NATIONAL ACCELERATOR LABORATORY

BUILDING 024 REMODEL

Stanford California

60% CDR

COST ESTIMATE - RECONCILED

April 29th, 2009



111 Pine Street Suite 1315 San Francisco CA, 94111 SLAC NAL Palo Alto California



REFERENCE DOCUMENTATION

This Cost Model Estimate was produced from the following documentation and adjusted following reconciliation with Davis Langdon on 4/22/09

<u>Document</u> <u>Date</u>

60% Conceptual Design Report - RMW architecture & interiors 30-Mar-09

BASIS FOR PRICING

This estimate reflects the fair construction value for this project and should not be construed as a prediction of low bid. Prices are based on local prevailing wage construction costs at the time the estimate was prepared. Pricing assumes a procurement process with competitive bidding for all sub-trades of the construction work, which is to mean a minimum of 3 bids for all subcontractors and materials/equipment suppliers. If fewer bids are solicited or received, prices can be expected to be higher.

Subcontractor's markups have been included in each line item unit price. Markups cover the cost of field overhead, home office overhead and subcontractor's profit. Subcontractor's markups typically range from 15% to 25% of the unit price depending on market conditions.

General Contractor's/Construction Manager's Site Requirement costs are calculated on a percentage basis. General Contractor's/Construction Manager's Jobsite Management costs are also calculated on a percentage basis.

General Contractor's overhead and fees are based on a percentage of the total direct costs and include general conditions, contractor's bond, insurance, site office overheads and profit.

Unless identified otherwise, the cost of such items as overtime, shift premiums and construction phasing are not included in the line item unit price.

This cost estimate is based on standard industry practice, professional experience and knowledge of the local construction market costs. TBD Consultants have no control over the material and labor costs, contractors methods of establishing prices or the market and bidding conditions at the time of bid. Therefore TBD Consultants do not guarantee that the bids received will not vary from this cost estimate.

CONTINGENCY

Design Contingency 10%

The Design Contingency is carried to cover scope that lacks definition and scope that is *anticipated* to be added to the Design. As the Design becomes more complete the Design Contingency will reduce.

Construction Contingency 0% Carried else where in owners budget

The Construction Contingency is carried to cover the unforeseen during construction execution and Risks that do not currently have mitigation plans. As Risks are mitigated, Construction Contingency can be reduced, but should not be eliminated.

An owners contingency has not been included in this construction cost estimate, but it is advised that the owner carry additional contingency to cover scope change, claims and delays.

Building 024



ESCALATION

Escalation has been added to the estimate to reflect the anticipated increases in labor and materials up until the mid point of construction. Escalation is calculated as being compound and has been calculated using the following assumed rates of

Escalation Per Year

<u>Year</u>	<u>Escalation</u>
2009	0.00%
2010	3.00%
2011	4.00%
2012	5.00%
2013	6.00%

MARKET BID FACTOR

We have excluded any Market Bid Factor from the estimate due to the anticipated time of bidding being more than 12 months from todays date. A market bid factor is currently used to reflect the competitiveness of bid results due to the current construction industry market conditions. Recent bid returns have necessitated including this adjusting factor, with very competitive bids expected for the coming few months and possibly beyond.

EXCLUSIONS

- Land acquisition, feasibility studies, financing costs and all other owner costs
- All professional fees and insurance
- Items identified in the design as Not In Contract [NIC]
- Hazardous materials investigations
- Utility company back charges, including work required off-site and utilities rates
- Work to site, outwith limit of work line
- Owners soft costs
- Owners contingency
- Security CCTV system
- Audio Visual Equipment
- UPS systems



OVERALL SUMMARY

	Area	Cost	Cost/SF	Comment
Building 024 Remodel	9,349 SF	\$4,367,254	\$467	
TOTAL	9,349 GSF	\$4,367,254	\$467	



AREA TABULATION

Floor		Area	ı Peri	meter	Heigh	t Comment
Level 1		7,267	,	0	14.00	
Level 2		2,082		0	14.00)
Level 3		0)	0	0.00)
Roof Mechanical		0)	0	0.00)
TOTAL		9,349	GSF	0 LF	28.00) LF
BUILDING CRITERIA						
Building Footprint	7,267	SF	Roof Area		N/A	SF
Total Site Area	N/A	SF	Façade Area		N/A	SF
Net Site Area	N/A	SF	Site Perimeter		N/A	LF
Planned Occupancy	N/A	HC				
BUILDING METRICS [un-escalate	d]					
Skin to Floor Ratio	N/A	%	Area / Occupai	nt	N/A	GSF / HC
Glazed Skin %	N/A	%	Partition Lengt	h/GSF	N/A	LF / GSF
Building Cost / GSF	467	\$/GSF	Building Cost /	Occupant	N/A	\$ / HC
Sitework Cost / Site Area	N/A	\$ / SF	· ·	•		
CONSTRUCTION SCHEDULE						
Construction Start Date	Apr-13	3	Construction E	nd Date	Dec-13	3
Mid-date of Construction Escalation Period	Aug-13 47	3 7 months	Construction D	uration	8	3 months

