Norton Town Offices

70 East Main Street | Elm & Cross Streets Norton, MA

January 25, 2019

Feasibility Estimate

Architect:

DBVW Architects 111 Chestnut Street Providence, MA 02903 401-831-1240 Project #: 216255

Cost Estimator:

Miyakoda Consulting PO Box 47 Raynham, MA (617) 799-5832





Norton Town Offices

Norton, MA

Introduction

Basis For The Estimate:

- 1 The project consists of Options for the Town of Norton
- 2 Sitework has been included.
- **3** This project will be built in one phase.

Project Particulars:

- 1 Estimate is based on Drawings from DBVW dated 12/17/2018 and VHB dated 11/2018
- **2** GSF provided by the architect. Building for Site 1 and 2 are the same.

Assumptions:

- 1 The project will be publicly bid amongst GC builders. This project will be bid with no less than four General Contractors bidding the project.
- Our costs assume that there will be competitive bidding in all trades and sub-trades i.e. at least three bids per trade or sub-trade
- 3 Unit rates are based on current dollars (prevailing wage rates)
- 4 Design Contingency is an allowance for unforeseen design issues, design detail development and specification clarifications
- 5 General Conditions and Requirements value covers Construction Manager's site office overhead and on-site supervision
- 6 Fee markup is calculated on a percentage of direct construction costs.

Exclusions within the Estimate:

- 1 Design fees and other soft costs
- 2 Interest expense
- 3 Owner's project administration
- **4** Construction of temporary facilities
- 5 Printing and advertising
- 6 Specialties, loose furnishings, fixtures and equipment beyond what is noted
- 7 Site or existing condition surveys and investigations





Norton, MA

Town Offices Main Summary For Site 2

	<u>DESCRIPTION</u>	,		<u>TOTAL</u>	<u>TOTAL</u>	COST/SF
1	Building Demolition			\$348,206		
2	Hazardous Waste Abatement			NIC		
3	Town Hall Site 2		24,281 GSF	\$8,060,204		\$331.96
4	Sitework Cost for Site 2				\$2,397,057	\$98.72
8	Trade Cost Subtotal			\$8,408,410	\$2,397,057	\$445.02
9	Design Contingency Trade Cost Total	10.00%		\$840,841 \$9,249,251	\$239,706 \$2,636,763	\$44.50 \$489.52
	Mark-ups (on Direct Trade Costs Subtotal)					
	General Conditions and Requirements	7.50%	\$9,249,251	\$693,694	\$197,757	\$36.71
	Insurance	1.40%	\$9,942,945	\$139,201	\$39,683	\$7.37
	Bonds	1.00%	\$10,082,146	\$100,821	\$28,742	\$5.34
	Permit		\$10,182,967	NIC	NIC	
	Fee	3.00%	\$10,182,967	\$305,489	\$87,088	\$16.17
10	Estimate Construction Cost Subtotal			\$10,488,456	\$2,990,033	\$555.10
	Escalation Allowance. Construction Start Nov 2020			\$1,03	7,844	
11	ECC Total, including Escalation			\$14,5	16,334	\$597.85





<u>Building Summary For Town Hall Site 1 and 2</u> 24,281 GSF

<u>ELEMENT</u>	<u>TOTAL</u>	<u>Total/GSF</u>
02 26 00 Hazardous Material Assessment 02-EXISTING CONDITIONS	Main Summary \$0	\$0.00
	·	
03 00 00 Cast-In-Place Concrete	\$422,452	\$17.40
03-CONCRETE TOTAL	\$422,452	\$17.40
04 00 00 Masonry	\$405,835	\$16.71
04-MASONRY TOTAL	\$405,835	\$16.71
05 10 00 Structural Steel Framing	\$693,825	\$28.57
05 30 00 Metal Decking	\$105,556	\$4.35
05 40 00 Cold Formed Metal Framing	\$0	\$0.00
05 50 00 Metal Fabrications	\$76,343	\$3.14
05-METALS TOTAL	\$875,724	\$36.07
06 10 00 Rough Carpentry	\$68,203	\$2.81
06 20 00 Finish Carpentry	\$364,215	\$15.00
06-WOOD AND PLASTICS TOTAL	\$432,418	\$17.81
07 10 00 Dampproofing and Waterproofing	\$159,105	\$6.55
07 20 00 Insulation	\$42,982	\$1.77
07 40 00 Roofing and Siding Panels	\$339,020	\$13.96
07 46 00 Siding	\$0	\$0.00
07 80 00 Firestopping & Fireproofing	\$12,141	\$0.50
07 92 00 Joint Sealants	\$0	\$0.00
07-THERMAL AND MOISTURE TOTAL	\$553,248	\$22.79
08 10 00 Doors & Frames	\$69,250	\$2.85
08 3 1 00 Access Doors & Panels	\$5,000	\$0.21
08 33 23 Coiling and Overhead Doors	\$9,075	\$0.37
08 34 53 Bullet Resistant Opening Protection	\$0	\$0.00
08 41 13 Aluminum Framed Entrances, Storefront	\$667,351	\$27.48
08 50 00 Windows	\$0	\$0.00
08 80 00 Glazing	\$16,600	\$0.68
08-DOORS AND WINDOWS TOTAL	\$767,276	\$31.60
09 21 00 Plaster and Gypsum Board Assemblies	\$597,141	\$24.59
09 30 00 Tile	\$193,642	\$7.98
09 51 00 ACT	\$99,129	\$4.08
09 65 00 Resilient Flooring Norton TH Site 1and2 25Jan2019	\$173,764 Summ	\$7.16 nary New Buildin
Printed 1/25/2019		Page 5 of 2



