Santa Cruz Downtown Library

Feasibility Study Menlo Park, California

Based on review & analysis of:

Program Design Package

Report Prepared for:

Noll & Tam Architects

October 4, 2017

more value, less risk

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BASIS OF ESTIMATE

REFERENCE DOCUMENTATION

This Construction Cost Estimate was produced from the following documentation. Design and engineering changes occurring subsequent to the issue of these documents have not been incorporated in this estimate.

Document	Date
Noll & Tam Library Presentation	9/13/2017
Drawings of existing building Downtown Feasibility Study excerpt	6/21/2017

PROJECT DESCRIPTION

The scope of work comprises four development schemes for the library, each at 44,000 gross square feet. There are three new schemes for the existing site, as well a scheme to renovate the existing building, and one in which the library is built out as a tenant space within the new planned parking structure.

The scheme cost models develop \$/SF units for building systems and are based on benchmark costs of the same system in similar buildings adjusted to meet site conditions, expected quality, and local vocabulary. Below are a description of some basic assumptions informing the cost models.

Foundations presume spread footings on competent soils. Superstructure may be steel or concrete frame including wood frame or light gauge steel stud framing and shearwalls. The models adopt a likely exterior wall to floor plate ratio and assign a composite rate of \$157/SF of skin. Roofing assumes a TPO or similar membrane including rigid insulation, with skylights in the one story scheme and a occupied roof deck in the two story scheme.

Interior construction assumes stud framing with gypsumboard, wood doors, interior glazing, and standard toilet room accessories, markerboards, signage, etc. Floor finishes include tile in toilet rooms, carpet, with allowances for polished concrete and some stone or equivalent. Ceiling finishes may be a combination of exposed structure, suspended gypsumboard, wood, and acoustic tile. Wall finishes include paint, tile, and allowances for acoustic treatment.

Plumbing systems include fixtures, service piping, rainwater drainage, gas piping, water heater, sterilization and testing of plumbing systems. HVAC systems include heat generation and chilling with hydronic distribution and/or air duct distribution including outlets, dampers and insulation. DDC controls, testing, balancing, and commissioning the HVAC systems are included. Fire protection includes new automatic sprinkler system, complete. Electrical includes service and distribution systems, motor work, user convenience panels and outlets, lighting panels and fixtures, specialty items including grounding, teldata outlets, fire alarm and intrusion alarm systems.

Equipment includes break room appliances, amenities such as a fireplace, and OFCI library equipment. Furnishings include cabinetry, library shelving, and window coverings (some motorized).

Assumptions for the Library tenant improvement build-out scheme coupled to the garage include an 18' floor-to-floor height, with the superstructure, exterior cladding, and waterproofing provided by others. Portions of the mechanical and electrical infrastructure are also provided by others. The Library would provide a topping slab over the substructure provided by others.

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. Conversely in the current competitive market should a larger number of sub-bids be received (i.e. 6 and above) pricing can expected to be lower than the current estimate.

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.

Site Requirements	2.5 - 3.5%
Jobsite Management	9% - 12%
Phasing	0.0%

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

nsurance & Bonding	2.5%
General Contractor Bonding	
Sub-Contractor Bonding	
OSIP	



BASIS OF ESTIMATE

Fee (G.C. Profit)

Additional conditions of construction

The general contract will be by CM/GC method or competitively bid with qualified general and main subcontractors

The entire scope of work for each scheme will be bid as one project

There will not be small business set-aside and equal opportunity employment requirements

4.0%

The contractor will be required to pay prevailing wages

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	15.0%		

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
 0.0%
 Carried else where in owners budget

The Construction Contingency has not been 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 reduce, 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, bidding conditions, claims and delays.

