gal - 44 @ 2.26\$	99.44	
Inside the City Utility Tax\$	52.80	
Current Water Service Charges		580.78
Water Irrigation		
Irrigation Commercial Inside Monthly Base Charge\$	74,15	
Water-1000 gal - 42 @ 2.42\$	101,64	
Water-1000 gal - 59 @ 3.02\$	178.18	
Water-1000 gal - 220 @ 3.93\$	864,60	
Inside the City Utility Tax\$	121.86	
Current Water Irrigation Charges		1.340.43
Other Services		.,
Solid Waste Commercial\$	17.05	
Wastewater Service\$	1.053.06	
Stormwater Service\$	2.294.74	
Fire Sprinkler Protection\$	308.40	
Other Services and Account Charges		3,673.25

Service Reading	Meter Number	Current Read Date	Current Reading	Prior Read Date	Prior Reading	No. of Days	Billed Usage	Prior Month	Same Month Last Year
Water-1000 gal	30000102	06/02/2017	4316	05/03/2017	3995	30	321	. 70	72
Water-1000 gal	31878884	06/02/2017	8852	05/03/2017	8728	30	124	117	202
Water-1000 gal	60841042	06/02/2017	2851	05/03/2017	2807	30	44	43	94



Water Service

# CITY OF LAKELAND DEPARTMENT OF ELECTRIC UTILITIES

Service Location: 1760 COUNTY LINE RD LAKELAND, FL 33811 US Location No.: 2152438

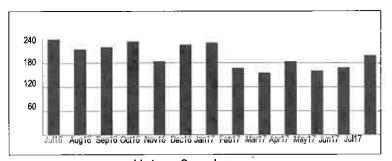
SERVICE LOCATION DETAIL	31.1		
	Itemized	l Charges	Total Charges
Water Service			
Water Commercial Inside Monthly Base Charge.	.\$	148.30	
Water-1000 gal - 147 @ 2.26		332.22	
Water-1000 gal - 51 @ 2.26	.\$	115.26	
Inside the City Utility Tax	.\$	59.58	
Current Water Service Charges		6	655.36
Water Irrigation			
Irrigation Commercial Inside Monthly Base Charge.	.\$	74.15	
Water-1000 gal - 42 @ 2.42	.\$	101.64	
Water-1000 gal - 53 @ 3.02		160.06	
Inside the City Utility Tax		33.59	
Current Water Irrigation Charges			369.44
Other Services			
Calid Marks Commencial	œ	17 AE	

Current Water Irrigation Charges	- 3	
her Services		
Solid Waste Commercial	. \$	17.05
Wastewater Service	. \$	1,172.46
Stormwater Service	. \$	2,294.74
Fire Sprinkler Protection	.\$	308.40
Other Services and Account Charges		

3,792.65

Service Reading
Water-1000 gal
Water-1000 gal
Water-1000 gal

Meter Number	Current Read Date	Current Reading	Prior Read Date	Prior Reading	No. of Days	Billed Usage	Prior Month	Same Month Last Year
30000102	07/05/2017	4411	06/02/2017	4316	33	95	321	77
31878884	07/05/2017	8999	06/02/2017	8852	33	147	124	172
60841042	07/05/2017	2902	06/02/2017	2851	33	51	44	67



Water Service

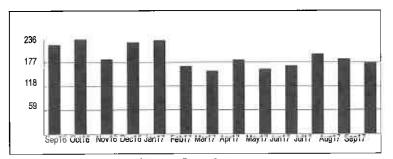
# CITY OF LAKELAND DEPARTMENT OF ELECTRIC UTILITIES

Service Location: 1760 COUNTY LINE RD LAKELAND, FL 33811 US

SERVICE LOCATION DETAIL		32 724
Iter	rized Charges	Total Charges
Water Service		
Water Commercial Inside Monthly Base Charge.	148.30	
Water-1000 gal - 138 @ 2.26\$	311.88	
Water-1000 gal - 37 @ 2.26\$	83.62	
Inside the City Utility Tax\$	54.38	
Current Water Service Charges	¥(Y(X))	598.18
Water Irrigation		
Irrigation Commercial Inside Monthly Base Charge\$	74.15	
Water-1000 gal - 42 @ 2,42\$	101.64	
Water-1000 gal - 24 @ 3.02\$	72.48	
Inside the City Utility Tax\$	24.83	
Current Water Irrigation Charges		273.10
Other Services		
Solid Waste Commercial\$	17.05	
Wastewater Service\$	1,080.92	
Stormwater Service\$	2,294.74	
Fire Sprinkler Protection\$	308.40	
Other Services and Account Charges		3,701.11

Service Reading	Mete Numb
Water-1000 gal	30000
Water-1000 gal	31878
Water-1000 gal	60841

	Meter Number	Current Read Date	Current Reading	Prior Read Date	Prior Reading	No. of Days	Billed Usage	Prior Month	Same Month Last Year
I	30000102	09/05/2017	4579	08/03/2017	4513	33	66	102	80
ı	31878884	09/05/2017	9281	08/03/2017	9143	33	138	144	155
I	60841042	09/05/2017	2980	08/03/2017	2943	33	37	41	65



Water Service

Same Month Last Year

83

166

68

# CITY OF LAKELAND DEPARTMENT OF ELECTRIC UTILITIES

Service Location: 1760 COUNTY LINE RD LAKELAND, FL 33811 US Location No.: 2152438

Billed Usage

74

98

25

Prior Month

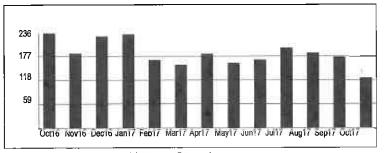
66

138

37

SERVICE LOCATION DETAIL		VENTERS.
Ite	rized Charges	Total Charges
Water Service		
Water Commercial Inside Monthly Base Charge\$	155.72	
Water-1000 gal - 98 @ 2.34\$	229.32	
Water-1000 gal - 25 @ 2.34\$	58.50	
Inside the City Utility Tax\$	44.35	
Current Water Service Charges	<i>4</i>	487.89
Water Irrigation		
Irrigation Commercial Inside Monthly Base Charge\$	77.86	
Water-1000 gal - 42 @ 2.5\$	105.00	
Water-1000 gal - 32 @ 3.13\$	100.16	
Inside the City Utility Tax\$	28.30	
Current Water Irrigation Charges		311.32
Other Services		00_
Solid Waste Commercial\$	17.05	
Wastewater Service\$	891.48	
Stormwater Service\$	3.059.65	
Fire Sprinkler Protection\$	319.20	
Other Services and Account Charges		4,287.38

Service Reading	Meter Number	Current Read Date	Current Reading	Prior Read Date	Prior Reading	No. of Days
Water-1000 gal	30000102	10/04/2017	4653	09/05/2017	4579	29
Water-1000 gal	31878884	10/04/2017	9379	09/05/2017	9281	29
Water-1000 gal	60841042	10/04/2017	3005	09/05/2017	2980	29



Water Service

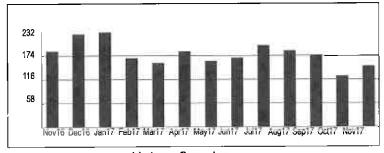
# CITY OF LAKELAND DEPARTMENT OF ELECTRIC UTILITIES

Service Location: 1760 COUNTY LINE RD LAKELAND, FL 33811 US

SERVICE LOCATION DETAIL		
Ite	mized Charges	Total Charges
Water Service		
Water Commercial Inside Monthly Base Charge\$	155.72	
Water-1000 gal - 118 @ 2.34\$	276.12	
Water-1000 gal - 30 @ 2.34\$	70.20	
Inside the City Utility Tax\$	50.20	
Current Water Service Charges		<b>552.24</b>
Water Irrigation		
Irrigation Commercial Inside Monthly Base Charge\$	77.86	
Water-1000 gal - 42 @ 2.5\$	105.00	
Water-1000 gal - 26 @ 3.13\$	81.38	
Inside the City Utility Tax\$	26.42	
Current Water Irrigation Charges	33	290.66
Other Services		
Solid Waste Commercial\$	17.05	
Wastewater Service\$	992.98	
Stormwater Service\$	3.059.65	
Fire Sprinkler Protection\$	319.20	
Other Services and Account Charges	•	4,388.88

Service Reading	Meter Number	Current Read Date
Water-1000 gal	30000102	11/02/2017
Water-1000 gal	31878884	11/02/2017
Water-1000 gal	60841042	11/02/2017

	Meter Number	Current Read Date	Current Reading	Prior Read Date	Prior Reading	No. of Days	Billed Usage	Prior Month	Same Month Last Year
	30000102	11/02/2017	4721	10/04/2017	4653	29	68	74	76
	31878884	11/02/2017	9497	10/04/2017	9379	29	118	98	131
ı	60841042	11/02/2017	3035	10/04/2017	3005	29	30	25	53



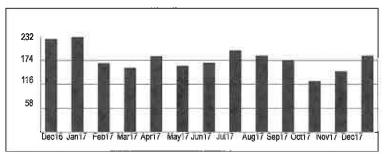
Water Service

# CITY OF LAKELAND DEPARTMENT OF ELECTRIC UTILITIES

Service Location: 1760 COUNTY LINE RD LAKELAND, FL 33811 US

SERVICE LOCATION DETAIL	P. Carlot	1.45 81 5
Ite	rized Charges	Total Charges
Water Service	_	_
Water Commercial Inside Monthly Base Charge\$	155.72	
Water-1000 gal - 146 @ 2.34\$	341.64	
Water-1000 gal - 39 @ 2.34\$	91.26	
Inside the City Utility Tax\$	58.86	
Current Water Service Charges		647.48
Water Irrigation		7/8/
Irrigation Commercial Inside Monthly Base Charge.	77.86	
Water-1000 gal - 42 @ 2.5\$	105.00	
Water-1000 gal - 59 @ 3.13\$	184.67	
Water-1000 gal - 49 @ 4.07\$	199.43	
Inside the City Utility Tax\$	56.70	
Current Water Irrigation Charges		623.66
Other Services		020.00
Solid Waste Commercial\$	17.05	
Wastewater Service\$	1,143.20	
Stormwater Service\$	3,059.65	
Fire Sprinkler Protection.	319.20	
Other Services and Account Charges	,	4,539.10

Service Reading	Meter Number	Current Read Date.	Current Reading	Prior Read Date	Prior Reading	No. of Days	Billed Usage	Prior Month	Same Month Last Year
Water-1000 gal	30000102	12/04/2017	4871	11/02/2017	4721	32	150	68	135
Water-1000 gal	31878884	12/04/2017	9643	11/02/2017	9497	32	146	118	155
Water-1000 gal	60841042	12/04/2017	3074	11/02/2017	3035	32	39	30	71



Water Service



# City of Fall River, Massachusetts Community Utilities

P.O. Box 844515 Boston, MA 02284 (508) 324-2330

# **PUBLIC UTILITY WATER & SEWER BILL**

**Customer Copy** 

Keep this portion for your records

	Custon MAZON COM DED			Service Address 1180 INNOVATION WY				
Bill Number 8/11 Date 208444 10/31/2017			And the second s	Account Number 02690			Due Date 12/11/2017	
Description	Present Read Date	Previous Read Date	Present Meter Reading	Previous Meter Reading	Read Type	Usage, CCF	Charge	
WATER CHAR SWR CHARGE BACK FLO 1 BASE FEE STORMWTR-C	10/20/2017 10/20/2017 10/20/2017 10/26/2017 10/26/2017	07/18/2017 07/18/2017 07/24/2017 07/24/2017	406	319	* <b>A</b>	87 87	257.52 463.71 150.00 150.00 29.178.57	
ast Payment Amt 30,024.96	Last Payment D 08/21/2017	ate Past Due		t Due Interest	Current Charge 30,199,80	A3	ount Due 0,199.80	

## **PAY BILL BY DUE DATE**

#### FALL RIVER COMMUNITY UTILITIES RATES, effective 7/1/2017 Sewer: \$5.33/CCF Water: \$2.96/CCF

Base fee, quarterly, depends on meter size:

3/4": \$14 5/8" \$14 3": \$150 4": \$200

1": \$16 6": \$300

8": \$400

1.5": \$30

2": \$50

10": \$500

Stormwater (houses and apartments up to 8 units): \$43 per quarter All other: \$43 per quarter per 2,800 sq. fl. impervious area

Notes: On-line "bill pay" bank checks not accepted. Fees by credit card providers are charged to customer.

