

Map, Plan and Report

Sewer District 6 Extension #7

Town of Schodack, New York

CHA Project Number: 61247

Prepared for:

*Stewart's Shops
PO Box 435
Saratoga Springs, NY 12866*

Prepared by:



*3 Winners Circle
Albany, NY 12205
(518) 453-4500*



June 2020

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1.0 INTRODUCTION

1.1 BACKGROUND

The Town of Schodack (Schodack) is located in southwest Rensselaer County, New York, approximately seven miles southeast of Albany. Stewart's Shops has proposed to redevelop an existing service station into a new convenience store at 1811 Columbia Turnpike. As there are no available sewer mains that serve this property, an extension of the Schodack sewer collection system would be required to connect to municipal sewer.

Schodack Sewer District 6 ends just north of the proposed Stewart's Shop convenience store; this project will therefore require an extension of the existing Sewer District 6 (Extension #7). The sewer district would be extended to the southern edge of the property at 1811 Columbia Turnpike. A site location map of the area is shown on the following page.

1.2 PURPOSE AND SCOPE

Stewart's Shops has retained CHA Consulting Inc. (CHA) to prepare a Map, Plan and Report (MPR) for Extension #7 of Schodack Sewer District 6. This report documents the sewer system extension to the proposed Stewart's Shop convenience store and includes the following:

- Description of sewer district extension boundary;
- General plan for the required sewer infrastructure;
- Estimated construction, operational, and maintenance costs; and
- Implementation Plan.



Figure 1 – Site Location Map (Not to Scale)

2.0 EXISTING FACILITIES

The property at 1811 Columbia Turnpike is currently a Sonoco fuel and convenience store. Wastewater generated at the property is disposed of through an existing onsite septic system. The property immediately to the north is the Town of Schodack police station. There is an existing 8-inch diameter gravity sewer located on the east side of Columbia Turnpike which terminates at a manhole approximately on the property line between the two parcels.

The 8-inch gravity sewer discharges into an existing pump station located on the north side of the intersection of E. Schodack Road (Route 150) and Columbia Turnpike. The pump station is approximately 1,370 feet north on Columbia Turnpike of the proposed Stewart's Shop convenience store.

Sewer effluent from the pump station is conveyed through Schodack's and East Greenbush's existing sewer conveyance systems and is treated at the East Greenbush WWTP. The WWTP is an approved treatment facility permitted by the New York State Department of Environmental Conservation (NYSDEC). It has a permitted capacity of 2.5 million gallons per day (MGD).

Schodack discharges wastewater to East Greenbush subject to a 2004 inter-municipal agreement (IMA) between the two communities. The IMA states that Schodack can discharge up to 45,000 gallons per day (GPD). Currently, the Schodack discharges approximately 27,000 GPD to East Greenbush. The recorded IMA is included in Appendix A.

3.0 PROPOSED SEWER DISTRICT EXTENSION

3.1 DISTRICT EXTENSION BOUNDARY

The proposed sewer district extension will connect to Schodack's sewer system at the manhole in front of the Schodack Police Department. A boundary map of the proposed Extension #7 of Sewer District 6 is included in Appendix B. This map shows the area to be served by the proposed sewer district extension and the proposed parcel to be served by public sewer. Appendix C contains a description of the proposed district extension boundary.

3.2 PROPOSED SEWER DISTRICT FLOWS

The proposed Stewart's Shop convenience store is estimated to generate 900 gallons per day (gpd) on average, with a maximum anticipated flow of 1,800 gpd. The Stewart's Shop is the only parcel included in the sewer district extension. The flow rate calculation is provided in Appendix D.

Commercial and industrial properties are assessed a number of equivalent dwelling units (EDUs) for billing. One EDU is quantified in Schodack as 72,000 gallons per year. Therefore, the proposed

Stewart's Shop, which would generate 328,500 gallons per year, would be assessed 4.5 EDUs (rounded to 5), plus another EDU base rate, for a total of 6 EDUs.

The proposed increase of 900 GPD from the extended district will not encroach on the IMA discharge limitation, nor does it warrant any adjustments to the current pump station's configuration; however, as part of a separate development project, this pump station may be upgraded in the future.

3.3 REQUIRED SEWER SYSTEM FACILITIES

The proposed sewer district extension will include approximately 550 linear feet of 8-inch SDR26 PVC gravity sewer main, extending south from the existing manhole on Columbia Turnpike. The new sewer main will be installed within the public right of way. Two new precast concrete manholes will be installed; one in front of the Stewart's Shop store, and a second at the southern boundary of the parcel, which will form the new southern terminus of Sewer District 6 and provide a connection point for future extensions.

The Stewart's Shop store will connect to the new manhole via a 6-inch PVC sewer lateral. A plan of the proposed sewer infrastructure is included as Appendix E.

4.0 DISTRICT EXTENSION FORMATION COSTS

4.1 CONSTRUCTION COSTS

The estimated construction cost for the costs related to the extension of Sewer District 6 is approximately \$113,000. This amount is proposed to be privately paid by Stewart's Shops. A copy of the cost estimate is included as Appendix F.

4.2 OPERATION AND MAINTENANCE COSTS

Operation and maintenance costs are based on the day-to-day work involved to provide sewer service to users within the proposed extension. Based on typical industry standards, operation and maintenance costs are estimated at \$7.50 per 1,000 gallons of sanitary sewer effluent (assessed by Schodack), plus an initial connection fee of \$11,250 (assessed by East Greenbush).

5.0 IMPLEMENTATION PLAN

5.1 COST APPORTIONMENT

There will be no cost apportionment for the debt service based on the EDU system for this extension.

5.2 CONSTRUCTION FINANCING

No public construction financing is needed for this extension, as the proposed sewer system will be constructed utilizing private funds provided by Stewart’s Shops Convenience Stores.

