Attachment 3



Sunnyvale Master Plan - NOVA / EOC

Sunnyvale, California

Rough Order of Magnitude Rev2 July 12, 2017 Cumming Project No. 17-00701.00

Prepared for SmithgroupJJR

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EXECUTIVE SUMMARY

1.1 Introduction

This estimate has been prepared, pursuant to an agreement between Sunnyvale, California and Cumming, for the purpose of establishing a probable cost of construction at the schematic design stage.

The project scope encompasses renovations / needs assessment scope in the existing Annex Building for NOVA program. Other scope includes a new stand-alone Emergency Operations Center (EOC) and associated renovations in the existing Public Safety Building (PSB).

1.2 Methodology

The new stand-alone EOC has been estimated based on a cost-model methodology. Cost models distribute costs among the various building components as anticipated, based on the program type. Cost models have been identified in the detailed backup of this report. Tenant improvement and renovation costs have similarly been estimated based on the cost model methodology.

Core / shell upgrades to the existing Annex and Public Safety Buildings have been estimated in detail as shown in the detailed backup of this report.

1.3 EOC - Stand-Alone Structure at PSB vs. Stand-Alone Structure at New City Hall

The EOC will be designed to the level of an Essential Facility whether at the PSB site or at the New City Hall site. The EOC will require seismic separation from the New City Hall lest the entire building be designed to the higher requirements of an Essential Facility.

The solution will be for the EOC to be designed as a stand-alone structure whether at the PSB site or at the New City Hall site, complete with independent service connections and systems. As a result the cost for the EOC may be considered constant between the two sites.

1.4 Project Schedule

	Start	Finish	Duration
Design & Engineering	tbd	tbd	tbd
Construction	tbd	tbd	tbd

1.5 Key Assumptions & Exclusions

This document should be read in association with Appendix 1 which outline assumptions, project understanding, approach, and cost management methodology. Key assumptions built into the above cost breakdown include

Key Assumptions

- Lump sum low-bid delivery.
- Soft costs allowance of 35% pending verification.
- Public Safety Building to be occupied during construction.
- Annex Building to be unoccupied during construction.

Key Exclusions

- Hazardous materials abatement.
- Construction cost escalation beyond the date of this report.
- AV Equipment.
- 9-11 Call Center.
- Ballistic glazing or blast-resistant construction.

SUMMARY

Element	Area	Cost / SF	Total
Essential Facility at Existing PSB			
Essential Facility	11,000	\$856.36	\$9,420,000
Renovations inside Existing PSB			
Locker Rooms, Tenant Improvements**	4,300	\$402.33	\$1,730,000
Crime Lab, Tenant Improvements**	1,030	\$601.94	\$620,000
Evidence Storage, Tenant Improvements**	2,000	\$505.00	\$1,010,000
Fitness Room, Tenant Improvements**	1,370	\$299.27	\$410,000
Public Safety Building - Core / Shell	39,970	\$6.76	\$270,000
Total Estimated Construction Cost	19,700	\$685.28	\$13,500,000
Escalation to Midpoint of Construction		Exclude	ed Pending Schedule
Project Soft Costs - Allowance Pending Verification	35%		\$4,725,000
Total Estimated Construction Cost	19,700	\$925.13	\$18,225,000
Annex Building			
Existing Core / Shell	14,151	\$238.15	\$3,370,000
Renovations	13,101	\$197.69	\$2,590,000
Total Estimated Construction Cost	14,151	\$424.00	\$6,000,000
Escalation to Midpoint of Construction		Exclude	ed Pending Schedule
Project Soft Costs - Allowance Pending Verification	35%		\$2,100,000
Total Estimated Construction Cost	14,151	\$572.40	\$8,100,000

SCHEDULE OF AREAS AND CONTROL QUANTITIES

Schedule of Areas	Essential Fa	cility at PSB	NOVA / ANNEX		
		Renovation	New Construction	Renovation	
1. Enclosed Areas (x 100%)					
Program					
Men's Lockers		3,200			
Women's Lockers		1,100			
Fitness Room		1,370			
Crime Lab		1,030			
Evidence Storage		2,000			
Briefing, Interview Room					
Lobby			1,078		
EOC			4,676		
Office (NOVA Similar)	Ì		5,246	14,151	
	Total Enclosed	8,700	11,000	14,151	
	Program Total			14,151	

2. Tenant Improvement Areas

Program Area	N/A	N/A	14,151
Deduct Core / Shell Restrooms	N/A	N/A	(1,050)

Essential Facility

Sunnyvale Master Plan - NOVA / EOC Sunnyvale, California Rough Order of Magnitude Rev2