#### KEEP LEAD FREE -- RUN TAPS 15 SECONDS AT DAY'S FIRST USE.

1.0 CCF = 100 CU. FT. = 748 Gallons

If paying by mail, avoid late fees by mailing early.

#### PAY ONLINE AT FALLRIVERMA.ORG

If you are mailing payment only, mail to: Collector's Office, Fall River PO. Box 844515 Boston, MA 02284

For payment in person:

Collector's Office One Government Center, 2nd Floor Fall River, MA 02722-3002

Payments Hours: 9:00AM to 5:00PM Monday through Friday

Office hours for billing inquiries:

8:00AM to 5:00PM Monday through Friday

PAY BILL BY DUE DATE Please note address corrections below:

Non-receipt of bill not deemed excuse for non-payment. Property owner will be charged for frozen/missing meter.

12/11/2017



Bill Number

# City of Fall River, Massachusetts Community Utilities P.O. Box 844515 Boston, MA 02284

(508) 324-2330 Current Charges Account Number .... 02690 Past Due Interest Past Due Bill Date 30,199.80 .00 .00 10/31/2017 Amount Due \$30,199.80

# **PUBLIC UTILITY WATER & SEWER BILL**

Include this portion with payment Make checks payable to: City of Fall River

AMAZON, COM. DEDC LLC (BOS7) AP NON INVENTORY P.O. BOX 80683 SEATTLE WA 98018

020860420180002084440000030199806

<sup>&</sup>quot; Detach and return the portion below with your payment "



# City of Fall River, Massachusetts Community Utilities P.O. Box 844515

Boston, MA 02284 (508) 324-2330

# **PUBLIC UTILITY WATER & SEWER BILL**

**Customer Copy** 

Keep this portion for your records

Customer AMAZON.COM.DEDC LLC (BOS7)				Service Address 1180 INNOVATION WY				
Bill Number Bill Date 224765 01/26/2018			Augus	Account Number 02690	<b>ar</b> i, e e i e i e i		Daté 7/2018	
Description	Present Read Date	Previous Read Date	Present Meter Reading	Previous Meter Reading	Read Type	Usage, CCF	Charge	
WATER CHAR SWR CHARGE BASE FEE STORMWTR-C	01/24/2018 01/24/2018 01/26/2018 01/26/2018	10/20/2017 10/20/2017 10/26/2017 10/26/2017	482 ·	406	A	76 76	224.96 405.08 150.00 29,178.57	
ast Payment Amt 30,199.80	Last Payment Da 12/04/2017	ate Past Due /	Amount Pas	t Due Interest 🖔 😳	Current Charge 29,958,61		ount Due 9,958,61	

#### **PAY BILL BY DUE DATE**

If paying by mail, avoid late fees by mailing early.

# FALL RIVER COMMUNITY UTILITIES RATES, effective 7/1/2017

Water: \$2.96/CCF

3": \$150

Sewer: \$5.33/CCF

Base fee, quarterly, depends on meter size:

4": \$200

5/8" \$14 3/4": \$14

1": \$16 6": \$300 1.5": \$30 8": \$400

2": \$50

10": \$500

Stormwater (houses and apartments up to 8 units): \$43 per quarter All other: \$43 per quarter per 2,800 sq. ft. impervious area

Notes: On-line "bill pay" bank checks not accepted. Fees by credit card providers are charged to customer.

#### KEEP LEAD FREE - RUN TAPS 15 SECONDS AT DAY'S FIRST USE.

1.0 CCF = 100 CU. FT. = 748 Gallons

#### PAY ONLINE AT FALLRIVERMA.ORG

If you are mailing payment only, mail to: Collector's Office, Fall River PO. Box 844515 Boston, MA 02284

For payment in person: Collector's Office One Government Center, 2nd Floor Fall River, MA 02722-3002

Payments Hours: 9:00AM to 5:00PM Monday through Friday

Office hours for billing inquiries: 8:00AM to 5:00PM Monday through Friday

Non-receipt of bill not deemed excuse for non-payment. Property owner will be charged for frozen/missing meter.

> **PAY BILL BY DUE DATE** Please note address corrections below:

Detach and return the portion below with your payment.



# City of Fall River, Massachusetts Community Utilities P.O. Box 844515

Boston, MA 02284 (508) 324-2330

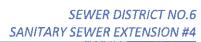
				_	
Bili Number 224765	Bill Date 01/26/2018	Account Number 9 02690	Past Due	Past Due Interest	Current Charges 29,958.61
PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PARTY OF	an againg a sing amateur and the operation of the same		The Manager of Company of the Compan	Date Due	Amount Due
				03/07/2018	\$29,958.61
				□ (1) (日本・中へ・後を申して事して事して事の。	Branches - Complete -

# **PUBLIC UTILITY WATER & SEWER BILL**

AMAZON.COM.DEDC LLC (BOS7) AP NON INVENTORY P.O. BOX 80683 SEATTLE WA 98018

Include this portion with payment Make checks payable to: City of Fall River

02086042018000224765800029958618





APPENDIX 4 – COST ESTIMATE

#### McFARLAND-JOHNSON, INC.

60 RAILROAD PLACE SARATOGA SPRINGS, NY 12866 PHONE (518) 580-9380 FAX (518) 580-9383 www.mjinc.com

# ENGINEER'S OPINION OF PROBABLE COSTS

Project:

Scannell Properties, Schodack, New York Sanitary Sewer Extension #4

July 5, 2018

Bid Item	Description Of Item	Unit	Quantity	Unit Price	Engineer's Estimate
01	8" PVC SEWER PIPE	LF	4200	\$65	\$273,000.00
02	SEWER MANHOLE	EA	21	\$6,000	\$126,000.00
03	SEWER CONNECTION	EA	1	\$3,000.00	\$3,000.00
04	BORE UNDER RT 9 & 20	LF	150	\$300.00	\$45,000.00
05	UPGRADE PUMP STATION	L5	1	\$150,000.00	\$150,000.00
-					
	TOTAL (Construction)				\$597,000.00
<u></u> -	15% Contingency Grand Total (Construction)				\$89,550.00 \$686,550.00

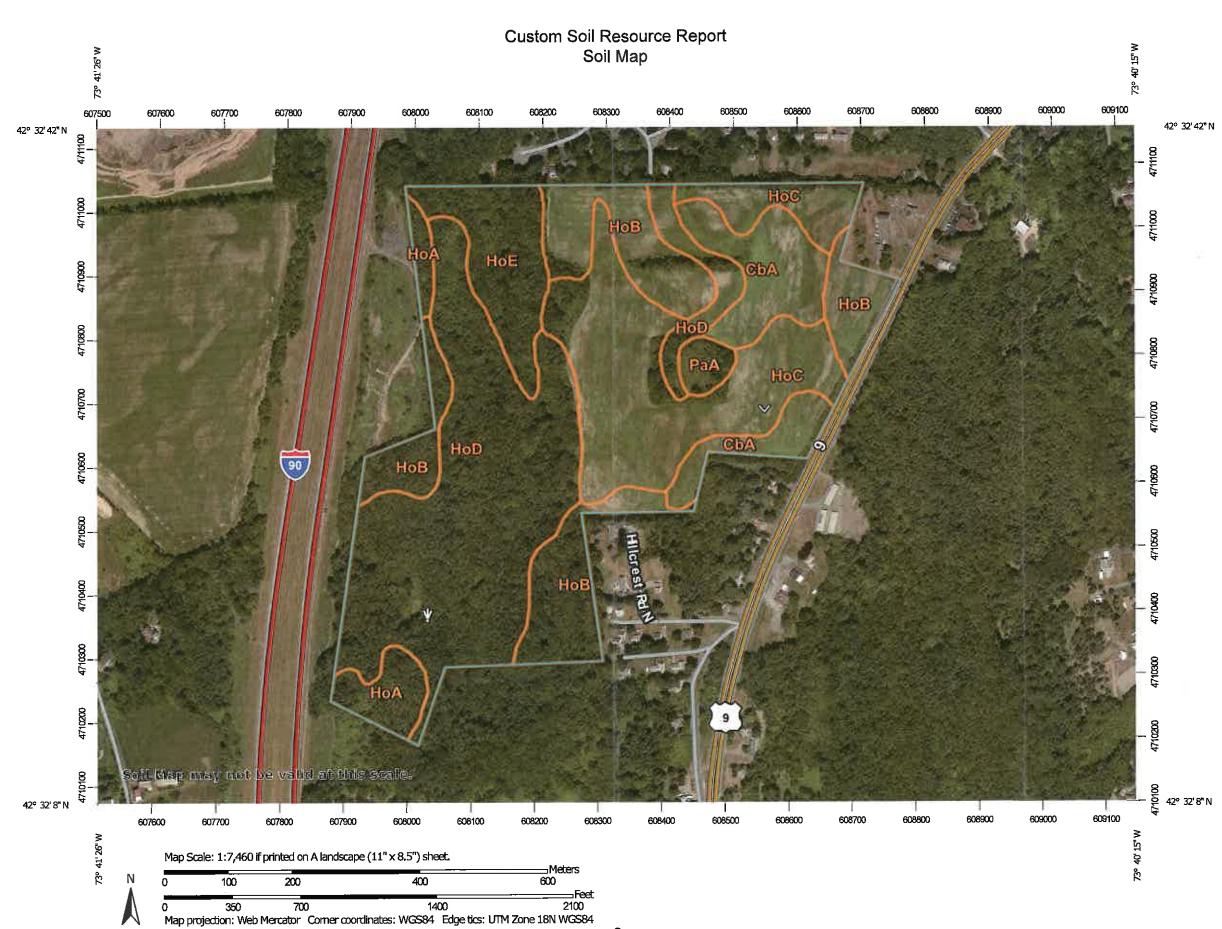
Additional Costs	Unit	Quantity	Unit Price	Engineer's Estimate
	ļ			

TOTAL PROJECT COST

\$687,000.00



APPENDIX 5 – NRCS SOILS REPORT



### Custom Soil Resource Report

### MAP LEGEND

#### Area of Interest (AOI) Spoil Area Area of Interest (AOI) Stony Spot Soils Very Stony Spot Soil Map Unit Polygons Wet Spot Soil Map Unit Lines Other Δ Soil Map Unit Points Special Line Features **Special Point Features** Water Features Blowout Streams and Canals **Borrow Pit Transportation** Clay Spot Rails 111 Closed Depression ٥ Interstate Highways Gravel Pit **US Routes Gravelly Spot** Major Roads Landfill Local Roads Lava Flow Background Marsh or swamp Aerial Photography Mine or Quarry Miscellaneous Water Perennial Water Rock Outcrop Saline Spot Sandy Spot Severely Eroded Spot Sinkhole Slide or Slip

Sodic Spot

#### MAP INFORMATION

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

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

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

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

Source of Map: Natural Resources Conservation Service Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Rensselaer County, New York Survey Area Data: Version 14, Oct 8, 2017

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

Date(s) aerial images were photographed: Jul 2, 2015—Oct 5, 2016

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

# **Map Unit Legend**

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
CbA	Castile gravelly silt loam, 0 to 5 percent slopes	10.9	9.8%
НоА	Hoosic gravelly sandy loam, 0 to 3 percent slopes	4.4	3.9%
НоВ	Hoosic gravelly sandy loam, 3 to 8 percent slopes	20.8	18.8%
HoC	Hoosic gravelly sandy loam, rolling	25.8	23.3%
HoD	Hoosic gravelly sandy loam, hilly	38.8	35.0%
HoE	Hoosic gravelly sandy loam, steep	8.5	7.7%
PaA	Natchaug muck, 0 to 2 percent slopes	1.6	1.4%
Totals for Area of Interest		110.7	100.0%

# **Map Unit Descriptions**

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

Most minor soils have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Other minor components, however, have properties and behavioral characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit

## Custom Soil Resource Report

# Table—Hydrologic Soil Group

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
СЬА	Castile gravelly silt loam, 0 to 5 percent slopes	A/D	10.9	9.8%
HoA	Hoosic gravelly sandy loam, 0 to 3 percent slopes	A	4.4	3.9%
НоВ	Hoosic gravelly sandy loam, 3 to 8 percent slopes	A	20.8	18.8%
HoC	Hoosic gravelly sandy loam, rolling	A	25.8	23.3%
HoD	Hoosic gravelly sandy loam, hilly	А	38.8	35.0%
HoE	Hoosic gravelly sandy loam, steep	A	8.5	7.7%
PaA	Natchaug muck, 0 to 2 percent slopes	B/D	1.6	1.4%
Totals for Area of Inter	rest	<u> </u>	110.7	100.0%

# Rating Options—Hydrologic Soil Group

Aggregation Method: Dominant Condition
Component Percent Cutoff: None Specified

Tie-break Rule: Higher







# MAP PLAN AND REPORT FOR CONSOLIDATED WATER DISTRICT NO. 101 WATER EXTENSION #6

For Water Services to Scannell Properties



# SCHODACK DISTRIBUTION CENTER US ROUTE 9 SCHODACK, NEW YORK

#### PREPARED FOR:

SCANNELL PROPERTIES 294 GROVE LANE EAST, SUITE 140 WAYSATA, MN 55391

#### PREPARED BY:

MCFARLAND JOHNSON 60 RAILROAD PLACE, SUITE 402 SARATOGA SPRINGS, NY 12866 PH: (518) 580-9383 FX: (585) 905-0882

MJ PROJECT NO. 18362.00





# Contents

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- Appendix 1 Existing Water District Map
- Appendix 2 Proposed Water District Extension Mapping and Legal Description
- Appendix 3 –Water Calculations
- Appendix 4 Cost Estimate
- Appendix 5 NRCS Soils Report



## Section 1: Project Description

#### A. Introduction

This report is for the water supply for the construction of an approximate one million square foot distribution center on an existing roughly 116.39 acres of undeveloped land between I-90 and New York State Route 9 in the Town of Schodack, New York.