<u>Building Summary For Town Hall Site 1 and 2</u> 24,281 GSF

<u>ELEMENT</u>		<u>TOTAL</u>	<u>Total/GSF</u>
09 68 00 Carpeting		\$5,625	\$0.23
09 90 00 Painting		\$128,784	\$5.30
09-FINISHES TOTAL	-	\$1,198,085	\$49.34
10 00 00 Specialties		\$36,401	\$1.50
10 12 00 Toilet Compartments		\$14,800	\$0.61
10 28 13 Toilet Accessories		\$6,120	\$0.25
10-SPECIALTIES TOTAL		\$57,321	\$2.36
11 00 00 Equipment		\$20,000	\$0.82
11 31 00 Residential Appliances		\$0	\$0.00
11-EQUIPMENT TOTAL	- -	\$20,000	\$0.82
12 00 00 Furnishings		\$7,000	\$0.29
12 20 00 Window Treatments		\$40,195	\$1.66
12-FURNISHINGS TOTAL	·	\$47,195	\$1.94
13 10 00 Vault		\$100,000	\$4.12
13-SPECIAL CONSTRUCTION TOTAL	•	\$100,000	\$4.12
14 20 00 Elevators		\$138,000	\$5.68
14-CONVEYING DEVICES TOTAL	-	\$138,000	\$5.68
21 00 00 Fire Protection		\$163,619	\$6.74
22 00 00 Plumbing		\$278,710	\$11.48
23 00 00 HVAC		\$1,238,250	\$51.00
21, 22, 23 - MECHANICAL TOTAL	-	\$1,680,579	\$69.21
26 00 00 Electrical		\$1,255,879	\$51.72
26-ELECTRICAL TOTAL	-	\$1,255,879	\$51.72
		ψ1, 2 00,073	Ψ51172
31 00 00 Earthwork	_	\$106,192	\$4.37
31-EARTHWORK TOTAL		\$106,192	\$4.37
BUILDING DIRECT COST TOTAL	-	\$8,060,204	\$331.96
	Design Contingency 10.00% \$8,060,204	\$806,020	\$33.20
Trade Cost Total	-	\$8,866,224	\$365.15





Building Summary For Town Hall Site 1 and 2

<u>ELEMENT</u>			<u>TOTAL</u>	<u>Total/GSF</u>
Mark-ups (on Direct Trade Costs Subtotal)				
General Conditions and Requirements	7.50%	\$8,866,224	\$664,967	\$27.39
Insurance	1.40%	\$9,531,191	\$133,437	\$5.50
Bonds	1.00%	\$9,664,628	\$96,646	\$3.98
Permit	0.00%	\$9,761,274		
Fee	3.00%	\$9,761,274	\$292,838	\$12.06
Estimate Construction Cost Subtotal			\$10,054,112	\$414.07
Escalation Allowance. Construction Start Nov 2020	7.33%	\$10,054,112	\$736,966	\$30.35
ECC Total, including Escalation			\$10,791,079	\$444.42



Detailed Estimate For New Town Hall Site 1 and 2

	Element/Description	<u>Quantity</u>	<u>Unit</u>	<u>Rate</u>	<u>Total</u>
9	<u>02-EXISTING CONDITIONS</u>				
10					
11	02 26 00 Hazardous Material Assessment			B. 6	
12 13	Hazmat 02 26 00 Hazardous Material Assessment Total				in Summary n Summary
13 14	02 20 00 Huzuruous Muteriui Assessinent Totui			Mail	n Summar y
15					
16	<u>03-CONCRETE</u>				
<i>17</i>					
18	03 00 00 Cast-In-Place Concrete				
19	<u>Footings</u>				
20	Continuous footings	668	lf		
21	Concrete; material	104	CY	\$130.00	\$13,511
<i>22</i>	Concrete; place	104	CY	\$75.00	\$7,795
<i>23</i>	Reinforcement (65#/cy)	6,756	LB	\$1.15	\$7,769
24	Keyways	668	LF	\$2.00	\$1,336
<i>25</i>	Formwork	1,336	SF	\$8.00	\$10,690
<i>26</i>					
<i>27</i>	<u>Spread footings</u>	28	еа		
28	Concrete; material	82	CY	\$130.00	\$10,660
29	Concrete; place	82	CY	\$75.00	\$6,150
30	Reinforcement (75#/cy)	6,150	LB	\$1.15	\$7,073
31	Formwork	1,617	SF	\$8.00	\$12,936
32	F 1 147 II				
33	Foundations Walls	620	16		
34	Foundation walls	639	lf CV	¢120.00	¢1 F 2 4 O
35 36	Concrete; material	118	CY	\$130.00 \$75.00	\$15,340
36 37	Concrete; place Reinforcement (150#/cy)	118 17,700	CY LB	\$75.00 \$1.15	\$8,850 \$20,355
38	Formwork	6,390	SF	\$1.13 \$12.00	\$20,333 \$76,680
39	POLITIWOLK	0,390	31 ⁻	\$12.00	\$70,000
40	Elevator pit	1	еа		
41	Concrete; material	16	CY	\$130.00	\$2,044
42	Concrete; place	16	CY	\$75.00	\$1,179
43	Reinforcement (90#/cy)	1,415	LB	\$1.15	\$1,628
44	Keyways & waterstops	88	LF	\$10.00	\$880
<i>45</i>	Formwork	444	SF	\$8.00	\$3,552
46					
47	<u>Slab on Grade</u>	14,070	sf		
48	Concrete; material	192	CY	\$125.00	\$23,939
49	Concrete; place & finish	14,070	SF	\$2.25	\$31,658
50	WWF	14,070	SF	\$0.50	\$7,035
51					
	n TH Site 1and2 25Jan2019			Estimate N	lew Building
Printe	d 1/25/2019				Page 8 of 23

