received February 1,2018 @ 3125 pm

MEMBERS OF THE WPCA THAT ARE UNABLE TO ATTEND THIS MEETING, PLEASE CALL ETHER DIAZ, (860) 644-2511, EXT. 243, ON OR BEFORE 4:30 P.M. ON THE DAY OF THE MEETING

WATER POLLUTION CONTROL AUTHORITY TOWN OF SOUTH WINDSOR

PUBLIC HEARING COUNCIL CHAMBERS

AGENDA

6:30 PM FEBRUARY 6, 2018

- 1. Present preliminary design plans for the proposed extension of a gravity sewer system on Miller Road between Brightman Circle and Cambridge Drive.
- 2. Establish proposed changes to the Sewer Benefit Assessments, Section 14 of the Water Pollution Control Rules and Regulations.
- 3. Establish proposed changes to the South Windsor Water Pollution Control Rules and Regulations Section 6.2(c), Section 6.3(h), Section 6.3(j), and Section 9.2.

WATER POLLUTION CONTROL AUTHORITY of A CUES, ATC TOWN OF SOUTH WINDSOR

MINUTES COUNCIL CHAMBERS, TOWN HALL

PUBLIC HEARING FEBRUARY 6, 2018 at 6:30 p.m.

Members Present: Erik Dabrowski, Donald Antaya, Carol Fletterick, and Toby Lewis

Richard Aries, Patrick Soucy, Stephen Wagner **Members Absent:**

Alternates Present: Ed Havens, Jr.

Alternates Absent: Vicki Paliulis

Staff Present: Tony Manfre, Superintendent of Pollution Control

Ether A. Diaz, Recording Secretary

Public Participation: Nora Beaulieu and Francis Lawlon, 84 Miller Road, S. Windsor, CT

Vice Chairman Erik Dabrowski called the meeting to order at 6:30 p.m. The following actions were taken during the February 6, 2018 Public Hearing of the Water Pollution Control Authority (WPCA).

The Legal Notice (Exhibit A) was read into the record by Ether Diaz, WPCA Recording Secretary.

Vice Chairman Erik Dabrowski asked Mr. Tony Manfre if he had any comments to make.

1. Present preliminary design plans for the proposed extension of a gravity sewer system on Miller Road between Brightman Circle and Cambridge Drive.

Mr. Tony Manfre, Superintendent of Pollution Control explained that the WPCA began to look at this project back in May 2017 when a homeowner with a failing septic system proposed to connect a low pressure system to the sewer line on Cambridge Drive. A trend of aging septic systems was found and some of these systems in the area had restrictive use on them, said Mr. Manfre. Also, poor drain soils was found in the area. The Town is proposing to install a 1,000' +/- gravity sewer on Miller Road between Brightman Circle and Cambridge Drive. This will serve eleven properties. Borings and probing tests were conducted; the boring and probing results indicated that some ledge may be encountered particularly when installing one or two of the deeper manholes and sewer pipe sections. A survey of the project area was conducted. The surveyor was allowed into seven out of the eleven houses to perform lateral elevations measurements in preparation of the design of the sewer system.

A low-pressure sewer system was also evaluated. The initial cost estimate for the installation of a low-pressure sewer system was lower, however, considering a long term cost which includes the burden placed on the homeowner to install, operate and maintain the pumping system, it turned out that it will be more cost effective to go with installing a gravity sewer line extension along on Miller Road. The construction cost estimate for the installation of the gravity sewer is \$340,000. The contract drawings for the proposed Miller Road sewer extension project was available for review (see Exhibit B).

WATER POLLUTION CONTROL AUTHORITY TOWN OF SOUTH WINDSOR

MINUTES COUNCIL CHAMBERS, TOWN HALL PAGE 2 PUBLIC HEARING FEBRUARY 6, 2018 at 6:30 p.m.

Mr. Manfre stated that he received a letter from the homeowners of 74 Miller Road. They were unable to attend this meeting but Mrs. Deborah Migneault did write a letter that they wanted to be read for public records. Mr. Manfre read the letter into the record (see Exhibit C).

Vice-Chairman Erik Dabrowski opened the meeting to public participation at 6:37 p.m. There was no public participation at this point and time.

2. Establish proposed changes to the Sewer Benefit Assessments, Section 14 of the Water Pollution Control Rules and Regulations.

Mr. Tony Manfre reported that the Authority is proposing to revise the Sewer Benefit Assessment Policy and calculation to ensure a more equitable process for the homeowners (see Exhibit D). This new system is based off an Equivalent Dwelling Unit (EDU) method that is used across the country. The highlights of the amendment are the following: payments for sewer benefit assessments are deferred until the connection to the public sewer; payments may be made over a period of 15 years; and the Equivalent Dwelling Unit is going to be used to calculate a sewer impact fee which is the benefit assessment plus the capacity charge. These calculations are going to be available at the Water Pollution Control Office.

Vice-Chairman Dabrowski opened the meeting for public participation.

Ms. Nora Beaulieu of 84 Miller Road was in attendance this evening and asked what would be the upfront cost to each homeowner and if the fifteen year period payment plan is based on the current rate. Mr. Tony Manfre responded that the cost to each homeowner is uncertain at this point because the project cost is not final, however, the assessment fee may be paid off in one lump sum payment, or repaid in annual installments over a fifteen year period at the bond interest rate on the last project that the Town has performed. Currently the interest rate is 2.6%, however, the current rate varies from project to project. The sewer user fee are billed annually.

Ms. Beaulieu also asked what the total construction cost of this project is. Mr. Manfre responded that the cost estimate for the project is \$340,000. However, the Town's Engineering Department has agreed to handle the specifications for this project and the final design review which will bring the cost down.

Ms. Beaulieu asked if the construction cost of this project includes the re-pavement of the road after the sewer is installed. Yes, responded Mr. Manfre and explained that the project should take approximately eight weeks to complete.

Ms. Beaulieu asked when each property is going to be assessed. Mr. Manfre responded that it will be on the date of the completion of the project.

Francis Lawlon, 84 Miller Road was in attendance this evening and asked if there any cost benefit to doing a sewer hookup to the house while the construction project is happening. Probably not, responded Mr. Manfre. He will need to talk to the contractor who's doing the project and he will need to hire them separately.

WATER POLLUTION CONTROL AUTHORITY TOWN OF SOUTH WINDSOR

MINUTES
COUNCIL CHAMBERS, TOWN HALL PAGE 3

PUBLIC HEARING FEBRUARY 6, 2018 at 6:30 p.m.

Mr. Lawlon also asked for point of clarification what the payment options of the sewer benefit assessments are. Mr. Manfre responded the assessment may be paid off in one lump sum payment, or defer payment until connection to the sewer system. Once the property is connected to the sewer system, the property owner may repay in annual installments over a fifteen (15) year period at the current bond interest rate.

Mr. Lawlon asked if the property owner is forced to connect to the sanitary sewer prior to selling the property. Mr. Manfre responded that when the septic system fails, the property owner is forced to connect. The property owner is not forced to connect to the sewer prior to selling property, however, a caveat will be on the property giving notification that an assessment is due upon connection to the town's sewer system.

There were no further questions from the public.

3. Establish proposed changes to the South Windsor Water Pollution Control Rules and Regulations Section 6.2(c), Section 6.3(h), Section 6.3(j), and Section 9.2.

Included with the Agenda was a copy of the Water Pollution Control Authority Rules and Regulations, Section 6 and Section 9 with proposed changes (see Exhibit E).

Section 6.2(c) currently reads as follows: Any waters or wastes having a pH lower than 5.5 or having other corrosive property capable of causing damage or hazard to structures, equipment, and personnel of the sewerage system.

Mr. Manfre proposed to change the pH requirement from 5.5 to 5.0 in Section 6.2 (c) to be in consistence with the State general permit regulations.

Section 6.2 (h) currently reads as follows: Any water or wastes have a pH in excess of 9.5.

Mr. Manfre proposed to increase the pH limit to 10. And again this is to be in consistence with the State general permit regulations as well.

Section 6.2(j) currently reads as follows: Water having an average daily flow greater than 5% of the average daily flow of the Town.

Mr. Manfre proposed reducing the average daily flow from 5% to 3.5% of the Town's waste water treatment plant design flows in an effort to give the industrial/commercial properties a hard number for their flow discharge.

Section 9.2 currently reads as follows: Any person who shall continue any violation beyond the time limit provided for in Section 9.1 or any person who shall commit any violation of Section 7 shall be guilty of a misdemeanor, and upon conviction thereof shall be fined ninety nine (\$99.00) dollars for each violation. Each day in which any such violation shall continue shall be deemed a separate offense.

WATER POLLUTION CONTROL AUTHORITY TOWN OF SOUTH WINDSOR

MINUTES COUNCIL CHAMBERS, TOWN HALL PAGE 4 PUBLIC HEARING FEBRUARY 6, 2018 at 6:30 p.m.

Mr. Manfre proposed increasing the penalty fee from \$99.00 to \$250.

Vice-Chairman Dabrowski opened the meeting for public participation. With no comments from the public, Vice-Chairman Dabrowski declared the Public Hearing closed at 6:50 p.m.

Respectfully Submitted,
Ether A. Diaz, Recording Secretary

- Rec. 01/24/2018@ 8:50 am

LEGAL NOTICE TOWN OF SOUTH WINDSOR

EXHIBIT A

PROPOSED SANITARY SEWER MAIN EXTENSION AND PROPOSED AMENDMENT TO WATER POLLUTION CONTROL RULES AND REGULATIONS

Pursuant to Chapter 103 Sections 7-245 through 7-255 of the Connecticut General Statutes, notice is hereby given that the South Windsor Water Pollution Control Authority will hold a Public Hearing on Tuesday, February 6, 2018, at 6:30 p.m. in the Council Chambers of the South Windsor Town Hall, 1540 Sullivan Avenue, South Windsor, Connecticut to consider the following:

- 1. Present preliminary design plans for the proposed extension of a gravity sewer system on Miller Road between Brightman Circle and Cambridge Drive.
- 2. Establish proposed changes to the South Windsor Water Pollution Control Rules and Regulations Section 6.2(c), Section 6.3(h), Section 6.3(j), and Section 9.2.
- 3. Establish proposed changes to the Sewer Benefit Assessments, Section 14 of the Water Pollution Control Rules and Regulations.

Copies of said proposed regulatory changes are available for review in the Town Clerk's Office in the Town Hall, 1540 Sullivan Avenue, South Windsor, Connecticut. At this hearing, interested persons may appear and be heard, and written comments by the public will be received.

Richard Aries, Chairman
Water Pollution Control Authority



MEMORANDUM

TO: Anthony Manfre, Superintendent Pollution DATE: 1/31/2018

Control

FROM: Lisa M. Muscanell-DePaola, PE PROJECT NO.: 13914A

Dennis A. Dievert, Jr., PE

SUBJECT: Miller Road Sewer Extension Project – South Windsor, CT - REVISED

The intent of this memorandum is to summarize the final design efforts completed to date for the Miller Road Sewer Extension Project and to provide a final layout and cost estimate for the recommended alternative.

BACKGROUND

Wright-Pierce and the Town of South Windsor WPCA executed an agreement on September 27th, 2017 to design a sewer service extension for up to 11 existing lots (#44, #54, #55, #64, #65, #73, #74, #80, #84, #94, and #99 plus an additional two lateral stubs) on Miller Road. It was confirmed with the Town of South Windsor that lots #73 and #44 could be subdivided and a second lateral stub would be installed for each of these two lots for future connection.

Wright-Pierce subcontracted out the geotechnical work with Clarence Welti Assoc., Inc., and on October 17th, 2017, two test borings and five additional auger probes were conducted. Boring and probing results indicated that some ledge will likely be encountered particularly when installing one or two of the deeper manholes and sewer pipe sections, and therefore, 50 CY of ledge removal was assumed when developing the construction cost estimate. In early November 2017, J.R. Russo & Associates, LLC was hired by Wright-Pierce to conduct a topographic survey of the project area. The surveyor also surveyed the location and elevation of the existing sanitary lines leaving 7 of the 11 homes on Miller Road while mobilized. Laterals from lot #84, #94, #99, and #73 were unable to be located and measured. The Town of South Windsor and the surveyor made several attempts to enter these residences via letter correspondence and knocking on doors in the field. For the final design efforts, estimates of the lateral elevations were made based on the finished floor and garage floor elevations provided by the surveyor.