#### B. Existing Conditions

The approximately 116.39 acres consists of agricultural and wooded undeveloped land. Ephemeral marsh areas are in the east-northeast, northeast, and southwestern portions of the site. Historically this land was used agriculturally for farming corn and wheat but specifically at the site no buildings have been constructed, crops grown, or pesticides used. The site is bordered by forest, residential development, and light commercial development.

#### C. Vegetative Cover

The site contains plant species associated with abandoned agricultural land, mixed coniferous/deciduous upland successional forest, and relatively small wetlands. This area was previously forest cleared for farming with signs of logging including stumps, brush, and multi-trunked trees. The meadow is predominately tall grass that is mowed on an annual basis.

#### D. Topography

The project site is relatively level to steeply sloping with surface elevations in the range of about 310 to 350 feet. The easterly two- thirds of the site is mostly open fields with one roughly 400 square foot area where the surface slopes down some 20 feet in elevation to a shallow pond. The westerly third of the site is wooded and occupied by a ravine, which on the east side slopes steeply down about 40 feet in elevation before rising about 20 to 30 feet in elevation on the west side of the site.

#### E. Soils

According to the Natural Resources Conservation Service (NRCS) Soils Report, there are 7 mapped soils identified within the project boundary (see Appendix 5). Castile gravelly silt loam type D soils (CbA, 0-5 percent slopes), Hoosic gravelly sandy loam type A soils (HoA/B/C/D, 0-3/3-8/ rolling/ hilly/ steep percent slopes), and Natchaug muck type D soils (PaA, 0-2 percent slopes).

#### F. Land Use and Zoning

The project is proposed on two adjoining properties (tax ID 200.00-6-1.3, 73.6 acres; and 200.00-6.22.1, 42.7 acres) comprising a total of 116.3  $\pm$ . It is located along NYS Route 9 in the Town of Schodack,



Rensselaer County, New York. The proposed facility will be constructed in its entirety in one phase. The project site is currently zoned Planned Development District (PD-3) and the proposed use, sales distribution center, is an allowed use within this district subject to site plan approval. Because the project site is located within the Town's Water Quality Control District, the project also requires a special permit. Both of these approvals have been conditionally granted.

The project includes associated on-site roadways, parking, utility infrastructure, landscaping, and stormwater management facilities. There will be two (2) driveway entrances to the site off NYS Route 9; one dedicated driveway for employees and one dedicated driveway for trucks. A security gate with a Guard House will be provided at the truck entrance. Approximately 1,050 parking spaces will be provided for employees and approximately 300 parking spaces will be provided for truck trailers. Off-site improvements will include an extension of water, sewer, and natural gas mains to the project site. The off-site utilities will be extended from their current terminus along NYS Route 9 south of NYS Route 150.

# Section 2: Water System

#### A. Description of Existing Water System

The project site is located near Consolidated Water District No. 101, but is currently not within the District as shown in Appendix 1. This proposed water district extension would extend the District to encompass the project site pending the approval of the Schodack Town Board, the NYS Department of Health, and the NYS Department of Environmental Conservation. The water system serving Consolidated Water District No. 101 has a capacity of 0.5 MGD and the current usage is approximately 130,000 GPD.

#### B. Description of Proposed Water System

The project proposes a 2,550 LF 12" PVC water system extension to provide 6,000 GPD to the site. See Appendix 2 for the Utility Plans outlining the proposed system. The system will have a meter and backflow preventer in separate vaults at the street. The proposed demand from the project would increase the existing demand from 130,000 GPD to 136,000 GPD. See Appendix 3 for supporting documentation of water demand.

#### C. Water Flow Test Results

A hydrant flow test was done along the existing 12" water main for the last system extension in 2017. The connection and hydrant flow test locations are very similar to this project's (Routes 9 & 20 south of Route 150). The flow test data from 2017 were used to model the current project's extension. The results of the test were a flow of 4,153 GPM at a residual pressure of 20 psi. Static pressure before the test was 90 psi. The static and residual pressures were taken at an elevation of approximately 310± feet AMSL. A new hydrant flow test has been scheduled and the model will be updated if needed. See Appendix 3 for Water Calculations.

2



#### D. Hydraulic Calculations

A hydraulic model was used to compute the pressure at the base of the riser for the building, including the loss from meters and/or backflow prevention devices. Calculations are based on the Utility plans and a Neptune Protectus III water meter. See Appendix 2 for the Hydraulic Calculations.

The building will have an ESFR (Early Suppression Fast Response) sprinkler system which is designed to supply large amounts of water to extinguish any fire. Because of this system's demands, the building will have a 200,000-gallon water supply tank with a pump for the sprinkler system. The building's sprinkler system will be self-sufficient and is not expected to draw significant demand. Calculations were done to represent a fire hydrant demand and are in Appendix 3.

#### E. Backflow Prevention Requirements

Backflow prevention was assumed for the site based upon the size of the supply line. The site is expected to have a 12" Watts Double Detector Assembly immediately after the meter at the street.

#### F. Conclusion

Presently, the water system serving Consolidated Water District No. 101 has a capacity of 0.5 MGD and the current usage is approximately 130,000 GPD. The proposed Schodack Distribution Center is estimated to utilize 6,000 GPD, increasing the existing demand from 130,000 GPD to 136,00 GPD. Therefore, the capacity of the Consolidated Water District No. 101 will allow the acceptance of the additional water demand generated by the proposed Schodack Distribution Center.

# Section 3: Financing

Scannell Properties will be financing the installation of the proposed water system. A cost estimate of the proposed work is included in Appendix 4. No debt will be issued by the town for this project.

#### Section 4: Water District Extension

The project site is located near Consolidated Water District No. 101, but is currently not within the Water District as shown in Appendix 1. This proposed Water District Extension would extend the District to encompass the project site pending the approval of the Schodack Town Board, the NYS Department of Health, and the NYS Department of Environmental Conservation. The map shown in Appendix 2 shows the land to be included within the Water District. The typical property within the proposed water district extension is an approximate 1,000,000 square foot Sales Distribution Center.

3





## Section 5: User Cost and Connection Fees

The property to be added to Consolidated Water District No. 101 will become a rate payer under the district.

The Town of Schodack's building water line installation fee is \$200 (estimate 4 inspections @ \$50 each) and the sewer district extension connection fee is \$25 for a total of \$225.00 to the Town of Schodack.

Current Town quarterly operations and maintenance charges are \$55 minimum (up to 18,000 gallons) plus \$4 per 1,000 gallons used over 18,000 gallons, billed approximately one week after the end of each calendar quarter. Based on a water use of 6,000 GPD, this would result in an annual water usage fee of:

(6,000 GPD \* 365 Days - 72,000) / 1,000 GAL \* 4 = \$8,472.00 + \$220.00 = \$8,692.00 per year for the Distribution Center.

The Consolidated Water District No. 101 must repay annual debt. In accordance with Town Board Resolution 2017-239, for commercial properties, the calculation for the capital charges for each property would include 1 equivalent dwelling unit (EDU) plus 1 additional EDU, based upon estimated water usage or 50% discounted estimated water usage per DEC flow guidelines, for every 72,000 gallons or portion thereof in excess of 72,000 gallons. Estimated DEC flow guidelines are based upon the square footage of the structure calculated as follows:

6000 GPD \* 365 days / 72,000 gal = 31 EDU + 1 additional EDU = 32 EDU.

Based upon the Consolidated Water District No. 101, the capital rate for the typical property is \$392 per equivalent dwelling unit. The total capital payment for the typical property within the water district extension for the first year after district extension creation shall equal:

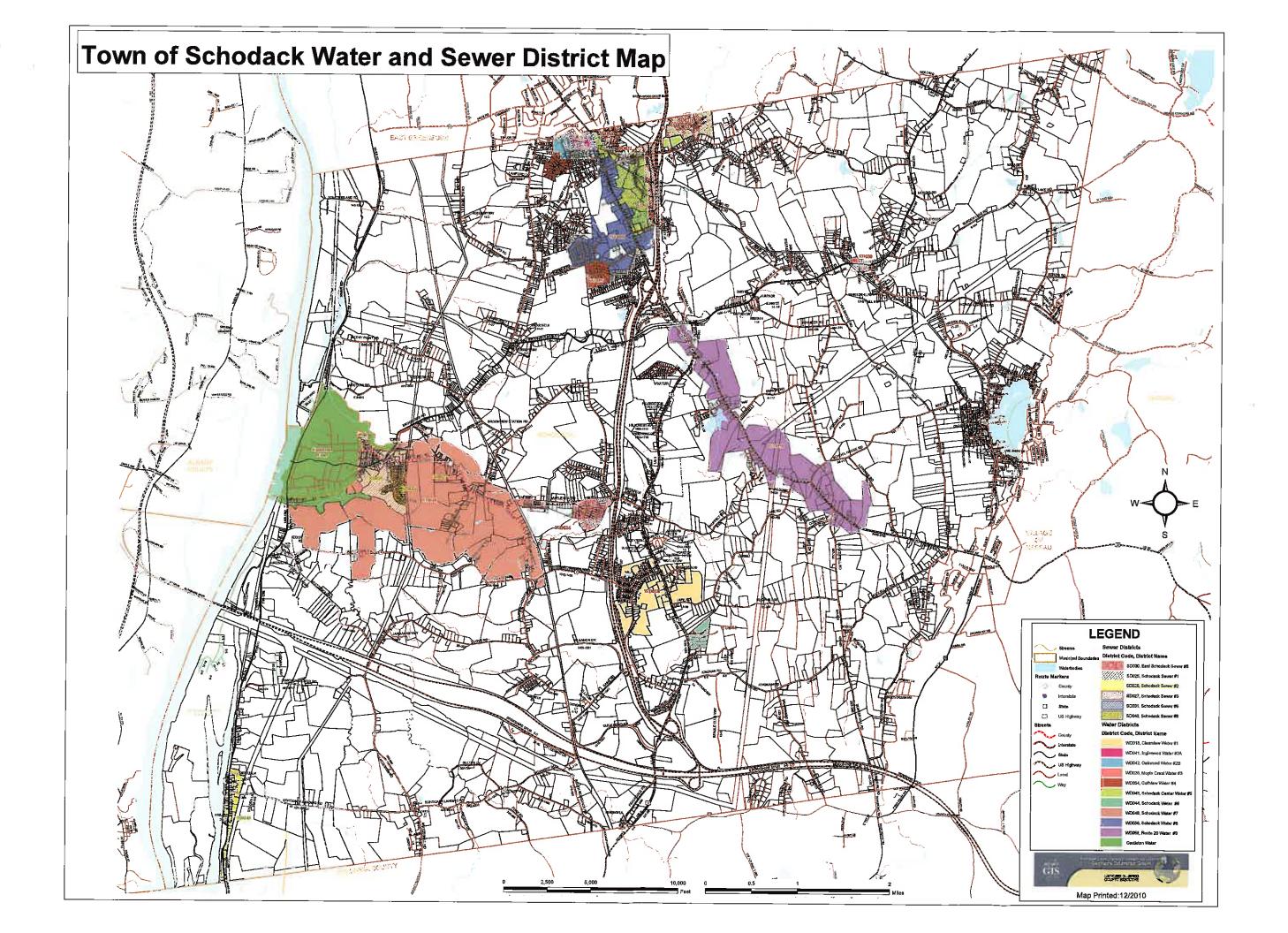
32 units \* \$392 = **\$12,544** in total capital charges.