CONSTRUCTION SCHEDULE

Escalation				Duration (days), 1183.5		
Design				Duration (days), 910	0		
Construction					Duration (d	ays), 547	
Dec-	2014	May-2016	Sep-2017	Feb-2019	Jun-2020	Oct-2021	Mar-2023
nstruction Start D I-date of Constru calation Period		Apr-20.	20 48 months		Construction End Construction Dura Escalation End Da	tion	2021 18 months tion Mid-Point

ESCALATION

All of the schemes except the renovation assume a start date of April 2020. The renovation presumes a start date of April 2019

Escalation:	20.51%	Compounded Rate
Year 1	6.50%	
Year 2	6.00%	
Year 3	5.50%	
Year 4	5.00%	
Year 5	4.00%	
Beyond 5 Years	3.50%	

This calculation does not account for adverse bidding conditions and a separate Bid Contingency should be carried if there are limited qualified bidders or if a market research study indicates.



BASIS OF ESTIMATE

EXCLUSIONS

Preconstruction services Surge & moving costs AESS Fireproofing steel Emergency power AV and security equipment Telecommunications equipment Photovoltaic and other alternative power generation systems Artwork / Public art FSC-certified manufactured lumber (Glulams, TJI's, etc. - see alternate) Jockey pump and fire pump Utility connection fees and charges Pre-action fire sprinklers Raised access flooring Level 5 finish Furniture, fixtures and equipment (FF&E) except stacks & appliances Land acquisition, feasibility studies, financing costs and all other owner costs Site surveys, existing condition reports and soils investigation costs Hazardous materials investigations; abatement costs provided as allowance Permits Owner's contingency Design Fees Costs for LEED certification



OVERALL SUMMARY

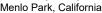
LIBRARY SCHEMES		SF AREA	\$/SF	CONSTRUCTION COST \$
Renovation of Existing		44,000	\$504.00	22,176,000
Sitework		59,200	\$28.40	1,681,000
Escalation to Start Date April 2019	13.8%			3,301,809
Total, Renovation Scheme		44,000	\$617.25	27,158,809
One Story Scheme		44,000	\$609.00	26,796,000
Sitework (includes demo existing building)		59,200	\$31.70	1,877,000
Escalation to Start Date April 2020	20.5%			5,880,832
Total, One Story Scheme		44,000	\$785.31	34,553,832
Two Story Scheme with Roof Deck		44,000	\$632.00	27,796,620
Sitework (includes demo existing building)		59,200	\$37.90	2,244,000
Escalation to Start Date April 2020	20.5%			6,161,331
Total, Two Story w/ Deck Scheme		44,000	\$822.77	36,201,951
Library Tenant Improvement Share of Garage		44,000	\$380.00	16,720,000
Sitework	20 50/			NIC
Escalation to Start Date April 2020 Total, Garage Tenant Improvement Scheme	20.5%	44.000	\$457.94	3,429,272 20,149,272
i stall salage i chant improvement scheme		,000	φ+07. 34	20,140,212



KEY CRITERIA

AREA TABULATION

Floor	REMODEL	NEW	PERIMETER	HEIGHT	COMMENTS
Renovation of Existing					
First Floor	28,000		810	15' - 3"	
Second Floor	16,000		510	17' - 0"	
Subtotal	44,000 SF				
Renovation of Existing -	GSF Not				
Incl. 50% Covered Area		44,000 SF			
Gross Wall Area	21,650	SF		0.492	
Retaining Wall Area	0	SF		0.000	
Finished Wall Area	21,650	SF		0.492	
Glazing Area	5,413	-	25.00%	0.123	
Roof Area Interior Partition Length	33,500	SF LF		0.761	
	2,200			0.050	