5.3 OPERATION AND MAINTENANCE COST APPORTIONMENT

The cost of operation and maintenance would include the costs to operate, maintain, and supply the sewer system. Based on an estimated annual usage of 328,500 gallons per year, and an existing operation and maintenance rate of \$7.50 per 1,000 gallons (based on a review of current rate structures), the convenience store/gas station property yearly amount would be \$2,464 per year.

5.5 IMPLEMENTATION SCHEDULE

The public hearing for this project has not been scheduled yet. It is anticipated that if the project is approved, construction of this project will begin in the Spring of 2020 with completion in the Fall of 2020. A project schedule as it pertains to the sewer work is included in Table 1.

Table 1: Preliminary Project Schedule

Task	Anticipated Date
Finalize Map, Plan and Report	April 2020
Sewer District Extension Formation and Public Hearing	April 2020 – June 2020
Submit Design to Town/NYSDEC for Review	March 2020
Construction	April 2020– November 2020

APPENDIX A:
Town of East Greenbush – Town of Schodack
Inter-Municipal Agreement

INTERMUNICIPAL SEWER AGREEMENT

This Agreement is made as of the 27th day of May, 2004, by and between the TOWN OF EAST GREENBUSH, Rensselaer County, New York ("East Greenbush"), acting through its elected Town Board, and the TOWN OF SCHODACK, Rensselaer County, New York ("Schodack"), acting through its elected Town Board.

WHEREAS, East Greenbush owns and operates a wastewater treatment facility and collection lines (collectively, the "Facility"); and

WHEREAS, Schodack established Town of Schodack Sewer District No. 6 (the "District") and wishes to arrange for treatment by the Facility of wastewater generated by the District; and

WHEREAS, Schodack and East Greenbush entered into an agreement, dated as of July 24, 1998 (the "1998 Agreement"), for the provision of such services, and

WHEREAS, Schodack and East Greenbush wish to make certain revisions to the 1998 Agreement, and wish to enter into this superseding Agreement.

NOW, THEREFORE, the parties hereby agree as follows:

I. East Greenbush agrees to accept and treat at its Facility wastewater from the District as it currently exists, and as it may be expanded in the future, under the terms and conditions set

Handwritten notes:
27th day of May 2004
[unclear]

forth in this Agreement; subject to the approval of any expansion, as applicable, by the New York State Department of Environmental Conservation.

II. East Greenbush agrees to accept and treat up to an average of forty-five thousand (45,000) gallons of wastewater per day (as measured on a rolling twelve (12) month basis) from properties that are or in the future may be located in the District.

III. Schodack agrees that it will require dischargers within the District to be bound by applicable sewer usage rules and regulations of East Greenbush and any subsequent amendments to those regulations, provided that East Greenbush transmits a copy of such amendments to Schodack. Specifically, the discharge of any industrial waste must be approved in advance by East Greenbush and will be subject to any and all industrial wastewater treatment regulations adopted by East Greenbush. East Greenbush reserves the right to sample wastewater to verify that unauthorized types of wastewater are not being discharged to the system. In the event that Schodack allows the discharge of any prohibited waste or waste in excess of permitted levels into the Facility which causes East Greenbush to be fined or penalized by the New York State or Rensselaer County Health Departments, the New York State Department of Environmental Conservation or any other regulatory entity, Schodack hereby agrees to hold harmless and indemnify East Greenbush for the costs of any and all fines and sanctions. The foregoing shall not in any way limit any rights that Schodack may have, in turn, to impose applicable fines, penalties or other charges upon any discharger within the District responsible for the prohibited discharge.

IV. Schodack agrees to install and maintain at its own expense and/or the expense of the respective users within the District all of the necessary lines and appurtenances to make sewer service available within the District. East Greenbush shall not be responsible for any installation or maintenance expenses related to sewer lines and appurtenances within the District.

V. The connection to the East Greenbush sewer main shall be at the Horizon View Drive sewer main. Schodack shall install and maintain a master sewage meter and meter pit as required by East Greenbush. Any construction or maintenance work that violates the integrity of the aforesaid main must be performed under the supervision of representatives of East Greenbush. The costs of installing and maintaining the meter and meter pit. shall be borne by Schodack

VI. Schodack shall not cause its wastewater collection system to be installed unless the installation is conducted under the supervision and approval of a New York State licensed professional engineer. Such system shall not be installed by Schodack without prior notice to East Greenbush.

VII. The parties recognize that East Greenbush currently imposes upon new users of its system a one-time hookup fee of five thousand dollars (\$5,000) per unit (a unit being the equivalent in flow of a single family residence, which is four hundred (400) gallons per day). A similar fee shall be charged to new users in Schodack, in the following manner. Residential hookups shall be charged a fee of five thousand dollars (\$5,000) per unit. Commercial hookups shall be charged a fee that is based upon one hundred percent (100%) of the average metered water usage (for existing users) or sixty percent (60%) of the anticipated water usage (for new or expanding business), divided

by four hundred (400) gallons per day, and multiplied by five thousand dollars (\$5,000). Anticipated water usage shall be determined by use of water consumption calculations for various types of uses as utilized by the New York State Department of Environmental Conservation. From the effective date of this Agreement going forward, Schodack shall collect such fee from new users at the time that such users connect to the collection system(s) served by East Greenbush's wastewater treatment facility and shall remit such fees to East Greenbush on a quarterly basis, together with an itemization of such new connections during that quarter. With respect to any user who connected to the collection system(s) served by East Greenbush's wastewater treatment facility prior to the effective date of this Agreement, Schodack shall, within sixty (60) days of the effective date of this Agreement provide East Greenbush with a list of such connections, information on usage and (using the formula set forth above) a calculation of hookup fees owed. Upon East Greenbush's approval of such calculations, Schodack shall collect and transmit such fees to East Greenbush within sixty (60) days. East Greenbush reserves the right in the future to alter the amount of such fee, but agrees that it shall not impose a fee on Schodack users that is different than the fee imposed on similar East Greenbush users. Schodack reserves the right to impose additional hookup fees on users within the District if it deems such to be appropriate.