SUMMARY MATRIX - OVERALL ESSENTIAL FACILITY

		New Facility							Renov	ations								
					er Rooms, Te		-	ne Lab, Ter			ce Storage,			s Room, T				
		sential Facilit	y	In	nprovements	**	Im	provement	S**	In	nprovements	**	lm	provement	s**	(Overall Totals	
		11,000GSF			4,300SF			1,030SF			2,000SF			1,370SF			19,700GSF	
Element	Subtotal	Total	Cost/SF	Subtotal	Total	Cost/SF	Subtotal	Total	Cost/SF	Subtotal	Total	Cost/SF	Subtotal	Total	Cost/SF	Subtotal	Total	Cost/SF
		¢0.007.000	\$075 O.4														¢0.007.000	\$450.00
A) Shell (1-5)	A005 000	\$3,027,623	\$275.24													A005 000	\$3,027,623	\$153.69
1 Foundations	\$385,000		\$35.00													\$385,000		\$19.54
2 Vertical Structure	\$220,000		\$20.00													\$220,000		\$11.17
3 Floor & Roof Structures	\$717,623		\$65.24													\$717,623		\$36.43
4 Exterior Cladding	\$1,485,000		\$135.00													\$1,485,000		\$75.38
5 Roofing and Waterproofing	\$220,000		\$20.00													\$220,000		\$11.17
B) Interiors (6-7)		\$890,600	\$80.96		\$399,900	\$93.00		\$87,550	\$85.00		\$80,000	\$40.00		\$93,160	\$68.00		\$1,551,210	\$78.74
6 Interior Partitions, Doors and Glazing	\$533,870		\$48.53	\$163,400		\$38.00	\$56,650		\$55.00	\$30,000		\$15.00	\$52,060		\$38.00	\$835,980		\$42.44
7 Floor, Wall and Ceiling Finishes	\$356,730		\$32.43	\$236,500		\$55.00	\$30,900		\$30.00	\$50,000		\$25.00	\$41,100		\$30.00	\$715,230		\$36.31
C) Equipment and Vertical Transportation (8-9)		\$444,408	\$40.40		\$215,000	\$50.00		\$154,500	\$150.00		\$400,000	\$200.00		\$47,950	\$35.00		\$1,261,858	\$64.05
8 Function Equipment and Specialties	\$224,408		\$20.40	\$215,000		\$50.00	\$154,500		\$150.00	\$400,000		\$200.00	\$47,950		\$35.00	\$1,041,858		\$52.89
9 Stairs and Vertical Transportation	\$220,000		\$20.00													\$220,000		\$11.17
D) Mechanical and Electrical (10-13)		\$1,902,649	\$172.97		\$427,850	\$99.50		\$135,445	\$131.50		\$133,000	\$66.50		\$99,325	\$72.50		\$2,698,269	\$136.97
10 Plumbing Systems	\$181,246		\$16.48	\$172,000		\$40.00	\$23,690		\$23.00	\$8,000		\$4.00	\$6,850		\$5.00	\$391,786		\$19.89
11 Heating, Ventilation and Air Conditioning	\$749,380		\$68.13	\$107,500		\$25.00	\$50,470		\$49.00	\$50,000		\$25.00	\$41,100		\$30.00	\$998,450		\$50.68
12 Electrical Lighting, Power and Communications	\$886,900		\$80.63	\$129,000		\$30.00	\$56,650		\$55.00	\$66,000		\$33.00	\$45,210		\$33.00	\$1,183,760		\$60.09
13 Fire Protection Systems	\$85,123		\$7.74	\$19,350		\$4.50	\$4,635		\$4.50	\$9,000		\$4.50	\$6,165		\$4.50	\$124,273		\$6.31
E) Site Construction (14-16)		\$682,000	\$62.00		\$64,500	\$15.00		\$15,450	\$15.00		\$30,000	\$15.00		\$20,550	\$15.00		\$812,500	\$41.24
14 Site Preparation and Demolition	\$132.000		\$12.00	\$64,500		\$15.00	\$15.450		\$15.00	\$30,000		\$15.00	\$20,550		\$15.00	\$262,500		\$13.32
15 Site Paving, Structures & Landscaping	\$220,000		\$20.00				,									\$220,000		\$11.17
16 Utilities on Site	\$330.000		\$30.00													\$330.000		\$16.75
	+,															+		
Subtotal Cost		\$6,947,280	\$631.57		\$1,107,250	\$257.50		\$392,945	\$381.50		\$643,000	\$321.50		\$260,985	\$190.50		\$9,351,460	\$474.69
Occupied Facility - Phasing, Off-Hours, 15.0%					\$166.088	\$38.63		\$58.942	\$57.23		\$96,450	\$48.23		\$39.148	\$28.58		\$360.627	\$18.31
General Conditions 10.0%		\$694.728	\$63.16		\$127,334	\$29.61		\$45,189	\$43.87		\$73,945	\$36.97		\$30,013	\$21.91		\$971,209	\$49.30
Bonds & Insurance 2.0%		\$152.840	\$13.89		\$28.013	\$6.51		\$9.942	\$9.65		\$16,268	\$8.13		\$6.603	\$4.82		\$213,666	\$10.85
Contractor's Fee 5.0%		\$389,742	\$35.43		\$71,434	\$16.61		\$25,351	\$24.61		\$41,483	\$20.74		\$16,837	\$12.29		\$544,848	\$27.66
Design Contingency 15.0%		\$1.227.689	\$111.61		\$225,018	\$52.33		\$79,855	\$77.53		\$130,672	\$65.34		\$53.038	\$38.71		\$1,716,271	\$87.12
Escalation to MOC		ψ1,221,000	φιτι. σ ι		<i>YLL0,010</i>	40L.00		<i></i>	φ11.00		÷100,012	ψυυ.υτ		<i>400,000</i>	φυυ.η Ι		ψ1,110,211	ψ01.12
Total Estimated Construction Cost		\$9,412,279	\$855. <u>66</u>		\$1,725,137	\$401. <u>19</u>		\$612,223	\$594. <u>39</u>		\$1,001,818	\$500. <u>91</u>		\$406,624	\$296. <u>81</u>		\$13,158,081	\$667. <u>92</u>

**Indicates Cost Model by Program Type

Sunnyvale Master Plan - NOVA / EOC Sunnyvale, California Rough Order of Magnitude Rev2