Detailed Estimate For New Town Hall Site 1 and 2

	Element/Description	<u>Quantity</u>	<u>Unit</u>	<u>Rate</u>	<u>Total</u>
<i>52</i>	Slab on deck	11,425	sf		
<i>53</i>	Concrete; material	167	CY	\$125.00	\$20,827
54	Concrete; pump, place & finish	11,425	SF	\$2.50	\$28,563
<i>55</i>	Reinforcement (6x6 mesh) 10% overlap	12,568	SF	\$0.50	\$6,284
56	, and a second of the second o	,			,
<i>57</i>	<u>Miscellaneous</u>				
58	Allow for equipment pads	1	LS	\$3,500.00	\$3,500
59	Vapor barrier under slab	14,070	SF	\$1.00	\$14,070
<i>60</i>	Rigid insulation under slab on grade	14,070	SF	\$2.25	\$31,658
61	Moisture vapor control; barrier 1 @ occupied areas	192	CY	\$60.00	\$11,491
<i>62</i>	Dewatering	1	AL	\$15,000.00	\$15,000
<i>63</i>	Concrete accessories	1	LS	\$20,000.00	\$20,000
64	03 00 00 Cast-In-Place Concrete Total			_	\$422,452
65					
66					
<i>67</i>	Exterior closure total				
68	Brick	<i>7,556</i>	sf		
69	Cast Stone Base	1,813	sf		
70	Curtainwall/Storefront system	5,742	sf		
<i>71</i>	total	15,111	sf		
<i>72</i>					
<i>73</i>	<u>04-MASONRY</u>				
<i>74</i>					
<i>75</i>	04 00 00 Masonry				
<i>76</i>	Brick including scaffolding	7,556	SF	\$34.00	\$256,887
77	Cast Stone Base	1,813	SF	\$42.00	\$76,159
<i>78</i>	Articulation to exterior	15,111	SF	\$3.00	\$45,333
79	Interior CMU partitions	1,248	SF	\$22.00	\$27,456
80	04 00 00 Masonry Total				\$405,835
81					
82	OF METALC				
83 84	<u>05-METALS</u>				
85	05 10 00 Structural Steel Framing				
86	WF structural steel	127	TNS	\$3,650.00	\$463,550
87	WF structural steel column, allow	46	TNS	\$4,100.00	\$188,600
88	Shear studs	272	EA	\$4,100.00	\$1,360
89	Moment connections	1	LS	\$5,000.00	\$5,000
90	Base plates	28	EA	\$100.00	\$2,800
91	Allow for relieving angles	929	LF	\$35.00	\$32,515
92	05 10 00 Structural Steel Framing Total	,_,		-	\$693,825
93					, ,



<u>Detailed Estimate For New Town Hall Site 1 and 2</u>

	Element/Description	24,201 USF	<u>Quantity</u>	<u>Unit</u>	<u>Rate</u>	<u>Total</u>
94	05 30 00 Metal Decking					
95	Galv. composite metal floor deck		11,425	SF	\$3.75	\$42,844
96	Acoustical roof deck		0	SF	\$6.50	NIC
<i>97</i>	Galvnized roof deck		17,420	SF	\$3.60	\$62,712
98	05 30 00 Metal Decking Total				-	\$105,556
99						
100	05 40 00 Cold Formed Metal Framing					
101	Light ga metal framing system		9,369	SF	\$10.00	Div 09 21 00
102	05 40 00 Cold Formed Metal Framing Total					\$0
<i>103</i>						
104	05 50 00 Metal Fabrications					
<i>105</i>	Elevator pit ladder and sill angles		1	SET	\$3,500.00	\$3,500
106	Miscellaneous metals; TBD		24,281	GSF	\$3.00_	\$72,843
<i>107</i>	05 50 00 Metal Fabrications Total					\$76,343
108						
109						
110	<u>06-WOOD AND PLASTICS</u>					
111						
112	06 10 00 Rough Carpentry					
113	Install doors and frames		50	EA	\$150.00	\$7,500
114	Rough carpentry / blocking		24,281	SF	\$2.50_	\$60,703
115	06 10 00 Rough Carpentry Total					\$68,203
116	06.00.00 % + 1.6					
117	06 20 00 Finish Carpentry	1	24.204	CE	415.00	¢2.64.24 E
118	Miscellaneous standing and running trim and cas	ework	24,281	SF	\$15.00	\$364,215
119	06 20 00 Finish Carpentry Total					\$364,215
120						
121	O7 THEDMAL AND MOICTIDE					
122 123	07-THERMAL AND MOISTURE					
123 124	07 10 00 Dampproofing and Waterproofing					
125	Waterproofing elevator pit		1	EA	\$3,000.00	\$3,000
125 126	Waterproof foundation walls		3,195	SF	\$3,000.00	\$22,365
127	Air/vapor barrier to exterior façade		9,369	SF	\$6.50	\$60,897
128	Caulking and sealants		24,281	SF	\$3.00	\$72,843
129	Vapor barrier under slab		- 1, - 01	S.	φδίου	In 03
130	07 10 00 Dampproofing and Waterproofing To	tal			-	\$159,105
131	o, 10 00 2 ampp. 00 jg and 1, ave. p. 00 jg 10					4107,100
132	07 20 00 Insulation					
133	Rigid insulation under slab on grade					In 03
134	Insulation to foundation		3,195	SF	\$2.75	\$8,786
135	Insulation at exterior walls		9,369	SF	\$3.65	\$34,196
Nortes			•		Ectimata	Now Ruilding
	n TH Site 1and2 25Jan2019 d 1/25/2019	m			Estimate	New Building Page 10 of 23
rime	u 1/23/2019					1 age 10 01 43