Memo To: Anthony Manfre, Superintendent Pollution Control

1/31/2018 Page 2 of 4

EVALUATION OF ALTERNATIVES

Upon review of the survey and geotechnical investigations, construction of a gravity sewer main or low-pressure sewer system was evaluated. Installation of a gravity main would require construction of an 8-inch gravity main extending from the existing gravity sewer system from an existing manhole on Brighton Circle (approximately 190 feet to Miller Road and then east up Miller Road approximately 770 feet to a manhole between #99 and #94 Miller Road) varying in depth from 5 to 12 feet. Installation of a low-pressure sewer system would include construction of a 3-inch or 4-inch force main approximately 5 to 8 feet deep along the same route.

The construction cost estimate for the installation of the gravity sewer is \$340,000 and the cost estimate for the installation of a low-pressure sewer system is \$230,000 as shown in **Table 1** and **Table 2** below.

TABLE 1
GRAVITY SEWER COST ESTIMATE

	MILLER ROAD SEWER EXTENSION - GRAVITY I	LINE			•		
	SOUTH WINDSOR, CT						
	W-P PROJECT NO. 13914A ENGINEER'S OPINION OF						
	DATE: 12/1/2017				CONSTRUC	TIOI	N COST
	100% Design Estimate						***
			UNIT				
	DESCRIPTION	UNIT	Quantity		PRICE		AMOUNT
1	Mobilization	LS	1	\$	15,000.00	\$	15,000.00
2	8-inch Sewer	LF	1,000	\$	150.00	\$	150,000.00
3	Sewer Manholes 4-foot dia	EA	4	\$	6,000.00	\$	24,000.00
4	Sewer Lateral to Property Line	LF	200	\$	120.00	\$	24,000.00
5	Ledge Removal	CY	50	\$	200.00	\$	10,000.00
6	4-inch Trench Repair Pavement	SY-IN	3,000	\$	8.25	\$	24,750.00
7	2-inch Mill and Overlay	SY-IN	5,000	\$	8.25	\$	41,250.00
8	Exc. & Replacement of Unsuitable Materials	CY	20	\$	35.00	\$	700.00
9	Below Grade Excavation and Replacement	CY	20	\$	40.00	\$	800.00
10	Traffic Control	L.S.	1	\$	15,000.00	\$	15,000.00
	SUBTOTAL ALL					<u>\$</u>	305,500.00
		CONTINGENCY (10%)					31,000.00
		TOTAL PHASE 1					336,500.00

Memo To: Anthony Manfre, Superintendent Pollution Control

1/31/2018 Page 3 of 4

TABLE 2
LOW-PRESSURE SEWER COST ESTIMATE

MILLER ROAD SEWER EXTENSION - LOW PRESSURE SEWER SOUTH WINDSOR, CT								
	W-P PROJECT NO. 13914A ENGINEER'S OPINION OF							
	DATE: 12/1/2017	İ			CONSTRUC	101	1 COST	
	100% Design Estimate					_	••	
					UNIT		- "	
	DESCRIPTION	UNIT	Quantity		PRICE		AMOUNT	
1	Mobilization	LS	1	\$	10,000.00	\$	10,000.00	
2	3" Low Pressur Sewer Main	LF	1,000	\$	100.00	\$	100,000.00	
3	Sewer Manholes 4-foot dia	EA	0	\$	7,000.00	\$	-	
5	LPS Lateral to Property Line	LF	200	\$	80.00	\$	16,000.00	
6	Ledge Removal	CY	25	\$	200.00	\$	5,000.00	
7	4-inch Trench Repair Pavement	SY-IN	3,000	\$	8.25	\$	24,750.00	
8	2-inch Mill and Overlay	SY-IN	5,000	\$	8.25	\$	41,250.00	
9	Exc. & Replacement of Unsuitable Materials	CY	20	\$	35.00	\$	700.00	
10	Below Grade Excavation and Replacement	CY	20	\$	40.00	\$	800.00	
11	Traffic Control	L.S.	1	\$	10,000.00	\$	10,000.00	
		SUBTOTA	L ALL			\$	208,500.00	
		CONTING	ENCY (10%)			\$	21,000.00	
		TOTAL PHASE1 \$						

While the installation of the gravity main is more expensive, there are more operational and maintenance cost associated with a low-pressure sewer system such as pump replacement and electrical power by the homeowners. A 20-year life cycle cost analysis was completed to compare both alternatives and include both Town and homeowner costs including sanitary sewer lateral extensions or installation, operation and maintenance of grinder pumps. Project and life cycle cost analyses are summarized in **Table 3**.

Memo To: Anthony Manfre, Superintendent Pollution Control

1/31/2018 Page 4 of 4

TABLE 3
LIFE CYCLE COST EVALUATION

	Alt 1	Alt 2
Alternative:	Sewer Extension	Low Pressure Sewer
Construction Cost Engineering @ 10%	\$ 340,000 \$ 34,000	\$ 230,000 \$ 23,000
TOTAL PROJECT COST TO TOWN	\$ 374,000	\$ 253,000
Net Present Worth (\$) - O&M	\$34,000 ³	\$149,000 ⁴
TOTAL NET PRESENT WORTH	\$ 458,000 ⁵	\$ 472,000 ⁶

Notes:

- 1. Life cycle period of 20 years.
- 2. Net interest rate of 4%.
- 3. 40 hours per year for Town maintenance for gravity sewer.
- 4. 40 hours per year for Town maintenance typical low-pressure system and grinder pump operation and maintenance costs.
- 5. Includes installation of sewer laterals.
- 6. Includes installation of grinder pumps.

CONCLUSIONS AND RECOMMENDATIONS

Based on experience with low pressure sewer systems, particularly the burden placed on the homeowner to operate and maintain the pumping system, Wright-Pierce recommends the WPCA continue install a gravity sewer line extension along on Miller Road. Under this design, 12 of the 13 planned sewer laterals can be connected by gravity to the sewer main, and #80 Miller Road would likely need to install a grinder pump to properly connect to the main line due to its distance from the roadway. Wright-Pierce has also assumed that the laterals would only be installed from the main line to individual resident's property lines, and it would be the homeowner's responsibility to replumb their existing interior sewer piping and extend a new service to the property line. A copy of the final design drawings for the proposed sanitary sewer main extension are enclosed.

BID SET No.

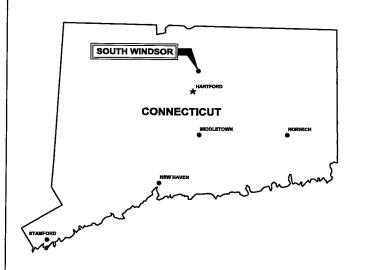
TOWN OF SOUTH WINDSOR, CONNECTICUT

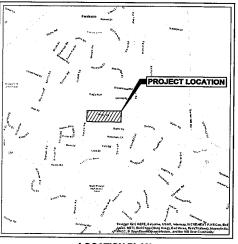
CONTRACT DRAWINGS FOR

MILLER ROAD SEWER EXTENSION

BID NO. 2018-01

FEBRUARY 2018





LOCATION PLAN

WRIGHT-PIERCE Engineering a Better Environment

Offices Throughout New England 888.621.8156 | www.wright-pierce.com FOR REVIEW FEBRUARY 2018