SUMMARY MATRIX - ESSENTIAL FACILITY

	Core / She	ell, Essential I 11,000GSF			nant Impro 1,078SF		,	nant Improve 4,676SF		,	nant Improv 5,246SF			Overall Totals 11,000GSF	
Element	Subtotal	Total	Cost/SF	Subtotal	Total	Cost/SF	Subtotal	Total	Cost/SF	Subtotal	Total	Cost/SF	Subtotal	Total	Cost/SF
A) Shell (1-5)		\$3.025.000	\$275.00								\$2,623	\$0.50		\$3,027,623	\$275.24
1 Foundations	\$385,000		\$35.00								+-,		\$385.000	+-,	\$35.00
2 Vertical Structure	\$220,000		\$20.00										\$220.000		\$20.00
3 Floor & Roof Structures	\$715.000		\$65.00							\$2.623		\$0.50	\$717.623		\$65.24
4 Exterior Cladding	\$1,485,000		\$135.00							+_,			\$1,485,000		\$135.00
5 Roofing and Waterproofing	\$220,000		\$20.00										\$220,000		\$20.00
B) Interiors (6-7)	<i>\</i> \\\\\\\\\\\\\	\$77,000	\$7.00		\$80.850	\$75.00		\$444,220	\$95.00		\$288.530	\$55.00	<i>V</i> LL0 ,000	\$890.600	\$80.96
6 Interior Partitions, Doors and Glazing	\$33,000		\$3.00	\$16,170		\$15.00	\$327,320	÷···;==•	\$70.00	\$157,380	+,	\$30.00	\$533,870		\$48.53
7 Floor, Wall and Ceiling Finishes	\$44,000		\$4.00	\$64.680		\$60.00	\$116.900		\$25.00	\$131.150		\$25.00	\$356.730		\$32.43
C) Equipment and Vertical Transportation (8-9)	, ,	\$242.000	\$22.00		\$16,170	\$15.00	,	\$107,548	\$23.00	,	\$78,690	\$15.00		\$444,408	\$40.40
8 Function Equipment and Specialties	\$22,000	. ,	\$2.00	\$16,170	, .	\$15.00	\$107,548		\$23.00	\$78,690		\$15.00	\$224,408	• • • •	\$20.40
9 Stairs and Vertical Transportation	\$220,000		\$20.00	. ,			. ,			. ,			\$220,000		\$20.00
D) Mechanical and Electrical (10-13)	. ,	\$946,000	\$86.00		\$79,233	\$73.50		\$483,966	\$103.50		\$393,450	\$75.00		\$1,902,649	\$172.97
10 Plumbing Systems	\$132,000		\$12.00	\$4,312		\$4.00	\$18,704		\$4.00	\$26,230		\$5.00	\$181,246		\$16.48
11 Heating, Ventilation and Air Conditioning	\$396,000		\$36.00	\$32,340		\$30.00	\$163,660		\$35.00	\$157,380		\$30.00	\$749,380		\$68.13
12 Electrical Lighting, Power and Communications	\$385,000		\$35.00	\$37,730		\$35.00	\$280,560		\$60.00	\$183,610		\$35.00	\$886,900		\$80.63
13 Fire Protection Systems	\$33,000		\$3.00	\$4,851		\$4.50	\$21,042		\$4.50	\$26,230		\$5.00	\$85,123		\$7.74
E) Site Construction (14-16)		\$682,000	\$62.00											\$682,000	\$62.00
14 Site Preparation and Demolition	\$132,000		\$12.00										\$132,000		\$12.00
15 Site Paving, Structures & Landscaping	\$220,000		\$20.00										\$220,000		\$20.00
16 Utilities on Site	\$330,000		\$30.00										\$330,000		\$30.00
Subtotal Cost		\$4,972,000	\$452.00		\$176,253	\$163.50		\$1,035,734	\$221.50		\$763,293	\$145.50		\$6,947,280	\$632
Occupied Facility - Phasing, Off-Hours, Etc.															
General Conditions 10.0%		\$497,200	\$45.20		\$17,625	\$16.35		\$103,573	\$22.15		\$76,329	\$14.55		\$694,728	\$63.16
Bonds & Insurance 2.0%		\$109,384	\$9.94		\$3,878	\$3.60		\$22,786	\$4.87		\$16,792	\$3.20		\$152,840	\$13.89
Contractor's Fee 5.0%		\$278,929	\$25.36		\$9,888	\$9.17		\$58,105	\$12.43		\$42,821	\$8.16		\$389,742	\$35.43
Design Contingency 15.0%		\$878,627	\$79.88		\$31,147	\$28.89		\$183,030	\$39.14		\$134,885	\$25.71		\$1,227,689	\$111.61
Escalation to MOC															
Total Estimated Construction Cost		\$6,736,140	\$612. <u>38</u>		\$238,790	\$221.51		\$1,403,228	\$300. <u>09</u>		########	\$197.13		\$9,412,279	\$855. <u>66</u>

**Indicates Cost Model by Program Type

Public Safety Building - Existing Core / Shell

lement	Subtotal Tot	al	Cost / SF	Cost / SF
\) Shell (1-5)				
1 Foundations				
2 Vertical Structure				
3 Floor & Roof Structures				
4 Exterior Cladding				
5 Roofing and Waterproofing				
3) Interiors (6-7)				
6 Interior Partitions, Doors and Glazing				
7 Floor, Wall and Ceiling Finishes				
C) Equipment and Vertical Transportation (8-9)				
8 Function Equipment and Specialties				
9 Stairs and Vertical Transportation				
)) Mechanical and Electrical (10-13)		\$171,000	.	\$4.28
10 Plumbing Systems	\$6,000		\$0.15	
11 Heating, Ventilation and Air Conditioning	\$140,000		\$3.50	
12 Electrical Lighting, Power and Communications	\$25,000		\$0.63	
13 Fire Protection Systems				
E) Site Construction (14-16)				
14 Site Preparation and Demolition				
15 Site Paving, Structures & Landscaping				
16 Utilities on Site				
Subtotal		\$171,000	—	\$4.28
Occupied Facility - Phasing, Off-Hours, Etc.	15.00%	\$25,650		\$0.64
Subtotal		\$196,650	_	\$4.92
General Conditions	10.00%	\$19,665		\$0.49
Subtotal		\$216,315		\$5.41
Bonds & Insurance	2.00%	\$3,420		\$0.09
Subtotal		\$219,735		\$5.50
Contractor's Fee	5.00%	\$10,987		\$0.27
Subtotal		\$230,722		\$5.77
Design Contingency	15.00%	\$34,608		\$0.87
Subtotal		\$265,330	—	\$6.64
Escalation to MOC				
TOTAL ESTIMATED CONSTRUCTION COST		\$265,330		

