

**SAMPLE ANNUAL DRAINAGE MAINTENANCE ESTIMATE**



**RECEIVED**

Exhibit "D"  
 Drainage Maintenance Petition Cost Estimate  
 for  
 Villas at Tussic  
 Genoa Township, Delaware County, Ohio  
 5/12/2014

MAY 13 2014

DELAWARE COUNTY ENGINEER

Storm Pipe

HW1-1-2-3-4-5-6-7-8-9; 7-13; HW2-14-15-16-17-18-19-20; 17-21-22-23; HW3-24; HW4-36; HW5-41-42-43-44-45-88; 1-10

Storm Structure

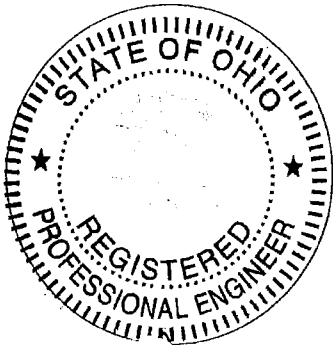
HW1, HW2, HW3, HW4, HW5, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 36, 41, 42, 43, 44, 45

Ref	Spec	Item No.	Description	Quantity	Units	Unit Cost	Item Cost
		203	Excavation/Embankment (Basin)	277	CY	\$5.00	\$1,385.00
		Spec	Weather Vane, Installed Complete	1	Each	\$500.00	\$500.00
		601	Rock Channel Protection	1	Lump	\$2,100.00	\$2,100.00
		604	Manhole Type C	7	Each	\$2,402.61	\$16,818.27
		604	Catch Basin 2x2	12	Each	\$1,141.87	\$13,702.44
		604	Catch Basin 3x3	3	Each	\$1,630.35	\$4,891.05
		604	Curb & Gutter Inlet	2	Each	\$1,453.76	\$2,907.52
		604	Precast concrete Headwall (10")	1	Each	\$2,151.85	\$2,151.85
		604	Precast concrete Headwall (15")	1	Each	\$2,151.85	\$2,151.85
		604	Precast concrete Headwall (18")	1	Each	\$2,151.85	\$2,151.85
		604	Precast concrete Headwall (24")	2	Each	\$2,971.60	\$5,943.20
		604	Outlet structure & Headwall	1	Each	\$5,000.00	\$5,000.00
		605	4" Pipe Underdrain	80	LF.	\$5.15	\$412.00
		901	10" Storm Pipe w/ Type I bedding	25	LF.	\$41.47	\$1,036.75
		901	12" Storm Pipe w/ Type I bedding	1397	LF.	\$41.47	\$57,933.59
		901	15" Storm Pipe w/ Type I bedding	362	LF.	\$46.39	\$16,793.18
		901	18" Storm Pipe w/ Type I bedding	258	LF.	\$50.91	\$13,134.78
		901	24" Storm Pipe w/ Type I bedding	364	LF.	\$68.00	\$24,752.00
		604	Manhole Type C w/ Neenah R3246-E Frame and Grate	4	Each	\$2,500.00	\$10,000.00

\*Estimate based on Delaware County Engineer's Unit Bid Prices

TOTAL STORM SEWER COST= **\$183,765.00**

TOTAL ANNUAL MAINTENANCE FEE (2%) = **\$3,675.30**



REGISTERED ENGINEER

DATE

DELAWARE COUNTY ENGINEER

DATE

PREPARED BY:

CHECKED BY:

CHECKED DATE: