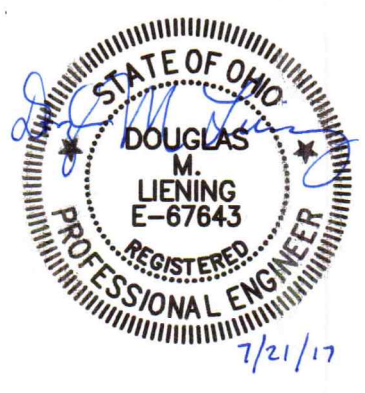
Detention Basin Storage (AS-BUILT)

Surface Ponding
Volume = (1/3)*(EL2-EL1)*[A1+A2+sqrt(A1*A2)]

DETENTION AREA ELEVATION (ft)	AREA (SF)	INCREMENTAL (SF)	INCREMENTAL VOLUME (CF)	TOTAL VOLUME (CF)	TOTAL VOLUME (AC-FT)
859.33	100.00	0.00	0.00	0.000	0.000
860.00	1405.07	1879.91	419.85	419.847	0.010
861.00	1783.00	4770.86	1590.29	2010.132	0.046
862.00	2199.24	5962.44	1987.48	3997.613	0.092
863.00	2666.65	7287.57	2429.19	6426.804	0.148
864.00	3561.00	9309.19	3103.06	9529.869	0.219
865.00	4466.49	12015.61	4005.20	13535.074	0.311
866.00	5855.94	15436.67	5145.56	18680.632	0.429

AS-BUILT DETENTION BASIN VOLUME =	**0.4288**	**AC-FT**
	18680.63	**CF**



STORMWATER STORAGE - ASBUILT

Upstream	Downstream	Material	Diameter (in)	Length (ft)	Capacity (cf)	Capacity (ac-ft)
1.1	1.2	HDPE	18	219	386.8	0.0089
1.2	1.3	HDPE	24	121	379.5	0.0087
1.3	1.4	HDPE	24	123	386.2	0.0089
1.4	1.5	HDPE	24	200	628.0	0.0144
1.5	1.6	HDPE	24	58	182.1	0.0042
1.6	1.7	HDPE	24	146	458.4	0.0105
1.7	1.8	HDPE	24	46	144.4	0.0033

Pipe total:	2565.53	CF
	0.0589	AC-FT

Detention Basin Storage (PROPOSED)

Surface Ponding
Volume = (1/3)*(EL2-EL1)*[A1+A2+sqrt(A1*A2)]

DETENTION AREA ELEVATION (ft)	AREA (SF)	INCREMENTAL (SF)	INCREMENTAL VOLUME (CF)	TOTAL VOLUME (CF)	TOTAL VOLUME (AC-FT)
859.75	0.00	0.00	0.00	0.000	0.000
860.00	1087.50	1087.50	90.63	90.625	0.002
861.00	1614.77	4027.44	1342.48	1433.103	0.033
862.00	2260.39	5785.66	1928.55	3361.657	0.077
863.00	3028.06	7904.67	2634.89	5996.546	0.138
864.00	3908.85	10377.29	3459.10	9455.644	0.217
865.00	5296.09	13754.84	4584.95	14040.591	0.322
866.00	6770.64	18054.88	6018.29	20058.884	0.460

PROPOSED DETENTION BASIN VOLUME =	**0.4605**	**AC-FT**
	20058.88	**CF**

AS-BUILT POND VOLUME =	**0.4288**	**AC-FT**
	18680.63	**CF**
AS-BUILT PIPE VOLUME =	**0.0589**	**AC-FT**
	2565.53	**CF**
TOTAL AS-BUILT VOLUME=	**0.4877**	**AC-FT**
	21246.16	**CF**