VIII. Upon connection of any discharger to the District's system, Schodack shall provide written notification to East Greenbush. Schodack shall also provide notice to East Greenbush of any expansion of the District.

IX. The term of this Agreement shall be ten (10) years, with an option that may be exercised by Schodack to renew the Agreement an additional ten (10) years. Such option shall be exercised by Schodack to renew the Agreement an additional ten (10) years.

exercised by written notice by Schodack to the Supervisor of East Greenbush no less than six (6) months prior to the expiration of the initial ten (10) year term of this Agreement. The Agreement may thereafter be renewed by the parties on such terms as the parties may agree.

by Oct 2012

X. During the first year after the effective date of this Agreement, Schodack agrees to pay to East Greenbush the sum of one dollar and eight-five cents (\$1.85) per thousand gallons (the "Base Price"), plus a Capacity Usage Surcharge of one dollar and eighty-six cents (\$1.86) per thousand gallons (the "Capacity Usage Surcharge"), as said gallons are measured by the master sewage meter or as otherwise agreed upon by East Greenbush.

XI. East Greenbush will bill Schodack twice per year, in May for the preceding November through April and in November for the preceding May through October. Payment shall be due within thirty (30) days after receipt of the bill. If Schodack does not pay any bill by the thirtieth (30th) day (the "due date"), Schodack shall pay to East Greenbush a late charge. Said late charge shall be computed at an annual rate of the current prime rate plus one percent (1%) for the first forty-five (45) days after the due date and two percent (2%) over prime for each day that a payment is late beyond forty-five (45) days from the due date. The prime rate shall further be the prime rate in effect as of the date of the billings and as it is established or charged from time to time by Citibank (N.Y.S.) N.A.

XII. After the first year of service under this Agreement, and at one (1) year intervals thereafter, the price for sewer services provided hereunder may be revised by East Greenbush. Any increase in the Base Price of sewer usage charge shall be in an amount that is identical to the increase

for similar types of sewer users in East Greenbush. The Capacity Usage Surcharge, however, shall remain fixed at one dollar and eighty-six cents (\$1.86) for the term of this Agreement (and any extension thereof by exercise of Schodack's option to renew).

XIII. Schodack shall be responsible for the annual calibration of the master sewage meter by a qualified third party, submission of results to East Greenbush, and the furnishing and installing of a temporary meter during any such calibration. Annual calibration costs shall be the responsibility of Schodack. East Greenbush may, at its sole discretion and cost, obtain a calibration of the meter at any other time. If the sewage meter malfunctions, Schodack shall pay East Greenbush based on the average sewer use by Schodack for the prior six months. East Greenbush reserves the right to repair the sewer meter and bill Schodack for the cost of the repairs in the event Schodack fails to timely and reasonably make the necessary repairs.

XIV. This Agreement replaces and supersedes the 1998 Agreement, and such 1998 Agreement is hereby no longer in effect.

XV. This Agreement represents the entire agreement between the parties and may only be changed or modified by a writing executed by the parties.

IN WITNESS WHEREOF, the parties have executed this instrument by their Supervisors and caused their official seals to be affixed pursuant to resolutions adopted by their Town Boards, copies which are annexed hereto.

TOWN OF EAST GREENBUSH

By: *Robert Angelini*
Robert Angelini
Supervisor

ATTEST:

Susan Whipple
Town Clerk

Approved as to Form and Sufficiency

Rob Luterin
Town Attorney

TOWN OF SCHODACK

By: *Beth K. Secor*
Beth K. Secor
Supervisor

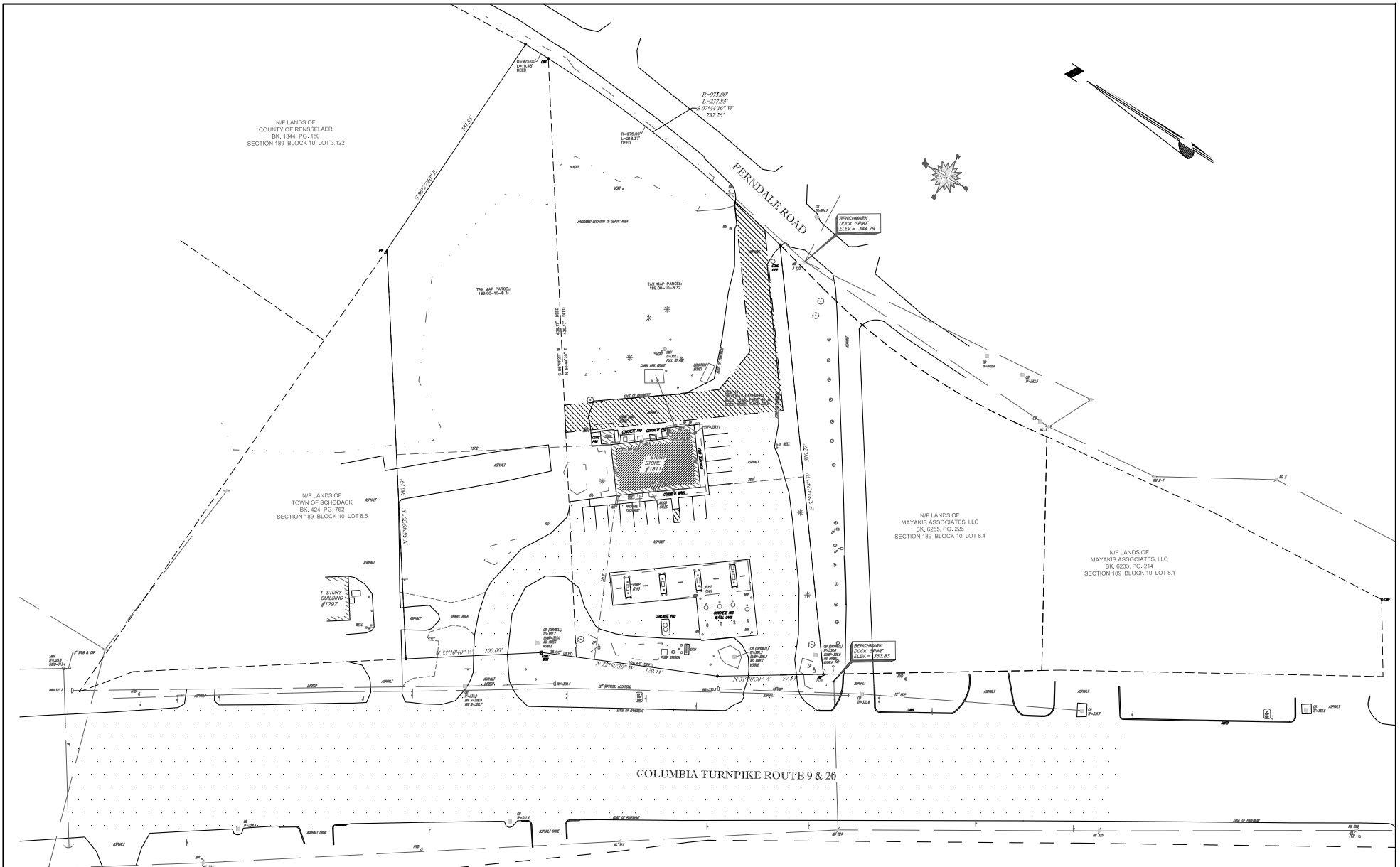
ATTEST:

Karen A. Vecchione
Town Clerk, Deputy

Approved as to Form and Sufficiency

Phil A. Dixon
Attorney for the Town

APPENDIX B:
Boundary Map



Drawing Copyright © 2020



111 Winners Circle, PO Box 5269
Albany, NY 12205-0269
518.453.4500 · www.chacompanies.com

SEWER DISTRICT 6 EXTENSION TOWN OF SCHODACK, NEW YORK STEWART'S SHOPS

BOUNDARY MAP

PROJECT NO.
61247

DATE: 03/2020

FIGURE 3-1

APPENDIX C:
Boundary Description

**BOUNDARY DESCRIPTION OF THE PROPOSED
TOWN OF SCHODACK SANITARY SEWER DISTRICT #6 EXTENSION #7**

From a survey conducted by ALTA/NSPS at 1811 Columbia Turnpike in the Town of Schodack in Rensselaer County, NY, the property boundaries were described as such:

Beginning at an iron rod located along the easterly line of Route 9 and 20, also known as the Columbia Turnpike, said point being the intersection formed by said easterly line of Columbia Turnpike and lands now or formerly owned by Mayakis Associates LLC on the south, and the lands now or formerly of Stewart's Shops Corp. on the North;

Thence from said point of beginning and along the aforesaid Columbia Turnpike, the following three courses: 1) North 31°30'30" West, 77.53 feet to a point; 2) North 22°50'30" West, 129.44 feet to a point and 3) North 33°10'40" West, 100.00 feet to a point;

Thence along the lands now or formerly of the Town of Schodack and Continuing along the lands now or formerly of Rensselaer County, the following two courses: 1) North 56°49'20" East, 300.19 feet to a point and 2) South 86°27'40" East, 181.55 feet to a point;

Thence along the westerly line of Ferndale Road, along a curve to the right having a radius of 975.00 feet, an arc length of 237.85 feet and bearing a chord of South 07°44'16" West, 237.26 feet to a point; Thence along the first mentioned division line, South 53°44'24" West, 316.27 feet to the point or place of beginning.

APPENDIX D:
Sewer Loading Calculations

Completed By: ETH



Job No 61247

Checked By Stewart's Shop

Page 1 of 1

Project Name: Columbia Turpike

Date: Apr-20

Subject: Sewer District #6 Extension #6 Discharge Calculations

Objective: Determine the average daily and maximum day demands for the proposed extension of Sewer District #6 for the Town of Schodack

- Given:
1. For commercial properties, each property is assigned 1 EDU plus additional EDU's for every 72,000 gallons, or portion thereof.
 2. The proposed sewer district will have approximately 6 EDUs

Calculation:

Standard sewer flows from similar Stewart Shops has been in the range of 800 - 900 GPD, according to metering records of similar stores.

According to NYS Design Standards for Intermediate Sized Wastewater Treatment Systems (2014 Edition), gas station/convenience store is rated at 400 GPD per toilet. There are two toilets, putting the flow rate at 800 GPD.