<u>Detailed Estimate For New Town Hall Site 1 and 2</u>

	<u>Element/Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Rate</u>	<u>Total</u>
136	07 20 00 Insulation Total			_	\$42,982
<i>137</i>					
<i>138</i>	07 40 00 Roofing and Siding Panels				
139	Roofing system	14,740	SF	\$20.00	\$294,800
<i>140</i>	Roofing accessories	14,740	SF	\$3.00	\$44,220
141	07 40 00 Roofing and Siding Panels Total			_	\$339,020
<i>142</i>	, ,				
143	07 46 00 Siding				
144	Canopies (allowance)				\$0
145	07 46 00 Siding Total			_	\$0
146	U				
147	07 80 00 Firestopping & Fireproofing				
148	Fire proof steel and deck				NIC
149	Through floor penetration firestopping	24,281	SF	\$0.50	\$12,141
<i>150</i>	07 80 00 Firestopping & Fireproofing Total			_	\$12,141
<i>151</i>					
<i>152</i>	07 92 00 Joint Sealants				
<i>153</i>	Caulking and sealants	24,281	SF	\$3.00_	Included
<i>154</i>	07 92 00 Joint Sealants Total				\$0
<i>155</i>					
<i>156</i>					
<i>157</i>	<u>08-DOORS AND WINDOWS</u>				
<i>158</i>					
159	08 10 00 Doors & Frames				
<i>160</i>	Interior Doors				
161	3' x 7' Interior doors	40	EA	\$350.00	\$14,000
162	Pair doors	5	PR	\$1,000.00	\$5,000
163	Frames	4.0	-	***	444000
	3' x 7' Interior door frame	40	EA	\$275.00	\$11,000
	Pair doors	5	EA	\$650.00	\$3,250
166	Hardware	40	П.	Φ 7 00 00	#20.000
167	Hardware sets	40	EA	\$700.00	\$28,000
168 169	Hardware sets to decorative	10	EA	\$800.00	\$8,000
109 170	08 10 00 Doors & Frames Total				\$69,250
170 171	08 3 1 00 Access Doors & Panels				
171	Allow for access doors	1	AL	\$5,000.00	\$5,000
173	08 3 1 00 Access Doors & Panels Total	•	AL	\$5,000.00 <u> </u>	\$5,000
173 174	00 5 1 00 Access books & Luneis Lotti				\$5,000
17 4 175	08 33 23 Coiling and Overhead Doors				
176	Access control barrier:				
177	Between spaces	1	EA	\$9,075.00	\$9,075
	n TH Site 1and2 25Jan2019	•		·	New Building
	d 1/25/2019	\mathbf{n}			Page 11 of 23
	, ,				G

<u>Detailed Estimate For New Town Hall Site 1 and 2</u>

	Element/Description	<u>Quantity</u>	<u>Unit</u>	<u>Rate</u>	<u>Total</u>
178	08 33 23 Coiling and Overhead DoorsTotal			_	\$9,075
179					
180	08 34 53 Bullet Resistant Opening Protection				
181	Bullet resistant transaction windows			_	NIC
182	08 34 53 Bullet Resistant Opening ProtectionTotal				\$0
183	00 41 12 Abunings Franced Frances on Characterist				
184	08 41 13 Aluminum Framed Entrances, Storefront	5,742	CE	¢115 00	¢660.2 5 1
185 186	Curtainwall/Storefront/Window system Exterior doors; pair	5,742 1	SF PR	\$115.00 \$7,000.00	\$660,351 \$7,000
187	08 41 13 Aluminum Framed Entrances, StorefrontTotal	1	ГK	\$7,000.00_	\$667,351
188	00 41 13 Aluminum Framea Entrances, Storegront total				\$007,551
189	08 50 00 Windows				
190	No work in this section				\$0
191	08 50 00 WindowsTotal			_	\$0
192					
193	08 80 00 Glazing				
194	Door and frame glazing	1	LS	\$100.00	\$100
195	Interior glazing	300	SF	\$55.00	\$16,500
196	08 80 00 Glazing Total				\$16,600
197					
198					
199	<u>09-FINISHES</u>				
200	00 24 00 Planton and Communication and Association				
201	09 21 00 Plaster and Gypsum Board Assemblies	0.260	CE	¢10.00	¢02.600
202 203	Light ga metal framing; exterior walls Interior of exterior walls	9,369 9,369	SF SF	\$10.00 \$3.50	\$93,688 \$32,791
203 204	Standard drywall partitions	30,958	SF SF	\$3.30 \$14.00	\$32,791 \$433,412
205	Premium for bullet resistant sheetrock	30,938	LS	\$5,000.00	9433,412 NIC
206	Allow for soffits	1	LS	\$20,000.00	\$20,000
207	GWB ceiling	1,150	SF	\$15.00	\$17,250
	09 21 00 Plaster and Gypsum Board Assemblies Total	1,100	O.	415100	\$597,141
209					+ ,
210	09 30 00 Tile				
211	Main floor	1,000	SF	\$25.00	\$25,000
<i>212</i>	Ceramic tile flooring	3,289	SF	\$18.00	\$59,202
<i>213</i>	Tile base	576	LF	\$10.00	\$5,760
214	Tile walls	5,184	SF	\$20.00	\$103,680
<i>215</i>	09 30 00 Tile Total				\$193,642
216					
<i>217</i>	09 51 00 ACT				
218	Acoustical ceiling tile - Typical	19,842	SF	\$4.25	\$84,329
219	Acoustical ceiling tile - moisture resistant	3,289	SF	\$4.50	\$14,801
Norto	n TH Site 1and2 25Jan2019			Estimate	New Building
Printe	d 1/25/2019				Page 12 of 23