FOR BIDDING FEBRUARY 2018

WP PROJECT No. 13914A

GENERAL NOTES

- PAN AND TOPOGRAPHY FROM SURVEY PERFORMED BY J.R. RUSSO & ASSOCIATES, LLC OF EAST WINDSOR, CT IN NOVEMBER, 2017. TEMPORARY BENCHMARKS ARE LOCATED ON THE PLANS WITH DESCRIPTIONS AND ELEVATIONS.
- ELEVATIONS ON ALL PLAN AND PROFILE SHEETS REPER TO NATIONAL GEODETIC VERTICAL DATUM (NGVD) 1988, AND HORIZONTAL DATUM NAD 1983.
- 3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LAYOUT OF ALL PROPOSED WORK AS SUBJECT OF THE BUNNERS. OR A ADJUSTED IN THE FIELD BY THE BUNNERS. THE PROPOSED WORK AS SUBJECT OF THE BUNNERS. THE PROPOSED CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINED THIS PROVIDED LAYOUT INFORMATION THROUGHOUT THE COURSE OF CONSTRUCTION, REPORT ANY LAYOUT DISCREPANCES IMPORTANTLY TO THE CHEMPER.
- SEE APPENDIX A OF THE SPECIFICATIONS FOR BORING LOGS. THESE ARE PROVIDED FOR INFORMATIONAL PURPOSES ONLY.
- THE CONTRACTOR IS REFERRED TO SECTION 01050 OF THE SPECIFICATIONS RECARDING COORDINATION WITH OTHERS, INCLUDING RESPONSIBILITIES AND RELATED COSTS. THE CONTRACTOR SHALL COORDINATE ALL WORK WITH THE TOWN OF SOUTH WINDSOR DEPARTMENT OF PUBLIC WORKS.
- 6. THE LOCATIONS OF UNDERGROUND UTILITIES AND STRUCTURES SHOWN ON THE DRAWINGS ARE APPROXIMATE AND MAY NOT BE COMPLETE. NO GUARANTEE IS MADE THAT UTILITIES OR APPROXIMATE AND SHOWN OF THAT ALL UNDERGROUND UTILITIES AND STRUCTURES ARE SHOWN PROVIDE THE SHOWN OF THAT ALL UNDERGROUND UTILITIES AND STRUCTURES AND STRUCTURES AND STRUCTURES ARE NOT SHOWN. THE CONTRICTOR SHOWN PROVIDED AND STRUCTURES AND SHOWN OF CONTRICTOR SHOWN AND STRUCTURES AND SHOWN OF CONTRICTOR SHOWN PROPERSISHATION OF THE CONTRICTOR SHOWN PROPERSISHATION OF THE CONTRICTOR SHOWN PROPERSISHATION OF THE CONTRICTOR SHALL DE RESPONSIBLE FOR ANY LAYOUT OF ALL PROPOSED WORK AS SHOWN ON THE DRAWINGS AND REPORT ANY LAYOUT DISCREPANCES MEMBERS 10 THE PROPOSED WORK AS SHOWN ON THE DRAWINGS AND REPORT ANY LAYOUT DISCREPANCES MEMBERS 11 TO THE DRAWINGS AND REPORT ANY LAYOUT DISCREPANCES MEMBERS 11 TO THE DRAWINGS AND REPORT ANY LAYOUT DISCREPANCES MEMBERS 11 TO THE DRAWINGS AND REPORT ANY LAYOUT DISCREPANCES MEMBERS 11 TO THE DRAWINGS AND REPORT ANY LAYOUT DISCREPANCES MEMBERS 11 TO THE DRAWINGS AND REPORT ANY LAYOUT DISCREPANCES MEMBERS 11 TO THE DRAWINGS AND REPORT ANY LAYOUT DISCREPANCES MEMBERS 11 TO THE DRAWINGS AND
- CONTRACTOR TO NOTE THAT, IN GENERAL, ALL EXISTING CONDITION INFORMATION ON THE DRAWINGS ARE SHOWN WITH A LIGHTER LINE WEIGHT AND WITH A SLANTED TYPE TEXT.
- B. THE CONTRICTOR SHALL DETERMINE THE DUCT SIZE TIME CONTRICTOR SHALL DESTROY CUITIES INCLUDING SERVICE LISTENSES, IN THE WOODS OF THE PROPOSED FIRE, PROOF TO THE START OF CONSTRUCTION OF CONTRICTION OF THE CONTRICTION OF CONTRICTION OF THE CONTRICTION OF CONTRICTION OF CONTRICTION OF THE CONTRICTION OF C
- 9. ALL TEST PITS SHALL BE EXCANATED PRIOR TO CONSTRUCTION LAYOUT AND RESULTS REPORTED TO THE ENGINEER FOR REVIEW FOR CONFORMANCE TO THE PLANS, TEST PITS ARE REQUIRED WHERE SHOWN ON THE PLANS AND AS DIRECTED BY THE SHOWNER. THE RESULTS OF TEST PITS DUG WILL BE REPORTED TO THE ENGINEER PRIOR TO ANY OTHER CONSTRUCTION ACTIMITY.
- 10. PRIOR TO ANY EXCANATIONS, IT IS THE CONTRACTOR'S RESPONSIBILITY TO THOROUGHLY FAMILIARIZE HUSELE WITH THE BETALS OF THE PROJECT AREA. THIS FAMILIARIZATION SHALL HIGLDIE COORDINATION WITH LITUTY COMPANY PERSONNEL, AND A REVIEW OF RECORD DAMANUS THAT MAY BE AMALBALE STRENG CULTION SHALL BE EXERCISED IN ALL EXCANATIONS TO DECIDER THAT EXTENSINE UTILITIES ARE NOT DAMAGED.
- THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE REGULATIONS OF THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA).
- 12. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH TOWN/STATE SPECIFICATIONS AND STANDARDS WHERE APPLICABLE.
- 13. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING TRAFFIC FLOW AT ALL TIMES. THE CONTRACTOR IS REQUIRED TO SUBUIT A TRAFFIC CONTROL FLAN TO THE GAMER FOR APPROVILE PRIOR TO COMMENCING CONTRACTOR IN CRESPECTIVE JURISDICTION. THE CONTRACTOR IS RESPONSIBLE FOR CORGINATING TRAFFIC CONTROL MESURES AND TRAFFIC SAFETY WITH THE OWNERS SEE SECRECULATIONS FOR ADDITIONAL REQUIREMENTS.
- 14. ALL PERMITS ARE THE RESPONSIBILITY OF THE CONTRACTOR, INCLUDING, BUT NOT LIMITED TO THE TOWN OF SOUTH WINDSOR STREET CUT PERMIT, AND DRAIN LAYERS PERMIT.
- 15. THE OWNER SHALL BE RESPONSIBLE FOR DETANNIC ALL NECESSARY RICHTS-OF-WHY AND EASPENING (F APPLUBLE). THE CONTRACTOR SHALL VERBY THAT THE NECESSARY RECORD BY THE CONTRACTOR SHALL VERBY THAT THE NECESSARY EXEMPLY NAME BEEN SECURED BY THE OWNER, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO BE SMALLAR WITH THE APPLICABLE PROVISIONS OF EACH EACHBURN AT SHE CONSTRUCTION. COPIES OF EACH SHALL RICHTS-OF-WAY AND EXCENSIVE THOSE PROVISIONS DURING CONSTRUCTION. COPIES OF EAL RICHTS-OF-WAY AND EXCENSIVE AND AND EXPENSIVE PROMITED TO THE TOWN OF SOUTH WINDSOR DEPARTMENT OF PUBLIC WORKS.
- 16. THE LOCATION AND LIMITS OF ALL ON-SITE WORK AND STORAGE AREAS SHALL BE REVEWED/COORDINATED WITH, AND ACCEPTABLE TO, THE OWNER AND ENGINEER, THE CONTRACTOR SHALL LIMIT HIS ACTIVITIES TO THESE AREAS.
- 17. CONTRACTOR SHALL MINMIZE CLEARNO OPERATIONS. CLEARING AND GRUBBING SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS. CLEARING LIMITS SHALL BE WITHIN EXISTING RADO RIGHTS.—OF WAY. ALL GRUBBINGS AND EXCESS EXCLAMED MINERAL ARE THE PROPERTY OF THE CONTRACTOR AND WILL BE DISPOSED OF AT A SITE PROVIDED BY THE CONTRACTOR IN COMPLANCE WITH ALL STARE AND LOCAL LUNS.
- 18. NI THOSE INSTANCES WHERE POWER OR TELEPHONE POLE SUPPORT IS REQUIRED, THE CONTRACTOR SHALL PROVIDE A MINIMUM 48 HOUR NOTIFICATION TO THE AFFECTED UTILITY. NO ACCRITICANLE ARMENT WILL BE PROVIDED FOR HEMPORARY BROADED OF LITTLESS.
- 19. THE CONTRACTOR SHALL INFORM PROPERTY OWNERS ALONG THE CONSTRUCTION ROUTE OF ANTICIPATED WORK SCHEDULES SO AS TO CAUSE MINIMAL INCONVENIENCE DURING CONSTRUCTION.
- 20. AL STRUCTURES AND PPEURS LOCATED ADJACENT TO THE TRENCH EXCANDION SHALL BE PROTECTED MO. FRANK SUPPORTED BY THE CONTINCION LINES HE RISCH IS BACKFILLED. PROJECT SHALL BE REPORTED BY THE CONTINCION LINES FROM, THE CONTINCIONS OPERATIONS SHALL BE REPORTED AT THE CONTINCIONS CONTINCION SHALL BE REPORTED AT THE CONTINCIONS CONTINCIONS SHALL BE CONTINUED AT A RESULT OF THE PROJECT SHALL BE CONTINUED.
- 21. EXCAVATION CLOSE TO EXISTING UTILITIES SHOULD BE PERFORMED BY HAND TO DETERMINE THE EXACT UTILITY LOCATION BEFORE EXCAVATION BY BACKHOE.
- 22. DAMAGE TO EXISTING UTILITIES OR PREVAUSLY INSTALLED PROPOSED UTILITIES AS A RESULT OF THE CONTRACTOR'S OR ANY OF HIS SUBCONTRACTOR'S ACTIVITIES DURING THE CONSTRUCTION PROCESS SHALL BE REPAIRED PROMPTLY AND AS DIRECTED BY AND AT NO ADDITIONAL COST TO THE OWNER.
- 23. ANY CONFLICT BETWEEN THE PROPOSED SEWER, EXISTING OR PROPOSED SEWER AND EXISTING SANITARY LATERALS OR STORM DRAWS SMALL BE RESOLVED BY THE EXIGHEER. SANITARY LATERALS KNOWN TO BE IN CONFLICT WITH THE PROPOSED SEWER HAVE BEEN LIGHTIFIED ON THESE PLANS. CONTINUED SHALL BE REQUIRED TO CONNECT THISE LATERALS, AND OTHERS IN COMPLET BEAUTY DURING CONSTRUCTION, TO THE MOY SEWER.
- 24. ALL EXISTING UNDERGROUND LITLIFIES ENCOUNTERED DURING CONSTRUCTION ARE TO REMAIN IN SERVICE. ANY EXISTING UNDERGROUND LITLIFIES DAMAGED DURING CONSTRUCTION SHALL BE REPARKED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER, EXCEPT WHEN IN DIRECT CONFLICT WITH THE NEW SCHER OR WHEN YOU'S NICHON OR INDICATED.
- 25. MANTAIN A MINIMUM DISTANCE OF 10 FEET (10"—0") HORIZONTAL BETWEEN THE SEWER AND ANY EINSTINIO WATER MAIN. WHEN LOCAL CONDITIONS PREVENT THIS, A LESSER DISTANCE IS ALLOWED FOR (0") THE SEARS IS IN A SEPARATE RENCH, ON (0") ITS LOCATED IN THE SAME ALLOWED FOR THE SEWER AND THE SEWER PREVENTION OF THE MATER MAN SHALL BE EIGHEN INCHES AND THE CROWN OF THE SEWER PIPE. WHEREVER POSSIBLE, USE A FULL LENGTH OF SEWER PIPE WITH THE JOINTS COULDISTANT FROM THE CROSSING.

GENERAL NOTES (Cont.)

- 26. WHERE ROCK IS ENCOUNTERED DURING THE INSTALLATION OF THE PROPOSED SEWER, THE PROPOSED SEWER PIPE SHALL BE LAID ON A PRE-COMPACTED BED OF APPROVED MATERIAL A MINIMUM SIX WICHES (6") IN DEPTH.
- 27. COMPACTION TESTS SHALL BE PERFORMED IN ACCORDANCE WITH THE SPECIFICATIONS. ANY SETTLEMENT OCCURRING WITHIN ONE YEAR OF SUBSTANTIAL COMPLETION OF THE PROJECT WILL BE CORRECTED BY THE CONTROCTOR AT NO ADDITIONAL EXPENSE TO THE OWNER.
- 28. HORIZONTAL AND VERTICAL LOCATION OF PROPOSED SEWER PIPE AND STRUCTURES MAY BE AUJUSTED IN THE FIELD TO FT EXISTING FIELD CONDITIONS UPON WRITTEN APPROVAL OF THE ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCUT OF ALL PROPOSED PIPING. THE LYCOUT SHALL BE REMEMBED BY THE TRIONIEUE PRIOR TO CONSTRUCTION.
- 29. INSULATE OVER SEWER PIPE WHEN COVER IS LESS THAN 4.0 FT, OR THERE IS LESS THAN 2 FT BETWEEN THE WATER MAIN AND A STORM SEWER. CONTRACTOR TO PROMDE INSULATION,
- 30. ALL MANHOLES ARE 4-FOOT DIAMETER, ECCENTRIC CONE TOP, UNLESS OTHERWISE NOTED. THE INVERTS SHOWN ARE AT THE INSIDE FACE OF THE MANHOLE.
- 31. THE CONTRACTOR SHALL KEEP A RECORD OF DEMOLITION AND ABANDONMENTS AS PART OF THE RECORD DOCUMENTS IN ACCORDANCE WITH SPECIFICATIONS SECTION 01720.
- 32. THE CONTRACTOR SHALL TAKE ALL NECESSARY STEPS TO ENSURE THAT ALL SEMER ROWS ARE MANTANED DURING CONSTRUCTION. GRANTY OR PULMED BYPASSES AND OTHER MEANS OF MANTANNE FLOW SHALL BE SUBJECT TO THE ROBOW AND ACCEPTANCE OF THE ROMOREM. THE CONTRACTOR SHALL COORDINATE MY TEMPORARY STOPPAGES OR BYPASSES WITH THE OWNER AND BYDAGINET AND YELLOW TEMPORARY STOPPAGES OR BYPASSES WITH THE OWNER AND BYDAGINET AND YELLOW TEMPORARY STOPPAGES OR BYPASSES WITH THE OWNER AND BYDAGINET AND BYDAGINET AND BYDAGINET AND BYDAGINET AND THE OWNER AND BYDAGINET AND
- 33. ALL PIPE INSTALLATION SHALL BE PERFORMED IN THE DRY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE APPROPRIATE DISPOSAL OF FLOWS RESULTING FROM PRECIPITATION AND DEWARTERING EFFORTS WHICH SHALL NOT BE DISCHARGED TO SANITARY SEWERS.
- 34. REFER TO SPECIFICATIONS SECTION 02200 FOR PIPE BEDDING AND BACKFILL REQUIREMENTS.
- 35. CONTRACTOR SALL, RESHACE INVERTS AS BEQUIRED WHEN CONNECTING INTO EXISTING MANHOLES AND STRICTINGS WASTE AN EXISTING MANHOLE IN EXISTING MANHOLE IN ADMINISTRATION SHALL BE PLUGGED WITH BRICK AND MICHIRE AND SHALL BE WASTERNIGHT.
- 36, AFTER CONSTRUCTION ACTIVITIES HAVE BEEN COMPLETED FOR THE DAY, THE WORK AREA(S) SHALL BE CLEANED. TRENCHES SHALL BE BACKFILLED AND INITIAL PARCO DALLY ACCORDING TO THE CONTRACT DRAWNES AND SPECIFICATIONS. STEEL, PLATES HAVE BE USED IN AREAS THAT WILL NEED TO BE ACCESSED THE FOLLOWING WORK DAY, IF APPROVED BY THE OWNER.
- 37. CONTRACTOR SHALL REMOVE AND REPLACE, OR REPAIR, ALL CURBS, SIDEWALKS, SIDEWALKS, RAMES, PAWEMENT, GRASSED AREAS AND OTHER ITEMS DAMAGED BY HIS CONSTRUCTION ACTIVITIES TO AT LEAST THEIR ORIGINAL CONDITION, TO THE SATISFACTION OF THE DWINER AND ENGINEER.
- 38. ALL CATCH BASINS, MANHOLES, VALVE PITS, VALVE BOXES AND OTHER BURIED FACILITIES WITH SURFACE ACCESS SHALL BE ADJUSTED TO MATCH FINAL GRACES, UNILESS OTHERWISE INDICATES.
- 39. WHERE EXISTING PAVEMENT IS REMOVED AND REPLACED, MATCH EXISTING GRADES TO THE EXTENT POSSIBLE. COORDINATE FINE GRADING WITH THE ENGINEER.
- 40. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESETTING ALL EXISTING PROPERTY MONUMENTS THAT ARE DISTRIBED BY HIS OFERNIONS AT NO EXPENSE TO THE OWNER. THIS WORK IS TO BE DONE BY A LAND SURVEYOR REGISTERED IN THE STATE OF CONNECTION.
- 41. THE CONTRACTOR SHALL NOT HAVE ANY RIGHT OF PROPERTY IN ANY MATERIALS TAKEN FROM ANY DICKARION. SUITABLE DECOMMEND MATERIAL MAY BE INCORPORATED IN THE PROJECT, WITH THE PROJECT OF THE
- 42. UPON COMPLETION OF THE WORK THE CONTRACTOR SHALL, CLEAN THE WORK AREA TO THE SATISFACTION OF THE OWNER.
- 43. CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL DEBRIS AND EXCESS EXCAVATED MATERIAL FROM WITHIN THE CONSTRUCTION LIMIT OF WORK, TO A SUITABLE SITE REQUIDED BY THE CONTRACTOR, IN COMPLANCE WITH ALL STATE AND LOCAL REGULATIONS. ANY EXCESS MATERIAL MAY REMAIN ONSITE AT THE REQUEST OF THE OWNER.
- 44. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING AND DISPOSING OF ALL DEMOLISHED PIPING AND STRUCTURES, DISPOSAL SHALL BE IN ACCORDANCE WITH ALL STATE AND LOCAL REGULATIONS.
- 45. MAINTENANCE AND PROTECTION OF TRAFFIC REQUIRES THAT ONE LANE BE OPEN AT ALL
- NORMAL CONSTRUCTION HOURS ARE WEEKDAYS, EXCLUDING TOWN OF WINDSOR HOLIDAYS, 7:00AM TO 5:00PM
- ALL LATERALS ARE SHOWN AS APPROXIMATE. COORDINATE ACTUAL LOCATION DURING CONSTRUCTION.