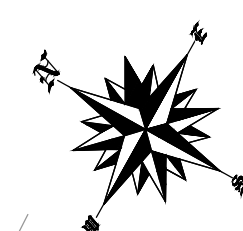
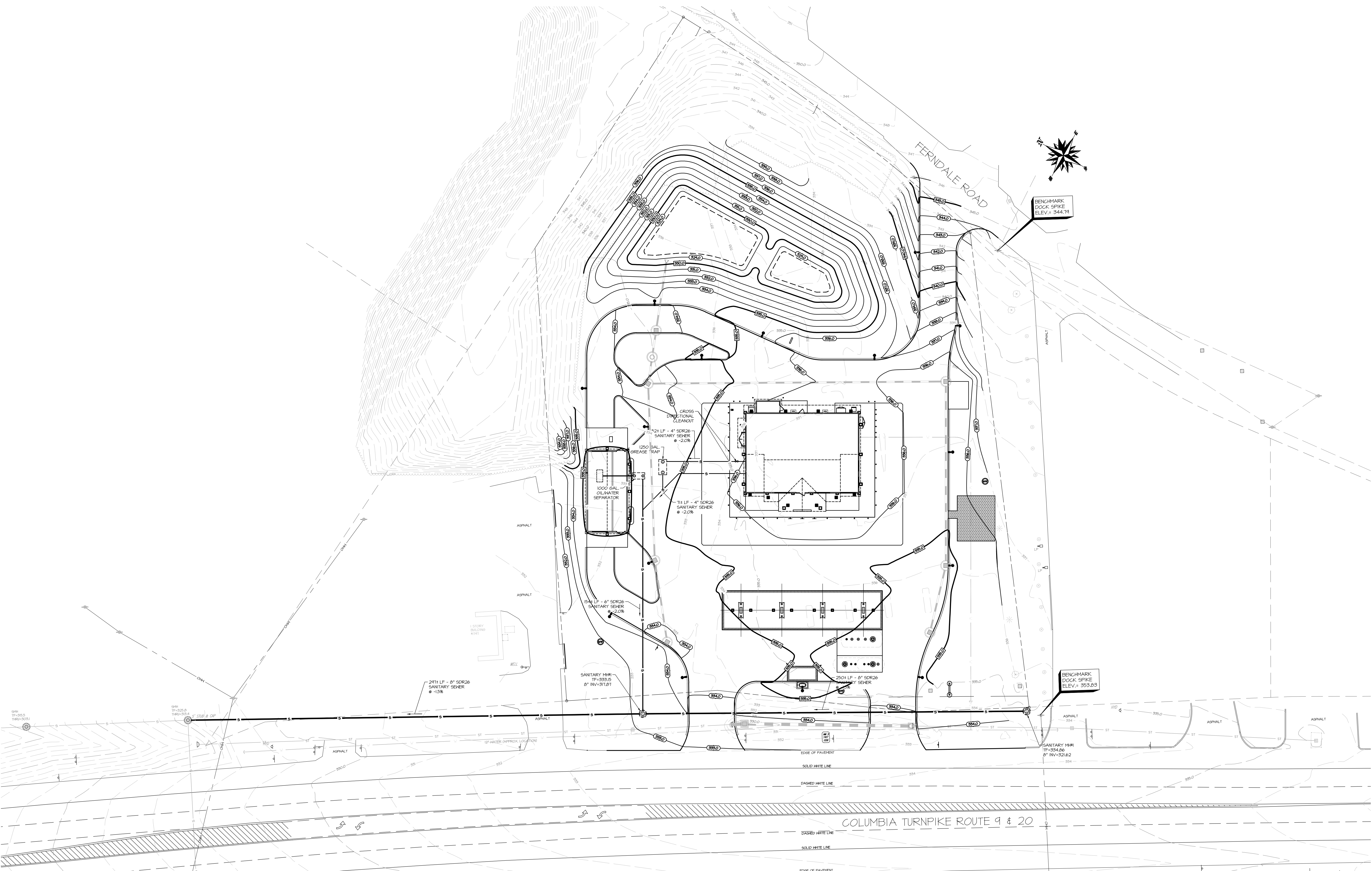
To be conservative, we will assume 900 GPD, according to similar stores metering records.

Gallons per Year = $900 \text{ GPD} \times 365 = 328,500$ gallons per year

EDUs = $328,500 \text{ GPY} / 72,000 \text{ GPY} = 4.56$ EDUs or 5 EDUs

Total EDUs = 1 EDU assigned + 5 EDUs = **6 EDUs total**

APPENDIX E:
Proposed Design Drawings



BENCHMARK
DOCK SPIKE
ELEV. = 344.19

BENCHMARK
DOCK SPIKE
ELEV. = 353.23

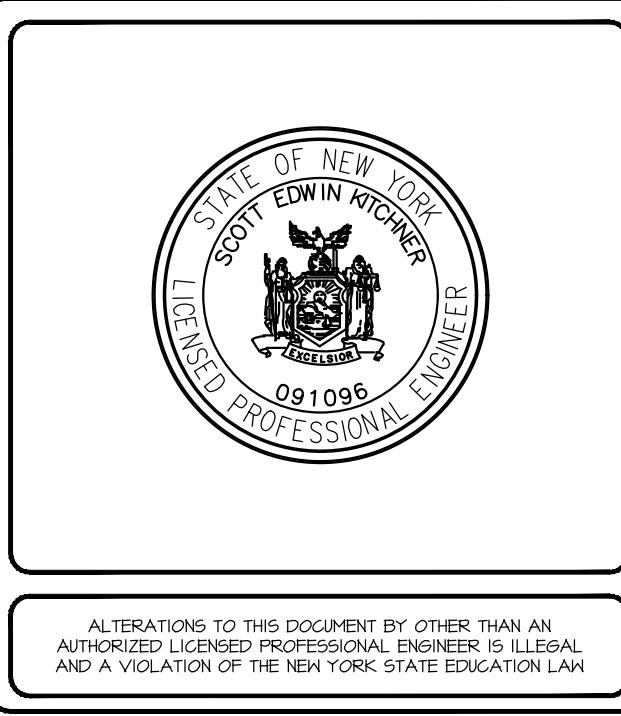
- GENERAL NOTES:**
- ACCESS TO THE RESIDENTIAL DRIVEWAYS LOCATED WITHIN THE PROPOSED WORK AREA SHALL NOT BE CLOSED DURING CONSTRUCTION.
 - WALKING OR BICYCLE ACCESS SHALL NOT BE CLOSED DURING CONSTRUCTION. MATERIAL, EQUIPMENT OR OTHER SUCH BARRIERS SHALL NOT BE PLACED OR PARKED SO AS TO OBSTRUCT PEDESTRIAN/BICYCLE TRAFFIC OR PRESENT A SAFETY HAZARD TO NON-MOTORIZED PUBLIC. IF PEDESTRIAN TRAFFIC MUST BE RELOCATED OR REROUTED OFF EXISTING FACILITY, WALKWAYS SHALL BE CLEARLY MARKED AND HAVE A LOGICAL START AND TERMINUS. ALL WALK SURFACES AND GRADES SHALL BE IN COMPLIANCE WITH THE AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES (ADAG).
 - ANY VEGETATION, INCLUDING LAWN TURF, WITHIN THE RIGHT-OF-WAY THAT IS REMOVED OR DAMAGED TO FACILITATE THIS WORK MUST BE REPLACED IN KIND.
 - CONSTRUCTION OF THIS SEWER LINE SHALL NOT INTERFERE WITH ANY OVERHEAD UTILITY LINES AND POLES.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL EXISTING UTILITIES, KNOWN OR UNKNOWN, WITHIN THE PROJECT AREA.

