



**ROBERT G. CAMPBELL & ASSOCIATES, L.P.**

7523 Taggart Lane  
Knoxville, TN 37938  
(865) 947-5996  
Fax (865) 947-7556

2540 Sand Pike Blvd., Suite 3  
Pigeon Forge, TN 37863  
(865) 366-2516  
Fax (865) 947-7556

September 20, 2018

Mr. Vojin Janjic'  
Manager, Water Based Systems  
Tennessee Dept. of Environment and Conservation  
Division of Water Resources  
William R. Snodgrass – Tennessee Tower  
312 Rosa L. Parks Ave., 11<sup>th</sup> Floor  
Nashville, TN 37243-1102

TN Dept. of Env. & Conservation  
SEP 24 2018  
Division of Water Resources

Re: Sewer Line Improvements  
Raccoon Valley Road Area  
City of Maynardville  
Union County, Tennessee  
RGC Project No. 18110

Dear Mr. Janjic':

Enclosed herewith for your approval are four copies of the plans for 925 linear feet of 8" sewer line in the Raccoon Valley Road area within the City of Maynardville sewer system. Sewer capacity calculations are enclosed.

A review fee check of \$100.00 is enclosed. If you have comments or questions, please advise.

Sincerely Yours,



Robert J. Colvin, P.E.  
RJC/mb

Cc: Mr. Jack Rhyne

WPN18-0801

**SEWER CAPACITY ANALYSIS**  
**City of Maynardville**  
**Raccoon Valley Road Area**  
**Union County**  
**RGCA PROJECT NUMBER 18110**

LINES	FROM MANHOLE	TO MANHOLE	LENGTH (FT)	HOUSES SERVED	TOTAL HOUSES SERVED	AVERAGE SEWAGE FLOW (GPD)	MAX SEWAGE FLOW (GPD)	PIPE DIAMETER	UPPER MANHOLE INVERT ELEV.	LOWER MANHOLE INVERT ELEV.	SEWER GRADE (%)	SEWER FALL (FT)	VELOCITY FLOWING FULL (FPS)	CAPACITY FLOWING FULL (MGD)
A	Existing	A-1	76.00	0	22	6600	26400	8 "	1050.92	1050.62	0.40%	0.30	3.64	0.82
	A-1	A-2	266.00	1	21	6300	25200	8 "	1056.40	1051.02	2.02%	5.38	8.18	1.84
	A-2	A-3	346.00	1	20	6000	24000	8 "	1063.47	1056.50	2.07%	6.97	8.28	1.87
	A-3	A-4	96.00	0	20	6000	24000	8 "	1065.49	1063.57	2.01%	1.92	8.16	1.84
	A-4	EX. P.S.	120.00	0	20	6000	24000	8 "	1075.14	1065.59	7.95%	9.55	16.24	3.66

WPN 18-0801

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