Detailed Estimate For New Town Hall Site 1 and 2

24,281 GSF

		27,201 UJI				
	<u>Element/Description</u>	,	<u>Quantity</u>	<u>Unit</u>	<u>Rate</u>	<u>Total</u>
220	09 51 00 ACT Total				_	\$99,129
<i>221</i>						
<i>222</i>	09 65 00 Resilient Flooring					
<i>223</i>	Moisture mitigation		24,281	SF	\$2.00	\$48,562
<i>224</i>	Flooring		18,867	SF	\$6.00	\$113,202
<i>225</i>	Base		1	LS	\$12,000.00	\$12,000
<i>226</i>	09 65 00 Resilient Flooring Total					\$173,764
<i>227</i>						
<i>228</i>	09 68 00 Carpeting					
229	Carpet		125	SY	\$45.00_	\$5,625
<i>230</i>	09 68 00 Carpeting Total					\$5,625
<i>231</i>						
<i>232</i>	09 90 00 Painting					
<i>233</i>	Painting ceiling		1,150	SF	\$1.25	\$1,438
<i>234</i>	Painting walls		71,285	SF	\$1.00	\$71,285
<i>235</i>	Paint doors and frames		50	EA	\$150.00	\$7,500
<i>236</i>	Miscellaneous painting		24,281	SF	\$2.00	\$48,562
<i>237</i>	09 90 00 Painting Total					\$128,784
<i>238</i>						
239						
<i>240</i>	<u>10-SPECIALTIES</u>					
<i>241</i>						
<i>242</i>	10 00 00 Specialties					
<i>243</i>	Allow for visual display boards		1	LS	\$1,500.00	\$1,500
244	Interior and exterior signage		24,281	SF	\$1.25	\$30,351
<i>245</i>	Aluminum louvers, allow		50	SF	\$55.00	\$2,750
<i>246</i>	Fire extinguisher cabinets		4	EA	\$450.00_	\$1,800
<i>247</i>	10 00 00 Specialties Total					\$36,401
<i>248</i>						
249	10 12 00 Toilet Compartments					
<i>250</i>	Toilet compartments		1	AL	\$14,800.00	\$14,800
<i>251</i>	10 12 00 Toilet Compartments Total					\$14,800
<i>252</i>						
<i>253</i>	10 28 13 Toilet Accessories					
<i>254</i>	Paper towel dispenser/disposal		4	EA	\$250.00	\$1,000
<i>255</i>	Toilet paper holder		8	EA	\$65.00	\$520
<i>256</i>	Soap dispenser		4	EA	\$35.00	\$140
<i>257</i>	Sanitary dispenser		2	EA	\$200.00	\$400
<i>258</i>	Sanitary disposal		2	EA	\$75.00	\$150
<i>259</i>	Hooks		4	EA	\$35.00	\$140
<i>260</i>	Mirrors		4	EA	\$130.00	\$520
<i>261</i>	Mop and broom strip		2	EA	\$125.00	\$250
Norto	n TH Site 1and2 25Jan2019				Estimate	New Building
Duinto	4.1 /2F /2010	(Daga 12 of 22

Printed 1/25/2019

Page 13 of 23

Detailed Estimate For New Town Hall Site 1 and 2

	Element/Description	2 1,201 001	<u>Quantity</u>	<u>Unit</u>	<u>Rate</u>	<u>Total</u>
262	Installation		30	EA	\$100.00	\$3,000
<i>263</i>	10 28 13 Toilet Accessories Total				_	\$6,120
264						
<i>265</i>						
<i>266</i>	<u>11-EQUIPMENT</u>					
<i>267</i>						
<i>268</i>	11 00 00 Equipment					
<i>269</i>	Miscellaneous equipment		1	AL	\$20,000.00	\$20,000
<i>270</i>	11 00 00 Equipment Total					\$20,000
<i>271</i>						
<i>272</i>	11 31 00 Residential Appliances					
<i>273</i>	Included in allowance under equipment					\$0
<i>274</i>	11 31 00 Residential Appliances Total					\$0
<i>275</i>						
<i>276</i>						
<i>277</i>	<u>12-FURNISHINGS</u>					
<i>278</i>						
<i>279</i>	12 00 00 Furnishings					
<i>280</i>	Entry mats		200	SF	\$35.00	\$7,000
<i>281</i>	12 00 00 FurnishingsTotal					\$7,000
<i>282</i>						
<i>283</i>	12 20 00 Window Treatments					
284	Window treatment		5,742	SF	\$7.00_	\$40,195
<i>285</i>	12 20 00 Window Treatments Total					\$40,195
286						
287						
288	13-SPECIAL CONSTRUCTION					
289						
290	13 10 00 Vault				****	***
	Vault		1	EA	\$100,000.00	\$100,000
292	13 10 00 Vault Total					\$100,000
293						
294	4.4. CONVEYING DEVICES					
<i>295</i>	14-CONVEYING DEVICES					
296 297	14 20 00 Elevators					
297 298	Passenger elevator; 2 stops		1	EA	¢120 000 00	¢120 000
298 299	14 20 00 Elevators Total		1	ĽА	\$138,000.00 _	\$138,000 \$138,000
300	14 20 00 Lievators Total					\$130,000
301						
301 302	21, 22, 23 - MECHANICAL					
303	=1, ==, =0 PIDOIMITIOILE					
	n TH Site 1and2 25Jan2019				Ectimata	New Building
TANTINI	I III JIW IAIIUA AJJAIIAUIJ				Estimate	new bulluling



