

Ruggiano Engineering, Inc.
 Mar-16 Revised Feb-18
 Project Number: 10016

Village of Johnson, Vermont
 Johnson Mixed Use Park

Estimated Project Costs

Item Number	Item Description	Quantity	Units	Unit Cost	Item Cost
	Access Road (28' wide) (4,154 SY)				
406.25	Bituminous Concrete Pavement	829	TON	\$116	\$96,164
301.35	Subbase of Dense Graded Crushed Stone	2077	CY	\$33	\$67,856
203.31	Sand Borrow	692	CY	\$16	\$10,954
649.11	Geotextile Fabric	4154	SY	\$2	\$6,605
203.15	Common Excavation	3171	CY	\$9	\$28,507
	Water Supply (1390 LF)				
629.24	Waterline, 8" PVC C-900	1390	LF	\$60	\$83,400
629.28	Hydrant	3	EA	\$3,548	\$10,644
629.42	Transfer to a new system, water system	1	LS	\$1,000	\$1,000
629.27	Gate Valve with Valve Box	13	EA	\$1,339	\$17,407
204.2	Trench Excavation of Earth	1235	CY	\$14	\$17,870
625.1	Boring with PVC C-900 Sleeve	1	EA	\$30,000	\$30,000
203.31	Sand Borrow	309	CY	\$16	\$4,891
	Sewer Service (1,656 LF)				
628.35	PVC Sewer Pipe (8" sanitary sewer serv)	1656	LF	\$70	\$115,920
604.22	Sanitary Sewer Manholes	7	EA	\$3,267	\$22,866
	Boring (Route 15) w/ PVC C-900 Sleeve	1	EA	\$30,000	\$30,000
204.2	Trench Excavation of Earth	1472	CY	\$14	\$21,300
629.54	Crushed Stone Bedding (1.2 tons/CY)	184	TON	\$34	\$6,260
	Stormwater Controls				
601.2615	18" Culvert	365	LF	\$80	\$29,200
	Flared End Section	10	EA	\$300	\$3,000
	Route 15 Culvert, Swale Upgrade	1	EA	\$45,000	\$45,000
653.25	Temporary Stone Check Dam, Type I	7.5	CY	\$53	\$395
613.11	Stone Fill, Type II	1540	CY	\$37	\$57,365
	Signage & Striping				
646.41	Durable 4 inch Yellow Line (Road Centerline)	1050	LF	\$1	\$1,502
675.2	Traffic Signs, Type A	9	SF	\$12	\$107
	Power & Telephone				
	See attached Johnson DPW estimate	1	JOB	\$33,273	\$33,273
	Misc				
	Pole Mounted Lighting	8	EA	\$1,500	\$12,000
	Detention Pond	1	LS	\$30,000	\$30,000
	Relocate/Raise Poles	2	EA	\$10,000	\$20,000
	Site Prep, seed, mulch	1	LS	\$5,000	\$5,000
	Erosion Control	1	LS	\$10,000	\$10,000

	10% contingency	\$81,849
	Subtotal	\$900,334
	<i>Other Related Costs</i>	
	ACT250 fee (Potentially Exempt)	\$3,000
	Prime Agricultural Offset (ACT250)	\$40,513
	Engineering/Surveying/Permitting Fees	\$60,000
	Total	\$1,003,847
	<i>* Municipality may be exempt from permit application fees</i>	

Note: This estimate is preliminary only, and may not reflect or include all final costs associated with developing this property. Actual construction costs will vary depending on economic conditions, material costs and contractor work load. VTrans or other State agencies may require other improvements or upgrades, such as turn lanes, signs or traffic signals that are not included in this estimate.