GSF: 9,349

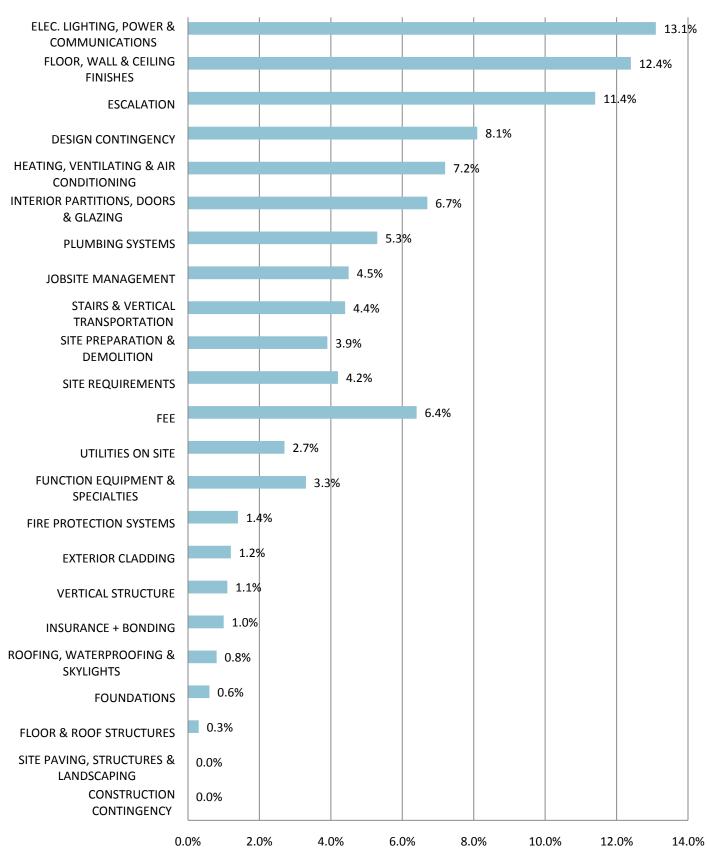


BUILDING COMPONENT SUMMARY

SE	CTION	%	TOTAL	\$ / SF	COMMENTS
1	FOUNDATIONS	0.9%	25,000	2.67	
2	VERTICAL STRUCTURE	1.8%	50,000	5.35	
3	FLOOR & ROOF STRUCTURES	0.5%	14,975	1.60	
4	EXTERIOR CLADDING	1.8%	50,920	5.45	
5	ROOFING, WATERPROOFING & SKYLIGHTS	1.2%	33,800	3.62	
SH	ELL (1-5)	6.2%	174,695	18.69	
6	INTERIOR PARTITIONS, DOORS & GLAZING	10.4%	291,396	31.17	
7	FLOOR, WALL & CEILING FINISHES	19.3%	541,832	57.96	
INT	ERIORS (6-7)	29.6%	833,228	89.12	
8	FUNCTION EQUIPMENT & SPECIALTIES	5.1%	143,804	15.38	
9	STAIRS & VERTICAL TRANSPORTATION	6.8%	190,500	20.38	
EQ	UIPMENT & VERTICAL TRANSPORTATION (8-9)	11.9%	334,304	35.76	
10	PLUMBING SYSTEMS	8.3%	232,491	24.87	
11	HEATING, VENTILATING & AIR CONDITIONING	11.2%	315,748	33.77	
12	ELEC. LIGHTING, POWER & COMMUNICATIONS	20.3%	571,284	61.11	
13	FIRE PROTECTION SYSTEMS	2.2%	60,769	6.50	
ME	CHANICAL & ELECTRICAL (10-13)	42.0%	1,180,292	126.25	
TOTAL	BUILDING CONSTRUCTION (1-13)		2,522,519	269.82	
14	SITE PREPARATION & DEMOLITION	6.1%	171,282	18.32	
15	SITE PAVING, STRUCTURES & LANDSCAPING	0.1%	1,500	0.16	
16	UTILITIES ON SITE	4.2%	117,744	12.59	
то	TAL SITE CONSTRUCTION	10.3%	290,526	31.08	
TOTAL	BUILDING & SITE		2,813,045	300.89	
	SITE REQUIREMENTS	6.5%	182,848	19.56	\$22,856 per month
	JOBSITE MANAGEMENT	7.0%	196,913	21.06	\$24,614 per month
	INSURANCE + BONDING	1.5%	42,196	4.51	
	FEE	10.0%	281,305	30.09	
PLANN	FEE ED CONSTRUCTION COST	10.0%	281,305 3,516,307	30.09 376.12	
PLANN		10.0%			
PLANN	ED CONSTRUCTION COST		3,516,307	376.12	Excluded
PLANN	ED CONSTRUCTION COST DESIGN CONTINGENCY		3,516,307	376.12	Excluded Start date April 2013



