CONSTRUCTION™

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Opinion of Cost for:

Lincoln Elementary School

Oakland Unified School District
Oakland, CA 94607

Adding Trees on Street / Envelope Glazing / Landscaping the Courtyard / Play Structure / Roof Insulation & Reroofing / Roof Mounted Photovoltaic

25-Aug-16

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Prepared By:
Tom Camden, Preconstruction Manager

LOCATION: Lincoln Elementary School

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ESTIMATE WORKSHEET for Adding Trees on Street

Description	Quantity	Unit	UNIT COST Labor	Material	Equip.	Other	Lump Sum Subcontract	SUBTOTALS Labor	Material	Equip.	Other	Total	Comments
Cut & remove existing concrete	8	hrs	255		190			2040	0	1520	0	3,560	1800 sf
Dumpster(s)	2	ea				450		0	0	0	900	900	
Prep/grade	1800	sf				6.22		0	0	0	11196	11,196	
Develop irrigation	1800	sf				2.65	0	0	0	0	4770	4,770	
Trees	10	ea				795		0	0	0	7950	7,950	24" box
DG at tree wells	1800	sf				8		0	0	0	14400	14,400	w/metal edge
Pavers w/edge treatment	480	sf				20		0	0	0	9600	9,600	w/compaction and stabilizer
								0	0	0	0	0	
								0	0	0	0	0	
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								0	0	0	0	0	
Subtotal of Work							0	2040	0	1520	48816	52,376	
Contractor Labor Burden @ 77%												included above	
Material Tax @ 8.75 %									0			0	
Tax on Equipment Rental @ 8.75%										133		133	
Sub Bond							0					0	
Escalation												0	
Design Contingency												0	
Construction Contingency (10%)												5251	
Subcontractor Mark up								306	0	228	7322	7856	
Construction Phase Services 15%												10078	
Subtotal of Estimate												**$77,266**	location

Notes:

1.) At this location, it may be possible to place the trees in the existing narrow strip of landscaping. This would eliminate the removal of the sidewalk.

2.) Aggregate paving does not currently exist at this site in the landscape areas. It may be possible to eliminate.

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ESTIMATE WORKSHEET for Envelope Glazing

Description	Quantity	Unit	UNIT COST Labor	UNIT COST Material	UNIT COST Equip.	UNIT COST Other	Lump Sum Subcontract	SUBTOTALS Labor	SUBTOTALS Material	SUBTOTALS Equip.	SUBTOTALS Other	Total	Comments
								0	0	0	0	0	
Enhance existing operable windows with high performance, insulated glass units	1440	sf					122400	0	0	0	0	122,400	120 locations. 12 sf lite size/ea.
Add operable panel above existing operable window with vision glass.	1920	sf					163200	0	0	0	0	163,200	16 sf/ea. 120 locations
								0	0	0	0	0	
								0	0	0	0	0	
								0	0	0	0	0	
								0	0	0	0	0	
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Subtotal of Work							285600	0	0	0	0	285,600	
Contractor Labor Burden @ 77%												included above	
Material Tax @ 8.75 %									0			0	
Tax on Equipment Rental @ 8.75%										0		0	
Sub Bond							7140					7140	
Escalation												0	
Design Contingency												0	
Construction Contingency (10%)												29274	
Subcontractor Mark up								0	0	0	0	0	
Construction Phase Services 15%												49587	
Subtotal of Estimate												**$380,169**	

Notes:

1.) $19,008 per classroom

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ESTIMATE WORKSHEET for Landscaping the Courtyard

Description	Quantity	Unit	UNIT COST Labor	UNIT COST Material	UNIT COST Equip.	UNIT COST Other	Lump Sum Subcontract	SUBTOTALS Labor	SUBTOTALS Material	SUBTOTALS Equip.	SUBTOTALS Other	Total	Comments
Cut & remove paving	16	hrs	425		225			6800	0	3600	0	10,400	2112 sf
Prep/grade bioswale	2112	sf				12		0	0	0	25344	25,344	
Underground storm drain	300	lf				55	0	0	0	0	16500	16,500	
Area drain	2	ea				1800		0	0	0	3600	3,600	
Perf pipe	88	lf				32		0	0	0	2816	2,816	
Landscape and irrigation	2112	sf					8976	0	0	0	0	8,976	
Pavers w/edge treatment	480	sf				20		0	0	0	9600	9,600	sand bed, edge trim, grade
								0	0	0	0	0	
								0	0	0	0	0	
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Subtotal of Work							8976	6800	0	3600	57860	77,236	
Contractor Labor Burden @ 77%												included above	
Material Tax @ 8.75 %									0			0	
Tax on Equipment Rental @ 8.75%										315		315	
Sub Bond							224					224	
Escalation												0	
Design Contingency												0	
Construction Contingency (10%)												7778	
Subcontractor Mark up								1020	0	540	8679	10239	If subcontracted
Construction Phase Services 15%												14716	
Subtotal of Estimate												**$112,825**	location