ABBREVIATIONS

BILLIANGUS
CATCH BOSN
CATCH BOSN
CATCH BOSN
CATCH BOSN
CATCH BOSN
CATCH BOSN
CATCH
C REINFORCED CONCRETE SEMER SANITARY STORM DRAIN SEWER MANHOLE STAINLESS STEEL PIPE STEEL SERVICE TOLEPHONE TOP OF FRAME TIPICAL

TYPICAL
UNDERGRAIN
UNDERGROUND
UNDERGROUND
UNDERGROUND
ELECTRIC
VITRATED
CLAY
VERTICAL
WATER
WATER
GATE
WITH

	SETBACK LINE	
— · · —	- EASEMENT UNE	$-\cdot -\cdot -$
	CENTERLINE	
	EDGE OF PAVEMENT	/ Marian manager
	CURBING	Selfor Clerifor Clerifor Service
	EDGE OF GRAVEL EDGE OF CONCRETE	MANUAL PROPERTY.
	- CONTOUR	(123)
	BUILDING	
000000000	STONEWALL	
$\sim\sim$	TREELINE	$\sim\sim$
	CHAIN LINK FENCE	
	STOCKADE FENCE	
	BARB WIRE FENCE	
	RETAINING WALL	
- · · · · · · · · · · · · · · · · · · ·	GUARDRAIL	
8*_S	SEWER	8*s
— <u>≮-</u> FM— —	SEWER FORCE MAIN	
	GAS	4*G
4"-W	WATER	8*w
-15"SD	STORM DRAIN	15°SD
	UNDERDRAIN	LH
c = 12 CMP == =		12 <u>-cup</u>
nce	UNDERGROUND ELECTRIC	
	OVERHEAD ELECTRIC	ОНЕ
٥	IRON PIPE/REBAR	•
•	DRILLHOLE	•
	MONUMENT	
_	SURVEY CONTROL POINT	_x 134.5
" cuv	SPOT ELEVATION SEWER MANHOLE	x134.5 ●SMH
OBM	DRAINAGE MANHOLE	●DMH
e~ € °	CATCH BASIN	●CB ■CB
□ <i>561</i>	ELECTRIC MANHOLE	■EMH
□ ZWH	TELEPHONE MANHOLE	MITUD
D1	GATE VALVE	■TMH ►
~	CURB STOP	7
	YARD HYDRANT	¥
٠	HYDRANT	Ĭ.
ø	UTILITY POLE	ž
عسير	UTILITY POLE W/ GLY	and.
0-#	UTILITY POLE W/ GUY	**
		~
**	LIGHT POLE	*
*	UGHT POLE BOLLARD	*
* • •~	BOLLARD	*
* 0~ **	BOLLARD FLAGPOLE	* • •
* - } **	BOLLARD FLAGPOLE CONIFEROUS TREE	*. ~
* · / ***###	BOLLARD FLACPOLE CONIFEROUS TREE DECIDUOUS TREE	* •
· .	BOLLARD FLAGPOLE CONIFEROUS TREE DECIDUOUS TREE SHRUB EDGE OF WATER	* • 6 600
· ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	BOLLARD FLAGPOLE CONIFEROUS TREE DECIDUOUS TREE SHRUB EDGE OF WATER STREAM	* • • • • • • • • • • • • • • • • • • •
· ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	BOLLARD FLAGPOLE CONFERCUS TREE DECIDUOUS TREE SHRUB EDGE OF WATER STREAM EDGE OF WETLANDS	*• 6 ***(1000
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· ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	BOLLARD RAUGPOLE CONFEROUS TREE DECIDIOUS TREE SHRUB EDGE OF WATER STREAM EDGE OF WETLANDS FLOODPLAIN WETLANDS DRAINAGE FLOW	* • • • • • • • • • • • • • • • • • • •
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"XX" DENOTES PIPE DESCRIPTION SEE LIST OF CIVIL ABBREVIATIONS FOR PIPE DESCRIPTIONS

LEGEND

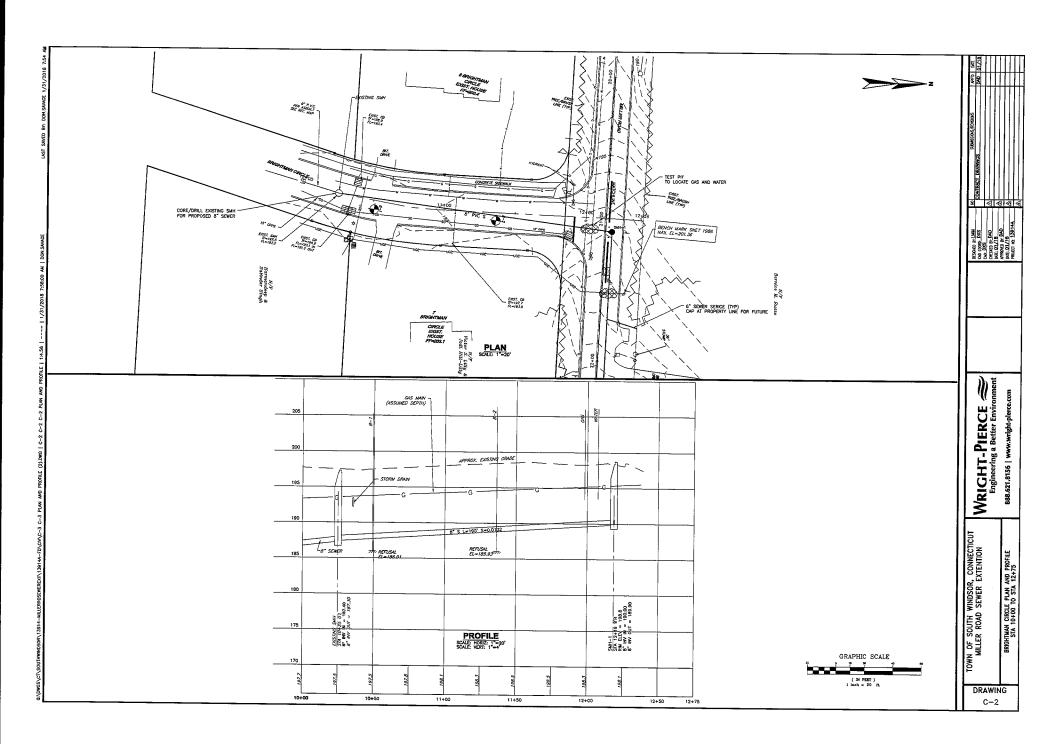
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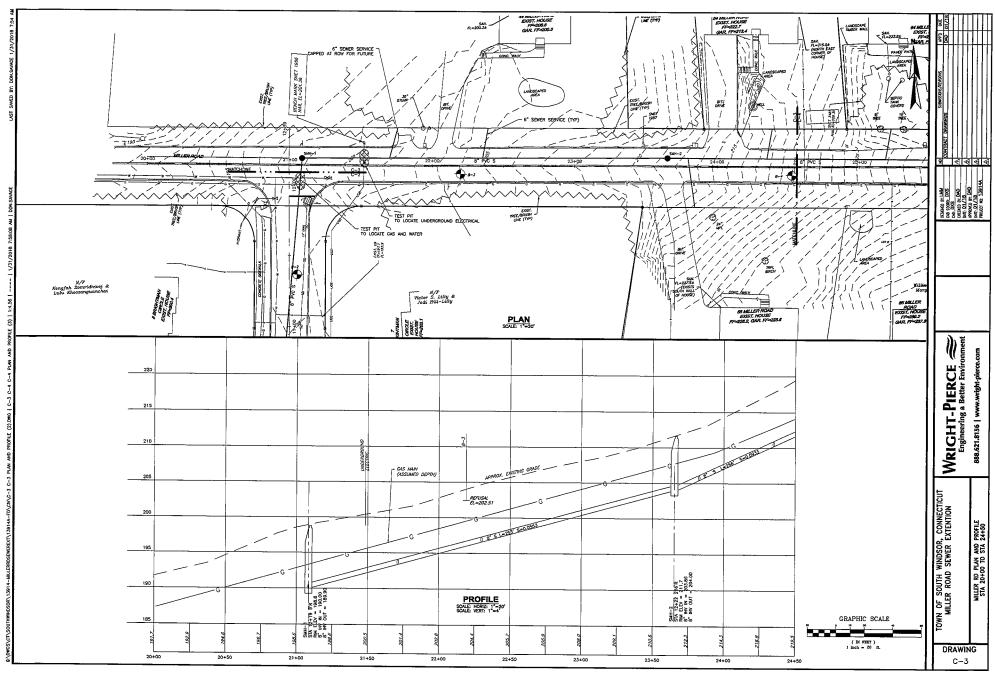
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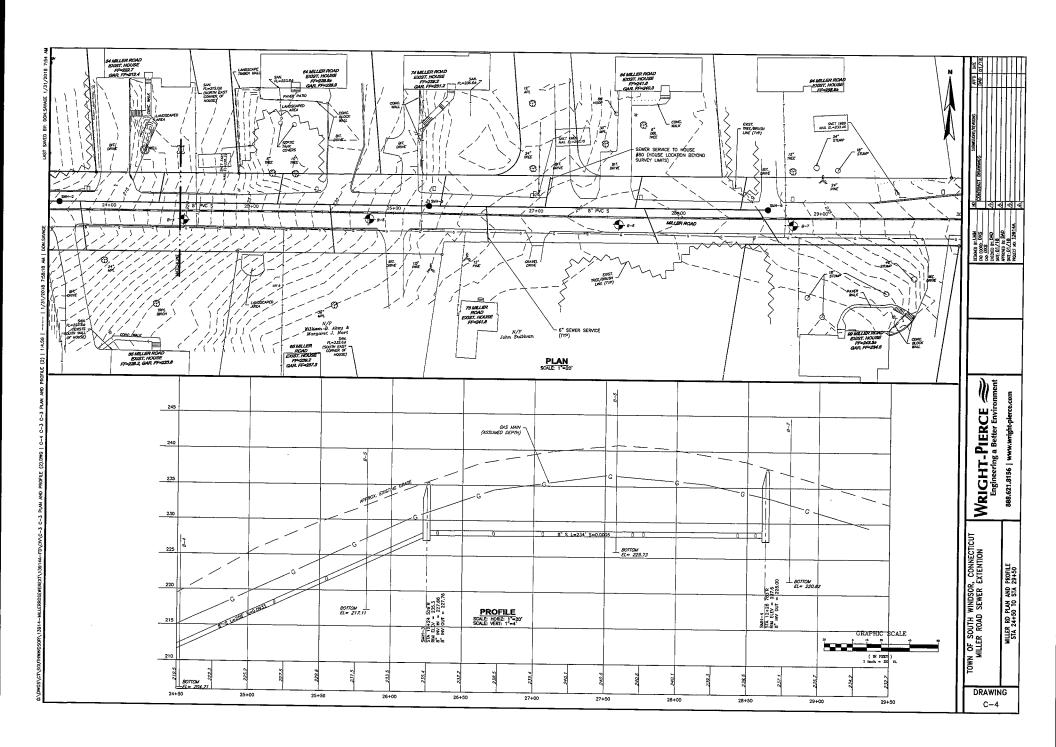
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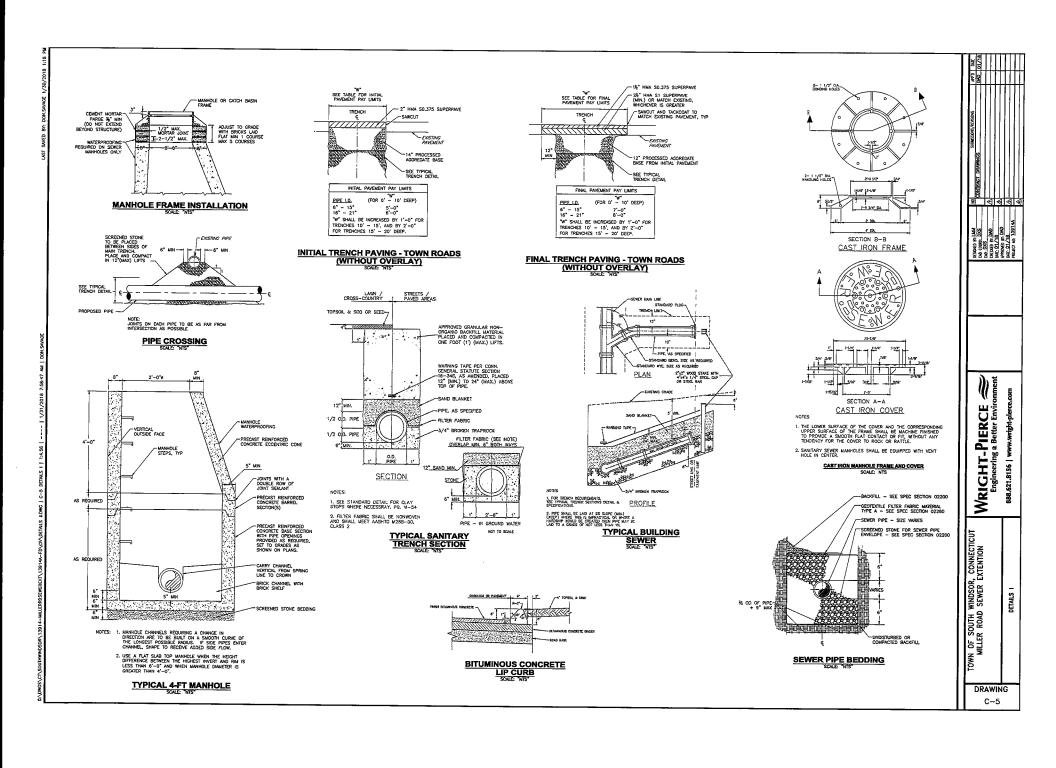
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DRAWING C-1