Cost Distribution







GSF: 9,349

ESI	IMATE DETAIL				GSF:	9,349
REF	DESCRIPTION	QUANTITY	UoM	UNIT RATE	TOTAL	COMMENTS
1	Standard Foundations			•		• • • • • • • • • • • • • • • • • • • •
2	N/A					
	IV/A					
3						
4	Other Foundations					
5	Form new elevator pit	1	EA	25,000.00	25,000	
6	·					
7						
<u> </u>						
8	FOUNDATIONS				25,000	\$2.67 / SF
9						
10	Steel Frame					
11	Allow for structure to support new stairs and	_			50,000	
	elevator	1	LS	50,000.00		
12						
13						
1.1	VEDTICAL STRUCTURE				E0 000	\$E 2E / SE
14	VERTICAL STRUCTURE				50,000	\$5.35 / SF
15						
16						
17	Slab On Grade					subtotal \$9,675, \$1 / sf
18						345totai 45,075, 41 / 31
10	Allow for cutting and patching (E) SOG at new			=	5,000	
	elevator shaft	1	LS	5,000.00		
19	Allow for repairs to (E) SOG	9,349	SF	0.50	4,675	
20						
21	2nd Floor					
22	Cut opening for new elevator shaft	100	SF	25.00	2,500	
23						-11
	Forming small openings in floor for services	8	EA	100.00	800	allowance
24	Forming medium openings in floor for services	3	EA	200.00	600	allowance
25						
26	Roof					
27	Forming small openings in roof for services	8	EA	100.00	800	allowance
28	Forming medium openings in roof for services	3	EA	200.00	600	allowance
	1 offiling medium openings in roof for services	J	LA	200.00	000	allowalice
29						
30						
31	FLOOR & ROOF STRUCTURES				14,975	\$1.6 / SF
	1 200K a Kool Olikoolokeo				1 1,010	*
32						
33	Exterior Walls					
34	Allow for minor repairs to (E) walls	1	LS	2,000.00	2,000	allowance
35	Allow for forming new entrance	288	SF	50.00	14,400	
36	Allow for caulking and sealants	1	LS	600.00	600	allowance
37	Allow for caulking and sediants	ļ.	LO	000.00	000	allowalice
38	Exterior Windows					
39	New storefront at new entrance	288	SF	90.00	25,920	allowance
40						
41	Exterior Doors					
42	Glazed entrance door, double	1	PR	8,000.00	8,000	allowance
	Siazoa chiranico dodi, dodbie	ı	1 11	0,000.00	0,000	anovvariou
43						
44						
45	EXTERIOR CLADDING				50,920	\$5.45 / SF
					30,320	
46						
47	Roof Coverings					subtotal \$27,000, \$3 / sf
48	Allow for patching (E) roof system	1	LS	10,000.00	10,000	allowance
49	Allow for replacement of roof flashings	400	LF	20.00	8,000	allowance
50	Allow for new roof walk pads	300	SF	5.00	1,500	allowance
51	Allow for roof equipment pads	1	LS	7,500.00	7,500	allowance
52						
53	Roof Openings					
54	Allow for forming + flashing roof penetrations	1	LS	2,000.00	2,000	allowance
55	J 3 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		-	,	,	
56	Waterproofing					
		400	- C-	40.00	4.000	
57	Allow for waterproofing at elevator pit	400	SF	12.00	4,800	
58						
59						
60	POOFING WATERPROOFING & SKYLIGHTS				22 000	\$3.62./SE
60	ROOFING, WATERPROOFING & SKYLIGHTS				33,800	\$3.62 / SF