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ESTIMATE WORKSHEET for Play Structure

Description	Quantity	Unit	UNIT COST Labor	UNIT COST Material	UNIT COST Equip.	UNIT COST Other	Lump Sum Subcontract	SUBTOTALS Labor	SUBTOTALS Material	SUBTOTALS Equip.	SUBTOTALS Other	Total	Comments
Cut & remove existing paving	4	hrs	255		190			1020	0	760	0	1,780	
footings								0	0	0	0	0	included in structure cost
paint								0	0	0	0	0	included in structure cost
permits								0	0	0	0	0	DSA approved
Single post play structure, 10'x26'	260	sf					20280	0	0	0	0	20,280	with metal deck type cover
								0	0	0	0	0	
								0	0	0	0	0	
								0	0	0	0	0	
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Subtotal of Work							20280	1020	0	760	0	22,060	
Contractor Labor Burden @ 77%												included above	
Material Tax @ 8.75 %									0			0	
Tax on Equipment Rental @ 8.75%										67		67	
Sub Bond							507					507	
Escalation												0	
Design Contingency												0	
Construction Contingency (10%)												2263	
Subcontractor Mark up								153	0	114	0	267	
Construction Phase Services 15%												3874	
Subtotal of Estimate												**$29,699**	location

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ESTIMATE WORKSHEET for Roof Insulation/Reroofing

Description	Quantity	Unit	UNIT COST Labor	UNIT COST Material	UNIT COST Equip.	UNIT COST Other	Lump Sum Subcontract	SUBTOTALS Labor	SUBTOTALS Material	SUBTOTALS Equip.	SUBTOTALS Other	Total	Comments
								0	0	0	0	0	
Remove old roofing, insulation, reroofing	10316	sf					185688	0	0	0	0	185,688	
Parapet cap	445	lf					16020	0	0	0	0	16,020	
								0	0	0	0	0	
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Subtotal of Work							201708	0	0	0	0	201,708	
Contractor Labor Burden @ 77%												included above	
Material Tax @ 8.75 %									0			0	
Tax on Equipment Rental @ 8.75%										0		0	
Sub Bond							5043					5043	
Escalation												0	
Design Contingency												0	
Construction Contingency (5%)												10338	
Subcontractor Mark up								0	0	0	0	0	
Construction Phase Services 5%												11157	
Subtotal of Estimate												**$234,296**	

Notes:

1.) $26,037 per classroom (for 9 classrooms) and single story building. If two story the cost per classroom is $13,016.

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ESTIMATE WORKSHEET for Roof Mounted Photovoltaic

Description	Quantity	Unit	UNIT COST Labor	UNIT COST Material	UNIT COST Equip.	UNIT COST Other	Lump Sum Subcontract	SUBTOTALS Labor	SUBTOTALS Material	SUBTOTALS Equip.	SUBTOTALS Other	Total	Comments
								0	0	0	0	0	
Approx 13,400 sf of classroom space. Size for 33% of annual electrical demand.	44220	KWh					152559	0	0	0	0	152,559	Annual classroom demand is estimated to be 10KWh
Roof patching and repair	707	ea				8		0	0	0	5656	5,656	
								0	0	0	0	0	
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Subtotal of Work							152559	0	0	0	5656	158,215	
Contractor Labor Burden @ 77%												included above	
Material Tax @ 8.75 %									0			0	
Tax on Equipment Rental @ 8.75%										0		0	
Sub Bond							3814					3814	
Escalation												0	
Design Contingency												0	
Construction Contingency (5%)												8101	
Subcontractor Mark up								0	0	0	848	848	
Construction Phase Services 5%												8786	
Subtotal of Estimate												**$184,512**	

Notes:

1.) $9,225 per classroom