RENOVATION OF EXISTING - UNIFORMAT II SUMMAR				44,000
SECTION	%	TOTAL	\$ / SF	COMMENTS
10 FOUNDATIONS	2.2%	352,000	\$8.00	
20 BASEMENT CONSTRUCTION				
ASUBSTRUCTURE	2.2%	352,000	\$8.00	
10 SUPERSTRUCTURE	8.2%	1,320,000	\$30.00	
20 EXTERIOR ENCLOSURE	13.7%	2,200,000	\$50.00	
30 ROOFING	4.1%	660,000	\$15.00	
B SHELL	26.0%	4,180,000	\$95.00	
10 INTERIOR CONSTRUCTION 20 STAIRS	10.9%	1,760,000	\$40.00	
30 INTERIOR FINISHES	15.0%	2,420,000	\$55.00	
C INTERIORS	26.0%	4,180,000	\$95.00	
10 CONVEYING				
20 PLUMBING	2.5%	396,000	\$9.00	
30 HVAC	16.4%	2,640,000	\$60.00	
40 FIRE PROTECTION	1.9%	308,000	\$7.00	
50 ELECTRICAL	16.9%	2,728,000	\$62.00	
D SERVICES	37.7%	6,072,000	\$138.00	
10 EQUIPMENT	0.5%	88,000	\$2.00	
20 FURNISHINGS	5.5%	880,000	\$20.00	
E EQUIPMENT + FURNISHINGS	6.0%	968,000	\$22.00	
10 SPECIAL CONSTRUCTION				
20 SELECTIVE BUILDING DEMOLITION	2.2%	352,000	\$8.00	
F SPECIAL CONSTRUCTION + DEMOLITION	2.2%	352,000	\$8.00	
BUILDING SITEWORK				Separate section
IRECT COSTS		16,104,000	\$366.00	
SITE REQUIREMENTS	3.0%	483,120	\$10.98	
JOBSITE MANAGEMENT PHASING	9.5%	1,529,880	\$34.77	
ESTIMATE SUB-TOTAL		18,117,000	\$411.75	
INSURANCE + BONDING	2.5%	452,925	\$10.29	
FEE	4.0%	724,680	\$16.47	
ESTIMATE SUB-TOTAL		19,294,605	\$438.51	
DESIGN CONTINGENCY CONSTRUCTION CONTINGENCY	15.0%	2,894,191	\$65.78	Excluded
ESTIMATE SUB-TOTAL		22,188,796	\$504.29	
ESCALATION		· •		Start Date April 2019
STIMATE TOTAL		22,188,796	\$504.29	Total add-ons 37.78%
		,,	T	



KEY CRITERIA

AREA TABULATION

Floor	ENCLOSED	COVERED	PERIME	TER HEI	IGHT COMMENTS
One Story Scheme					
First Floor	44,000		1	1,050	16.00 Assume average height
Subtotal	44,000 SF	0	SF		
One Story Scheme - GSF 50% Covered Area	Not Incl.	44,000	SF		
Gross Wall Area	21,8			0.496	
Retaining Wall Area		0 SF		0.000	
Finished Wall Area Glazing Area	21,8	840 SF 460 SF	25.00%	0.496 0.124	
Roof Area	5,4 46,2		23.00%	1.050	
Interior Partition Length		200 LF		0.050	





ONE STORY SCHEME - UNIFORMAT II SUMMARY			GSF :	44,000
SECTION	%	TOTAL	\$ / SF	COMMENTS
10 FOUNDATIONS 20 BASEMENT CONSTRUCTION	5.9%	1,144,000	\$26.00	
A SUBSTRUCTURE	5.9%	1,144,000	\$26.00	
10 SUPERSTRUCTURE	13.1%	2,552,000	\$58.00	
20 EXTERIOR ENCLOSURE	17.6%	3,432,000	\$78.00	
30 ROOFING	5.7%	1,100,000	\$25.00	
B SHELL	36.4%	7,084,000	\$161.00	
10 INTERIOR CONSTRUCTION 20 STAIRS	9.0%	1,760,000	\$40.00	
30 INTERIOR FINISHES	12.4%	2,420,000	\$55.00	
C INTERIORS	21.5%	4,180,000	\$95.00	
10 CONVEYING				
20 PLUMBING	2.0%	396,000	\$9.00	
30 HVAC	13.6%	2,640,000	\$60.00	
40 FIRE PROTECTION	1.6%	308,000	\$7.00	
50 ELECTRICAL	14.0%	2,728,000	\$62.00	
D SERVICES	31.2%	6,072,000	\$138.00	
10 EQUIPMENT	0.5%	88,000	\$2.00	
20 FURNISHINGS	4.5%	880,000	\$20.00	
E EQUIPMENT + FURNISHINGS	5.0%	968,000	\$22.00	
10 SPECIAL CONSTRUCTION20 SELECTIVE BUILDING DEMOLITION				
F SPECIAL CONSTRUCTION + DEMOLITION				
G BUILDING SITEWORK				Separate section
DIRECT COSTS		19,448,000	\$442.00	
SITE REQUIREMENTS	3.0%	583,440	\$13.26	
JOBSITE MANAGEMENT SHIFT PREMIUM	9.5%	1,847,560	\$41.99	
ESTIMATE SUB-TOTAL		21,879,000	\$497.25	
INSURANCE + BONDING	2.5%	546,975	\$12.43	
FEE	4.0%	875,160	\$19.89	
ESTIMATE SUB-TOTAL		23,301,135	\$529.57	
DESIGN CONTINGENCY CONSTRUCTION CONTINGENCY	15.0%	3,495,170	\$79.44	Excluded
ESTIMATE SUB-TOTAL		26,796,305	\$609.01	
ESCALATION				Start Date April 2020
ESTIMATE TOTAL		26,796,305	\$609.01	Total add-ons 37.78%