ESTIMATE DETAIL



60% CDR Stage - REMODEI

REF						
	DESCRIPTION	QUANTITY	UoM	UNIT RATE	TOTAL	COMMENTS
61						
62	<u>Partitions</u>					subtotal \$228,196, \$25 / sf
63	Interior partitions, 4" metal stud, gyproc	3,410	SF	11.00	37,510	
64	Interior partitions, 6" metal stud, gyp, insulation	7,851	SF	14.00	109,914	
65	Shaftwall at elevator	1,110	SF	17.00	18,870	
66	Plumbing wall	720	SF	18.00	12,960	
67	Seal head of partition with insulation	930	LF	6.00	5,580	allowance
68	Furring to interior face of exterior walls	4,766	SF	7.00	33,362	allowance
69	Caulking and sealants	11	LS	5,000.00	5,000	allowance
70	Allow for blocking and bracing within walls	11	LS	5,000.00	5,000	allowance
71 72	Interior Decem					
73	Interior Doors Interior wood doors, single	24	EA	1,800.00	40.000	subtotal \$59,600, \$6 / sf
74		4	EA	1,650.00	43,200	
75	Interior HM doors, single	6	EA	800.00	6,600	
76	Premium for lead shielding		LS	5,000.00	4,800	
77	Allow for security hardware	1	LS	5,000.00	5,000	
78	Interior Cloring					
79	Interior Glazing	70	OE.	E0.00	2 600	allawanaa
80	Allow for interior glazed screens, sidelites	72	SF	50.00	3,600	allowance
81						
82	INTERIOR PARTITIONS, DOORS & GLAZING				291,396	\$31.17 / SF
83	,				•	
84	Wall Finishes					subtotal \$169,445, \$18 / sf
85	Paint to walls	80,381	SF	1.00	80,381	, ., ., ., .,
86	Allow for touch up	1	LS	20,000.00	20.000	allowance
87	Ceramic tile to restrooms	1,504	SF	16.00	24,064	anomaneo
88	Allow for acoustical wall panels	1,000	SF	25.00	25,000	allowance
89	Allow for specialty wall finishes	1,000	LS	20,000.00	20,000	allowance
90	Allow for specialty wall littles	· ·		20,000.00	20,000	anowanioo
91	Floor Finishes					subtotal \$242,573, \$26 / sf
92	Sealed concrete	121	SF	2.00	242	electrical rooms
93	Allow for carpet tile/VCT to general areas	31,887	SF	5.00	159,435	laid over (E) floor
94	Stone floor to lobby	403	SF	70.00	28,210	lobby only
95	Ceramic toilet to restrooms	352	SF	16.00	5,632	,
96	Allow for preparing (E) slab to receive new finish	9,349	SF	2.00	18,698	
97	Stone base	105	LF	70.00	7,350	lobby
98	Resilient base	7,933	LF	2.90	23,006	•
					- ,	
99		7,000				
		7,000				subtotal \$122,139, \$13 / sf
99 100	Ceiling Finishes		SF	11.00	26.158	subtotal \$122,139, \$13 / sf above labs + toilets
99 100	Ceiling Finishes Gypsum board ceilings	2,378	SF LF	11.00 40.00	26,158 8.000	
99 100 101 102	Ceiling Finishes Gypsum board ceilings Gypsum board soffits				26,158 8,000	above labs + toilets
99 100 101 102	Ceiling Finishes Gypsum board ceilings Gypsum board soffits Allow for patching and repairing (E) ceilings as	2,378 200	LF	40.00	8,000	above labs + toilets
99 100 101 102 103	Ceiling Finishes Gypsum board ceilings Gypsum board soffits Allow for patching and repairing (E) ceilings as necessary	2,378 200 31,887		40.00 1.50	8,000 47,831	above labs + toilets allowance
99 100 101 102 103	Ceiling Finishes Gypsum board ceilings Gypsum board soffits Allow for patching and repairing (E) ceilings as necessary Allow for lobby ceiling	2,378 200	LF SF	40.00	8,000 47,831 20,150	above labs + toilets allowance
99 100 101 102 103 104 105	Ceiling Finishes Gypsum board ceilings Gypsum board soffits Allow for patching and repairing (E) ceilings as necessary	2,378 200 31,887	LF SF SF	40.00 1.50 50.00	8,000 47,831	above labs + toilets allowance allowance allowance
99 100 101 102 103 104 105 106	Ceiling Finishes Gypsum board ceilings Gypsum board soffits Allow for patching and repairing (E) ceilings as necessary Allow for lobby ceiling Allow for specialty ceiling finishes	2,378 200 31,887	LF SF SF	40.00 1.50 50.00	8,000 47,831 20,150	above labs + toilets allowance allowance allowance
99 100 101 102 103 104 105 106	Ceiling Finishes Gypsum board ceilings Gypsum board soffits Allow for patching and repairing (E) ceilings as necessary Allow for lobby ceiling	2,378 200 31,887	SF SF LS	40.00 1.50 50.00	8,000 47,831 20,150	above labs + toilets allowance allowance allowance
99 100 101 102 103 104 105 106 107	Ceiling Finishes Gypsum board ceilings Gypsum board soffits Allow for patching and repairing (E) ceilings as necessary Allow for lobby ceiling Allow for specialty ceiling finishes Miscellaneous Finishes	2,378 200 31,887 403 1	LF SF SF	40.00 1.50 50.00 20,000.00	8,000 47,831 20,150 20,000	above labs + toilets allowance allowance allowance allowance
99 100 101 102 103 104 105 106 107 108	Ceiling Finishes Gypsum board ceilings Gypsum board soffits Allow for patching and repairing (E) ceilings as necessary Allow for lobby ceiling Allow for specialty ceiling finishes Miscellaneous Finishes Allow for miscellaneous painting	2,378 200 31,887 403 1	LF SF SF LS	40.00 1.50 50.00 20,000.00	8,000 47,831 20,150 20,000 4,675	above labs + toilets allowance allowance allowance allowance allowance
99 100 101 102 103 104 105 106 107 108 109 110	Ceiling Finishes Gypsum board ceilings Gypsum board soffits Allow for patching and repairing (E) ceilings as necessary Allow for lobby ceiling Allow for specialty ceiling finishes Miscellaneous Finishes Allow for miscellaneous painting	2,378 200 31,887 403 1	LF SF SF LS	40.00 1.50 50.00 20,000.00	8,000 47,831 20,150 20,000 4,675	above labs + toilets allowance allowance allowance allowance allowance
99 100 101 102 103 104 105 106 107 108 109 110	Ceiling Finishes Gypsum board ceilings Gypsum board soffits Allow for patching and repairing (E) ceilings as necessary Allow for lobby ceiling Allow for specialty ceiling finishes Miscellaneous Finishes Allow for miscellaneous painting	2,378 200 31,887 403 1	LF SF SF LS	40.00 1.50 50.00 20,000.00	8,000 47,831 20,150 20,000 4,675	above labs + toilets allowance allowance allowance allowance allowance
99 100 101 102 103 104 105 106 107 108 109 110 111 111 112	Ceiling Finishes Gypsum board ceilings Gypsum board soffits Allow for patching and repairing (E) ceilings as necessary Allow for lobby ceiling Allow for specialty ceiling finishes Miscellaneous Finishes Allow for miscellaneous painting Allow for transitions and thresholds FLOOR, WALL & CEILING FINISHES	2,378 200 31,887 403 1	LF SF SF LS	40.00 1.50 50.00 20,000.00	8,000 47,831 20,150 20,000 4,675 3,000	above labs + toilets allowance allowance allowance allowance allowance allowance
99 100 101 102 103 104 105 106 107 108 109 110 111 112	Ceiling Finishes Gypsum board ceilings Gypsum board soffits Allow for patching and repairing (E) ceilings as necessary Allow for lobby ceiling Allow for specialty ceiling finishes Miscellaneous Finishes Allow for miscellaneous painting Allow for transitions and thresholds	2,378 200 31,887 403 1	LF SF SF LS	40.00 1.50 50.00 20,000.00	8,000 47,831 20,150 20,000 4,675 3,000	above labs + toilets allowance allowance allowance allowance allowance allowance