#### Section 6: Conclusion

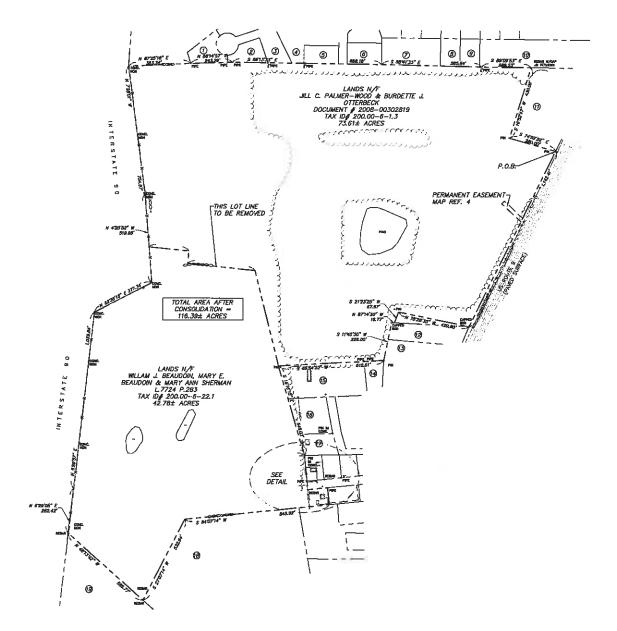
This report concludes that the Town of Schodack Consolidated Water District No. 101 has the capacity to accept the additional demand from this project.

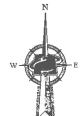
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MAP DITITLED "PLAT OF SURVEY OF LANDS OF MICHAEL L. & CHARLOTTE M. BELAK STLATE AT 1813 ROUTE 9" BY C.P. MONROW, DATED JANUARY 6, 1992, AND FILED IN THE RENSERLAR COUNTY CLERK'S OFFICE AS MAP 1995-1.

MAPS ENTITLED "NEW YORK STATE DEPARTMENT OF PUBLIC WORKS, SCHODACK CENTER-VALATIE PT. 2, STATE HIGHWAY NO. 5028" MAPS NO. 53, 54, 55, 63, 64, 65, 66"

MAP ENTITLED "KNICKERBOCKER FARMS LOT NO. 1" BY BOT ASSOCIATES, DATED 4/10/84, AND FLED IN THE REMSSELAR COUNTY CLERK'S OFFICE AS MAD 1884-31.

MAP ENTITLED "SUBDIVISION PLAN ERRORWOOD ESTATES SECTION TWO" BY GERARD B. MCMAHON, DATED MAY 24, 1972.

MAP ENTITLED "PROPOSED 3 - LOT SUBDIMISION OF LANDS OF MAY C. FRAZEE (340-1208)" BY PREDERICK J. METZGER LAND SUPRETURS, P.C., DATED AUGUST 6, 2015, AND FILED IN THE RENESSLADE COUNTY CLERK'S OFFICE AS MAP 2016-108.

MAP ENTITLED "CORRECTED MAP FRAZEE MONOR 3-LOT SUBDIVISION" BY KEVIN M. BRADY, DATED JUNE 3, 1864, AND FILED IN THE REMISSELARE COUNTY CLERK'S DEFICE AS MAP NO. 1898-96.

EASEMENTS AND/OR SUBSURFACE STRUCTURES RECORDED OR UNRECORDED ARE NOT GUARANTEED UNLESS PHYSICALLY EVIDENT ON THE PREMISES AT THE TIME OF THE SURVEY.

4. SUBJECT TO ALL RIGHTS, EASEMENTS, COVERANTS AND RESTRICTIONS OF RECORD.

REFERENCE IS MADE TO FIRST AMERICAN DITLE INSURANCE COMPANY DITLE NO. NCS-769663-CHIZ, EFFECTIVE DATE 1/1/2018.

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**DETAIL** N.T.S.

# Legal Description Consolidated Water District No.101

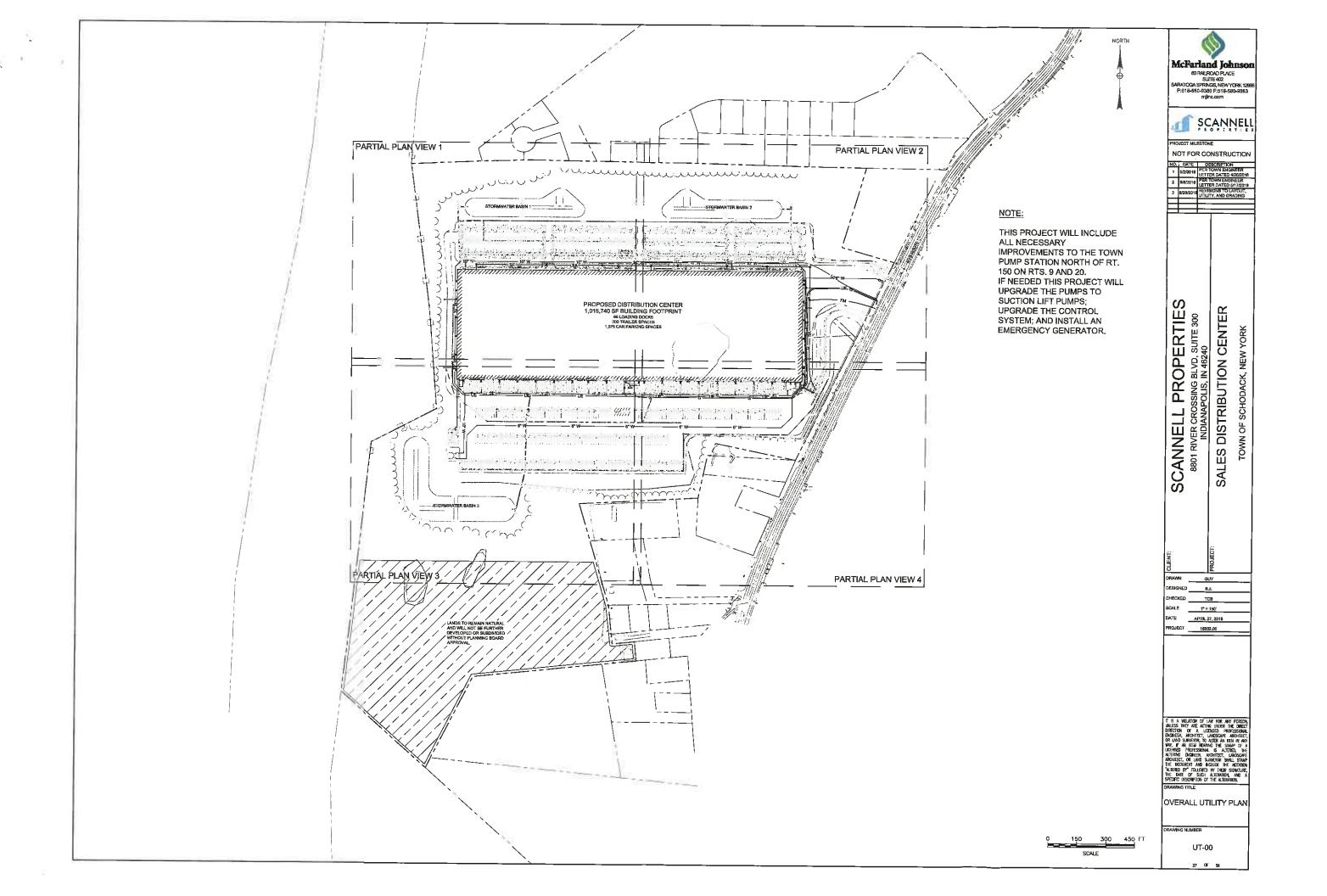
Extension #6

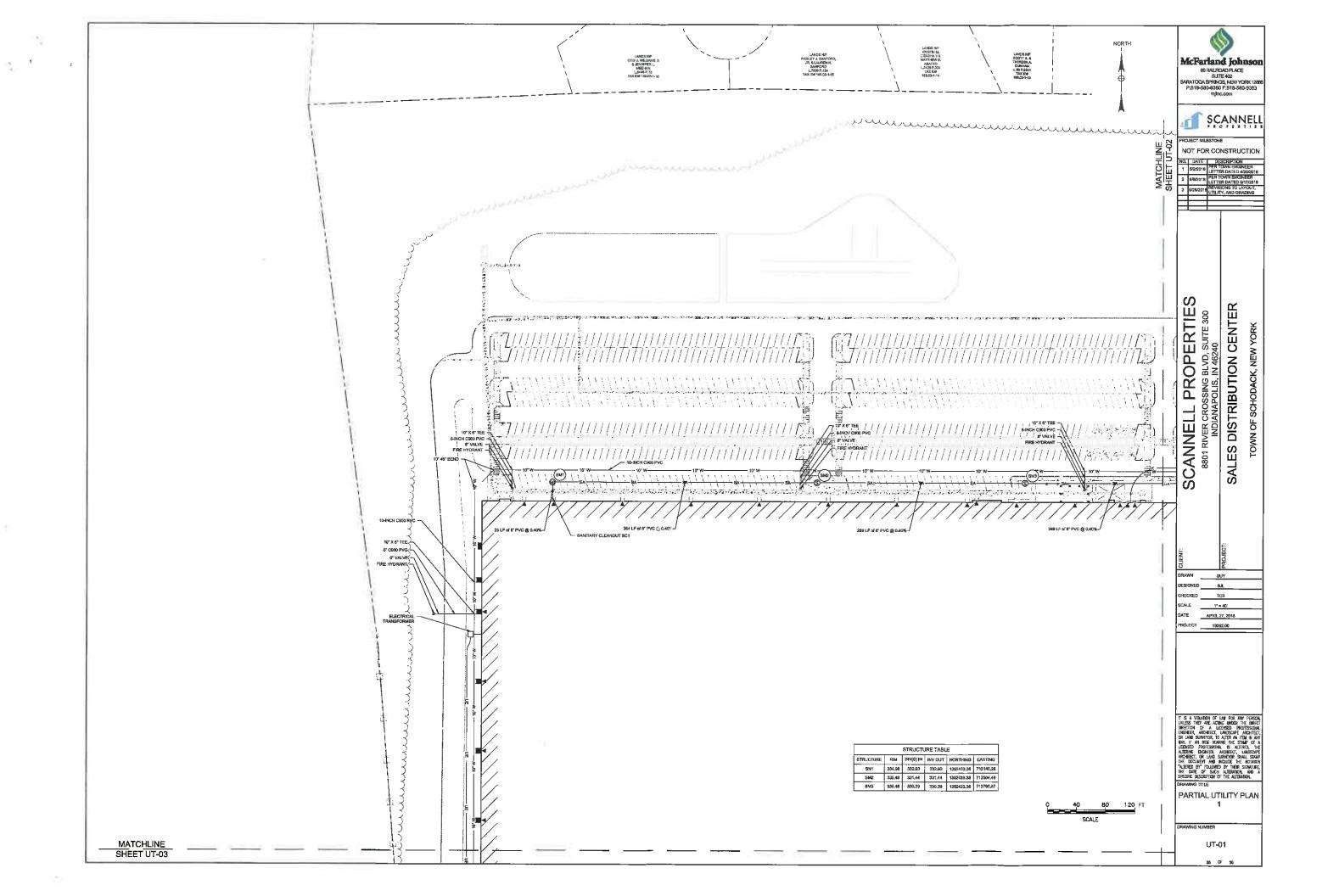
Consolidated lands now or formerly of Jill C. Palmer-Wood, Burdette J. Otterbeck, William J. & Mary Beaudoin and Mary Ann Sherman