KEY CRITERIA

AREA TABULATION

Floor	ENCLOSED	COVERED	PERIMETER	HEIGHT	COMMENTS
Two Story w/ Roof D	eck Scheme				
First Floor	26,000		840	16.00	
Second Floor	18,000		540	16.00	
Subtotal	44,000 SF	0 SF			
Two Story w/ Roof D GSF Not Incl. 50% C		44,000 SF			
Gross Wall Area	22,00	80 SF		0.502	
Retaining Wall Area	22,0	0 SF		0.000	
Finished Wall Area	22,0	80 SF		0.502	
		24 SF 3	0.00%	0.151	
Glazing Area	6,62	24 3 7 3	0.00%	0.151	
Glazing Area Roof Area	6,6 28,6		0.00%	0.650	





TWO STORY W/ ROOF DECK SCHEME - UNIFORMAT II SUMMARY

TWO STORY W/ ROOF DECK SCHEME - UNIFORMAT I	SUMMARY		GSF :	44,000
SECTION	%	TOTAL	\$ / SF	COMMENTS
10 FOUNDATIONS 20 BASEMENT CONSTRUCTION	4.6%	924,000	\$21.00	
	4.6%	924,000	\$21.00	
10 SUPERSTRUCTURE	16.4%	3,300,000	\$75.00	
20 EXTERIOR ENCLOSURE	17.2%	3,476,000	\$79.00	
30 ROOFING	4.8%	968,000	\$22.00	
B SHELL	38.4%	7,744,000	\$176.00	
10 INTERIOR CONSTRUCTION	8.7%	1,760,000	\$40.00	
20 STAIRS	0.7%	132,000	\$3.00	
30 INTERIOR FINISHES	12.0%	2,420,000	\$55.00	
C INTERIORS	21.4%	4,312,000	\$98.00	
10 CONVEYING	0.8%	154,000	\$3.50	
20 PLUMBING	2.0%	396,000	\$9.00	
30 HVAC	13.1%	2,640,000	\$60.00	
40 FIRE PROTECTION	1.5%	308,000	\$7.00	
50 ELECTRICAL	13.5%	2,728,000	\$62.00	
D SERVICES	30.9%	6,226,000	\$141.50	
10 EQUIPMENT	0.4%	88,000	\$2.00	
20 FURNISHINGS	4.4%	880,000	\$20.00	
E EQUIPMENT + FURNISHINGS	4.8%	968,000	\$22.00	
10 SPECIAL CONSTRUCTION				
20 SELECTIVE BUILDING DEMOLITION				
F SPECIAL CONSTRUCTION + DEMOLITION				
G BUILDING SITEWORK				
DIRECT COSTS		20,174,000	\$458.50	
SITE REQUIREMENTS	3.0%	605,220	\$13.76	
JOBSITE MANAGEMENT	9.5%	1,916,530	\$43.56	
SHIFT PREMIUM				
ESTIMATE SUB-TOTAL		22,695,750	\$515.81	
INSURANCE + BONDING	2.5%	567,394	\$12.90	
FEE	4.0%	907,830	\$20.63	
ESTIMATE SUB-TOTAL		24,170,974	\$549.34	
DESIGN CONTINGENCY CONSTRUCTION CONTINGENCY	15.0%	3,625,646	\$82.40	Excluded
ESTIMATE SUB-TOTAL		27,796,620	\$631.74	
ESCALATION				Start Date April 2020
ESTIMATE TOTAL		27,796,620	\$631.74	Total add-ons 37.78%