99 100 101 102 103 104 105 106 107 108 110 111 111 111 111 111	Ceiling Finishes Gypsum board ceilings Gypsum board soffits Allow for patching and repairing (E) ceilings as necessary Allow for lobby ceiling Allow for specialty ceiling finishes Miscellaneous Finishes Allow for miscellaneous painting Allow for transitions and thresholds FLOOR, WALL & CEILING FINISHES Fittings Ladder at elevator pit	2,378 200 31,887 403 1	LF SF SF LS SF LS	40.00 1.50 50.00 20,000.00 0.50 3,000.00	8,000 47,831 20,150 20,000 4,675 3,000	above labs + toilets allowance allowance allowance allowance allowance allowance strong allowance allowance allowance
99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115	Ceiling Finishes Gypsum board ceilings Gypsum board soffits Allow for patching and repairing (E) ceilings as necessary Allow for lobby ceiling Allow for specialty ceiling finishes Miscellaneous Finishes Allow for miscellaneous painting Allow for transitions and thresholds FLOOR, WALL & CEILING FINISHES	2,378 200 31,887 403 1	SF SF LS SF LS	40.00 1.50 50.00 20,000.00 0.50 3,000.00	8,000 47,831 20,150 20,000 4,675 3,000	above labs + toilets allowance allowance allowance allowance allowance allowance strong allowance allowance allowance
99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116	Ceiling Finishes Gypsum board ceilings Gypsum board soffits Allow for patching and repairing (E) ceilings as necessary Allow for lobby ceiling Allow for specialty ceiling finishes Miscellaneous Finishes Allow for miscellaneous painting Allow for transitions and thresholds FLOOR, WALL & CEILING FINISHES Fittings Ladder at elevator pit Allow for recessed fire extinguisher cabinets Toilet cubicles, regular	2,378 200 31,887 403 1 9,349 1	LF SF SF LS SF LS	40.00 1.50 50.00 20,000.00 0.50 3,000.00	8,000 47,831 20,150 20,000 4,675 3,000 541,832	above labs + toilets allowance allowance allowance allowance allowance allowance style="color: red; color: red; co
99 100 101 102 103 104 105 106 107 108 119 111 111 1112 1113 1114 1115 1116 1117	Ceiling Finishes Gypsum board ceilings Gypsum board soffits Allow for patching and repairing (E) ceilings as necessary Allow for lobby ceiling Allow for specialty ceiling finishes Miscellaneous Finishes Allow for miscellaneous painting Allow for transitions and thresholds FLOOR, WALL & CEILING FINISHES Fittings Ladder at elevator pit Allow for recessed fire extinguisher cabinets Toilet cubicles, regular Toilet cubicles, disabled	2,378 200 31,887 403 1 9,349 1	SF SF LS SF LS	40.00 1.50 50.00 20,000.00 0.50 3,000.00 2,500.00 500.00	8,000 47,831 20,150 20,000 4,675 3,000 541,832 2,500 2,000	above labs + toilets allowance allowance allowance allowance allowance allowance style="color: red; color: red; co
999 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118	Ceiling Finishes Gypsum board ceilings Gypsum board soffits Allow for patching and repairing (E) ceilings as necessary Allow for lobby ceiling Allow for specialty ceiling finishes Miscellaneous Finishes Allow for miscellaneous painting Allow for transitions and thresholds FLOOR, WALL & CEILING FINISHES Fittings Ladder at elevator pit Allow for recessed fire extinguisher cabinets Toilet cubicles, regular	2,378 200 31,887 403 1 9,349 1	SF LS SF LS EA EA EA	40.00 1.50 50.00 20,000.00 0.50 3,000.00 2,500.00 500.00 1,200.00	8,000 47,831 20,150 20,000 4,675 3,000 541,832 2,500 2,000 7,200	above labs + toilets allowance allowance allowance allowance allowance allowance style="color: red; color: red; co
99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118	Ceiling Finishes Gypsum board ceilings Gypsum board soffits Allow for patching and repairing (E) ceilings as necessary Allow for lobby ceiling Allow for specialty ceiling finishes Miscellaneous Finishes Allow for miscellaneous painting Allow for transitions and thresholds FLOOR, WALL & CEILING FINISHES Fittings Ladder at elevator pit Allow for recessed fire extinguisher cabinets Toilet cubicles, regular Toilet cubicles, disabled	2,378 200 31,887 403 1 9,349 1	SF LS SF LS EA EA EA EA	1.50 50.00 20,000.00 0.50 3,000.00 2,500.00 500.00 1,200.00 1,200.00	8,000 47,831 20,150 20,000 4,675 3,000 541,832 2,500 2,000 7,200 4,800	above labs + toilets allowance allowance allowance allowance allowance allowance style="color: red; color: red; co
99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120	Ceiling Finishes Gypsum board ceilings Gypsum board soffits Allow for patching and repairing (E) ceilings as necessary Allow for lobby ceiling Allow for specialty ceiling finishes Miscellaneous Finishes Allow for miscellaneous painting Allow for transitions and thresholds FLOOR, WALL & CEILING FINISHES Fittings Ladder at elevator pit Allow for recessed fire extinguisher cabinets Toilet cubicles, regular Toilet cubicles, disabled Grab bars, 36"	2,378 200 31,887 403 1 9,349 1	SF LS SF LS EA EA EA EA	1.50 50.00 20,000.00 0.50 3,000.00 2,500.00 500.00 1,200.00 1,200.00 165.00	8,000 47,831 20,150 20,000 4,675 3,000 541,832 2,500 2,000 7,200 4,800 660	above labs + toilets allowance allowance allowance allowance allowance allowance style="color: red; color: red; co
99 100 101 102 103 104 105 106 107 108 109 110	Ceiling Finishes Gypsum board ceilings Gypsum board soffits Allow for patching and repairing (E) ceilings as necessary Allow for lobby ceiling Allow for specialty ceiling finishes Miscellaneous Finishes Allow for miscellaneous painting Allow for transitions and thresholds FLOOR, WALL & CEILING FINISHES Fittings Ladder at elevator pit Allow for recessed fire extinguisher cabinets Toilet cubicles, regular Toilet cubicles, disabled Grab bars, 36" Grab bars, 42"	2,378 200 31,887 403 1 9,349 1	SF LS SF LS EA EA EA EA EA EA	2,500.00 20,000 20,000.00 0.50 3,000.00 2,500.00 1,200.00 1,200.00 1,200.00 1,85.00	8,000 47,831 20,150 20,000 4,675 3,000 541,832 2,500 2,000 7,200 4,800 660 740	above labs + toilets allowance allowance allowance allowance allowance allowance style="color: red; color: red; co
999 1000 1011 1022 1033 1044 105 106 107 108 109 1110 1111 1112 1113 1114 1115 1116 1117 1118 1119 120 121	Ceiling Finishes Gypsum board ceilings Gypsum board soffits Allow for patching and repairing (E) ceilings as necessary Allow for lobby ceiling Allow for specialty ceiling finishes Miscellaneous Finishes Allow for miscellaneous painting Allow for transitions and thresholds FLOOR, WALL & CEILING FINISHES Fittings Ladder at elevator pit Allow for recessed fire extinguisher cabinets Toilet cubicles, regular Toilet cubicles, disabled Grab bars, 36" Grab bars, 42" Toilet tissue dispenser	2,378 200 31,887 403 1 9,349 1 1 4 6 4 4 4 4	SF LS SF LS EA EA EA EA EA EA	2,500.00 2,500.00 2,500.00 2,500.00 1,200.00 1,200.00 1,85.00 55.00	8,000 47,831 20,150 20,000 4,675 3,000 541,832 2,500 2,000 7,200 4,800 660 740 550	above labs + toilets allowance allowance allowance allowance allowance allowance style="color: red; color: red; co