EROSION AND SEDIMENTATION CONTROL NOTES:

THE CONTRINATION SHALL BE RESPONSIBLE FOR THE PRESENTION OF SOIL BROSSON. THIS PLAN HAS BEEN DEPOLICIPED BY A STRATERY FOR CONTRING BY A STRATERY FOR CONTRING BY A STRATERY FOR CONTRING BY A STRATERY FOR CONTRINATION THIS FLAN IS BASED, WHITE CONSTRUCTION THIS FLAN IS BASED WITH THE CONNECTION OF SOIL RATIOS MAY SEEMED FORWARD FOR THE CONNECTION OF SOIL RATIOS MAY BE SEEMED FOR THE CONNECTION OF CONTRIVEN OF SOIL RATIOS MAY BE SEEMED FOR THE CONNECTION OF SOIL RATIOS MAY BE SEEMED FOR THE CONNECTION OF SOIL RATIOS OF SOIL RATIOS DEPROGRAMMENT PROTECTION.

THE PROPOSED LOCATIONS OF SULTAN AND ENWINDMENTAL PROTECTION.

THE PROPOSED LOCATIONS OF SULTAN AND REGION CONTROL MESSAGE RECURSED ARE SHOWN ON THE FLAN AND PROFILE DRIWNINGS. PROVICE SULTENANCE, TO CHECK DROSSON CONTROL MESSURES AN EXCHINED TO RECOVERED TO CONTROL MESSURES SERVICE OF THE PROPOSED.

TO CONTROL MESSURES SHALL BE IN PLACE PRIOR TO BEDINNING MY WORK ON THIS PROJECT.

- ALL SEDIMENT AND EROSION CONTROL MEASURES SHALL BE DONE IN ACCORDANCE WITH THE "ZODZ CONNECTICUT GUIDELINES FOR SOIL BROSION AND SEDIMENT CONTROL "BY THE CONNECTICUT COLUNCU, NO SOIL AND WATER CONSERVATION IN COOPERATION WITH THE CONNECTICUT DEPARTMENT OF ENVIRONMENTAL PROTECTION."
- THOSE AREAS UNDERGOING ACTUAL CONSTRUCTION WILL BE MAINTAINED IN AN INTRAFATED OR UNVEGETATED CONDITION FOR THE MINIMARM TIME REQUIRED. IN GENERAL, BREAS TO BE VECETATED SHALL BE PERMANENTY STABILIZED WITHIN 15 DAYS OF FIRM
- 3. SEDIMENT BARRIERS (SILT FENCE, STONE CHECK DAMS, ETC.) SHOULD BE INSTALLED PRIOR TO ANY SOIL DISTURBANCE OF UPGRADIENT DRAINAGE AREAS.
- INSTALL SILT FENCE AT TOE OF SLOPES TO FILTER SILT FROM RUNOFF. SEE SILT FENCE OFFILE FOR PROPER INSTALLATION, SILT FENCE WILL REMAIN IN PLACE PER NOTE 5.
- NO SLOPES, EITHER PERMANENT OR TEMPORARY, SHALL BE STEEPER THAN TWO HORIZONTAL TO ONE VERTICAL (2 TO 1) UNLESS STABILIZED WITH PERMANENT EROSION CONTROL MEASURES.
- F FINAL SEEDING OF THE DISTURBED AREAS IS NOT TO BE COMPLETED 3D DAYS PRIOR TO THE ANTICIPATED DATE OF THE FIRST KILLING FROST, USE TEMPORARY MULCHING (DOMAINT SEEDING WAY BE ATTEMPED AS WELL) TO PROTECT THE SITE AND DELAY PERMANENT SEEDING, UNTIL UPGRADIENT AREAS ARE STABLIZED.
- DURING THE CONSTRUCTION PHASE, INTERCEPTED SEDIMENT WILL BE RETURNED TO THE SITE AND REGRADED ONTO OPEN AREAS, POST SEEDING SEDIMENT, IF ANY, WILL BE DISPOSED OF IN AN ACCEPTABLE MANNER.
- 10. REVEGETATION MEASURES WILL CONMENCE UPON COMPLETION OF CONSTRUCTION EXCEPT AS NOTED ABOVE. ALL DISTURBED AREAS NOT OTHERWISE STABILIZED WILL BE GRADED, SMOOTHED, AND REVEGETATED AS FOLLOWS:
 - A. A MINIMUM OF FOUR INCHES (4") OF LOAM WILL BE SPREAD OVER DISTURBED AREAS AND SMOOTHED TO A UNIFORM SURFACE.
- DISTURBED MERGE AND SMOOTHED TO A UNIFORM SURFACE.

 A PAPY LIMITED FOR HIS PRESENCE ACCORDING TO SOIL TEST IF SOIL
 TESTING IS NOT DESIGNED PRESENT. ON SMALL OR MANAGER STEEL, OR
 TESTING IS NOT DESIGNED PRESENCE OF A SMALL OR MANAGER STEEL, OR
 TOOD POUNDS PER ACKE OR 7.5 POUNDS PER 1,000 SOULARE TEST USING
 10—10—10 (M—P205—220) OR COUMMLENT, APPLY GROUND LIMITED TO
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- C. FOLLOWING SEED BED PREPARATION, DITCHES AND BACK SLOPES WILL BE SEEDED WITH A MIXTURE OF 47% CREEPING RED FESCUE, 3% REDTOP, AND 48% THAT LEFSCUE HE LAWN AFCRS WILL BE SEEDED WITH A PRESAUNT THUM BROTH OF 44% NEWTHORY BLUEDRASS, 44% CREEPING PRICE STATES AND ARTHUR HE STATES SEEDENG RIVE IS 3.0 PROMISED FOR 1,000 SQUARE FEET, LUMIN QUALITY SOOD MAY 66 SUBSTITUTED FOR SEED.
- D. HAY MULCH AT THE RATE OF 2 TONS PER ACRE OR 90-95 POUNDS PER 1,000 SQUARE FEET OR A HYDRO-APPLICATION OF CELLULOSE FIBER SHALL BE APPLIED FOLLOWING SEEDING. A SUITABLE BINDER WILL BE USED ON HAY MULCH FOR WIND CONTROL.
- ALL TEMPORARY EROSION CONTROL MEASURES SHALL BE REMOVED ONCE THE WORK AREA IS STABILIZED.
- 12, WETLANDS (EXCEPTING THOSE WHICH ARE TO BE FILLED IN ACCORDANCE WITH STATE AND FEDERAL REGULATIONS) WILL BE PROTECTED WITH SILT FENCE INSTALLED AT THE EDGE OF THE WETLAND OR THE BOUNDARY OF WETLAND DISTURBANCE.
- 13. IN GENERAL, AREAS WITHIN 100 FEET OF DELINEATED WETLANDS OR STREAMS SHALL HAVE A MAXIMUM PERIOD OF EXPOSURE OF NOT MORE THAN 15 DAYS.
- 14. FOLLOW APPROPRIATE EROSION CONTROL MEASURES PRIOR TO EACH STORM IN ALL AREAS WITHIN 100 FEET OF DELINEATED WETLANDS OR STORMS.
- 15. ALL STORN DRAINAGE INLETS SHALL BE PROTECTED BY SILT SACKS TO PREVENT ENTRY OF SEDIMENT FROM RUNDRY MATES DURING CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THESE DEVICES, FOR THE REMOVAL AND DISPOSAL OF ALL COLLECTED SEDIMENT, AND THAT WHICH COLLECTS IN THE STORM DANNE STITEM.
- 16. CONTRACTOR SHALL CONTROL DUST ON THE CONSTRUCTION SITE TO A REASONABLE LIMIT, AS DETERMINED BY THE ENGINEER, AND AS OUTLINED IN SPECIFICATION SECTION 01562.
- 17, CONTRACTOR SHALL NOT TRACK OR SPILL EARTH, DEBRIS OR OTHER CONSTRUCTION MATERIAL ON PUBLIC OR PROATE STREETS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE IMMEDIATE ASSOCIATED CLEAN UP, STREETS OPEN TO THE PUBLIC SHALL BE KEPT SWEPT AND FREE OF DEBRIS.