Total Area:

39,970 SF

DETAIL ELEMENTS - PUBLIC SAFETY BUILD	ING - EXISTIN	IG COF	RE / SHELL	
Element	Quantity	Unit	Unit Cost	Total
1 Foundations				
No Work Anticipated				
Total - Foundations				
2 Vertical Structure				
No Work Anticipated				
Total - Vertical Structure				
3 Floor & Roof Structures				
No Work Anticipated				
Total - Floor & Roof Structures				
4 Exterior Cladding				
No Work Anticipated				
Total - Exterior Cladding				
5 Roofing and Waterproofing				
No Work Anticipated				
Total - Roofing and Waterproofing				
6 Interior Partitions, Doors and Glazing				
No Work Anticipated				
Total - Interior Partitions, Doors and Glazing				
7 Floor, Wall and Ceiling Finishes				
No Work Anticipated				
Total - Floor, Wall and Ceiling Finishes				

8 Function Equipment and Specialties

Prepared by $C\overline{UMMING}$

DETAIL ELEMENTS - PUBLIC SAFETY BUILDING	i - EXISTII	NG CO	RE / SHELL	
Element	Quantity	Unit	Unit Cost	Total
No Work Anticipated				
Total - Function Equipment and Specialties				
9 Stairs and Vertical Transportation				
No Work Anticipated				
Total - Stairs and Vertical Transportation				
10 Plumbing Systems				
Option A Replace plumbing fixtures Reuse CW pipe service, new pipe otherwise Reuse water heater New hot water pipe throughout Reuse sewer pipe service, new pipe otherwise Reuse storm drain pipe, roof drains throughout		1 ls 1 ls	\$1,000.00 \$5,000.00	w/ TI w/ TI \$1,000 w/ TI \$5,000
Total - Plumbing Systems				\$6,000
11 Heating, Ventilation and Air Conditioning				
Reuse existing existing cooling towers, chiller, boiler, and associated pumps Provide new AHU (10,000 cfm) unit Provide 8 VAV terminal units w/ reheat (1000 cfm ea) Toilet exhaust fan, 2000 cfm		1 Is	\$25,000.00	\$25,000 Excluded w/ TI w/ TI
Cooling units to IDF/MPOE rooms New controls system CHW system to be reused HHW system to be reused		1 ls 1 ls	\$30,000.00 \$60,000.00	\$30,000 \$60,000 w/ TI w/ TI
AHU's to be replaced Replace filters Replace exhaust systems Decentralized systems Replace ductwork (shell & core only)			Ind Ind	cluded Above cluded Above cluded Above cluded Above w/ TI
Replace insulation (CHW/HHW piping only) Pre-testing		1 ls	\$25,000.00	w/ TI \$25,000

Total - Heating, Ventilation and Air Conditioning

12 Electrical Lighting, Power and Communications

Service & Distribution

\$140,000

\$25,000

DETAIL ELEMENTS - PUBLIC SAFETY BUILDING - EXISTING CORE / SHELL

Element	Quantity	Unit	Unit Cost	Total
Tie-in to existing system (DB's, Swbd's, Etc.)		1 Is	\$15,000.00	\$15,000
Panelboards, feeders, as required				w/ TI
HVAC Equipment Connections		1 Is	\$10,000.00	\$10,000
Convenience Power				w/ TI
Light Fixtures LED, Interior				w/ TI
-				