GSF: 9,349

tbd consultants

ESTIMATE DETAIL

_0	WAIL DETAIL				GGI .	3,343
REF	DESCRIPTION	QUANTITY	UoM	UNIT RATE	TOTAL	COMMENTS
125	Mirrors	120	SF	35.00	4,200	
126	Paper towel dispenser	6	EA	120.00	720	
127	Allow for whiteboards and marker boards	1	LS	5,000.00	5,000	
128	Allow for horizontal blinds at windows	360	SF	4.00	1,440	allowance
129	Allow for interior code signage	9,349	SF	0.35	3,272	allowance
130			SF			
	Miscellaneous metals	9,349		2.00	18,698	allowance
131	Rough carpentry	9,349	SF	1.00	9,349	allowance
132						
133	<u>Fixed Furnishings</u>					subtotal \$24,275, \$3 / sf
134	Vanity units	20	LF	200.00	4,000	
135	Base unit and counter	20	LF	350.00	7,000	allowance
136	Wall unit	20	LF	280.00	5,600	allowance
137	Allow for miscellaneous shelving	1	LS	3,000.00	3,000	
138	Allow for miscellaneous casework	9,349	SF	0.50	4,675	allowance
139	Allow for fillscenarieous casework	3,343	- 51	0.50	4,075	allowalice
	Managed to Provide the second					11111051115
140	Moveable Furnishings					subtotal \$51,145, \$5 / sf
141	Lab workstations	17	LF	200.00	3,400	
142	Lab workstation chairs	4	EA	250.00	1,000	
143	Allow for miscellaneous furnishings	9,349	SF	5.00	46,745	allowance
144						
145	Equipment					
146	Allow for installing OSCI equipment	9,349	SF	0.20	1,870	allowance
147	Allow for CSCI equipment	9,349	SF	0.30	2,805	allowance
148	Allow for Goot equipment	9,349	JI"	0.30	2,000	allowalice
149	FUNCTION EQUIPMENT & SPECIALTIES				143,804	\$15.38 / SF
150						
	Stair Construction					subtotal \$92,500, \$10 / sf
152		1		40,000.00	40.000	συνισται φσ ∠, συσ, φτο / SI
	Lobby stair and landings		FLT	· · · · · · · · · · · · · · · · · · ·	40,000	
153	Glass balustrading at lobby stairs	65	LF	500.00	32,500	
154	Allow for upgrades to (E) stairs, replacing				20,000	
	balustrading and handrails as necessary	2	FLT	10,000.00	20,000	allowance
155						
156	Elevators + Lifts					
157	Elevator, 2 stop	1	EA	90,000.00	90,000	3,500lb hydraulic
158	Allow for cab fit-out	<u> </u>	EA	8,000.00	8,000	
159	Allow for cab in-out		LA	0,000.00	0,000	allowance
160	Escalators + Moving Walkways					
161						
162	Other Conveying Systems					
163						
164						
165	CTAIDS & VEDTICAL TRANSPORTATION				400 E00	\$20.38 / SF
	STAIRS & VERTICAL TRANSPORTATION				190,500	\$20.36 / SF
166						
167	Sanitary fixtures	20	FX	·		subtotal \$45,100, \$5 / sf
168	Fixtures, including local connection pipework	38	FX			
169	Waterclosets, dual flush	10	EA	2,200.00	22,000	
170	Urinals, waterless	2	EA	1,200.00	2,400	
171	·	8	EA	1,800.00		
	Lavatories				14,400	
172	Sensors	18	EA	350.00	6,300	
173						
174	Sanitary and domestic water					subtotal \$100,000, \$11 / sf
175	Rough-in for fixtures, including sanitary waste,					
	vent, domestic hot/cold water, insulation	20	EA	5,000.00	100,000	
176		20	∟ ∧	3,000.00		
	Water metering				Existing	
177	Reduce pressure backflow preventers - 2"				Existing	
178						
179	Water treatment and circulation					
180	Gas-fired water heater	1	EA	3,000.00	3,000	
181	Expansion tank	1	EA	300.00	300	
182	Circulation pump	1	EA	600.00	600	
183	man band	•		300.00		
184	Laboratory piping	9,349	SF	5.00	16 715	
	Laboratory piping Madifications to existing No equipment	9,349	SF	ე.00	46,745	
185	Modifications to existing. No equipment					
	replacement					
186						
187	Gas distribution	1	LS	5,000.00	5,000	
		-	-	-,	-,	_