EROSION CONTROL DURING WINTER CONSTRUCTION:

- 1. WINTER CONSTRUCTION PERIOD DEFINED: NOVEMBER 1 THROUGH APRIL 15.
- 3. EXPOSED AREA SHOULD BE LIMITED TO THAT WHICH CAN BE MULCHED IN ONE DAY PRIOR TO ANY PRECIPITATION EVENT.
- 4. AN AREA SHALL BE CONSIDERED TO HAVE BEEN STABILIZED WHEN EXPOSED SUPPLIES HAVE BEEN ETHER MULCHES WITH STRAW FOR HAY AT A DATE OF DORMANT SEED, MULCHES, NAM DECOUNTY ANCHORED BY AN APPROVED ANCHORING TECHNOLE IN ALL CASES, MULCH SHALL BE APPLIED SUCH THAT SOLL SUPPLIES THROUGH THE MULCH.
- THAT SOL SURFACE IS NOT VISIBLE THROUGH THE MULCH.

 NOT BE REQUIRED, DURING PERRODS OF AGOVE-PRESENCE TEMPERATURES.

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 OF TEMPORARY SEEDED AND MULCHED URIN. SOUTH THE AS THE PROPERTY OF THE PARTY OF THE P
- A) BETWEEN THE DATES OF NOVEMBER 1 AND APRIL 1S, ALL MULCH SHALL BE EITHER WOOD CELLULOSE FIBER OR BE ANCHORED WITH MULCH METTING OR CHEMICAL TACK.
- B) MULCH NETTING SHALL BE USED TO ANCHOR MULCH IN ALL DRAINAGE WAYS WITH A SLOPE GREATER THAN 3%, FOR SLOPES EXPOSED TO DIRECT WINDS AND FOR ALL OTHER SLOPES GREATER THAN 8%.
- C) MULCH NETTING SHALL BE USED TO ANCHOR MULCH IN ALL AREAS WITH SLOPES GREATER THAN 15%. AFTER OCTOBER 1, THE SAME APPLIES FOR ALL SLOPES GREATER THAN 8%.
- AFTER NOVEMBER 1, THE CONTRACTOR SHALL APPLY DORMANT SEEDING OR MULCH AND ANCHORING ON ALL BARE EARTH AT THE END OF EACH WORKING DAY.
- DURING WINTER CONSTRUCTION PERIODS, ALL SNOW SHALL BE REMOVED FROM AREAS OF SEEDING AND MULCHING PRIOR TO PLACEMENT.

MULCH ANCHORING:

ANCHOR MULCH WITH: MULCH NETTING (AS PER MANUFACTURER); ASPHALT EMULSION (0.05 GALLONS PER SQUARE YARD); CHEMICAL TACK (AS PER MANUFACTURER'S SPECIFICATIONS); OR BE WOOD CELLULOSE FIBER (2,000 POUNDS PER ACRE). WEITING FOR SMALL AREAS AND ROAD DITCHES MAY BE PERMITTED,

MULCH AND MULCH ANCHORING

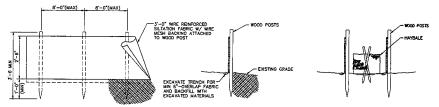
* SEED RATE ONLY

LOCATION	MULCH	RATE (1000 S.F.
PROTECTED AREA	STRAW OR HAY *	100 POUNDS
WINDY AREAS	STRAW OR HAY (ANCHORED) *	100 POUNDS
MODERATE TO HIGH VELOCITY AREAS OR STEEP SLOPES (GREATER THAN 3:1)	JUTE MESH, EXCELSIOR MAT, OR EQUIV.	AS REQUIRED

* A HYDRO-APPLICATION OF CELLULOSE FIBER MAY BE APPLIED FOLLOWING SEEDING. A SUITABLE BINDER SHALL BE USED ON HAY MULCH FOR WIND CONTROL.

ADDITIONAL TEMPORARY SEED MIXTURE (OR PERIODS LESS THAN 12 MONTHS)

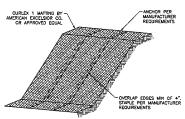
	IES	SEED	RATE
	'1 - 6/15 '15 - 9/15	OATS	86 LBS/ACRE
	'1 - 6/15 '1 - 10/15	ANNUAL RYE GRASS	40 LBS/ACRE
	'15 - 7/1 /15 - 10/15)	WINTER RYE	120 LBS/ACRE
5/	15 - 7/15	MILLET	20 LBS/ACRE



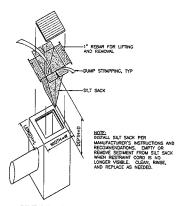
SILT FENCE INSTALLATION DETAIL



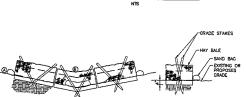
-4" EMBEDMENT



EROSION CONTROL MATTING - SLOPES

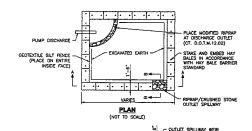


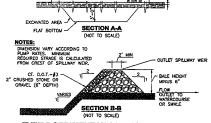
SILT SACK CATCH BASIN INLET



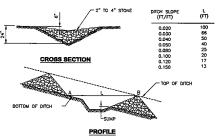
EROSION CHECK TO BE BALES OF HAY SECURED TO THE GROUND WITH TWO 4' LONG GRADE STAKES FOR EACH BALE. SAND BAG AS REQUIRED, PLACE SIFFICIENT BALES TO ESTABLISH ELEVATIONS AT (2) AT LEAST 6 INCHES ABOVE OVERFLOW AT (2).

HAY BALE CHECK DAM





TYPE II SEDIMENTATION BASIN DETAIL



STONE CHECK DAM DETAIL

t, CONNECTI EXTENTION

N OF SOUTH W

WRIGHT-PIERCE Engineering a Better Envir

888.621.8156

DETAILS

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DNE DY 1/18
DNE DY 1/16
DNE

DRAWING

Manfre, Anthony

From: Deborah Migneault <deb.migneault@gmail.com>

Sent: Tuesday, February 6, 2018 10:05 AM

To: Manfre, Anthony

Subject: email to WPCA members for the record

Hi Tony. As you know, we have have four very active children and my husband works a second job in the winter so I am stretched very thin. Unfortunately, I am not going to be able to make it to the public hearing tonight. Instead I am writing this email in hopes it can be placed in the public record and distributed to WPCA members.

Dear WPCA members,

As you know, we came to you back in the spring when our septic system was deemed failed and it was determined by two septic system companies and the town's health department that there were no possible way of installing a new septic system on our property. We came with a proposal to install a private line from our house to Cambridge Drive. We were prepared to pay for this in full. I am grateful that the WPCA was forward thinking and looked at the whole situation for our area on Miller Road and determined that there was a high likelihood that my neighbors would be coming to you with similar failed systems in the future with no alternatives. In truth, our current system was poorly designed, undersized and the soil that did not have sufficient drainage. It should have never been approved by the town back in the late 1980's. Other property owners in my area likely have the same soil drainage problems and property space issues. In fact, others in our area have already had failed systems and our neighbor's system has usage restrictions.

Thank you for your diligence in looking at all possible solutions and for doing so as expeditious as possible. We are grateful that there is some end in sight to our septic problems. We currently are not able to do any laundry and we have to limit any showers to only a few minutes. Sometimes we have to take showers at friends houses. We have to get our tank pumped every couple weeks in order to avoid backups. As you can imagine, we four children between 8 and 15 years old, It's been very difficult. Thank you for being understanding of our situation and for trying to find a solution.

We wholeheartedly support the construction of a sewer line on Miller Road. Not only will help our current situation it will also provide insurance to our neighbors who may find themselves in a similar situation later and add value to our properties.

With gratitude,

Deb Migneault 74 Miller Road

EXHIBIT D

SECTION 14 Sewer Benefit Assessments and Impact Fees

Preamble: This SECTION 14 establishes the assessments and fees for the connection to the Town of South Windsor Water Pollution Control Authority ("WPCA") facilities. Specifically, this section establishes a formula for defining benefit assessments for connecting to the wastewater collection system and for allocating costs associated with the prior improvements to the capacity of the wastewater treatment system. This section applies to those property owners that connect to a newly constructed sewerage system and to those property owners that connect to an existing sewerage system that have not previously been assessed or paid for benefit assessments or capacity payments. Property owners connecting to WPCA facilities will be subject to benefit assessment payments and capacity fee payments, which together will constitute a sewer impact fee ("SIF").

Assessment of benefits. Pursuant to Section 7-249 of the Connecticut General Statutes ("C.G.S.") the Town of South Windsor Water Pollution Control Authority ("WPCA") is authorized to levy benefit assessments in accordance with the following grant of statutory authority, which states in part:

At any time after a municipality, by its water pollution control authority, has acquired or constructed, a sewerage system or portion thereof, the water pollution control authority may levy benefit assessments upon the lands and buildings in the municipality which, in its judgment, are especially benefited thereby, whether they abut on such sewerage system or not, and upon the owners of such land and buildings, according to such rule as the water pollution control authority adopts.

The following formula shall be used to calculate the benefit assessment of residential and nonresidential properties:

A. Residential Sewer Benefit Assessment calculation for a new town funded sewer installation where the Town will recover a minimum or 80% of the construction cost:

Benefit Assessment = <u>EDU* x (80% of Project Cost)</u> # of Properties

^{*} Equivalent Dwelling Unit (EDU): The unit of measure by which the Capacity Charge for sanitary sewer services provided by the South Windsor sewer system is calculated and imposed upon each improved property served by the sewer system. See sewer assessment schedule for EDU ratio.

B. A previously installed sewer without a paid assessment (Residential/Nonresidential):

Benefit Assessment = Minimum Zone Frontage** x Price per linear foot (to be Set by WPCA)

**As defined by Table 3.1.2A of the Town of South Windsor Planning and Zoning Regulations

Capacity Charges.

Pursuant to Section 7-255 of the Connecticut General Statutes ("C.G.S.") the WPCA is authorized to establish charges for the use of the sewerage system in accordance with the following grant of statutory authority, which states in part:

The water pollution control authority may establish and revise fair and reasonable charges for connection with and for the use of a sewerage system. The owner of property against which any such connection or use charge is levied shall be liable for the payment thereof.

The WPCA shall periodically establish a capacity charge for new connections to the sewerage system. The Capacity Charge shall be calculated by using Equivalent Dwelling Units. Equivalent Dwelling Units (EDU) shall be used as the basis to calculate the Capacity Charge for residential and non-residential properties. A calculation worksheet will be established in accordance with statutory requirements and will be available at the Water Pollution Control office. For Commercial and Industrial properties, the size of the building water meter shall be used to determine the EDU factor. For Residential properties, the EDU will be determined by the number of bedrooms in a dwelling.

The following formula shall serve to calculate the capacity charge:

Capacity Charge = EDU* x Base Fee (Set by WPCA)

* Equivalent Dwelling Unit (EDU): The unit of measure by which the Capacity Charge for sanitary sewer services provided by the South Windsor sewer system is calculated and imposed upon each improved property served by the sewer system. See sewer assessment schedule for EDU ratio.

A Capacity Charge shall not be levied against property owners that have paid a benefit assessment prior to January 1, 2018.