RENOVATION SCHEME SITEWORK - UNIFORMAT II SUMMARY			GSF :	59,200
SECTION	%	TOTAL	\$ / SF	COMMENTS
10 SITE PREPARATION	10.8%	131,200	\$2.22	
20 SITE IMPROVEMENTS	68.3%	832,050	\$14.05	
30 SITE MECHANICAL UTILITIES	8.6%	104,550	\$1.77	
40 SITE ELECTRICAL UTILITIES	12.4%	150,960	\$2.55	
G BUILDING SITEWORK	100.0%	1,218,760	\$20.59	
DIRECT COSTS		1,218,760	\$20.59	
SITE REQUIREMENTS	3.0%	36,563	\$0.62	
JOBSITE MANAGEMENT	9.5%	115,782	\$1.96	
SHIFT PREMIUM				Excluded
ESTIMATE SUB-TOTAL		1,371,105	\$23.16	
INSURANCE + BONDING	2.5%	34,278	\$0.58	
FEE	4.0%	54,844	\$0.93	
ESTIMATE SUB-TOTAL		1,460,227	\$24.67	
DESIGN CONTINGENCY	15.0%	219,034	\$3.70	
CONSTRUCTION CONTINGENCY				Excluded
ESTIMATE SUB-TOTAL		1,679,261	\$28.37	
ESCALATION				
ESTIMATE TOTAL		1,679,261	\$28.37	Total add-ons 37.78%



	ATION SCHEME SITEWORK - UNIFORMAT II SUMM				GSF :	59,200
_	F DESCRIPTION	QUANTITY	UoM	UNIT RATE	TOTAL	COMMENTS
1	O'the Day and the second					
2	Site Preparation Site area	50 200	SF			
3	Building footprint	59,200 28,000	SF			
5	Building looiphin	20,000	SF			
6	Site clearing and grading					
7	Protect existing features	1	LS	10,000.00	10,000	
8	Construction fencing	800	LF	15.00	12,000	
9	SWPPP	31,200	SF	1.00	31,200	
10	Tree removal	01,200	•	1.00	01,200	NIC
11						
12	Site demolition & removal					
13	Existing building					NIC
14	Miscellaneous site features & paving	31,200	SF	2.00	62,400	
15	· · · ·	· · · ·			· · ·	
16	Rough & fine grading; retain existing lawn	31,200	SF	0.50	15,600	
17					· ·	
18	Hazardous materials abatement					NIC
19						
20			·			
21	SITE PREPARATION				131,200	\$2.22 / SF
22						·
22	Site Improvements					
23 24	Site improvements					
24 25	Vehicular Paving and Curbs					
20	New parking area, 50% of available ground					
26	plane	15,600	SF	6.00	93,600	
27	plane					
28	Pedestrian Paving					
29	Replace existing sidewalk on 3 sides	7,430	SF	15.00	111,450	Additional to site area
30	Hardscape, 50% available area	7,430	SF	20.00	156,000	Additional to site area
31	Taruscape, 50% available area	7,000	01	20.00	130,000	
32	Landscaping & Irrigation					
52	Allow new landscaping & irrigation on 50%					
33	available area	7,800	SF	25.00	195,000	
34						
35	Site Structures					
36	Allow utility & trash enclosures	1	LS	80,000.00	80,000	
37	Seat walls, trellises, planters, etc.	31,200	SF	5.00	156,000	
38	Coat waits, iroinises, plainters, etc.	51,200	01	0.00	130,000	
39	Site Furnishings					
	Allowance for recycling receptacles, bollards,					
40	etc.	1	LS	15,000.00	15,000	
41	010.					
42	Site Signage					
43	Signage & pavement markings	1	LS	25,000.00	25,000	
43 44	eiginge a parement manninge	I	20	20,000.00	20,000	
44						
					020.050	A
46	SITE IMPROVEMENTS				832,050	\$14.05 / SF
47						
48	Site Mechanical Utilities					
49						
50	Water Supply					
51	Fire water connection to existing system	1	LS	10,000.00	10,000	
	Hydrants					NIC
52				15,000.00	15,000	
52	Domestic water connection to existing systems	1	18			
52	Domestic water connection to existing systems	1	LS	15,000.00	15,000	
52 53 54		1	LS	15,000.00	13,000	
52 53 54 55	Sanitary Sewer					
		1 150 2	LS LF EA	85.00 7,500.00	12,750 15,000	