ESTIMATE DETAIL



GSF: 9,349

REF	DESCRIPTION	QUANTITY	UoM	UNIT RATE	TOTAL	COMMENTS
188 189	Doof water drains as				Eviation	
190	Roof water drainage				Existing	
191	Reclaim water system and irrigation	1	LS	5,000.00	5,000	
192	Other Physician Contents					
193 194	Other Plumbing Systems LEED Commissioning assistance	1	LS	4,114.90	4,115	2%
195	Miscellaneous plumbing	<u></u>	LS	6,172.35	6,172	Testing, Sterlization, flushing
196	Firestopping/core drilling	1	LS	2,057.45	2,057	
197	Project requirements (coordination, shop dwg,					
	detailing, project management, material handling,	4		44.400.45	4.4.400	
198	security badging)	1	LS	14,402.15	14,402	
199						
200	PLUMBING SYSTEMS				232,491	\$24.87 / SF
201					•	
202	Heating/Cooling Generating Systems					-
203	Gas fired boilers				Reuse	
204	Cooling tower Water cooled chillers				Reuse Reuse	
206	Non-chemical water treatment and seperator				Reuse	
207	The street water to deliver a superator					
208	Circulation pumps					-
209	Air seperators				Reuse	
210	Expansion tanks Heated hot water pumps				Reuse Reuse	
212	Chilled water pumps				Reuse	
213	Variable frequency drives				Reuse	
214	Vibration isolation				Reuse	
215	Distribution Systems					subtotal \$24,000, \$3 / sf
217	Chilled water piping	300	LF	60.00	18,000	Subtotal \$24,000, \$3 / \$1
218	Valves and specialties				. 0,000	
219	Fancoils	3	EA	800.00	2,400	
220	Insulation	300	LF	12.00	3,600	
222	Terminal + Packaged Units					subtotal \$15,000, \$2 / sf
223	2-pipe fancoils cooling only	3	EA	5,000.00	15,000	Subtotal \$ 10,000, \$2.7.01
224						
225	Air distribution and return	0.077	1.00	40.50	00.040	subtotal \$116,334, \$12 / sf
227	Galvanized sheet metal ductwork, Flexible ductwork	6,077 350	LBS LF	13.50 13.00	82,040 4,550	
228	Volume dampers	70	EA	60.00	4,200	
229	Combination fire/smoke dampers - reinstall	4	EA	2,500.00	10,000	
230	Duct insulation	4,675	SF	2.80	13,090	
231	Acoustical lining	701	SF	3.50	2,454	
233	Diffusers, registers and grilles					
234	Standard diffusers/grilles	9,349	SF	1.50	14,024	
235						
236	Control + Instrumentation Direct digital controls systems					
238	2-pipe fancoils cooling only	12	PTS	800.00	9,600	
239		· -				
240				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		subtotal \$12,960, \$1 / sf
241	2-pipe fancoils cooling only Diffusers, registers and grilles	24 35	HR HR	135.00 135.00	3,240 4,725	
243	Exhaust		HR	135.00	2,160	
244	Dryside	17	HR	135.00	2,295	
245	Wetside	4	HR	135.00	540	
246	Exhaust system					aubtotal \$00.000, \$40.7 of
247	Exhaust system Galvanized sheet metal ductwork,				Reuse	subtotal \$90,000, \$10 / sf
249	Stainless steel exhaust ductwork	3,000	LBS	20.00	60,000	
250	Toilet exhaust fans				Reuse	
251	Fume hood exhaust	10,000	CFM	3.00	30,000	-