14.1 Sewer Impact Fee. The benefit assessment and the capacity charge together shall constitute the Sewer Impact Fee ("SIF") for new connections to the sewerage system. Property owners that connect to the sewerage system after the effective date of this regulation shall pay a SIF at the time of connection, unless such payment is subject to a statutory installment payment recorded on the land records.

A Sewer Impact Fee shall be levied when:

- A. A public sanitary sewer system is constructed and properties so served by the sewer system connect for service;
- B. When an existing sewer is available to a property that has not previously paid a sewer benefit assessment;
- C. When a land developer installs a sewer and a property is connected to said sewer either during construction or after the Town takes ownership;
- D. After the addition of a bedroom(s) at a Residential property; or
- E. After the modification of building size and/or use of a Residential, Commercial or Industrial building.
- 14.2 A Sewer Impact Fee will not be levied on an existing property that has previously paid a benefit assessment unless 14.1 A-E applies.

Payment of Sewer Impact Fee

- 14.3(?) The SIF will be levied at rates established as of the date of the sewer connection. At no time shall a rebate of the SIF be paid back for the reduction of bedrooms, the modification of a building or the modification of the building use.
 - A. Residential property owners whose SIF is part of a Town funded sewer project may elect to pay said charges in 15 equal installments upon connection to the sewer. The first installment shall be due in the following month of November or May with no less than 30 days prior notice with subsequent installments shall be due annually thereafter on said due date. There shall not be a penalty for early payment of the outstanding balance.
 - The installments in the case of assessments that are a part of a sewer project which is funded by bonds or notes shall bear interest at the maximum rate of interest the Town if obligated to pay on such bonds or notes. In the case of assessments which are not funded by bonds or notes, installments shall bear an interest rate equal to the maximum interest rate charged to the Town on the most recently bond or note funded project.
 - B. A sewer impact fee for a Town installed sewer at its expense is due and payable at the time of connection. If the sewer was installed by a property owner at his expense, said property owner shall not be charged the benefit assessment portion of the sewer impact fee.

- C. If an existing property owner connects to a sewer installed by a private developer at its expense prior to Town acceptance of said sewer, and pays the developer for same, said property owner shall not be charged a benefit assessment subsequent to the Town's acceptance of the line. Any other property owner who does not connect to the sewer shall not be charged until the time of connection, and at such time, would be charged at the current rate in effect.
- D. If a private developer installs a main sewer line at its expense within a subdivision, he shall not be charged the benefit assessment portion of the sewer impact fee for the property within said subdivision fronting on said line. The capacity charge will be due at the time of connection.

14.6 Any owner of real property who is eligible for tax relief for elderly taxpayers under the provisions of Section 12-129b and 12-170a of the General Statutes may apply to the Water Pollution Control Authority for approval of a plan of payment of such property owner's Sewer Impact Fees other than as provided under Section 7-253 of the General Statutes. Said plan may include an option to pay only the annual interest charge, as provided in said Section 7-253 on any deferred payments of outstanding balance of principal of said Sewer Impact Fees. Any such plan shall provide that the outstanding balance of principal deferred under such optional method payment shall become due upon any transfer of title to the property subject to such Sewer Impact Fees or upon the death of such property owner. Said plan shall become effective upon the approval of the Water Pollution Control Authority and shall be subject to annual review and reapproval by the Water Pollution Control Authority.

14.7 A caveat shall be placed on a property's land record when said property has public sewer available but is not connected. Said caveat shall be removed from the land record when said property connects to the public sewer system.

Definitions

Assessment of Benefits: As stated by State Statute 103 Section 7-249.

Residential Unit: A dwelling for one family only, either in a portion of a building occupied by two or more families, or in a single detached dwelling; or a separately sealable, rentable and/or transferable portion or section of a building under construction renovation.

Sewer Impact Fee: Capacity fees are one-time payments used to fund capital improvements needed to expand the utility systems. The capacity charge is proportionate and related to the capital facility demands of the new development. A Sewer Impact Fee shall be assessed on all new or expanded service connections to the public sewer system as published in the fee schedule. The Sewer Impact Fee shall be proportionate to the cost of providing sewer to previously unserved properties and all changes in use that increase water flow to the sewer system.

Capacity Charge: A charge on new connections to the sewer system so that such new connections contribute a pro-rata share of the costs of the system capacity and facilities needed to provide service for such new connections. The fee shall reflect the appropriate amount of the share for that connection to the assets in the utility system and shall be calculated based on equivalent dwelling units.

Equivalent Dwelling Unit: The unit of measure by which the Capacity Charge for sanitary sewer services provided by the South Windsor sewer system is calculated and imposed upon each improved property served by the sewer system.

Change of Use: As defined by the Planning Dept. or Town Assessor.

Modification: As defined by the Tax Assessor office.

Bedroom: As defined by the Tax Assessor office.

3.1.2 Residential Area, Density and Dimensional Requirements

A. Except as provided for existing lots in Section 2.5 Building on Existing Nonconforming Lots, no building shall hereafter be erected, enlarged, altered or rebuilt, or premises used except in conformity with these regulations, and as prescribed in the schedule which is part of this section and is labeled Table 3.1.2A Residential Area, Density and Dimensional Requirements.

Table 3.1.2A Residential Area, Density and Dimensional Requirements

	Minimun		ASSESSMENT OF THE PARTY OF THE	SECURIOR SE	SECURE AND LAND		Jimensio		ximum	
-District	Lot Area (sq. ft.)	Frontage (feet)	Lot Depth (feet)	Front Yard ⁽³⁾ (feet)	Rear Vard (feet)	Side Yard ³⁾ (feet)	Stories	Height (feet)	Lot Cover- age	Impervious Coverage
RR	40,000	175	200	50	50	20	2½	30	15%	
A-40	40,000	150	200	50	50	20	21/2	30	15%	
AA-30	30,000	150	150	50	50	20	21/2	30	15%	
A-30	30,000	120	150	50	50	15	21/2	30	15%	
A-20	20,000	100	150	40	40	10	2½	30	20%	
DRZ ⁽⁴⁾	none	200	200	40	40 ⁽⁵⁾	40 ⁽⁵⁾	2½ ⁽⁶⁾	30	20%	30%
MFA/AA	15 acres ⁽⁷⁾	200	200	75	35 ⁽⁸⁾	25 ⁽⁸⁾	2	35	· ·	60%

⁽¹⁾ Lots with frontage on Buckland Road or Sullivan Avenue have a minimum lot width of 150 feet. Where the requirements of Table 3.1.2A are greater, the Table 3.1.2A requirements apply.

- **B.** Each approved residential lot shall contain a contiguous buildable area ("buildable" defined as exclusive of regulated wetlands and watercourses, waterbodies, detention areas, utility easements, rights-of-way, or areas with slopes at or in excess of 15%) of at least 10,000 square feet, into which a square of 90' x 90' can be located, and on which the dwelling must be located. This restriction as to building location applies only to those lots that contain wetlands and watercourses, waterbodies, detention areas, utility easements, rights-of-way, or areas with slopes at or in excess of 15%.
- C. Minimum yards shall be in addition to buffer widths, where such buffers are required by the Commission.

⁽²⁾ Lots with frontage on Buckland Road or Sullivan Avenue have a minimum front yard setback of 50 feet. Where the requirements of Table 3.1.2A are greater, the Table 3.1.2A requirements apply.

⁽³⁾ Buffers are in addition to required side/rear yards.

⁽⁴⁾ See additional provisions in Section 3.3 Designed Residence Zone.

⁽⁵⁾ Landscaping required in setback areas.

⁽⁶⁾ Habitable attics are permitted; however, such habitable attic shall count as a half story.

⁽⁷⁾ Lot area must be contiguous acres not divided by a public street. The entire site shall be located in the MF district. Land contained within the Flood Plain District may not apply toward the minimum site size, however, may be dedicated for open space uses subject to the requirements of the Flood Plain District.

⁽⁸⁾ Where a buffer is required, the rear and side yards shall be a minimum of 25 feet.

3.1.2 Residential Area, Density and Dimensional Requirements

A. Except as provided for existing lots in Section 2.5 Building on Existing Nonconforming Lots, no building shall hereafter be erected, enlarged, altered or rebuilt, or premises used except in conformity with these regulations, and as prescribed in the schedule which is part of this section and is labeled Table 3.1.2A Residential Area, Density and Dimensional Requirements.

Table 3.1.2A Residential Area, Density and Dimensional Requirements

	Minimum Lot and Area Requirements							Maximum			
District	Lot Area (sq. ft.)	Frontage (feet)	Lot Depth (feet)	Front Yard ² (feet)	Rear Yard (feet)	Side Yard ³ (feet)	Stories	Height (feet)	Lot Cover- age	Impervious Coverage	
RR	40,000	175	200	50	50	20	21/2	30	15%		
A-40	40,000	150	200	50	50	20	21/2	30	15%		
AA-30	30,000	150	150	50	50	20	2½	30	15%		
A-30	30,000	120	150	50	50	15	21/2	30	15%		
A-20	20,000	100	150	40	40	10	21/2	30	20%		
DRZ ⁽⁴⁾	none	200	200	40	40 ⁽⁵⁾	40 ⁽⁵⁾	21/2(6)	30	20%	30%	
MFA/AA	15 acres ⁽⁷⁾	200	200	75	35 ⁽⁸⁾	25 ⁽⁸⁾	2	35		60%	

⁽¹⁾ Lots with frontage on Buckland Road or Sullivan Avenue have a minimum lot width of 150 feet. Where the requirements of Table 3.1.2A are greater, the Table 3.1.2A requirements apply.

- **B.** Each approved residential lot shall contain a contiguous buildable area ("buildable" defined as exclusive of regulated wetlands and watercourses, waterbodies, detention areas, utility easements, rights-of-way, or areas with slopes at or in excess of 15%) of at least 10,000 square feet, into which a square of 90' x 90' can be located, and on which the dwelling must be located. This restriction as to building location applies only to those lots that contain wetlands and watercourses, waterbodies, detention areas, utility easements, rights-of-way, or areas with slopes at or in excess of 15%.
- C. Minimum yards shall be in addition to buffer widths, where such buffers are required by the Commission.

⁽²⁾ Lots with frontage on Buckland Road or Sullivan Avenue have a minimum front yard setback of 50 feet. Where the requirements of Table 3.1.2A are greater, the Table 3.1.2A requirements apply.

⁽³⁾ Buffers are in addition to required side/rear yards.

⁽⁴⁾ See additional provisions in Section 3.3 Designed Residence Zone.

⁽⁵⁾ Landscaping required in setback areas.

⁽⁶⁾ Habitable attics are permitted; however, such habitable attic shall count as a half story.

⁽⁷⁾ Lot area must be contiguous acres not divided by a public street. The entire site shall be located in the MF district. Land contained within the Flood Plain District may not apply toward the minimum site size, however, may be dedicated for open space uses subject to the requirements of the Flood Plain District.

⁽⁸⁾ Where a buffer is required, the rear and side yards shall be a minimum of 25 feet.