Detailed Estimate For New Town Hall Site 1 and 2

24,281 GSF

	Element/Description	<u>Quantity</u>	<u>Unit</u>	<u>Rate</u>	<u>Total</u>
304	21 00 00 Fire Protection				
<i>305</i>	Sprinkler Coverage	22,082	SF	\$4.50	\$99,369
<i>306</i>	Sprinkler Coverage (attice area)	-	SF	\$4.75	\$0
<i>307</i>	6" Water service main	1	EA	\$3,500.00	\$3,500
<i>308</i>	6" Double check backflow preventer	1	EA	\$7,850.00	\$7,850
<i>309</i>	6" Alarm valve assembly with trim	1	EA	\$4,850.00	\$4,850
<i>310</i>	4 Alarm valve assembly with compressor	1	EA	\$4,250.00	\$4,250
311	Zones w/ Standpipe	2	EA	\$3,150.00	\$6,300
<i>312</i>	FDV Standpipe	2	EA	\$2,250.00	\$4,500
<i>313</i>	Main piping:	1	LS	\$6,500.00	\$6,500
314	Hydraulic Lifts/rigging	1	LS	\$2,000.00	\$2,000
<i>315</i>	Coring, cutting and sleeves	1	LS	\$4,250.00	\$4,250
<i>316</i>	Seismic restraints and structural steel components	1	LS	\$3,750.00	\$3,750
<i>317</i>	System testing, flushing/sterilize	1	LS	\$4,250.00	\$4,250
<i>318</i>	Commissioning support	1	LS	\$6,650.00	\$6,650
319	Shop drawings / BIM / ENG Calc / As-Builts	1	LS	\$5,600.00	\$5,600
<i>320</i>	Permit & Fees	1	LS	N/A	\$0
<i>321</i>	21 00 00 Fire Protection Total				\$163,619
<i>322</i>					
<i>323</i>	22 00 00 Plumbing				
<i>324</i>	2" Water Service w/ meter	1	EA	\$3,650.00	\$3,650
<i>325</i>	<u>Water Heaters:</u>				
<i>326</i>	- GWH-1 55 gal	1	EA	\$5,250.00	\$5,250
<i>327</i>	Circulating Pump	1	EA	\$595.00	\$595
<i>328</i>	Expantion tank & Mixing Valves	1	EA	\$1,850.00	\$1,850
<i>329</i>	Misc. Pumps and Ejector Pump:				
<i>330</i>	- SEP-1	1	EA	\$12,500.00	\$12,500
331	Reduced pressure backflow preventer				
<i>332</i>	- 2" RPBFP1	1	EA	\$2,650.00	\$2,650
333	- 1-1/4" RPBFP2	1	EA	\$1,850.00	\$1,850
	<u>Fixtures:</u>				
<i>335</i>	Water closet WC-1	7	EA	\$7,250.00	\$50,750
336	Urinal UR-1A	2	EA	\$7,250.00	\$14,500
<i>337</i>	Lavatory L-1A	8	EA	\$7,250.00	\$58,000
338	Hi-Lo electric water cooler EWC-1	2	EA	\$7,600.00	\$15,200
339	Mop Sink MSB-1	2	EA	\$7,250.00	\$14,500
<i>340</i>	Sink SK-1	2	EA	\$7,250.00	\$14,500
341	Roof Drains:				
<i>342</i>	- 4" RD-A	6	EA	\$4,850.00	\$29,100
<i>343</i>	Floor drains:				
344	- FD-A	4	EA	\$985.00	\$3,940
345	- FD-B	2	EA	\$1,105.00	\$2,210
Norto	n TH Site 1and2 25Jan2019			Estimate	New Building

Page 15 of 23

Printed 1/25/2019

Detailed Estimate For New Town Hall Site 1 and 2

24,281 GSF

	<u>Element/Description</u>	Quantity	<u>Unit</u>	<u>Rate</u>	<u>Total</u>
346	Floor clean outs:				
347	- ECO	6	EA	\$425.00	\$2,550
348	Vents - VTR	3	EA	\$260.00	\$780
349	Hose bibs:				
<i>350</i>	- HB-1	4	EA	\$315.00	\$1,260
<i>351</i>	Wall hydrant:				
<i>352</i>	- WH-1	5	EA	\$375.00	\$1,875
<i>353</i>	Trap primer:				
<i>354</i>	- TP-1	3	EA	\$780.00	\$2,340
<i>355</i>	Storm Piping below grade:	=	LS	Included in Roc	of Drains
<i>356</i>	Storm Piping above grade:	=	LS	Included in Roc	of Drains
<i>357</i>	Sanitary piping below grade:	-	LS	Included in Fixt	tures
<i>358</i>	Sanitary piping below grade:	-	LS	Included in Fixt	tures
<i>359</i>	Potable Water Piping:	-	LS	Included in Fixt	tures
<i>360</i>	Insulate Potable Water Piping:	-	LS	Included in Fixt	tures
<i>361</i>	Gas piping	1	LS	\$5,000.00	\$5,000
<i>362</i>	Gas Connections	3	EA	\$895.00	\$2,685
<i>363</i>	Demolition	1	LS	\$8,500.00	\$8,500
<i>364</i>	Hydraulic lifts / rigging	1	LS	\$3,650.00	\$3,650
<i>365</i>	System testing, flushing/sterilize	1	LS	\$4,750.00	\$4,750
366	Seismic restraints and structural steel component	1	LS	\$4,125.00	\$4,125
<i>367</i>	Shop drawings / BIM Coordination / As-builts / Engineering Suppo	1	LS	\$5,650.00	\$5,650
<i>368</i>	Commissioning support	1	LS	\$4,500.00	\$4,500
369	Permits & fees	1	LS	N/A	\$0
<i>370</i>	22 00 00 Plumbing Total				\$278,710
<i>371</i>					
<i>372</i>	23 00 00 HVAC				
<i>373</i>	Boiler	2	EA	\$16,500.00	\$33,000
<i>374</i>	Air separator	1	EA	\$5,500.00	\$5,500
<i>375</i>	Roof Top Units (Energy Recovery)	1	LS	\$250,000.00	\$250,000
<i>376</i>	Chiller	-		N/A	\$0
<i>377</i>	Split Systems	1	LS	\$15,000.00	\$15,000
<i>378</i>	Exhaust fans	1	LS	\$16,000.00	\$16,000
<i>37</i> 9	Pumps	2	EA	\$18,000.00	\$36,000
<i>380</i>	Fintube Radiators	180	LF	\$95.00	\$17,100
<i>381</i>	Cabinet & Unit Heaters	6	EA	\$2,100.00	\$12,600
382	Registers, grilles & diffusers	24,500		\$1.10	\$26,950
383	Miscellaneous duct accessories	24,500		\$1.65	\$40,425
384	Ductwork with fittings & hangers	24,500		\$11.00	\$269,500
<i>385</i>	Duct insulation	8,750		\$4.50	\$39,375
386	Heating hot water pipe with fittings & hangers	3,850	LF	\$42.00	\$161,700
<i>387</i>	Refrigerant pipe with fittings & hangers	850	LF	\$26.00	\$22,100
Nortor	n TH Site 1and2 25Jan2019			Estimate	New Building