RENO	OVATION SCHEME SITEWORK - UNIFORMAT II S	UMMARY			GSF :	59,200
REF	MF DESCRIPTION	QUANTITY	UoM	UNIT RATE	TOTAL	COMMENTS
58						
59	Storm Sewer					
60	Assume natural percolation & storm drain pipework	31,200	SF	1.50	46,800	
61	· ·					
62	Natural Gas					
63	Connect to existing system	1	LS	5,000.00	5,000	
64						
65						
66	SITE MECHANICAL UTILITIES				104,550	\$1.77 / SF
67						
68	Site Electrical Utilities					
69						
70	Electrical Distribution					
71	Site electrical distribution	59,200	SF	0.90	53,280	
72						
73	Site Lighting	59,200	SF	1.50	88,800	
74						
75	Site Communications & Security					
76	Site distribution & connections	59,200	SF	0.15	8,880	
77						
78						
79	SITE ELECTRICAL UTILITIES				150,960	\$2.55 / SF



ONE STORY SCHEME SITEWORK - UNIFORMAT II SUMMARY			GSF :	59,200
SECTION	%	TOTAL	\$ / SF	COMMENTS
10 SITE PREPARATION	38.6%	526,560	\$8.89	
20 SITE IMPROVEMENTS	40.7%	554,450	\$9.37	
30 SITE MECHANICAL UTILITIES	9.7%	131,750	\$2.23	
40 SITE ELECTRICAL UTILITIES	11.1%	150,960	\$2.55	
G BUILDING SITEWORK	100.0%	1,363,720	\$23.04	
DIRECT COSTS		1,363,720	\$23.04	
SITE REQUIREMENTS	3.0%	40,912	\$0.69	
JOBSITE MANAGEMENT	9.5%	129,553	\$2.19	
SHIFT PREMIUM				Excluded
ESTIMATE SUB-TOTAL		1,534,185	\$25.92	
INSURANCE + BONDING	2.5%	38,355	\$0.65	
FEE	4.0%	61,367	\$1.04	
ESTIMATE SUB-TOTAL		1,633,907	\$27.60	
DESIGN CONTINGENCY	15.0%	245,086	\$4.14	
CONSTRUCTION CONTINGENCY				Excluded
ESTIMATE SUB-TOTAL		1,878,993	\$31.74	
ESCALATION				
ESTIMATE TOTAL		1,878,993	\$31.74	Total add-ons 37.78%