SOUTH WINDSOR ZONING REGULATIONS

Section 7.14 Open Space Subdivisions

Table 7.14.5A Lot Area, Frontage, and Yard Requirements

Minim	num Lot Area		
RR, A-40	20,000 square feet		
A-30, AA-30	15,000 square feet		
Minimum Lot Frontage	75 feet		
Minimum Front Yard	40 feet		
Minimum Side Yard	10 feet		
Minimum Rear Yard	20 feet		
Minimun	n Lot Coverage		
RR, A-40, AA-30, A-30	20%		

Section 11.1 APPENDIX A

Open Space Requirements for Pre-1999 Open Space Subdivisions Appendix A

Appendix A						
Zone	Minimum	Minimum	Minimum			
	Lot Area	Lot Width	Lot Depth			
RR	20,000 sq ft	100 ft	150 ft			
A-40	30,000 sq ft	120 ft	150 ft			
AA-30	25,000 sq ft	120 ft	125 ft			
A-30	20,000 sq ft	100 ft	125 ft			
A-20	15,000 sq ft	90 ft	110 ft			
Zone	Minimum	Minimum	Minimum			
	Front Yard	Rear Yard	Side Yard			
RR	50 ft	50 ft	10 ft			
A-40	50 ft	50 ft	15 ft			
AA-30	50 ft	40 ft	15 ft			
A-30	50 ft	40 ft	10 ft			
A-20	40 ft	30 ft	10 ft			
Zone	Maximum	Maximum	Maximum % Lot			
	Stories	Height	Coverage			
RR, A-40, AA-30,						
A-30, A-20	2 ½	30 ft	15%			

RESIDENTIAL SANITARY SEWER IMPACT FEE CALCULATION WORKSHEET

1.	OWNER INFORMATION			2. PROPERTY INFORMATION			
LAST NAME	FIRST NAME		ADDRESS	· · · · · · · · · · · · · · · · · · ·			
COMPANY (IF APPLICA	ABLE)		SUBDIVISION/COMPLI	EX NAME			
STREET ADDRESS			LOT (IF APPLICABLE)				
CITY	STATE ZIP		TOWN				
	PERTY EVER HAD A BUILDING		O THE SEWER SYSTEM	N?			
	IF "YES" SKIP TO STEP 6 TO CA IF "NO" CONTINUE TO STEP 4						
	PERTY PAID A PREVIOUS ASS	ESSMENT?					
[] YES [] NO	IF "NO" CONTACT WPC OFFIC	E (860) 644-2511					
4. CONNECTION TY							
	WELLING - NEW CONSTRUCTION	ı		EDU			
[] MULTI FAMILY DV	WELLING PUSE - NEW CONSTRUCTION		_	EDU			
				EDU			
5. ASSESSMENT CA TOTAL NUMBER OF				EQUIVALENT DWELLING UNIT RATIO TABLE			
EDUs			EDU	# OF BEDROOMS			
CAPACITY FEE PER EDU	x \$ 8,642.64		0.75	2 OR LESS			
	X 7 0,042.04		1.25	3 4			
TOTAL	\$		1.5	5			
	OFFICE USE ONLY		2	6			
TOTAL EDUs	OFFICE USE UNLT		3 4	7-9 10-12			
TOTAL EDGS			5	13-15			
TOTAL CHARGE	\$		6 7	16-18 19-21			
COMMENTS:			8	22-24			
			9 10	25-27 28-30			
REVIEWED BY	DATE		OVER 10	1 EDU/3 BEDROOMS OVER 30			
ADDITION	I TO RESIDENTIAL DWELL	ING					
6. PREVIOUS CONN	NECTION TYPE			FOLINALENT DIMELLING LIMIT DATIG TABLE			
[] SINGLE FAMILY		EDU		EQUIVALENT DWELLING UNIT RATIO TABLE			
[] MULTI FAMILY I [] CONDO/TOWNI		EDU EDU	0.75	# OF BEDROOMS 2 OR LESS			
,			1	3			
7. PROPOSED CON	NECTION TYPE		1.25	5			
[] SINGLE FAMILY	DWELLING	EDU	2	6			
[] MULTI FAMILY [] CONDO/TOWN!		EDU EDU	3 4	7-9			
			5	10-12 13-15			
B. EDU CALCULATIO	ON .		7	16-18			
SUBTRACT PROPOSED		EDU	8	19-21 22-24			
PREVIOUS EDU	(minus) =	EDU	9	25-27			
	-1	EDU	10 OVER 10	28-30 1 EDU/3 BEDROOMS OVER 30			
	ant/owner do hereby certify to the foll			ndsor standards, most recently amended version, and			
			and that form of booth will	assor station os, most recently amended version, and			
	compliance with the most recent versic ruction applied for herein is subject at			of the building sewer by the Town of South Windsor, and			
. I understand that any vi ermits until said correctio	iolation incurred may result all legal an ons are made.	d equitable remedy a	llowed by Federal, State, and	d Local law, including the denial of future Sanitary Sewer Connection			
SIGNATO	URE OF APPLICANT	DATE		RELATIONSHIP TO OWNER			

COMMERCIAL/INDUSTRIAL SANITARY SEWER IMPACT FEE CALCULATION WORKSHEET

1. OW	NER INFORMA	TION		2 DPODE	RTY INFORMATION	
LAST NAME FIRST NAME			ADDRESS	Z. FROFE	RTTINFORWATION	
COMPANY (IF APPLICABLE)			SUBDIVISION	SUBDIVISION/COMPLEX NAME		
STREET ADDRESS			LOT (IF APPL	ICABLE)		
СІТУ	STATE	ZIP	TOWN			
3. HAS THIS PROPER	TY EVER HAD A	A BUILDING CONNEC	TED TO THE SEV	VER SYSTEM?		
[] YES [] NO		O STEP 6 TO CALCULAT NUE TO STEP 4	E EDU		-	
4. REASON FOR APPL	ICATION			5. CONNECTION T	VDE	
	NG MODIFICATION	ON		[] COMMERCIAL	TFE	
[] CHANG	TR FLOW GIVER A STERVE		[] INDUSTRIAL			
[] CHANG	E IN WASTEWAT	ER FLOW CHARACTERIS	TICS		<u></u>	
6. EDU CALCULATION	(USE TABLE T	O THE RIGHT)		FOLIIVALEN	IT DWELLING UNIT RATIO TABLE	
				EDU	WATER METER SIZE (inches)	
LATERAL SIZE	# OF LATERALS	EDU RATIO		1	< 1	
				2	1	
				3	1.5	
				4	2	
	TOTAL EDUs			6	3	
7. SEWER IMPACT FEE C	ALCHI ATION			8	4	
	<u> </u>			12	6	
TOTAL NUMBER	OF EDUS			20	8 10	
CEVVED IN ADA CT E				24	12	
SEWER IMPACT FE	EE PER EDU	x \$			12	
SU	BTOTAL				OFFICE USE ONLY	
CAPACITY CH	IARGE	x \$ 8642.64		TOTAL EDUs		
TOTAL ASSES	SMENT	\$		TOTAL CHARGE		
				COMMENTS:	\$	
I, the undersigned, applicant,	/owner do hereby	ertify to the following:		REVIEWED BY	DATE	
			ct accordance with To	own of South Windsor stan	dards, most recently amended version, and	
2. I agree to construct in com						
3. I understand that construct	tion applied for here	ein is subject at all times to i	inspection, approval a	and acceptance of the build	ling sewer by the Town of South Windsor, and	
4. I understand that any viola Connection Permits until said	tion incurred may re corrections are mad	esult all legal and equitable de.	remedy allowed by Fe	ederal, State, and Local law	, including the denial of future Sanitary Sewer	
SIGNATURE OF	APPLICANT	DATE		DEI	ATIONSHIP TO OWNER	

Table 1 - DRAFT
Connection to Sewer Fee Summary Table

	Connection to Sewer	Connection	Capacity	Sewer Benefit	
	Senario	Charge	Charge	Assessment	When Paid
Α	Town Installed Sewer-new	Yes	EDU X Base Fee	EDU X(80% Actual Cost/Total # of properties	At Time of Connection
<u>.</u>	Town Installed Sewer-no previous				
В	Assessment	Yes	EDU X Base Fee	Zone Frontage X \$ /LF	At Time of Connection
	Previously Town Installed Sewer				
С	with unpaid Assessment	Yes	*	*	At Time of Connection
•	Previously Town Installed Sewer				
D	with Previous paid Assessment	Yes	No	No	At Time of Connection
	Developer Installed Sewer- Connect				
Ε	during construction	Yes	EDU X Base Fee	No	At time of Connection
	Developer Installed Sewer- Connect				
F	after Town Takes over	Yes	EDU X Base Fee	No	At Time of Connection
	Modification of building size and/or				
G	use	No	Δ EDU X Base Fee	No	At Time of building Modification

Notes:

*-Refer to Assessment of Record
For EDU refer to Table 2 For EDU Calculation
For Zone Frontage refer to Table 3 and Annual Fee Schedule
For Base Fee refer to Annual Fee Schedule

SECTION 6

USE OF THE PUBLIC SEWERS

- No person shall discharge or cause to be discharged any stormwater, surface water, groundwater, roof runoff, subsurface drainage, uncontaminated cooling water, or unpolluted industrial process waters to any sanitary sewers. Further, no person shall open the cover of, enter, or alter any manhole or similar appurtenance of any public sewer, or deposit any wood, sticks, unshredded garbage or other material which said sewer, drain, manhole or appurtenance thereto was not intended to receive.
- No user shall contribute or cause to be contributed, directly or indirectly, any pollutant or wastewater which will interfere with the operation or performance of the sewerage system. These general prohibitions apply to all such users of the Town of South Windsor sewerage systems whether or not the user is subject to National Categorical Pretreatment Standards or any other Federal or State Pretreatment Standards or requirements. A user shall not contribute the following substance to any sewerage systems:
 - (a) Any gasoline, benzene, naphtha, fuel oil, or other flammable or explosive liquid, solid, or gas.
 - (b) Any waters or wastes containing toxic or poisonous solids, liquids or gasses in sufficient quantity, either singly or by interaction with other wastes, to injure or interfere with any sewage treatment process, constitute a hazard in the receiving waters or the sewage treatment plant, including but not limited to cyanides in excess of (.1) ppm. as cyanide in the wastes as discharged to the public sewer. At no time shall two successive readings on an explosion hazard meter at the point of discharge into the system; be more than five (5%) percent nor any single reading over ten (10%) percent of the Lower Explosive Limit (LEL) of the combustible gas.
 - (c) Any waters or wastes having a pH lower than 5.5 5 or having other corrosive property capable of causing damage or hazard to structures, equipment, and personnel of the sewerage system.

- indicated by weight or by volume. For any of the following: (See attached addendum at the end of this section.)
- (g) Any radioactive wastes or isotopes of such life or concentration as may exceed limits established by the Superintendent in compliance with applicable State or Federal regulations.
- (h) Any water or wastes have a pH in excess of 9.5 10.
- (i) Materials which exert or cause:
 - (1) Unusual concentration of inert suspended solids (such as, but not limited to, Fuller's earth, lime slurries and lime residues) or of dissolved solids (such as, but not limited to, sodium chloride and sodium sulfate).
 - (2) Excessive discoloration (such as, but not limited to, dye wastes and vegetable tanning solutions) as determined by the State of Connecticut DEP.
 - (3) A five (5) day BOD greater than 212 mg/1 by weight or suspended solids greater than 238 mg/1 by weight or a chlorine demand greater than 15 mg/1 by weight such as to constitute a significant load on the sewage treatment works.
 - (4) An unusual volume of flow or concentration of wastes constituting "slugs" as defined herein.
- (j) Water having an average daily flow greater than 3.5% 5% of the average daily Town's wastewater treatment plants designed flow of the Town.
- (k) Water or wastes containing substances which are amenable to treatment only to such degrees that the sewage treatment plant effluent cannot meet the requirements of other agencies having jurisdiction over discharge to the receiving waters.
- If any waters or wastes are discharged or proposed to be discharged to the public sewers which waters contain the substances or possess the characteristics enumerated in Section 6.3 and which may have a deleterious effect upon the sewage works, processes, equipment or receiving waters or which otherwise create a hazard to life or constitute a public nuisance, the Superintendent may:
 - (a) Disapprove the waste discharge and take action to prohibit it.

SECTION 9

PENALTIES

- Any person found to be violating any provision of these regulations, except Section 7, shall be served by the Authority with written notice stating the nature of the violation and providing a reasonable time limit for satisfactory correction thereof. The offender shall, by the expiration of the time limit stated in such notice, permanently cease all violations.
- Any person who shall continue any violation beyond the time limit provided for in Section 9.1 or any person who shall commit any violation of Section 7 shall be guilty of a misdemeanor, and upon conviction thereof shall be fined ninety nine (\$99.00) two hundred fifty (\$250) dollars for each violation. Each day in which any such violation shall continue shall be deemed a separate offense.