- EXCAVATION, TRENCHING, SHEETING AND SHORING REQUIREMENTS:**
- A. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ADEQUACY OF ALL SHEETING AND SHORING USED AND FOR ALL DAMAGE RESULTING FROM ITS FAILURE OR FROM PLACING, MAINTAINING AND REMOVING IT.
- B. REQUIREMENTS OF REGULATORY AGENCIES:
- SUBPART 23-4, "EXCAVATION OPERATIONS", OF NEW YORK STATE DEPARTMENT OF LABOR INDUSTRIAL CODE RULE 23.
 - SUBPART P, "EXCAVATIONS" OF UNITED STATES DEPARTMENT OF LABOR OSHA REGULATIONS FOR CONSTRUCTION.
 - THE MORE STRINGENT REQUIREMENT IN EACH OF THE ABOVE CODES SHALL APPLY. THESE REQUIREMENTS ARE MINIMUM REQUIREMENTS AND SHALL BE INCREASED IF NECESSARY TO PROVIDE SAFE WORKING CONDITIONS.
 - ALL MUNICIPAL, COUNTY, STATE, OR FEDERAL ORDINANCES, REGULATIONS, OR LAWS AND ALL NECESSARY PERMITS AND APPROVALS OBTAINED BY THE CONTRACTOR SHALL BE OBSERVED.

NOTES:

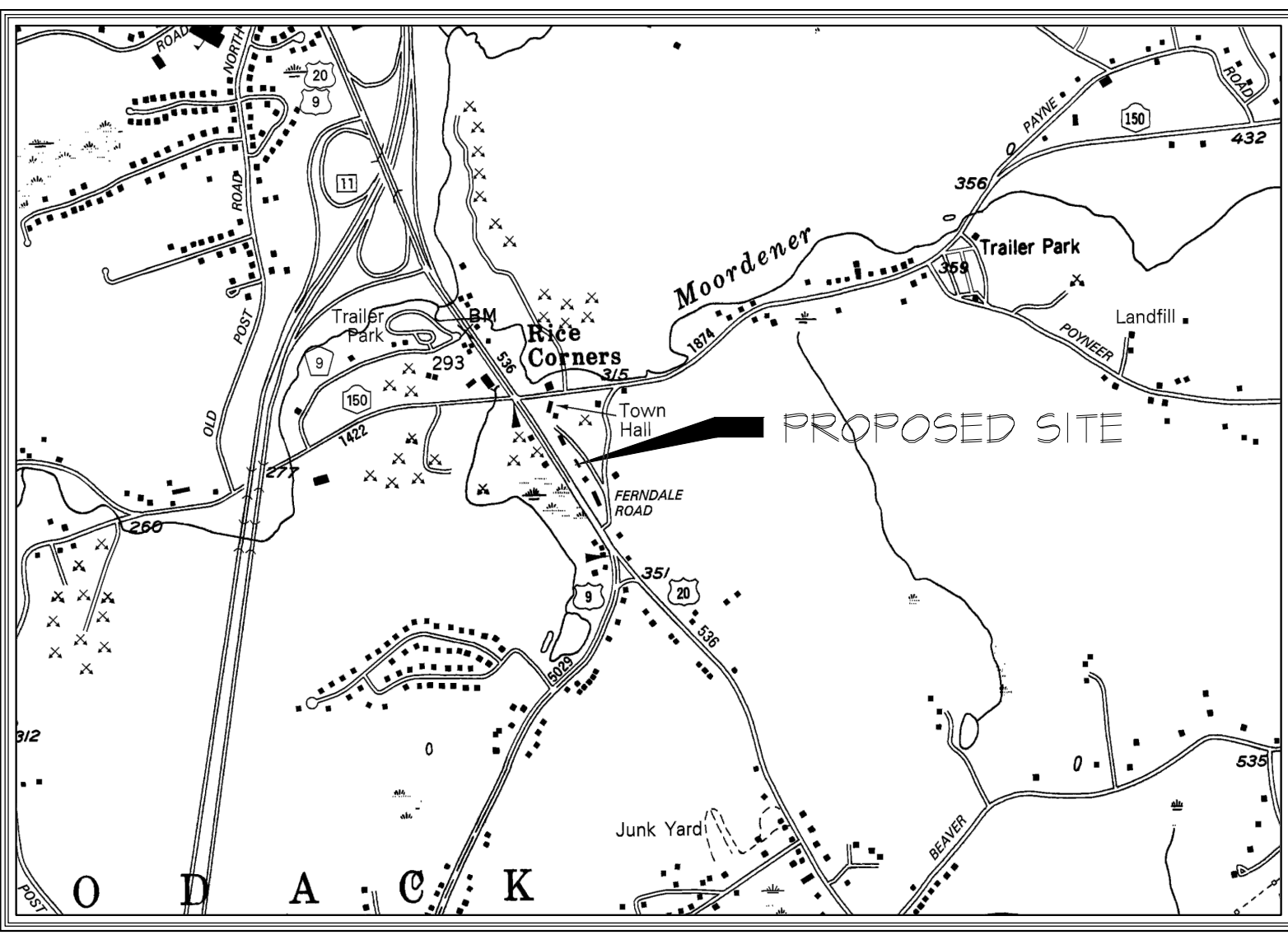
1) EXISTING CONCRETE SURVEY MONUMENTS SHALL NOT BE INTENTIONALLY DISTURBED. SHOULD AN EXISTING MONUMENT BE ACCIDENTALLY DISTURBED, IT SHALL BE REPLACED IN-KIND BY A NY'S LICENSED SURVEYOR.