Page 16 of 23

Printed 1/25/2019

Detailed Estimate For New Town Hall Site 1 and 2

	Element/Description	<u>Quantity</u>	<u>Unit</u>	<u>Rate</u>	<u>Total</u>
388	Pipe insulation	4,700	LF	\$9.50	\$44,650
389	Miscellaneous HVAC equipment	1	LS	\$16,000.00	\$16,000
<i>390</i>	Chemical feed system	1	LS	\$7,500.00	\$7,500
<i>391</i>	Boiler flue	1	LS	\$9,500.00	\$9,500
<i>392</i>	Controls	1	LS	\$144,000.00	\$144,000
<i>393</i>	Miscellaneous demolition	1	LS	\$16,250.00	\$16,250
394	Testing & balancing	1	LS	\$14,250.00	\$13,500
<i>395</i>	Seismic restraints and structural steel components	1	LS	\$8,250.00	\$10,500
<i>396</i>	Shop drawings / BIM / ENG Support / As-Builts	1	LS	\$10,750.00	\$12,500
<i>397</i>	Commissioning support	1	LS	\$9,650.00	\$9,650
<i>398</i>	Rigging & equipment rental	1	LS	\$8,950.00	\$8,950
399	Permits & fees	-	LS	N/A	\$0
400	23 00 00 HVAC Total				\$1,238,250
<i>401</i>					
<i>402</i>					
<i>403</i>	26-ELECTRICAL				
<i>404</i>					
<i>405</i>	26 00 00 Electrical				
<i>406</i>	Normal power	24,281	SF	\$10.00	\$242,810
<i>407</i>	Digital monitoring	1	EA	\$1,000.00	\$1,000
<i>408</i>	Disconnect safety switch	1	EA	\$500.00	\$500
409	Generator remote status panel	1	EA	\$500.00	\$500
410	Surge protection device	1	LS	\$500.00	\$500
411	Utility company meter (provided by Utility Co)	1	EA	\$450.00	\$450
412	Equipment wiring, feeds and connections	24,281	SF	\$3.50	\$84,984
413	Elevator controller 200AF 125AT	1	EA	\$5,000.00	\$5,000
414	Lighting Fixtures, Lighting controls, branch power devices & assoc	24,281		\$9.00	\$218,529
415	Lighting control system	24,281	SF	\$3.00	\$72,843
416	Branch power Devices	24,281	SF	\$3.00	\$72,843
417		24,281	SF	\$7.50	\$182,108
418	Inititiating device	1	LS	\$5,000.00	\$5,000 \$1,200
419	Knox box	2	EA	\$650.00	\$1,300 \$2,500
420	Monitoring device	1	LS	\$2,500.00	\$2,500
421	Sigcom 16 zone radio master transmitter box	1	EA	\$2,500.00	\$2,500
422	Signalling device	1	LS	\$2,000.00	\$2,000
423	Generator remote status panel	24 201	LS	\$50,000.00	\$50,000 \$131,405
424 425	Telecommunications IT Systems Card Access & Surveillance Security Systems	24,281	SF SF	\$5.00 \$4.00	\$121,405 \$07,124
425 426	Bi-Directional Amplification System	24,281 24,281	SF SF	\$4.00 \$3.50	\$97,124 \$84,984
420 427	Audio visual system rough-in and power only	24,201 1	LS	\$3.50 \$1,000.00	\$64,964 \$1,000
427 428	Lightning and grounding protection system	1	LS	\$1,000.00	\$1,000 \$1,000
426 429	Fees & permits	1	LS	\$2,000.00	\$1,000 \$2,000
T47	Tees & permits	1	пO	Ψ 2,000.00	ΨΔ,000

<u>Detailed Estimate For New Town Hall Site 1 and 2</u>

24,281 GSF

	Element/Description	Quantity	<u>Unit</u>	<u>Rate</u>	<u>Total</u>
430	Coordination & BIM	1	LS	\$1,000.00	\$1,000
431	Temporary lights & power	1	LS	\$2,000.00	\$2,000
432	26 00 00 Electrical Total			• ,	\$1,255,879
433					, _, ,
434					
435	31-EARTHWORK				
436					
437	31 00 00 Earthwork				
438	Rock removal, using back hoe jack hammer				NIC
439	Rough and fine grade for new slab	14,070	SF	\$1.25	\$17,588
440	Bulk excavation	1,737	CY	\$10.00	\$17,370
441	Gravel below slab	521	CY	\$25.00	\$13,028
442	Perimeter drain system	639	LF	\$16.00	\$10,224
443	Underslab drain system	13,400	SF	\$1.50	\$20,100
444	Exterior strip footings	668	LF		
445	Excavation	619	CY	\$9.00	\$5,571
446	Remove soil	489	CY	\$6.00	\$2,934
447	Backfill with imported fill	500	CY	\$30.00	\$15,000
448	Isolated footings	28	EA		
449	Excavation	166	CY	\$9.00	\$1,494
450	Remove soil	158	CY	\$6.00	\$948
451	Backfill with imported fill	88	CY	\$22.00	\$1,936
<i>452</i>	31 00 00 Earthwork Total			_	\$106,192
453					