Total - Electrical Lighting, Power and Communications

13 Fire Protection Systems

See Tenant Improvements

Total - Fire Protection Systems

14 Site Preparation and Demolition

No Work Anticipated

Total - Site Preparation and Demolition

15 Site Paving, Structures & Landscaping

No Work Anticipated

Total - Site Paving, Structures & Landscaping

16 Utilities on Site

No Work Anticipated

Total - Utilities on Site

Annex Building

SUMMARY MATRIX - ANNEX

		Annex Bu	iilding - Existi Shell 14,151GSF	-		A / ANNEX, Te nprovements [:] 13,101SF			Overall Totals 14,151GSF	
Element		Subtotal	Total	Cost/SF	Subtotal	Total	Cost/SF	Subtotal	Total	Cost/SF
A) Shell (1-5)			\$1,120,463			\$6,551	\$0.50		\$1,127,014	\$79.64
1 Foundations										
2 Vertical Structure		\$42,180		\$2.98				\$42,180		\$2.98
3 Floor & Roof Structures		\$411,283		\$29.06	\$6,551		\$0.50	\$417,834		\$29.53
4 Exterior Cladding		\$607,000		\$42.89				\$607,000		\$42.89
5 Roofing and Waterproofing		\$60,000		\$4.24				\$60,000		\$4.24
B) Interiors (6-7)			\$110,250			\$720,555	\$55.00		\$830,805	\$58.71
6 Interior Partitions, Doors and Glazing		\$31,500		\$2.23	\$393,030		\$30.00	\$424,530		\$30.00
7 Floor, Wall and Ceiling Finishes		\$78,750		\$5.56	\$327,525		\$25.00	\$406,275		\$28.71
C) Equipment and Vertical Transportation (8-9))		\$315,750			\$196,515	\$15.00		\$512,265	\$36.20
8 Function Equipment and Specialties		\$15,750		\$1.11	\$196,515		\$15.00	\$212,265		\$15.00
9 Stairs and Vertical Transportation		\$300,000		\$21.20				\$300,000		\$21.20
D) Mechanical and Electrical (10-13)			\$464,487			\$982,575	\$75.00		\$1,447,062	\$102.26
10 Plumbing Systems		\$117,368		\$8.29	\$65,505		\$5.00	\$182,873		\$12.92
11 Heating, Ventilation and Air Conditioning		\$170,000		\$12.01	\$393,030		\$30.00	\$563,030		\$39.79
12 Electrical Lighting, Power and Communica	ations	\$177,118		\$12.52	\$458,535		\$35.00	\$635,653		\$44.92
13 Fire Protection Systems					\$65,505		\$5.00	\$65,505		\$4.63
E) Site Construction (14-16)			\$477,265						\$477,265	\$33.73
14 Site Preparation and Demolition		\$212,265		\$15.00				\$212,265		\$15.00
15 Site Paving, Structures & Landscaping		\$265,000		\$18.73				\$265,000		\$18.73
16 Utilities on Site		,,						,,		,
Subtotal Cost			\$2,488,215	\$175.83		\$1,906,196	\$145.50		\$4,394,410	\$311
Occupied Facility - Phasing, Off-Hours, Et	c.									
General Conditions	10.0%		\$248,821	\$17.58		\$190,620	\$14.55		\$439,441	\$31.05
Bonds & Insurance	2.0%		\$49,764	\$3.52		\$41,936	\$3.20		\$91,701	\$6.48
Contractor's Fee	5.0%		\$139,340	\$9.85		\$106,938	\$8.16		\$246,278	\$17.40
Design Contingency	15.0%		\$438,921	\$31.02		\$336,853	\$25.71		\$775,774	\$54.82
Escalation to MOC										
Total Estimated Construction Cost			\$3,365,062	\$237.80		\$2,582,542	\$197.13		\$5,947,604	\$420.30

**Indicates Cost Model by Program Type

Annex Building - Existing Core / Shell

SUMMARY - ANNEX BUILDING - EXISTING CORE / SHELL

Element	Subtotal	Total	Cost / SF	Cost / SF
A) Shell (1-5)		\$1,120,463		\$79.18
1 Foundations				
2 Vertical Structure	\$42,180		\$2.98	
3 Floor & Roof Structures	\$411,283		\$29.06	
4 Exterior Cladding	\$607,000		\$42.89	
5 Roofing and Waterproofing	\$60,000		\$4.24	
B) Interiors (6-7)		\$110,250		\$7.79
6 Interior Partitions, Doors and Glazing	\$31,500		\$2.23	
7 Floor, Wall and Ceiling Finishes	\$78,750		\$5.56	
C) Equipment and Vertical Transportation (8-9)		\$315,750		\$22.31
8 Function Equipment and Specialties	\$15,750		\$1.11	
9 Stairs and Vertical Transportation	\$300,000		\$21.20	
D) Mechanical and Electrical (10-13)		\$464,487		\$32.82
10 Plumbing Systems	\$117,368		\$8.29	
11 Heating, Ventilation and Air Conditioning	\$170,000		\$12.01	
12 Electrical Lighting, Power and Communications	\$177,118		\$12.52	
13 Fire Protection Systems				
E) Site Construction (14-16)		\$477,265		\$33.73
14 Site Preparation and Demolition	\$212,265		\$15.00	
15 Site Paving, Structures & Landscaping	\$265,000		\$18.73	
16 Utilities on Site				
Subtotal		\$2,488,215	_	\$175.83
Occupied Facility - Phasing, Off-Hours, Etc.				
Subtotal		\$2,488,215	—	\$175.83
General Conditions	10.00%	\$248,821		\$17.58
			_	
Subtotal		\$2,737,036		\$193.42
Bonds & Insurance	2.00%	\$49,764		\$3.52
Subtotal		\$2,786,801	_	\$196.93
Contractor's Fee	5.00%	\$139,340		\$9.85
Subtotal		\$2,926,141	-	\$206.78
Design Contingency	15.00%	\$438,921		\$31.02
Subtotal Escalation to MOC		\$3,365,062	-	\$237.80
TOTAL ESTIMATED CONSTRUCTION COST		\$3,365,062		\$237.80

Total Area:

14,151 SF

DETAIL ELEMENTS - ANNEX BUILDING - EXISTING CORE / SHELL					
Element	Quantity	Unit	Unit Cost	Total	
1 Foundations					
No Work Anticipated					
Total - Foundations					
2 Vertical Structure					
Structural Steel					
Cut hole in <e> concrete ceiling for access, 24" sq.</e>	7	loc	\$1,000.00	\$7,000	
HSS6x6x3/8 columns, 10'6" tall max, installed	11	ea	\$2,000.00	\$22,000	
Epoxy wall anchors at 4' o.c., ceiling / floor anchors	176	ea	\$55.00	\$9,680	
Firestop / patch concrete ceilings	7	loc	\$500.00	\$3,500	
Total - Vertical Structure				\$42,180	
3 Floor & Roof Structures					
Slab On Grade					
Miscellaneous patch and repair for core / shell work, allowance	14,151	gsf	\$2.00	\$28,302	
Roof Structure					
Temporary shoring of existing concrete "lid"	1,885	sf	\$5.00	\$9,425	
Remove existing concrete "lid", sawcut (impact tools not allowed)	1,885	sf	\$25.00	\$47,125	
HSS6x6x3/8 columns	2	ea	\$3,000.00	\$6,000	
W18x46, 35' long	1	ea	\$7,000.00	\$7,000	
Remove existing gypsum board, direct nailed to roof and beams, allow per	10.000		A / - A	A - (A AA	
plan area Danlara aviation daevall often installation of sounds areas the allowed a	12,000	sf	\$4.50	\$54,000	
Replace existing drywall after installation of rough carpentry, allow per	10.000	of	ሮፓ ጋር	¢07 000	
plan area Plywood sheathing, allow per plan area	12,000	sf	\$7.25	\$87,000	
3x4 blocking	4,100	sf	\$1.00	\$4,100	
1/2" plywood sheathing to underside of joists / blocking	4,100	sf	\$5.00	\$20,500	
Wall bracing	1,100	01	φ0.00	Ψ20,000	
4x16PSLs, notched, A34 attachment @ 12" o.c.	632	lf	\$115.00	\$72,680	
4x12 blocking, A34 attachment @ 12" o.c.	247	lf	\$30.00	\$7,410	
HDU2 with epoxy all-thread rods into existing brick	160	ea	\$200.00	\$32,000	
Miscellaneous hardware and framing					
MSTC40 straps, <=5' long typ	17	ea	\$130.00	\$2,210	
Sister 2x8 to existing framing	129	lf	\$20.00	\$2,580	
Miscellaneous hardware, blocking, and rough carpentry, allowance	14,151	gsf	\$1.00	\$14,151	
Aerial equipment and small tools	6	wks	\$2,800.00	\$16,800	