RENSSELAER COUNTY DEPARTMENT OF HEALTH



STORE NAME, ABBREVIATION & NO.		COLUMBIA TURNPIKE - CTKV - 154	
SITE LOCATION		1811 COLUMBIA TURNPIKE - SCHODACK, NY 12033	
DATE	NO.	REVISIONS	
DRAWN BY: SEK		SCALE: 1" = 30'	
DATE: 2/24/2020		DRAWING NO. 9-7	
SARATOGA SPRINGS, NY 12066		TEL. (518)581-1200 FAX (518)581-1204	
TITLE: PROPOSED SANITARY SEWER PLAN			

ALTERATIONS TO THIS DOCUMENT BY OTHER THAN AN AUTHORIZED LICENSED PROFESSIONAL ENGINEER IS ILLEGAL AND A VIOLATION OF THE NEW YORK STATE EDUCATION LAW



SITE LOCATION MAP
SCALE: N.T.S.

TOWN OF SCHODACK - (HC) HIGHWAY COMMERCIAL
RENSSELAER COUNTY PARCEL# 189.00-10-8.31 & 189.00-10-8.32

	REQUIRED/ALLOWED	PROPOSED
MINIMUM LOT AREA	20,000 SQ. FT.	113,256 SQ. FT.
MINIMUM LOT WIDTH	125 FEET	287.83 FEET
MAXIMUM STRUCTURE COVERAGE	35%	61%
MINIMUM OPEN SPACE	20%	60.5%
FRONT BLDG SETBACK	40 FEET	40.1 FEET
SIDE BLDG SETBACK	20 FEET	20.0 FEET
REAR BLDG SETBACK	50 FEET	135.3 FEET
BUILDING HEIGHT	45 FEET	23.5 FEET
STEWART'S BUILDING SIGN	32 SQ. FT.	10 17 SQ. FT.
FREESTANDING SIGN	42 SQ. FT.	1 @ 40 SQ. FT. EA.
TOTAL SIGNAGE	14 SQ. FT.	51 SQ. FT.
PARKING (RETAIL STORE)	1 PER 125 SQ. FT. (2,043 SQ. FT. RETAIL) = 17 SPACES	-
PARKING (EATING/DRINKING)	1 PER 60 SQ. FT. (300 SQ. FT. EATING) = 5 SPACES	30 SPACES

LEGEND	
FIRE HYDRANT	
WATER VALVE	
GAS VALVE	
SEWER MANHOLE	
SEWER CLEANOUT	
CURB INLET	
CATCH BASIN	
GUY WIRE	
UTILITY POLE	
SIGNPOST	
TRAFFIC SIGNAL CONTROL BOX	
POLE LIGHT	
MONITORING WELL	
BOLLARD	
IRRIGATION SLEEVE	
OVERHEAD UTILITIES	
WATER SERVICE	
SEWER SERVICE	
STORM PIPE, HDPE	
STOCKADE FENCE	
CHAINLINK FENCE	
SPLITRAIL FENCE	
W/G ELECTRICAL/TELE SERVICE	
W/G ELECTRICAL CONDUIT	
W/G GAS LINE	
W/G CAMERAL CONDUIT	
DIESEL PRODUCT LINE	
SUPER PRODUCT LINE	
UNLEADED PRODUCT LINE	
EXISTING MAJOR CONTOUR	
EXISTING MINOR CONTOUR	
PROPOSED MAJOR CONTOUR	
PROPOSED MINOR CONTOUR	
PROPOSED MONITORING WELL	

NOTES:
1. SOME FEATURES IN LEGEND MAY NOT HAVE BEEN USED.
2. DASHED LINES INDICATE NEW WORK.
3. DOTTED LINES INDICATE REMOVED ITEMS.

NOTES:

- 1) NO ADDITIONAL OUTSIDE STORAGE AREAS, BEYOND WHAT IS SHOWN ON THIS DRAWING SHEET, ARE PLANNED FOR THIS PROJECT.
- 2) EXISTING CONCRETE SURVEY MONUMENTS SHALL NOT BE INTENTIONALLY DISTURBED. SHOULD AN EXISTING MONUMENT BE ACCIDENTALLY DISTURBED, IT SHALL BE REPLACED IN-KIND BY A NY'S LICENSED SURVEYOR.

SIGN KEY:

- 1) ALL SIGNS ARE TO CONFORM WITH N.Y.S.D.O.T. STANDARD SECTION 645.
- 2) SIGN POST TO BE SECURED IN BOLLARD WITH SAND
- 3) SIGNS SHALL BE MOUNTED TO GALVANIZED U CHANNEL POSTS IN THE LOCATIONS INDICATED ON THE PLAN.