454

Norton, MA

Sitework Detail and Summary Site 2

	<u>Description/Element</u>	Quantity	<u>Unit</u>	<u>Rate</u>	<u>Total</u>
10	SITEWORK				
11					
<i>12</i>	Site clearing	3	ACRE	\$5,000.00	\$15,000
13	Site demolition and relocations	1	AL	\$50,000.00	\$50,000
14	Demolition of portion of existing building	464,275	CF	\$0.75	Main Summary
15	Site protection	1	AL	\$12,000.00	\$12,000
16	Safety barricade	1	AL	\$10,000.00	\$10,000
17	Construction fence, install, maintain, remove & reinstall;	2,295	LF	\$12.00	\$27,540
18	Double construction gate	2	PR	\$2,500.00	\$5,000
19	Temporary construction entrance	2	LOC	\$7,000.00	\$14,000
20	Temp signs	1	LS	\$3,000.00	\$3,000
21	Wash down/re-fueling/parking allowance	3,000	SF	\$2.00	\$6,000
22	Temporary seed cover	1	AL	\$10,000.00	\$10,000
23	Install and maintain perimeter erosion control	2,000	LF	\$14.00	\$28,000
24 25	Haybale at stockpile topsoil for reuse; allow Earthwork	1,800	LF	\$8.00	\$14,400 \$75,000
		1	LS	\$75,000.00 \$16.00	\$75,000 NIC
26 27	Remove unsuitable soil	500	CY	\$22.00	\$11,000
28	Imported fill Strip and store tongoil	6,057	CY	\$22.00 \$12.00	\$11,000 \$72,689
20 29	Strip and store topsoil Rough grading	149,239	SF	\$0.15	\$72,089 \$22,386
30	Fine grading	64,235	SF	\$1.50	\$22,380 \$96,353
31	Roadways	45,835	SF	\$3.62	\$165,923
<i>32</i>	Gravel	988	CY	\$35.00	\$34,580
33	Parking space marking	158	EA	\$20.00	\$34,360 \$3,160
<i>34</i>	HC parking space marking, signage, etc.	130	LS	\$500.00	\$500
35	Miscellaneous marking	1	LS	\$2,000.00	\$2,000
36	Erosion control	1	LS	\$10,000.00	\$10,000
<i>37</i>	Curbing	2,228	LF	\$42.00	\$93,576
38	Sidewalk	5,000	SF	\$10.00	\$50,000
39	Specialty paving	1	LS	\$5,000.00	\$5,000
40	Site and street furnishes	1	LS	\$100,000.00	\$100,000
	Fencing	6 58	LF	\$38.00	\$25,004
42	Enclosed fence	35	LF	\$38.00	\$1,330
<i>43</i>	Gate to enclosure	1	PR	\$500.00	\$500
44	Pad	3	EA	\$5,200.00	\$15,600
45	Bollards	25	EA	\$600.00	\$15,000
46	Retaining Wall:				
47	Concrete	182	CY	\$250.00	\$45,500
48	Rebar	27,300	LBS	\$1.00	\$27,300
49	Formwork	9,808	SF	\$10.00	\$98,080
50	Footings For Retaining Wall:				\$0
51	Concrete	68	CY	\$250.00	\$17,000
<i>52</i>	Rebar	10,200	LBS	\$1.00	\$10,200



Norton, MA

Sitework Detail and Summary Site 2

	<u>Description/Element</u>	<u>Quantity</u>	<u>Unit</u>	<u>Rate</u>	<u>Total</u>
10	SITEWORK				
11					
<i>53</i>	Formwork	2,452	SF	\$12.00	\$29,424
54	Lawn	163,551	SF	\$0.33	\$53,972
<i>55</i>	Spread stored topsoil	5,755	CY	\$8.00	\$46,040
56	Planting and ground cover	1	LS	\$75,000.00	\$75,000
<i>57</i>	Allow for site improvements along water	1	LS	\$150,000.00	\$150,000
58	Signage (Allowance by the architect)	1	AL	\$10,000.00	\$10,000
59	Water service	1	AL	\$40,000.00	\$40,000
60	Sanitary sewer	1	LS	\$500,000.00	\$500,000
61	Storm drainage	1	AL	\$60,000.00	\$60,000
<i>62</i>	Stormwater filtration system	1	AL	\$50,000.00	\$50,000
<i>63</i>	Gas	1	AL	\$5,000.00	\$5,000
64	Site electrical	1	AL	\$150,000.00	\$150,000
65	Site security	1	AL	\$35,000.00	\$35,000
66	SITEWORK TOTAL				\$2,397,057
<i>67</i>					
68	Design Contingency	10.00%	\$694,139		\$69,414
69 70	Tue de Coet Tetal			-	¢2.466.471
70 71	Trade Cost Total				\$2,466,471
71 72	Mark una (an Dinast Trada Casta Subtatal)				
73	Mark-ups (on Direct Trade Costs Subtotal) General Conditions and Requirements	7.50%	\$2,466,471		\$184,985
73 74	Insurance	1.40%	\$2,460,471		\$37,120
7 4 75	Bonds	1.40%	\$2,688,576		\$37,120 \$26,886
75	Permit	0.00%	\$2,715,462		\$20,880 \$0
70 77	Fee	3.00%	\$2,715,462		\$81,464
<i>78</i>	rec	3.0070	Ψ 2 ,713, 4 02		\$01,404
79	Estimate Construction Cost Subtotal			-	\$2,796,926
80					
81	Escalation Allowance. Construction Start Nov 2020	7.33%	\$2,796,926		\$205,015
<i>82</i>					
<i>83</i>	ECC Total, including Escalation			•	\$3,001,941
84					
85					
86					
<i>87</i>					
88					
89					
90					
91					
<i>92</i>					
93					



Norton, MA

Sitework Detail and Summary Site 2

	<u>Description/Element</u>	<u>Quantity</u>	<u>Unit</u>	<u>Rate</u>	<u>Total</u>
10	SITEWORK				
11					
94					
95					
96					
97					
98					
99					
##					
##					
##					
##					
##					
##					
##					
##					
##					
##					
##					
##					
##					
##					
##					
ππ					