\$411,283

DETAIL ELEMENTS - ANNEX BUILDING - EXISTING CORE / SHELL

Element	Quantity	Unit	Unit Cost	Total
4 Exterior Cladding				
Exterior Walls And Parapets				
Repair existing concrete and brick walls on south side of bldg., allowance, 110LF x 20' Tall Average Height	2,200	sf	\$10.00	\$22,000
Replace existing louvers and doors on south side of bldg., allowance Work to remaining brick and concrete walls	1	ls	\$15,000.00	\$15,000 <i>Excluded</i>
Gypsum Board to Interior of Exterior - Allow for Quantities				Excluded
Remove existing gypsum board and insulation at interior face of exterior wall and replace with new thermal insulation and gypsum board	7,000	sf	\$10.00	\$70,000
Exterior Glazing - Allow for Quantities				
Remove and replace existing exterior glazing	4,000	sf	\$125.00	\$500,000
Total - Exterior Cladding				\$607,000
5 Roofing and Waterproofing				
Roofing				
Remove exisitng tile roof, stockpile Remove existing waterproofing and replace			Excluded - Assume Excluded - Assume	•
Reinstall existing roof tile			Excluded - Assume	Not Required
Material breakage allowance Sheetmetal and detailing, allowance			Excluded - Assume Excluded - Assume	
Miscellaneous Repair water damage to oversized rafter ends and provide flashing	40	loc	\$1,500.00	\$60,000
Total - Roofing and Waterproofing				\$60,000
6 Interior Partitions, Doors and Glazing				
Interior Partitions, Doors, and Glazing				
Restrooms Tenant improvement areas	1,050	sf	\$30.00 //	\$31,500 mprovements
Total - Interior Partitions, Doors and Glazing				\$31,500
7 Floor, Wall and Ceiling Finishes				
Interior Finishes	4.0-0			A70 760
Restrooms Tenant improvement areas	1,050	sf	\$75.00 //	\$78,750 mprovements
Total - Floor, Wall and Ceiling Finishes				\$78,750

DETAIL ELEMENTS - ANNEX BUILDING - EXISTING CORE / SHELL

Element	Quantity	Unit	Unit Cost	Total
8 Function Equipment and Specialties				
Function Equipment and Specialties	1 050	-f	¢15.00	¢45 750
Restrooms Tenant improvement areas	1,050	sf	\$15.00 <i> </i>	\$15,750 mprovements
Total - Function Equipment and Specialties				\$15,750
9 Stairs and Vertical Transportation				
Stairs Elevators			No Wo	rk Anticipated
Upgrade existing elevators, scope to be verified, allowance	1	ls	\$300,000.00	\$300,000
Total - Stairs and Vertical Transportation				\$300,000
10 Plumbing Systems				
Replace plumbing fixtures	1	ls	\$56,604.00	\$56,604
Reuse CW pipe service, new pipe otherwise Reuse water heater	1	ls Is	\$26,108.60 \$1,000.00	\$26,109 \$1,000
New hot water pipe throughout	1	ls	\$31,910.51	\$1,000
Reuse sewer pipe service, new pipe otherwise	1	ls	\$53,349.27	\$53,349
Reuse storm drain pipe, roof drains throughout	1	ls	\$5,000.00	\$5,000
deduct for T.I.	14,151	sf	-\$4.00	-\$56,604
Total - Plumbing Systems				\$117,368
11 Heating, Ventilation and Air Conditioning				
Reuse existing existing cooling towers, chiller, boiler, and associated pumps Provide new AHU (20,000 cfm) unit	1	ls	\$15,000.00	\$15,000 Excluded
Provide 15 VAV terminal units w/ reheat (1000 cfm ea) Toilet exhaust fan, 2000 cfm	1	ls	\$5,000.00	<i>w/ TI</i> \$5,000
Cooling units to IDF/MPOE rooms	1	ls	\$30,000.00	\$30,000
New controls system	1	ls	\$105,000.00	\$105,000
CHW system to be reused				w/ TI
HHW system to be reused				w/TI
AHU's to be replaced Replace filters				Incl. Above Incl. Above
Replace exhaust systems				Incl. Above
Decentralized systems				Incl. Above
Replace ductwork (shell & core only)				w/ TI