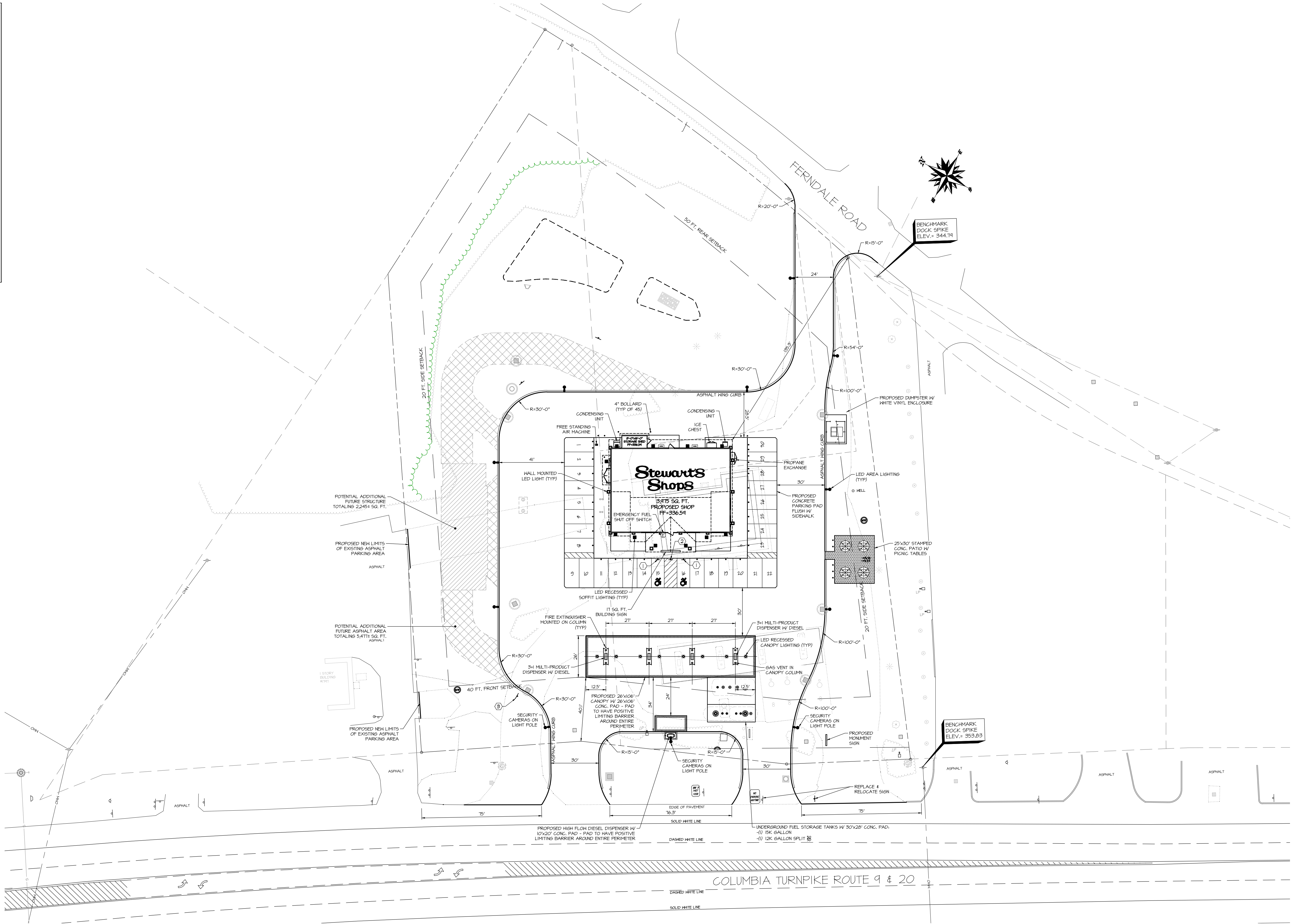
1) RESERVED PARKING
 VAN ACCESSIBLE

2) NO PARKING ANY TIME

HANDICAP SIGN
RT-1 12"x18"
RT-8A 12"x6"
6'-0" MOUNTING HEIGHT MIN.
SEE PLAN FOR LOCATION

3) STOP
STOP SIGN
RT-1 30"x30"
5'-0" MOUNTING HEIGHT MIN.
SEE PLAN FOR LOCATION

NO PARKING SIGN
RT-1 12"x18"
6'-0" MOUNTING HEIGHT MIN.
SEE PLAN FOR LOCATION



ALTERATIONS TO THIS DOCUMENT BY OTHER THAN AN AUTHORIZED LICENSED PROFESSIONAL ENGINEER IS ILLEGAL AND A VIOLATION OF THE NEW YORK STATE EDUCATION LAW.

STORE NAME, ABBREVIATION & NO.		COLUMBIA TURNPIKE - CTKV - 154	
SITE LOCATION		1811 COLUMBIA TURNPIKE - SCHODACK, NY 12033	
DATE	NO.	REVISIONS	
5-26-2020	1	Remove car wash from current plans.	
DRAWN BY: SEK		SCALE: 1" = 30'	
DATE: 3/30/2020		DRAWING NO. 9-2	
SARATOGA SPRINGS, NY 12066		TEL: (518)581-1200 FAX: (518)581-1201	
TITLE: PROPOSED SITE PLAN			

APPENDIX F:
Cost Estimate



TOWN OF SCHODACK, NEW YORK

Columbia Turnpike Sewer Extension

Sewer Cost Estimate

April 2020

Item No.	Description	Unit	Est. Qty.	Cost/Unit	Total Cost
1	General Conditions				
1.1	Mobilization/Demobilization (Approx. 3.5%)	LS	1	\$3,000	\$3,000
1.2	Overhead and Profit (Approx. 10%)	LS	1	\$9,000	\$9,000
				Subtotal Item 1	\$12,000

2					
2.1	4" Sewer Lateral	LF	130	\$60	\$7,800
2.2	6" Sewer Lateral	LF	160	\$70	\$11,200
2.3	8" PVC Gravity Sewer	LF	550	\$80	\$44,000
2.4	5' Dia. Precast Manhole	EA	2	\$7,500	\$15,000
2.5	Surface Restoration	SY	400	\$10	\$4,000
2.6	Select Backfill	CY	200	\$60	\$12,000
				Subtotal Item 2	\$86,200

Subtotal of Items 1 to 2	\$98,200
15% Contingency	\$15,000
COST ESTIMATE TOTAL	\$113,000