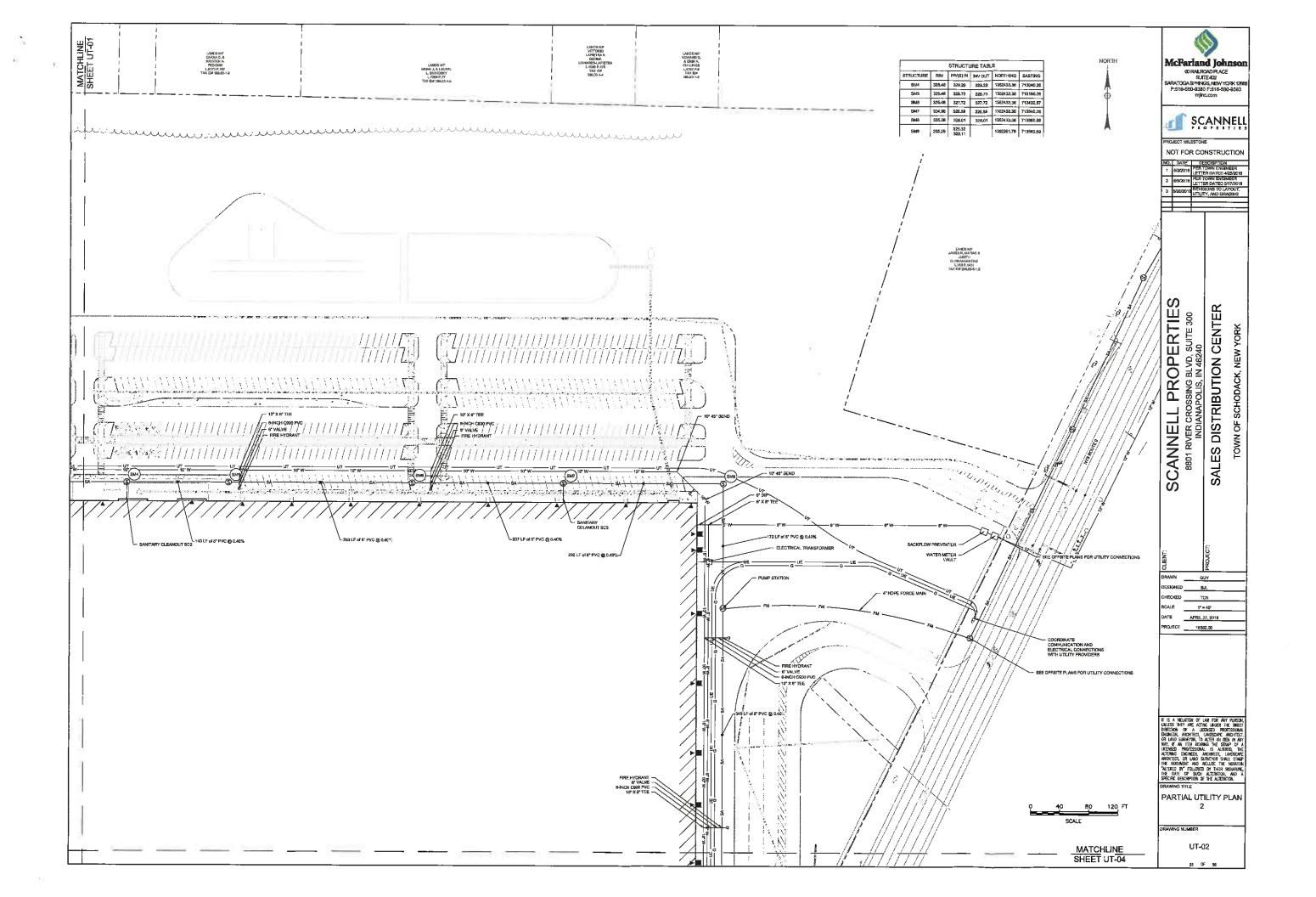
All that certain parcel or piece of land situate in the Town of Schodack, County of Rensselaer, and State of New York, and more particularly bounded and described as follows:

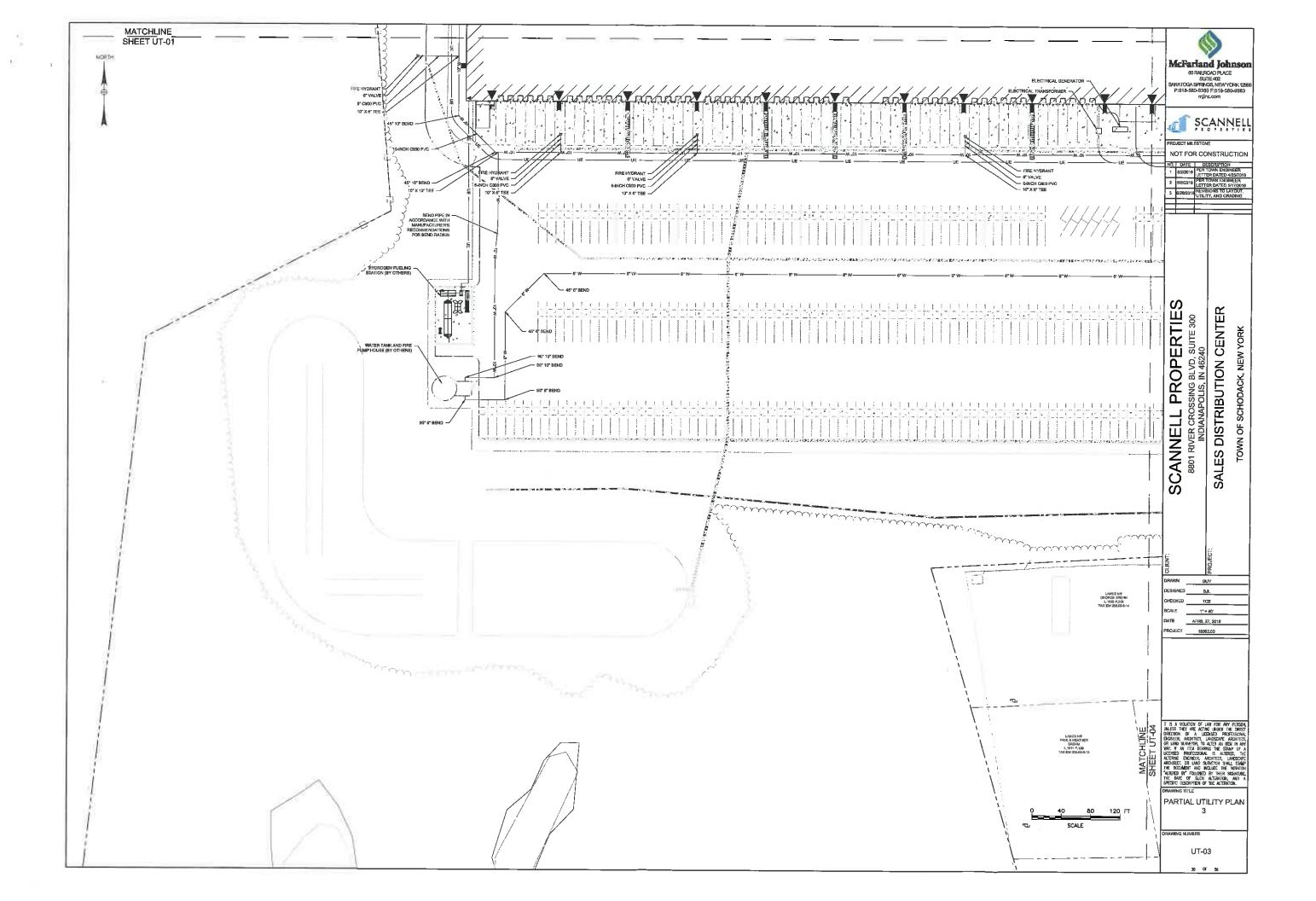
Beginning at an iron pin found in the western highway boundary of U.S. Route 9 at its intersection with the division line between lands now or formerly of Jill C. Palmer-Wood and Burdette J. Otterbeck (Document number 2008-00302819) to the south and lands now or formerly of James R. Matias and Judith Dunham-Matias (Liber 169, page 1431) to the north; Thence along the western highway boundary of U.S. Route 9 South 26° 01' 48" West, a distance of 1142.41 feet to a capped rod found at the northeast corner of lands now or formerly of Michael and Charlotte Belak (Liber 1298, page 417); Thence North 78° 28' 35" West, a distance of 420.80 feet to a point, Thence South 21° 23' 25" West, a distance of 67.67 feet to a point; Thence along the division line with lands now or formerly of Michael and Charlotte Belak (Liber 1298, page 417) North 87° 14' 30" West, a distance of 16.77 feet to a capped rod found; Thence continuing along the division line with Michael and Charlotte Belak, and along the division line with lands now or formerly of Frank and Linda Paonessa (Liber 324, page 1892) South 11° 45' 30" West, a distance of 226.00 feet to a iron pin found; Thence along the division line with lands now or formerly of Clifford and Deborah Brehm (Liber 1249, page 225) and along the division line with lands now or formerly George Brehm (Liber 1032, page 306) South 86° 54' 22" West, a distance of 612.61 feet to an iron pin found; Thence along the division line with lands now or formerly of George Brehm (Liber 1032, page 306), lands now or formerly of Paul and Heather Brehm (Liber 1611, page 199), and lands now or formerly of Cheryl L. Ouderkirk (Liber 648, page 221) South 16°16'15" East, a distance of 546.03 feet to an iron pin in concrete found; Thence along the division line with lands now or formerly William J. Beaudoin and Mary Beaudoin (Liber 1302, page 805) and with the terminus of Hillcrest Avenue South 05°52'46" East, a distance of 200.90 feet to a rebar found; Thence along the southern side of Hillcrest Avenue and passing through an iron pipe, North 84°07'14" East, a distance of 115.00 feet to a point in the southern line of Hillcrest Avenue at its intersection with the division line between lands now or formerly of Carl and Mary Sherman (Liber 1302, page 807) to the east and William J. and Mary E. Beaudoin and Mary Ann Sherman (Liber 7724, page 283) to the west; Thence along said division line South 05°52'46" East, a distance of 100.00 feet to a point; Thence along the division line with lands now or formerly of Hartland Associates, Inc, (Liber 7602, page 263) and lands now or formerly of Donald Hart (Liber 168, page 2218) South 84°07'14" West, a distance of 845.92 feet to a point; Thence continuing along the division line with lands now or formerly of Donald Hart (Liber 168, page 2218) and passing through a rebar found, South 27°07'14" West, a distance of 532.64 feet to a rebar found; Thence along the division line with lands now or formerly Hartland Associates, Inc. (Liber 168, page 2250) North 48°13'42" West, a distance of 586.77 feet to a rebar found at the eastern highway boundary of Interstate 90; Thence along the eastern highway boundary of Interstate 90 the following six courses and distances:

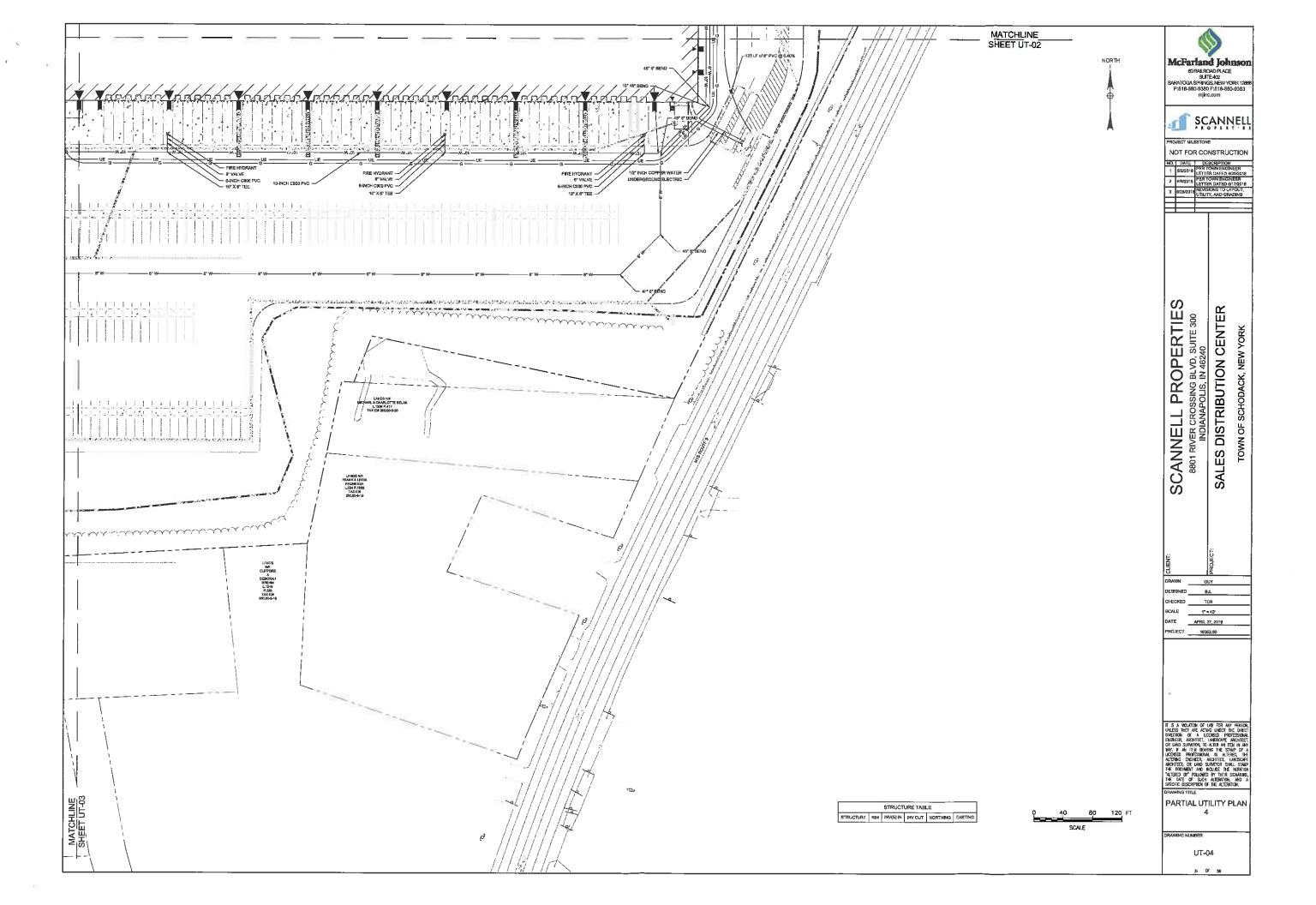
- 1. North 06°29'05" East, a distance of 262.42 feet to a point;
- 2. North 06°29'57" East, a distance of 1039.84 feet to a concrete monument found;