DETAIL ELEMENTS - ANNEX BUILDING - EXISTING CORE / SHELL Unit Unit Cost Element Quantity Total Replace insulation (CHW/HHW piping only) w/ TI Pre-testing 1 ls \$15,000.00 \$15,000 Total - Heating, Ventilation and Air Conditioning \$170,000 12 Electrical Lighting, Power and Communications Service & Distribution Tie-in to existing system (DB's, Swbd's, Etc.) 1 ls \$15,000.00 \$15,000 Panelboard 225 amp 277/480v 3ph 4w \$3,850.24 \$15,401 4 ea Panelboard 225 amp 120/208v 3ph 4w 2 \$3.319.88 \$6.640 ea Panelboard 100 amp 277/480v 3ph 4w \$3,208.21 \$19,249 6 ea Panelboard 100 amp 120/208v 3ph 4w 3 ea \$2,681.48 \$8,044 Transformer 75 kva 480- 120/208v 3ph 4w 2 \$5,038.02 \$10,076 ea Grounding system 1 ls \$1,500.00 \$1,500 Conduit and building wire for service equipment 1.125 Feeder, 100 amp lf \$18.75 \$21,094 Feeder, 225 amp \$15,764 775 lf \$20.34 Conduit supports 1 ls \$8,500.00 \$8,500 **HVAC Equipment Connections** Equipment connections VRV/VRF Unit connection, 3 Tons 2 \$1,950 ea \$975.00 VAV connection 15 \$775.00 \$11,625 ea AHU connection, 480v \$1.476.00 \$1.476 1 ea Exhaust Fan, Toilet \$450 1 \$450.00 ea Disconnect switch, motor rated with thermal O/L 16 ea \$391.60 \$6,266 Disconnect switch, 30/3 fused N1 2 \$664.42 \$1,329 ea Disconnect switch, 60/3 fused N1 \$891 1 \$890.77 ea Conduit and building wire for equipment Feeder, 30 amp 1.710 lf \$12.75 \$21.803 Feeder, 60 amp 650 lf \$15.48 \$10,062 **Convenience** Power Convenience power devices (Receptacles, Etc.) w/ TI Specialty receptacles, 30 amp to 50 amp w/ TI Floorbox / Poke Thru outlet - double duplex / Tel-Data outlet, 20 amp 120v w/ TI Junction box, 120V Furniture connection w/ TI Electronic door hold open connection, 120v w/ TI Fire Alarm system connection, 120v w/ TI Conduit and building wire for power Feeder, 15 amp - 20 amp w/ TI Light Fixtures LED, Interior w/ TI Fire Alarm System - Tie-in to existing, new devices as needed w/ TI

Total - Electrical Lighting, Power and Communications

\$177,118

DETAIL ELEMENTS - ANNEX BUILDING - EXISTING CORE / SHELL

Element	Quantity	Unit	Unit Cost	Total
13 Fire Protection Systems				
See Tenant Improvements				
Total - Fire Protection Systems				
14 Site Preparation and Demolition				
Selective Demolition of Bldg. Interiors See Below for Site Scope	14,151	gsf	\$15.00	\$212,265
Total - Site Preparation and Demolition				\$212,265
15 Site Paving, Structures & Landscaping				
Additional Parking Spaces - Scope Allowance Accessible Path from Parking to Building - Scope Allowance Planters - Allowance to Rework Planter and Waterproofing to Address Leaks	5,000 1,000 1	sf sf Is	\$20.00 \$15.00 \$150,000.00	\$100,000 \$15,000 \$150,000
Total - Site Paving, Structures & Landscaping				\$265,000
16 Utilities on Site				
See Above				

Total - Utilities on Site

APPENDIX 1 - SCOPE ASSUMPTIONS

General Project Info - Local GC laydown / compound area within proximity. - Local trade parking available both onsite (partial) and offsite. - All sub trades to be competitively bid. - All sub trades to be competitively bid. - Local mode parking available both onsite (partial) and offsite. - All sub trades to be competitively bid. - The following markups are included, a soutlined in Appendix 2: General Contractor markups, and design contingency. - An allowance for project soft costs (change order contingency, design fees, etc.) has been included on the summary page. - Pricing is in current (Q3 2017) construction dolars. Detailed Assumptions - New Essential Facility at the existing PSB including associated core / shell construction. - New utility service connections. - New to the perimeter of the building - reconfiguration of existing parking and / or blast resistant construction are excluded. - Lobby, office, and EOC program as shown. - Ballistic giszing and / or blast resistant construction are excluded. - Ballistic giszing and / to the existing PSB core / shell is a outlined in the MEP BOD and detailed within the backup of this report. - Work to the existing PSB core / shell is a outlined in the MEP BOD and detailed within the backup of this report. The costs contained herein are for scope within the boundary of these enovations. 3. Amex Bidg Core / Sheil - Work to the existing Annex Bidg, core / shell includes the following scope, as detailed in the backup of this report (and outlined in design narratives): </th <th>Description</th> <th>Assumed Scope</th>	Description	Assumed Scope
 Local trade parking available both onsite (partial) and offsite. All sub trades to be competitively bid. Labor pool from the greater Bay Area. The following markups are included, as outlined in Appendix 2: General Contractor markups, and design contingency. An allowance for project soft costs (change order contingency, design fees, etc.) has been included on the summary page. Pricing is in current (Q3 2017) construction dollars. Detailed Assumptions 1. Essential Facility at Existing PSB New Essential Facility at the existing PSB including associated core / shell construction. New utility service connections. Site development to 5' beyond the perimeter of the building - reconfiguration of existing parking and / or site development beyond this boundary is excluded. Lobby, office, and EOC program as show. Ballistic glazing and / or blast resistant construction are excluded. Construction santeriopated to cocur during normal business hours with a standard (non-accelerated) construction santeriopated to cocur during normal business hours with a standard (non-accelerated) construction santeriopated to cocur during normal busines shours with a standard (non-accelerated) construction santeriopated to cocur during normal busines shours with a standard (non-accelerated) construction santeriopated to cocur during normal busines formations. Construction marking parks in a sign MEP systems equipment replacement, re-ording, or work to the existing resolar or during (who the existing PSB are outlined in the MEP BOD and detailed within the bouchary of these renovations. Construction santerio scole within the boundary of these renovations. Construction santerio scole within the boundary of these renovations. Construction mark parket existing concrete 'lit". Renoval and replacement of exi	General Project Info	- Local GC lavdown / compound area within proximity
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		•\$15K Allowance for ADA pathway modifications.