-						00000
_	IF DESCRIPTION	QUANTITY	UoM	UNIT RATE	TOTAL	COMMENTS
	Site Preparation					
2 3	Site Preparation Site area	43,500	SF			
1	Three additional lots	15,700	SF			
+ 5	Building footprint	44,000	SF			
6	Building lootprint	44,000	35			
7	Site clearing and grading					
8	Protect existing features	1	LS	10,000.00	10,000	
9	Construction fencing	800	LS	15.00	12,000	
9 10	SWPPP	15,200	SF	0.30	4,560	
10	Tree removal	15,200	35	0.30	4,500	NIC
12	Thee Territoval					NIC
12	Site demolition & removal					
13		44,000	SF	10.00	440,000	
	Existing building	,	SF SF		,	
15	Miscellaneous site features & paving	15,200	35	2.00	30,400	
16	Pough & fine grading	E0 000	05	0.50	00.000	
17	Rough & fine grading	59,200	SF	0.50	29,600	
18						
19	Hazardous materials abatement					NIC
20						
21						
22	SITE PREPARATION				526,560	\$8.89 / SF
23						
24	Site Improvements					
25	<u></u>					
26	Vehicular Paving and Curbs					
20	New parking area, 50% of available ground					
27		7,600	SF	10.00	76,000	
20	plane					
28	Dedectrion Devine					
29	Pedestrian Paving	7 400	05	45.00	444 450	
30	Replace existing sidewalk on 3 sides	7,430	SF	15.00	111,450	Additional to site area
31	Hardscape, 50% ground plane excluding	3,800	SF	20.00	76,000	
	parking	,			,	
32						
33	Landscaping & Irrigation					
34	Allow new landscaping & irrigation on 50%	3,800	SF	25.00	95,000	
	ground plane excluding parking	0,000	•.	20.00	00,000	
35						
36	Site Structures					
37	Allow utility & trash enclosures	1	LS	80,000.00	80,000	
38	Seat walls, trellises, planters, etc.	15,200	SF	5.00	76,000	
39	· ·				·	
40	Site Furnishings					
	Allowance for recycling receptacles, bollards,	٨	10	45 000 00	45 000	
41	etc.	1	LS	15,000.00	15,000	
42						
43	Site Signage					
44	Signage & pavement markings	1	LS	25,000.00	25,000	
44 45	eignage a pavement mannings	I	20	20,000.00	20,000	
45						
47	SITE IMPROVEMENTS				554,450	\$9.37 / SF
48						
49	Site Mechanical Utilities					
50						
51	Water Supply					
52	Fire water connection to existing system	1	LS	10,000.00	10,000	
53	Hydrants	1	20	10,000.00	10,000	NIC
	ž					
54	Domestic water connection to existing systems	1	LS	15,000.00	15,000	
55						
55 56	Sanitary Sower					
56	Sanitary Sewer	450	15	05.00	40 750	
	Connect to existing sewer system	150	LF	85.00	12,750	
57 58	Allow manholes	2	EA	7,500.00	15,000	



ONE S	TORY SCHEME SITEWORK - UNIFORMAT II SUM	MARY			GSF :	59,200
REF	MF DESCRIPTION	QUANTITY	UoM	UNIT RATE	TOTAL	COMMENTS
59						
60	Storm Sewer					
61	Assume natural percolation & storm drain pipework	59,200	SF	1.25	74,000	
62						
63	Natural Gas					
64	Connect to existing system	1	LS	5,000.00	5,000	
65						
66						
67	SITE MECHANICAL UTILITIES				131,750	\$2.23 / SF
68						
69	Site Electrical Utilities					
70						
71	Electrical Distribution					
72	Site electrical distribution	59,200	SF	0.90	53,280	
73						
74	Site Lighting	59,200	SF	1.50	88,800	
75						
76	Site Communications & Security					
77	Site distribution & connections	59,200	SF	0.15	8,880	
78						
79						
80	SITE ELECTRICAL UTILITIES				150,960	\$2.55 / SF



TWO STORY SCHEME SITEWORK - UNIFORMAT II SUMMARY			GSF :	59,200
SECTION	%	TOTAL	\$ / SF	COMMENTS
10 SITE PREPARATION	34.6%	563,360	\$9.52	
20 SITE IMPROVEMENTS	48.1%	783,000	\$13.23	
30 SITE MECHANICAL UTILITIES	8.1%	131,750	\$2.23	
40 SITE ELECTRICAL UTILITIES	9.3%	150,960	\$2.55	
G BUILDING SITEWORK	100.0%	1,629,070	\$27.52	
DIRECT COSTS		1,629,070	\$27.52	
SITE REQUIREMENTS	3.0%	48,872	\$0.83	
JOBSITE MANAGEMENT	9.5%	154,762	\$2.61	
SHIFT PREMIUM				Excluded
ESTIMATE SUB-TOTAL		1,832,704	\$30.96	
INSURANCE + BONDING	2.5%	45,818	\$0.77	
FEE	4.0%	73,308	\$1.24	
ESTIMATE SUB-TOTAL		1,951,829	\$32.97	
DESIGN CONTINGENCY	15.0%	292,774	\$4.95	
CONSTRUCTION CONTINGENCY				Excluded
ESTIMATE SUB-TOTAL		2,244,604	\$37.92	
ESCALATION				
ESTIMATE TOTAL		2,244,604	\$37.92	Total add-ons 37.78%