APPENDIX 3 –WATER CALCULATIONS



# MCFARLAND JOHNSON

Engineering, Planning & Construction Administration www.mjinc.com

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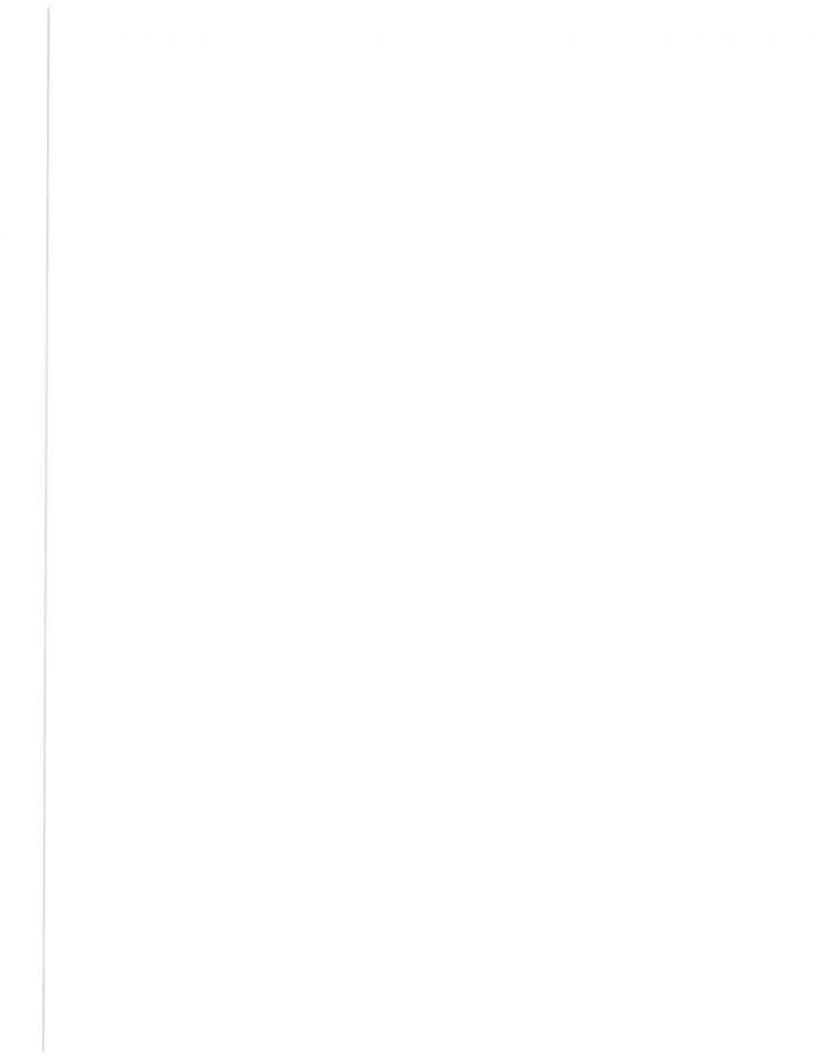
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# McFarland Johnson

Engineering, Planning & Construction Administration www.mjinc.com

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#### McFARLAND-JOHNSON, INC.

60 RAILROAD PLACE SARATOGA SPRINGS, NY 12866 PHONE (518) 580-9380 FAX (518) 580-9383 www.mjinc.com

Project:

Scannell Properties, Schodack, New York Estimated Water Usage

June 28, 2018

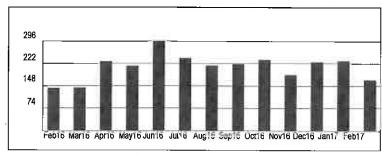
Date	Paul 1995 Facility (1995) 1 1 1 1 1 1	Water Usage (gal)	Period of Time (days)	GPD
02/2017	Lakeland, FL	167000	29	5759
_ 03/2017	Lakeland, FL	167000	29	5759
04/2017	Lakeland, FL	175000	32	5469
05/2017	Lakeland, FL	160000	29	5517
06/2017	Lakeland, FL	168000	30	5600
07/2017	Lakeland, Fl.	198000	33	6000
09/2017	Lakeland, FL	185000	33	5606
10/2017	Lakeland, FL	123000	29	4241
11/2017	Lakeland, FL	148000	29	5103
12/2017	Lakeland, FL	185000	32	5781
07/2017-10/2017	Fall River, MA	65076	94	692
10/2017-01/2018	Fall River, MA	56848	96	592
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# CITY OF LAKELAND DEPARTMENT OF ELECTRIC UTILITIES

Service Location: 1760 COUNTY LINE RD LAKELAND, FL 33811 US

SERVICE LOCATION DETAIL		10000
Water Service Ite	mized Charges	Total Charges
	4.40 00	
Water Commercial Inside Monthly Base Charge	148.30	
Water-1000 gal - 120 @ 2.26\$	271.20	
Water-1000 gal - 47 @ 2.26\$	106.22	
Inside the City Utility Tax\$	52.57	
Current Water Service Charges		578.29
Water Irrigation		
Irrigation Commercial Inside Monthly Base Charge\$	74.15	
Water-1000 gal - 42 @ 2.42\$	101.64	
Water-1000 gal - 35 @ 3.02\$	105.70	
Inside the City Utility Tax\$	28.15	
Current Water Irrigation Charges	200000	309.64
Other Services		
Solid Waste Commercial\$	17,05	
Wastewater Service\$	1,049,08	
Stormwater Service\$	2,294,74	
Fire Sprinkler Protection\$	308.40	
Wastewater Flow Impact\$	1,468,95	
Other Services and Account Charges		5,138.22

Service Reading	Meter Number	Current Read Date	Current Reading	Prior Read Date	Prior Reading	No. of Days	Billed Usage	Prior Month	Same Month Last Year
Water-1000 gal	30000102	02/02/2017	3574	01/04/2017	3497	29	77	79	74
Water-1000 gal	31878884	02/02/2017	8365	01/04/2017	8245	29	120	162	89
Water-1000 gal	60841042	02/02/2017	2672	01/04/2017	2625	29	47	69	51



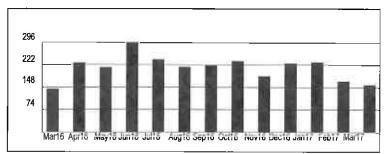
Water Service

# CITY OF LAKELAND DEPARTMENT OF ELECTRIC UTILITIES

Service Location: 1760 COUNTY LINE RD LAKELAND, FL 33811 US

SERVICE LOCATION DETAIL		V 22 1 24
	mized Charges	Total Charges
Water Service		
Water Commercial Inside Monthly Base Charge\$	148.30	
Water-1000 gal - 113 @ 2.26\$	255.38	
Water-1000 gal - 42 @ 2.26\$	94.92	
Inside the City Utility Tax\$	49.86	
Current Water Service Charges	725	548.46
Water Irrigation		
Irrigation Commercial Inside Monthly Base Charge\$	74.15	
Water-1000 gal - 42 @ 2.42\$	101.64	
Water-1000 gal - 59 @ 3.02\$	178.18	
Water-1000 gal - 180 @ 3.93\$	707.40	
Inside the City Utility Tax\$	106.14	
Current Water Irrigation Charges		1,167.51
Other Services		.,
Solid Waste Commercial\$	17.05	
Wastewater Service\$	1,001,32	
Stormwater Service\$	2,294.74	
Fire Sprinkler Protection\$	308.40	
Wastewater Flow Impact\$	1,468,91	
Other Services and Account Charges		5,090.42
• 100/		2,0001.2

Service Reading	Meter Number	Current Read Date	Current Reading	Prior Read Date	Prior Reading	No. of Days	Billed Usage	Prior Month	Same Month Last Year
Water-1000 gal	30000102	03/03/2017	3855	02/02/2017	3574	29	281	77	83
Water-1000 gal	31878884	03/03/2017	8478	02/02/2017	8365	29	113	120	88
Water-1000 gal	60841042	03/03/2017	2714	02/02/2017	2672	29	42	47	53



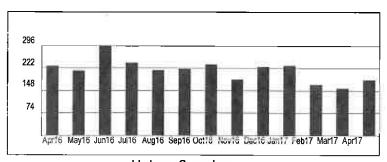
Water Service

# CITY OF LAKELAND DEPARTMENT OF ELECTRIC UTILITIES

Service Location: 1760 COUNTY LINE RD LAKELAND, FL 33811 US

SERVICE LOCATION DETAIL	A STATE OF	HE YE TOME
Ite	nized Charges	Total Charges
Water Service		•
Water Commercial Inside Monthly Base Charge\$	148.30	
Water-1000 gal - 133 @ 2.26\$	300.58	
Water-1000 gal - 50 @ 2.26\$	113.00	
Inside the City Utility Tax\$	56.19	
Current Water Service Charges		618.07
Water Irrigation		010.07
Irrigation Commercial Inside Monthly Base Charge\$	74.15	
Water-1000 gal - 42 @ 2.42\$	101.64	
Water-1000 gal - 28 @ 3.02\$	84.56	
Inside the City Utility Tax\$	26.04	
Current Water Trigation Charges		000 00
Current Water Irrigation Charges	· · · · · · · · · · · · · · · · · · ·	286.39
Solid Waste Commercial\$	47.05	
	17.05	
Wastewater Service\$	1,112.76	
Stormwater Service\$	2,294.74	
Fire Sprinkler Protection\$	308.40	
Wastewater Flow Impact\$	862.17	
Other Services and Account Charges		4,595.12

Service Reading	Meter Number	Current Read Date	Current Reading	Prior Read Date	Prior Reading	No. of Days	Billed Usage	Prior Month	Same Month Last Year
Water-1000 gal	30000102	04/04/2017	3925	03/03/2017	3855	32	70	281	74
Water-1000 gal	31878884	04/04/2017	8611	03/03/2017	8478	32	133	113	144
Water-1000 gal	60841042	04/04/2017	2764	03/03/2017	2714	32	50	42	85



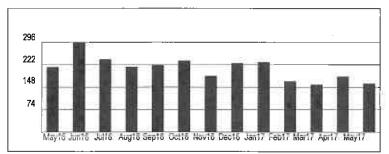
Water Service

# CITY OF LAKELAND DEPARTMENT OF ELECTRIC UTILITIES

Service Location: 1760 COUNTY LINE RD LAKELAND, FL 33811 US

SERVICE LOCATION DETAIL		
I	temized Charges	Total Charges
Water Service	-	_
Water Commercial Inside Monthly Base Charge\$	148.30	
Water-1000 gal - 117 @ 2.26\$	264.42	
Water-1000 gal - 43 @ 2.26\$	97.18	
Inside the City Utility Tax\$	50.99	
Current Water Service Charges		560.89
Water Irrigation		
Irrigation Commercial Inside Monthly Base Charge.	74.15	
Water-1000 gal - 42 @ 2.42\$	101.64	
Water-1000 gal - 28 @ 3.02\$	84.56	
Inside the City Utility Tax\$		
Current Water Irrigation Charges		286.39
Other Services		
Solid Waste Commercial\$	17.05	
Wastewater Service	1,021.22	
Stormwater Service\$		
Fire Sprinkler Protection\$		
Wastewater Flow Impact\$	447.05	
Other Services and Account Charges		4,088.46