APPENDIX 1 - SCOPE ASSUMPTIONS

Description	Assumed Scope
	\$150K Allowance for planter repair to address basement leaks.
	 No scope is assumed in the existing basement, beyond incidental work for the above.
4. Annex Bldg NOVA Tenant Improvement	nts
	 New tenant improvements, including fitout, lighting, HVAC distribution, etc., for NOVA office program.
5. Exclusions	
	- Hazardous materials abatement.
	- Construction cost escalation beyond the date of this report.
	- AV Equipment.
	- 9-11 Call Center.
	- Ballistic glazing or blast-resistant construction.

	APPENDIX 2 - APPROACH & METHODOLOGY
Basis of Estimate	Electronic Documents as listed below:
	- Architectural Program Matrix, dated 06/28/2017 - Civic Center Modernization Project Master Plan; Emergency Operation Center + City Hall Annex Assessment DRAFT, dated 06/22/2017
	- DRAFT Narrative, undated
	- MEP Assessment Report, dated 06/26/2017
	- Structural Evaluation Report, dated 06/26/2017
Estimate Format	A component cost classification format has been used for the preparation of this estimate. It classifies costs by building system / element.
Cost Mark Ups	The following % mark ups have been included in each design option:
	- Occupied Facility - Phasing, Off-Hours, Etc. (15.00% on direct costs), where applicable
	- General Conditions (10.00% compound)
	- Bonds & Insurance (2.00% on direct costs)
	- Contractor's Fee (5.00% compound)
	- Design Contingency (15.00% compound)
	- Escalation to MOC (0.00% compound) - excluded pending schedule
Escalation	All subcontract prices herein are reflective of current bid prices. Escalation has been included on the summary level to the stated mid point of construction.
Design Contingency	An allowance of 15% for undeveloped design details has been included in this estimate. As the design of each system is further developed, details which historically increase cost become apparer and must be incorporated into the estimate while decreasing the % burden.
Construction Contingency	It is prudent for all program budgets to include an allowance for change orders which occur during the construction phase. These change orders normally increase the cost of the project. It is recommended that a 8%-10% construction contingency is carried in this respect. This cost is not included within the estimate.
Method of Procurement	The estimate is based on a lump sum low bid procurement method.
Bid Conditions	This estimate has been based upon competitive bid situations (minimum of 3 bidders) for all items or subcontracted work.
Basis For Quantities	Wherever possible, this estimate has been based upon the actual measurement of different items o work. For the remaining items, parametric measurements were used in conjunction with other projects of a similar nature.
Basis for Unit Costs	Unit costs as contained herein are based on current bid prices in Sunnyvale, California. Sub overheads and profit are included in each line item unit cost. Their overhead and profit covers each sub's cost for labor burden, materials, and equipment, sales taxes, field overhead, home office overhead, and profit. The general contractor's overhead is shown separately on the master summary.

APPENDIX 2 - APPROACH & METHODOLOGY

Sources for Pricing	This estimate was prepared by a team of qualified cost consultants experienced in estimating construction costs at all stages of design. These consultants have used pricing data from Cumming's database for construction, updated to reflect current conditions in Sunnyvale, California.
Key Exclusions	The following items have been excluded from our estimate: - Hazardous materials abatement. - Construction cost escalation beyond the date of this report. - AV Equipment. - 9-11 Call Center. - Ballistic glazing or blast-resistant construction.
Items Affecting Cost Estimate	Items which may change the estimated construction cost include, but are not limited to: - Modifications to the scope of work included in this estimate. - Unforeseen sub-surface conditions. - Restrictive technical specifications or excessive contract conditions. - Any specified item of material or product that cannot be obtained from 3 sources. - Any other non-competitive bid situations. - Bids delayed beyond the projected schedule.
Statement of Probable Cost	Cumming has no control over the cost of labor and materials, the general contractor's or any subcontractor's method of determining prices, or competitive bidding and market conditions. This estimate is made on the basis of the experience, qualifications, and best judgement of a professional consultant familiar with the construction industry. Cumming, however, cannot and does not guarantee that proposals, bids, or actual construction costs will not vary from this or subsequent cost estimates.
	Cumming's staff of professional cost consultants has prepared this estimate in accordance with generally accepted principles and practices. This staff is available to discuss its contents with any interested party.
	Pricing reflects probable construction costs obtainable in the project locality on the target dates specified and is a determination of fair market value for the construction of this project. The estimate is not a prediction of low bid. Pricing assumes competitive bidding for every portion of the construction work for all sub and general contractors with a range of 3 - 4 bidders for all items of work. Experience and research indicates that a fewer number of bidders may result in higher bids. Conversely, an increased number of bidders may result in more competitive bid day responses.
Recommendations	Cumming recommends that the Owner and the Architect carefully review this entire document to ensure it reflects their design intent. Requests for modifications of any apparent errors or omissions to this document must be made to Cumming within ten days of receipt of this estimate. Otherwise, it will be assumed that its contents have been reviewed and accepted. If the project is over budget or there are unresolved budget issues, alternate systems / schemes should be evaluated before proceeding into further design phases.
	It is recommended that there are preparations of further cost estimates throughout design by Cumming to determine overall cost changes since the preparation of this preliminary estimate. These future estimates will have detailed breakdowns indicating materials by type, kind, and size, priced by their respective units of measure.