F			11-M-		TOTAL	
	F DESCRIPTION	QUANTITY	UoM	UNIT RATE	TOTAL	COMMENTS
1	Site Droporation					
2	Site Preparation Site area	43,500	SF			
3 4	Three additional lots	43,500	SF SF			
5		28,000	SF SF			
6	Building footprint	28,000	SF			
7	Site clearing and grading					
8	Protect existing features	1	LS	10,000.00	10,000	
9	Construction fencing	800	LS	15.00	12,000	
10	SWPPP	31,200	SF	0.30	9,360	
11	Tree removal	51,200	36	0.30	9,300	NIC
12	Thee territoval					NIC
13	Site demolition & removal					
14	Existing building	44,000	SF	10.00	440,000	
15	Miscellaneous site features & paving	31,200	SF	2.00	62,400	
16	Miscellarieous site leatures & paving	51,200	51	2.00	02,400	
17	Rough & fine grading	59,200	SF	0.50	29,600	
18		59,200	0	0.50	29,000	
19	Hazardous materials abatement					NIC
20	המבמוסטט וומנטומוס מסמנטווטוונ					1110
20						
					EC2 000	A0 50 / 05
22	SITE PREPARATION				563,360	\$9.52 / SF
23						
24	Site Improvements					
25						
26	Vehicular Paving and Curbs					
27	New parking area, 50% of available ground plane	15,600	SF	10.00	156,000	
28	÷					
29	Pedestrian Paving					
30	Replace existing sidewalk on 3 sides		SF	15.00		Additional to site area
21	Hardscape, 50% ground plane excluding	7 000	с.	20.00	156 000	
31	parking	7,800	SF	20.00	156,000	
32						
33	Landscaping & Irrigation					
34	Allow new landscaping & irrigation on 50%	7,800	SF	25.00	195,000	
J4	ground plane excluding parking	7,000	JL	23.00	195,000	
35						
36	Site Structures					
37	Allow utility & trash enclosures	1	LS	80,000.00	80,000	
38	Seat walls, trellises, planters, etc.	31,200	SF	5.00	156,000	
39						
40	Site Furnishings					
41	Allowance for recycling receptacles, bollards,	1	LS	15,000.00	15,000	
	etc.	I	L0	10,000.00	13,000	
42						
43	<u>Site Signage</u>					
44	Signage & pavement markings	1	LS	25,000.00	25,000	
45						
46						
47	SITE IMPROVEMENTS				783,000	\$13.23 / SF
48					,	
	Site Machanical Utilities					
49 50	Site Mechanical Utilities					
50	Water Supply					
51	Water Supply	1	LS	10 000 00	10.000	
52	Fire water connection to existing system	1	LS	10,000.00	10,000	NIC
53	Hydrants					NIC
54	Domestic water connection to existing systems	1	LS	15,000.00	15,000	
	5,			•	,	
55						
56	Sanitary Sewer				10 750	
67						
57 58	Connect to existing sewer system Allow manholes	150 2	LF EA	85.00 7,500.00	12,750 15,000	



10 31	ORY SCHEME SITEWORK - UNIFORMAT II SUM				GSF :	59,200
REF M	F DESCRIPTION	QUANTITY	UoM	UNIT RATE	TOTAL	COMMENTS
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62						
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65						
66						
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68						
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70						
71	Electrical Distribution					
72	Site electrical distribution	59,200	SF	0.90	53,280	
73						
74	Site Lighting	59,200	SF	1.50	88,800	
75						
76	Site Communications & Security					
77	Site distribution & connections	59,200	SF	0.15	8,880	
78						
79						
80	SITE ELECTRICAL UTILITIES				150,960	\$2.55 / SF