Service Reading	Meter Number	Current Read Date	Current Reading	Prior Read Date	Prior Reading	No. of Days	Billed Usage	Prior Month	Same Month Last Year
Water-1000 gal	30000102	05/03/2017	3995	04/04/2017	3925	29	70	70	63
Water-1000 gal	31878884	05/03/2017	8728	04/04/2017	8611	29	117	133	130
Water-1000 gal	60841042	05/03/2017	2807	04/04/2017	2764	29	43	50	83



Water Service

3,673.25

# CITY OF LAKELAND DEPARTMENT OF ELECTRIC UTILITIES

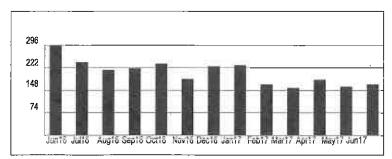
Service Location: 1760 COUNTY LINE RD LAKELAND, FL 33811 US Location No.: 2152438

SERVICE LOCATION DETAIL	TO AME Y	2.0
	mized Charges	Total Charges
Water Service		
Water Commercial Inside Monthly Base Charge\$	148.30	
Water-1000 gal - 124 @ 2.26\$	280.24	
Water-1000 gal - 44 @ 2.26\$	99.44	
Inside the City Utility Tax\$	52.80	
Current Water Service Charges	176	580.78
Water Irrigation		
Irrigation Commercial Inside Monthly Base Charge\$	74.15	
Water-1000 gal - 42 @ 2.42\$	101.64	
Water-1000 gal - 59 @ 3.02\$	178.18	
Water-1000 gal - 220 @ 3.93\$	864.60	
Inside the City Utility Tax\$		
Current Water Irrigation Charges	121100	1.340.43
Other Services	(C)	1,010.10
Solid Waste Commercial\$	17.05	
Wastewater Service\$	1.053.06	
Stormwater Service\$	2,294.74	
Fire Sprinkler Protection\$	308.40	

Other Services and Account Charges.....

Service Reading	L
Water-1000 gal	L
Water-1000 gal	
Water-1000 gal	ļ

Meter Number	Current Read Date	Current Reading	Prior Read Date	Prior Reading	No. of Days	Billed Usage	Prior Month	Same Month Last Year
30000102	06/02/2017	4316	05/03/2017	3995	30	321	70	72
31878884	06/02/2017	8852	05/03/2017	8728	30	124	117	202
60841042	06/02/2017	2851	05/03/2017	2807	30	44	43	94



Water Service

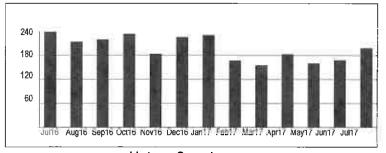
# CITY OF LAKELAND DEPARTMENT OF ELECTRIC UTILITIES

Service Location: 1760 COUNTY LINE RD LAKELAND, FL 33811 US

SERVICE	LUCATION	DETAIL

Ite	mized Charges	Total Charges
Water Service	_	J
Water Commercial Inside Monthly Base Charge\$	148.30	
Water-1000 gal - 147 @ 2.26\$	332.22	
Water-1000 gal - 51 @ 2.26\$	115.26	
Inside the City Utility Tax\$	59.58	
Current Water Service Charges		655.36
Water Irrigation		
Irrigation Commercial Inside Monthly Base Charge\$	74.15	
Water-1000 gal - 42 @ 2.42\$	101.6 <b>4</b>	
Water-1000 gal - 53 @ 3.02\$	160.06	
Inside the City Utility Tax\$	33.59	
Current Water Irrigation Charges		369.44
Other Services		
Solid Waste Commercial\$	17.05	
Wastewater Service\$	1,172.46	
Stormwater Service\$	2,294.74	
Fire Sprinkler Protection\$	308.40	
Other Services and Account Charges		3,792.65

Service Reading	Meter Number	Current Read Date	Current Reading	Prior Read Date	Prior Reading	No. of Days	Billed Usage	Prior Month	Same Month Last Year
Water-1000 gal	30000102	07/05/2017	4411	06/02/2017	4316	33	95	321	77
Water-1000 gai	31878884	07/05/2017	8999	06/02/2017	8852	33	147	124	172
Water-1000 gal	60841042	07/05/2017	2902	06/02/2017	2851	33	51	44	67



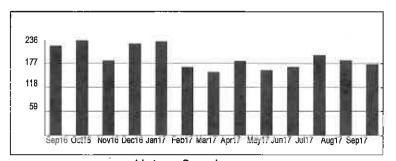
Water Service

# CITY OF LAKELAND DEPARTMENT OF ELECTRIC UTILITIES

Service Location: 1760 COUNTY LINE RD LAKELAND, FL 33811 US

SERVICE LOCATION DETAIL	W water	四字可能
Ite	mized Charges	Total Charges
Water Service	_	•
Water Commercial Inside Monthly Base Charge\$	148.30	
Water-1000 gal - 138 @ 2.26\$	311.88	
Water-1000 gal - 37 @ 2.26\$	83,62	
Inside the City Utility Tax\$	54.38	
Inside the City Utility Tax\$  Current Water Service Charges		598.18
Water Irrigation		
Irrigation Commercial Inside Monthly Base Charge.	74,15	
Water-1000 gal - 42 @ 2.42\$	101.64	
Water-1000 gal - 24 @ 3.02\$	72.48	
Inside the City Utility Tax\$	24.83	
Current Water Irrigation Charges		273.10
Other Services		
Solid Waste Commercial\$	17.05	
Wastewater Service\$	1,080.92	
Stormwater Service\$	2,294.74	
Fire Sprinkler Protection\$	308.40	
Other Services and Account Charges		3′,701.11

Service Reading	Meter Number	Current Read Date	Current Reading	Prior Read Date	Prior Reading	No. of Days	Billed Usage	Prior Month	Same Month Last Year
Water-1000 gal	30000102	09/05/2017	4579	08/03/2017	4513	33	66	102	80
Water-1000 gal	31878884	09/05/2017	9281	08/03/2017	9143	33	138	144	155
Water-1000 gal	60841042	09/05/2017	2980	08/03/2017	2943	33	37	41	65



Water Service

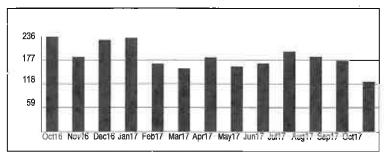
# CITY OF LAKELAND DEPARTMENT OF ELECTRIC UTILITIES

Service Location: 1760 COUNTY LINE RD LAKELAND, FL 33811 US

SERVICE	LOCATION	DETAIL

The state of the s		
Ite	nized Charges	Total Charges
Water Service	_	•
Water Commercial Inside Monthly Base Charge\$	155.72	
Water-1000 gal - 98 @ 2.34\$	229.32	
Water-1000 gal - 25 @ 2.34\$	58.50	
Inside the City Utility Tax\$	44.35	
Current Water Service Charges		487.89
Water Irrigation		
Irrigation Commercial Inside Monthly Base Charge.	77.86	
Water-1000 gal - 42 @ 2.5\$	105.00	
Water-1000 gal - 32 @ 3.13\$	100.16	
Inside the City Utility Tax\$		
Current Water Irrigation Charges		311.32
Other Services		011.02
Solid Waste Commercial\$	17.05	
Wastewater Service\$	891.48	
Stormwater Service\$	3.059.65	
Fire Sprinkler Protection\$	319.20	
Other Services and Account Charges		4.287.38
The state of the s		7,201.00

Service Reading	Meter Number	Current Read Date	Current Reading	Prior Read Date	Prior Reading	No. of Days	Billed Usage	Prior Month	Same Month Last Year
Water-1000 gal	30000102	10/04/2017	4653	09/05/2017	4579	29	74	66	83
Water-1000 gal	31878884	10/04/2017	9379	09/05/2017	9281	29	98	138	166
Water-1000 gal	60841042	10/04/2017	3005	09/05/2017	2980	29	25	37	68



Water Service

# CITY OF LAKELAND DEPARTMENT OF ELECTRIC UTILITIES

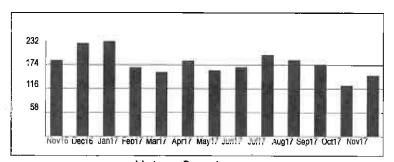
Service Location: 1760 COUNTY LINE RD LAKELAND, FL 33811 US Location No.: 2152438

Page 4 of 9

SERVICE	LOCATION	DETAIL

Ite	emized Charges	Total Charges
Water Service	vilai ges	.o.u. onerges
Water Commercial Inside Monthly Base Charge\$	155.72	
Water-1000 gal - 118 @ 2.34\$	276.12	
Water-1000 gal - 30 @ 2.34\$	70.20	
Inside the City Utility Tax\$	50.20	
Current Water Service Charges		552.24
Water Irrigation		
Irrigation Commercial Inside Monthly Base Charge\$	77.86	
Water-1000 gal - 42 @ 2.5\$	105.00	
Water-1000 gal - 26 @ 3.13\$	81.38	
Inside the City Utility Tax\$	26.42	
Current Water Irrigation Charges	000000	290.66
Other Services		
Solid Waste Commercial\$	17.05	
Wastewater Service\$	992.98	
Stormwater Service\$	3,059.65	
Fire Sprinkler Protection\$	319.20	
Other Services and Account Charges		4,388.88

Service Reading	Meter Number	Current Read Date	Current Reading	Prior Read Date	Prior Reading	No. of Days	Billed Usage	Prior Month	Same Month Last Year
Water-1000 gal	30000102	11/02/2017	4721	10/04/2017	4653	29	68	74	76
Water-1000 gal	31878884	11/02/2017	9497	10/04/2017	9379	29	118	98	131
Water-1000 gal	60841042	11/02/2017	3035	10/04/2017	3005	29	30	25	53



Water Service

# CITY OF LAKELAND DEPARTMENT OF ELECTRIC UTILITIES

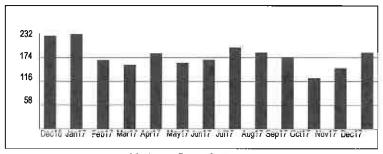
Service Location: 1760 COUNTY LINE RD LAKELAND, FL 33811 US

SERVICE	LUCATION	DETAIL

Ite	mized Charges	Total Charges
Water Service		-
Water Commercial Inside Monthly Base Charge\$	155.72	
Water-1000 gal - 146 @ 2.34\$	341.64	
Water-1000 gal - 39 @ 2.34\$	91.26	
Inside the City Utility Tax\$	58.86	
Current Water Service Charges	74 N	647.48
Water Irrigation		
Irrigation Commercial Inside Monthly Base Charge\$	77.86	
Water-1000 gal - 42 @ 2.5\$	105.00	
Water-1000 gal - 59 @ 3.13\$	184.67	
Water-1000 gal - 49 @ 4.07\$	199.43	
Inside the City Utility Tax\$	56.70	
Current Water Irrigation Charges		623.66
Other Services		
Solid Waste Commercial\$	17.05	
Wastewater Service\$	1,143.20	
Stormwater Service\$	3,059.65	
Fire Sprinkler Protection\$	319.20	
Other Services and Account Charges	**********	4,539.10

Service Reading	
Water-1000 gal	
Water-1000 gal	
Water-1000 gal	

Meter Number	Current Read Date	Current Reading	Prior Read Date	Prior Reading	No. of Days	Billed Usage	Prior Month	Same Month Last Year
30000102	12/04/2017	4871	11/02/2017	4721	32	150	68	135
31878884	12/04/2017	9643	11/02/2017	9497	32	146	118	155
60841042	12/04/2017	3074	11/02/2017	3035	32	39	30	71



Water Service



# City of Fall River, Massachusetts Community Utilities P.O. Box 844515

Boston, MA 02284 (508) 324-2330

# PUBLIC UTILITY **WATER & SEWER BILL**

**Customer Copy** Keep this portion for your records

Al	Custor MAZON.COM.DED			Service Address  1180 INNOVATION WY				
Bill Number				Account Number 02690	in the little	Duig Bate 12/11/2017		
Description	Present Read Date	Previous Read Date	Present Meter Reading	Previous Meter Réading	Read Type	Usage, CCF	Charge	
WATER CHAR SWR CHARGE BACK FLO 1 BASE FEE STORMWTR-C	10/20/2017 10/20/2017 10/20/2017 10/26/2017 10/26/2017	07/18/2017 07/18/2017 07/24/2017 07/24/2017	406	319	· A	87 87	257.52 463.71 150.00 150.00 29,178.57	
ast Payment Amt	Last Payment D 08/21/2017	ate Past Due	Amount Pas	t Due Interest	Current Charge 30,199,80		<u>novinte Dir</u> 30,199.80	

FALL RIVER COMMUNITY UTILITIES RATES, effective 7/1/2017

Water: \$2.96/CCF

Sewer. \$5,33/CCF

Base fee, quarterly, depends on meter size:

3/4": \$14 1": \$16 5/8" \$14 6": \$300 3": \$150 4": \$200

1.5": \$30 8": \$400

Stormwater (houses and apartments up to 8 units): \$43 per quarter All other: \$43 per quarter per 2,800 sq. ft. impervious area

Notes: On-line "bill pay" bank checks not accepted. Fees by credit card providers are charged to customer.