ESTIMATE DETAIL

tbd consultants

GSF: 9,349

REF	DESCRIPTION	QUANTITY	UoM	UNIT RATE	TOTAL	COMMENTS
252						
253	Other HVAC Systems					
254	LEED Commissioning assistance					
255	(Fundamental/Enhanced)	1	LS	8,457.54	8,458	3%
256	Seismic, vibration, acoustical	1	LS	2,819.18	2,819	1%
257	Firestopping/core drilling Project requirements (coordination, shop dwg,	1	LS	2,819.18	2,819	1%
231	detailing, project management, material handling,					
	security badging)	1	LS	19,734.26	19,734	7%
258	cooming caraging,	·		,	,	
259						
260	HEATING, VENTILATING & AIR CONDITIONING				315,748	\$33.77 / SF
261						
262	Electrical Service + Distribution					subtotal \$120,337, \$13 / sf
263	Remove existing main switchboard, replace with					
	new	1	EA	30,000.00	30,000	
264	Reconnect existing loads to new switchboard	1	LS	6,000.00	6,000	
265 266	New 480/277V panels, feeders New transformers	2 1	EA EA	6,500.00 7,500.00	13,000 7,500	
267	New 208/120V panels, feeders	4	EA	6,500.00	26,000	
268	Replace feeder wiring to existing panelboards to		LA	0,000.00	20,000	
	remain	1	LS	15,000.00	15,000	
269	Connect elevator	1	EA	6,500.00	6,500	
270	Connect mechanical equipment	8	EA	1,750.00	14,000	
271	Revise grounding as required	9,349	SF	0.25	2,337	
272						
273	Lighting + Branch Wiring	100	EA	475.00	76,000	subtotal \$135,462, \$14 / sf
275	Supply, install light fixtures Exit lights	160 10	EA	250.00	76,000 2,500	
276	Battery packs, integral to fixtures	40	EA	130.00	5,200	
277	Lighting back boxes	140	EA	26.00	3,640	
278	Lighting conduit, wire	2,200	LF	7.92	17,424	
279	Misc. lighting controls	9,349	SF	2.00	18,698	
280	Dimming in liquid scintillation counting room	1	LS	2,000.00	2,000	
281	Misc. electrical at revised lobby	1	LS	10,000.00	10,000	
282	Hand Commission of Downs					
283	User Convenience Power Convenience outlets, surface mounted raceways					
204	etc.	9,349	SF	8.00	74,792	
285	Misc. equipment connections	9,349	SF	5.00	46,745	
286		5,010			,	
287	Communications + Security					subtotal \$84,141, \$9 / sf
288	Telephone/data					
289	Misc. infrastructure, J-hooks etc.	9,349	SF	2.00	18,698	
290	Cable, terminations	9,349	SF	7.00	65,443	
292	Fire Alarm					
293	Modify as required	9,349	SF	2.50	23,373	
294		0,040	<u> </u>	2.00	20,070	
295	Security					
296	Conduit, boxes	9,349	SF	0.50	4,675	
297	Devices, control panels, cabling	9,349	SF	2.50	23,373	
298	And a Official					
299 300	Audio/Visual	0.040	C.F.	4.05	11.000	
300	Conduit, boxes, cabling	9,349	SF	1.25	11,686	
302	Misc.					subtotal \$46,700, \$5 / sf
303	Seismic bracing	1	LS	13,000.00	13,000	
304	Testing, commissioning	1	LS	13,000.00	13,000	
305	Coordination, documentation	1	LS	13,000.00	13,000	
306	Start-up	1	LS	5,200.00	5,200	
307	Trade demolition	1	LS	2,500.00	2,500	

365

366 367

368

Connection to existing

Connection to existing

Sanitary Sewer



60% CDR Stage - REMODEL tbd consultants **ESTIMATE DETAIL** GSF: 9,349 **REF DESCRIPTION** QUANTITY UoM **UNIT RATE COMMENTS** TOTAL 308 309 **CCTV** 310 311 Clocks excluded - N/A 312 313 Paging excluded - N/A 314 Central UPS 315 excluded - N/A 316 317 **ELEC. LIGHTING, POWER & COMMUNICATIONS** \$61.11 / SF 318 571,284 319 320 **Sprinklers** 9,349 321 Automatic wet sprinkler system SF 6.50 60,769 322 323 **FIRE PROTECTION SYSTEMS** 60,769 \$6.5 / SF 324 325 326 **Building Elements Demolition** 327 Allow for demolishing and clearing (E) areas 9,349 SF 10.00 93,490 328 329 **Hazardous Components Abatement** 330 9,349 SF 8.00 74,792 Allow for hazardous abatement 331 332 Site Clearing 333 500.00 Allow for clearing (E) site 1 LS 500 334 Allow for site survey LS 2,000.00 2,000 335 336 Site Demolition + Relocations 1 LS 337 Allow for site demolitions 500.00 500 338 Site Earthwork 339 340 N/A 341 342 **Hazardous Waste Remediation** 343 Excluded excluded

344						
345						
346	SITE PREPARATION & DEMOLITION				171,282	\$18.32 / SF
347						
348						
349	Parking Lots					
350	Allow for restriping and resigning (E) parking stalls	1	LS	1,500.00	1,500	allowance
351						
352	Pedestrian Paving					
353	N/A					
354						
355	Site Development					
356	N/A					
357						
358	Landscaping					
359	N/A					
360						
361						_
362	SITE PAVING, STRUCTURES & LANDSCAPING				1,500	\$0.16 / SF
363						
364	Water Supply					

allowance

allowance

1

LS

LS

5,000.00

10,000.00

5,000

10,000



ESTIMATE DETAIL GSF: 9,349

PEE	DESCRIPTION	QUANTITY	UoM	UNIT RATE	TOTAL	COMMENTS
369	DESCRIPTION	QUANTITI	OOW	UNITRATE	IOTAL	COMMENTS
370	Storm Sewer					
371	Connection to existing	1	LS	5,000.00	5,000	allowance
372	Connection to existing	•		0,000.00	0,000	allowarise
373	Heating Distribution					
374	Connection to existing	1	LS	5,000.00	5,000	allowance
375	<u> </u>			-,	-,	
376	Cooling Distribution					
377	Connection to existing	1	LS	5,000.00	5,000	allowance
378						
379	Electrical Distribution					
380	Replace existing incoming feeder, allow 300ft	600	LF	146.24	87,744	
381						
382	Site Lighting					
383	Not included, assume existing is adequate					
384						
385	Site Communications + Security					
386	Not included, assume existing is adequate					
387						
388	Other Site Electrical Utilities					
389	N/A					
390						
391	Other Site Systems + Equipment					-
392	N/A					
393						
394						
395	UTILITIES ON SITE				117,744	\$12.59 / SF