KEEP LEAD FREE -- RUN TAPS 15 SECONDS AT DAY'S FIRST USE.

1.0 CCF = 100 CU, FT. = 748 Gallons

#### **PAY BILL BY DUE DATE**

If paying by mail, avoid late fees by mailing early.

#### PAY ONLINE AT FALLRIVERMA.ORG

If you are mailing payment only, mail to: Collector's Office, Fall River PO. Box 844515 Boston, MA 02284

For payment in person:

Collector's Office One Government Center, 2nd Floor Fall River, MA 02722-3002

Payments Hours: 9:00AM to 5:00PM Monday through Friday

Office hours for billing inquiries: 8:00AM to 5:00PM Monday through Friday

Non-receipt of bill not deemed excuse for non-payment. Property owner will be charged for frozen/missing meter.

Detach and return the portion below with your payment

2": \$50

10": \$500



#### City of Fall River, Massachusetts Community Utilities P.O. Box 844515 Boston, MA 02284 (508) 324-2330

Bill Date : Account Number Past Due Bill Number. 208444 10/31/2017

PAY BILL BY DUE DATE Please note address corrections below:

Current Charges:

.00	00	30,199.80
	Date Due	Amount Due
	12/11/2017	\$30,199.80
	BUBL	IC LITH ITV
	PUBL	.16 UTILIT

... Past Due interest

**WATER & SEWER BILL** Include this portion with payment Make checks payable to: City of Fall River

AMAZON.COM.DEDC LLC (BOS7) AP NON INVENTORY P.O. BOX 80683 SEATTLE WA 98018

0208604201800002084440000030199806



# City of Fall River, Massachusetts Community Utilities P.O. Box 844515 Boston, MA 02284 (508) 324-2330

**PUBLIC UTILITY WATER & SEWER BILL** 

**Customer Copy** 

Keep this portion for your records

Customer AMAZON.COM.DEDC LLC (BOS7)				Service Address 1180 INNOVATION WY				
Bill Number 224765		Bill Date 01/26/2018		Account Number 02690	er :		Date 7/2018	
Description	Present Read Date	Previous Read Date	Present Meter Reading	Previous Meter Reading	Read Type	Usage, CCF	Charge	
WATER CHAR SWR CHARGE BASE FEE STORMWTR-C	01/24/2018 01/24/2018 01/26/2018 01/26/2018	10/20/2017 10/20/2017 10/26/2017 10/26/2017	482	406	A	. 76 . 76	224.96 405.08 150.00 29,178.57	
st Payment Amt 30,199.80	Last Bayment D 12/04/2017	ate. Past Due.	Amount -: Pasi	Due Interest	Current Charge 29,958.61		ount Due 9,958.61	

#### **PAY BILL BY DUE DATE**

If paying by mail, avoid late fees by mailing early.

#### FALL RIVER COMMUNITY UTILITIES RATES, effective 7/1/2017 Water: \$2.96/CCF Sewer: \$5.33/CCF

<u>Base fee, quarterly,</u> depends on meter size: 5/8" \$14 3/4": \$14 1": \$16

3": \$150 4": \$200

6": \$300

8": \$400

1.5": \$30

2": \$50

10": \$500

Stormwater (houses and apartments up to 8 units): \$43 per quarter All other: \$43 per quarter per 2,800 sq. ft. impervious area

Notes: On-line "bill pay" bank checks not accepted. Fees by credit card providers are charged to customer.

#### KEEP LEAD FREE -- RUN TAPS 15 SECONDS AT DAY'S FIRST USE.

1.0 CCF = 100 CU. FT. = 748 Gallons

#### PAY ONLINE AT FALLRIVERMA.ORG

If you are mailing payment only, mail to: Collector's Office, Fall River PO. Box 844515 Boston, MA 02284

For payment in person: Collector's Office One Government Center, 2nd Floor Fall River, MA 02722-3002 Payments Hours: 9:00AM to 5:00PM Monday through Friday Office hours for billing inquiries: 8:00AM to 5:00PM Monday through Friday

Non-receipt of bill not deemed excuse for non-payment. Property owner will be charged for frozen/missing meter.

Detach and return the portion below with your payment



224765

# City of Fall River, Massachusetts Community Utilities P.O. Box 844515 Boston, MA 02284

(508) 324-2330 Past Due Account Number 02690

PAY BILL BY DUE DATE Please note address corrections below:

.00	.00	29.958.61
	Date Due	Amount Due
	03/07/2018	\$29,958.61
-		IC LITH ITV

Past Due Interest . Current Charges

**PUBLIC UTILITY WATER & SEWER BILL** Include this portion with payment

Make checks payable to: City of Fall River

AMAZON.COM.DEDC LLC (BOS7) AP NON INVENTORY P.O. BOX 80683 SEATTLE WA 98018

B.I. Date

01/26/2018

02086042018000224765800029958618



APPENDIX 4 = COST ESTIMATE



#### McFARLAND-JOHNSON, INC.

60 RAILROAD PLACE SARATOGA SPRINGS, NY 12866 PHONE (518) 580-9380 FAX (518) 580-9383

www.mjinc.com

# ENGINEER'S OPINION OF PROBABLE COSTS

Project:

Scannell Properties, Schodack, New York Consolidated Water District 101 Extension #6

July 5, 2018

Bid Item	Description Of Item	Unit	Quantity	Unit Price	Engineer's Estimate
01	12" PVC WATER PIPE	LF	2250	\$116	\$261,000.00
02	PIPE BENDS	LB	2200	\$12	\$26,400.00
03	WATER VALVES	EA	4	\$2,500.00	\$10,000.00
04	WATER HYDRANTS	EA	6	\$5,000.00	\$30,000.00
05	BORE UNDER RT 9 & 20	LF	150	\$300.00	\$45,000.00
					·
	TOTAL (Construction)				\$372,400.00
	15% Contingency Grand Total (Construction)				\$55,860.00
	Grand Total (Collistraction)	L			\$428,260.00

Additional Costs	Unit	Quantity	Unit Price	Engineer's Estimate
		-		

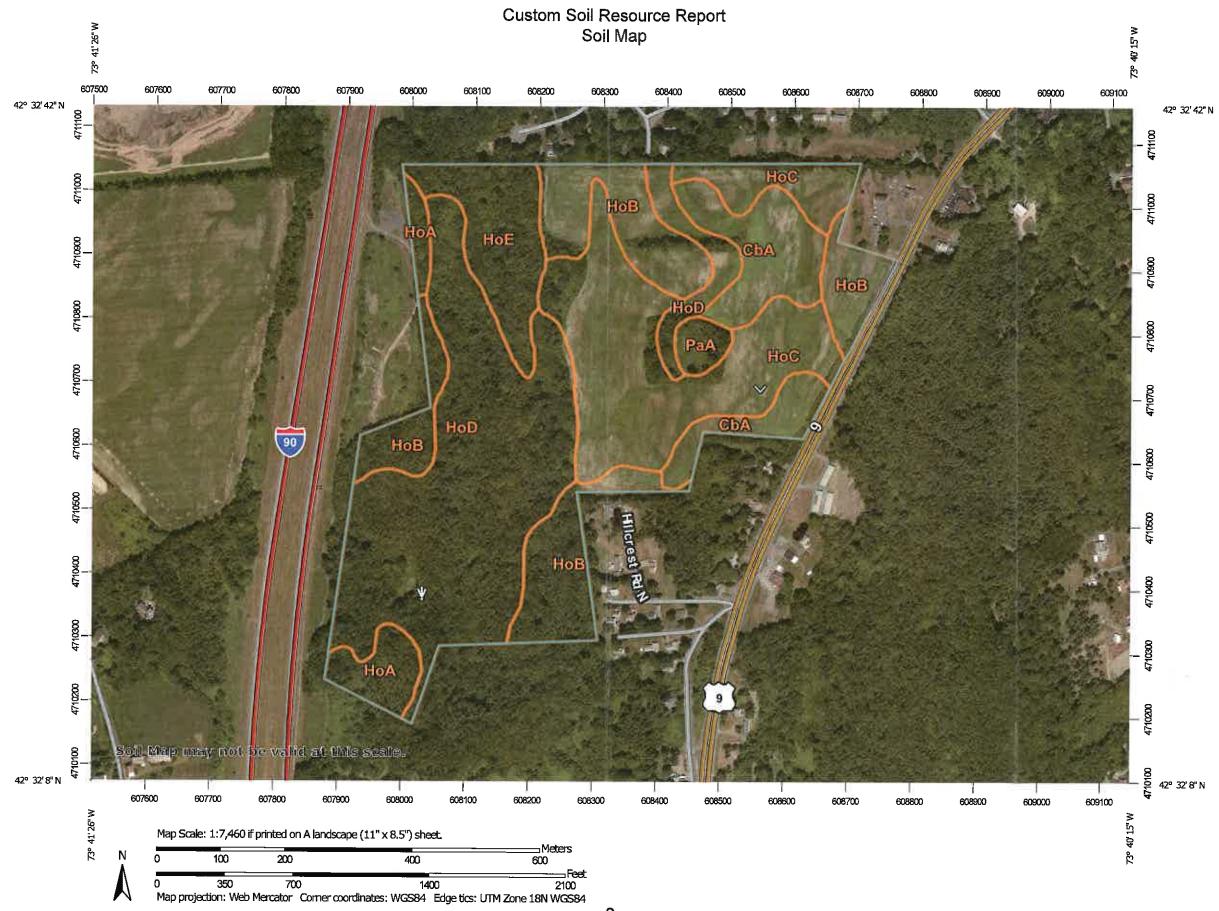
TOTAL PROJECT COST

\$429,000.00



APPENDIX 5 – NRCS SOILS REPORT





#### Custom Soil Resource Report

# Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
CbA	Castile gravelly silt loam, 0 to 5 percent slopes	10.9	9.8%
НоА	Hoosic gravelly sandy loam, 0 to 3 percent slopes	4.4	3.9%
НоВ	Hoosic gravelly sandy loam, 3 to 8 percent slopes	20.8	18.8%
HoC	Hoosic gravelly sandy loam, rolling	25.8	23.3%
HoD	Hoosic gravelly sandy loam, hilly	38.8	35.0%
HoE	Hoosic gravelly sandy loam, steep	8,5	7.7%
PaA	Natchaug muck, 0 to 2 percent slopes	1.6	1.4%
Totals for Area of Interest		110,7	100.0%

# **Map Unit Descriptions**

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

Most minor soils have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Other minor components, however, have properties and behavioral characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit

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## Custom Soil Resource Report

# Table—Hydrologic Soil Group

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
CbA	Castile gravelly silt loam, 0 to 5 percent slopes	A/D	10.9	9.8%
НоА	Hoosic gravelly sandy loam, 0 to 3 percent slopes	Α	4.4	3.9%
HoB	Hoosic gravelly sandy loam, 3 to 8 percent slopes	A	20.8	18.8%
HoC	Hoosic gravelly sandy loam, rolling	А	25.8	23.3%
HoD	Hoosic gravelly sandy loam, hilly	A	38.8	35.0%
HoE	Hoosic gravelly sandy loam, steep	А	8.5	7.7%
PaA	Natchaug muck, 0 to 2 percent slopes	B/D	1.6	1.4%
Totals for Area of Interest			110.7	100.0%

# Rating Options—Hydrologic Soil Group

Aggregation Method: Dominant Condition
Component Percent Cutoff: None Specified

Tie-break Rule: Higher

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