

Appendix F. Rough Order of Magnitude (ROM) Cost Estimate

PLEASE NOTE: The information, analysis, assessments and opinions contained in this document are intended for general evaluation purposes only. This document is intended for use only by its specified client and is NOT intended for use, reliance or in making financial/investment decisions by outside parties.

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**Feasibility Cost Estimate:
FIS Facility - Options Comparison**

Item Description	North FIS Facility - Option 1 Summary	South FIS Facility - Option 2 Summary	South FIS Facility - Option 3 Summary
1.1 Design (approx. 7.0%)	\$ 1,145,000	\$ 921,000	\$ 1,081,000
1.2 Administrative Costs (approx. 3.0%)	\$ 491,000	\$ 395,000	\$ 464,000
1.3 Design & Administrative Costs Sub-Total (approx. 10.0%)	\$ 1,636,000	\$ 1,316,000	\$ 1,545,000
2.1 SITEWORK	\$ 931,000	\$ 956,000	\$ 813,000
2.2 BUILDING	\$ 12,032,000	\$ 10,817,000	\$ 8,274,000
2.3 BAGGAGE CLAIM	\$ 381,000	\$ 1,379,000	\$ 1,379,000
2.4 AIRCRAFT PARKING	\$ 3,013,000	N/A	N/A
2.5 (E) CHECKPOINT RETROFIT	N/A	N/A	\$ 575,000
2.6 NEW CHECKPOINT	N/A	N/A	\$ 4,401,000
2.7 Construction Costs Sub-Total	\$ 16,357,000	\$ 13,152,000	\$ 15,442,000
3.1 Utility Coordination Allowance (approx. 4.0%)	\$ 655,000	\$ 527,000	\$ 618,000
3.2 Construction Management (approx. 7.0%)	\$ 1,145,000	\$ 921,000	\$ 1,081,000
3.3 Testing/Inspection (approx. 6.5%)	\$ 1,064,000	\$ 855,000	\$ 1,004,000
3.4 Plan Check & Permit (approx. 2.5%)	\$ 409,000	\$ 329,000	\$ 387,000
3.5 Project Sub-Total	\$ 21,266,000	\$ 17,100,000	\$ 20,077,000
4.1 Public Works/Financial Management Overhead (approx. 1.37%)	\$ 292,000	\$ 235,000	\$ 276,000
5.1 TOTAL PROJECT COSTS	\$ 21,558,000	\$ 17,335,000	\$ 20,353,000
5.2 Budgetary Design & Permitting Costs	\$ 1,554,000	\$ 1,250,000	\$ 1,468,000
5.3 Budgetary Construction & Utility Costs	\$ 17,012,000	\$ 13,679,000	\$ 16,060,000
5.4 Budgetary City "Soft" Costs	\$ 2,992,000	\$ 2,406,000	\$ 2,825,000
6.1 Present Value Annual O&M Costs (20-YR CYCLE)	\$ 377,000	\$ 317,000	\$ 322,000
7.1 Present Value Annual CBP Inspector Costs (20-YR CYCLE)	\$ 2,141,000	\$ 2,141,000	\$ 2,141,000

NOTES:

1. Estimated Design and Administrative Percentages applied to Construction Costs Sub-Total
2. Utility Coordination Allowance Percentage applied to Construction Costs Sub-Total
3. Estimated Construction Management and Testing/Inspection Percentages applied to Construction Costs Sub-Total
4. Plan Check/Permit Fees Percentage applied to Construction Costs Sub-Total
5. PW/FM Overhead Percentage is applied to all Project Costs
6. CBP Inspector - \$140,874 (first year), \$123,438 (succeeding years)
7. ADP costs per inspector - \$21,062 (first year), \$17,640 (succeeding years)
8. CBP Supervisor costs assumed at 1.15x inspector costs.
9. CBP Regular Shift assumed to be M-F: 1230 to 2130 hours
10. CBP OT Shifts assumed to be M-Su: 0730 to 1030 hours and Sa-Su: 1230 to 2130 hours
11. OT Cap used for estimation (2016 Los Angeles GS-11): \$43.26 per hr.
12. CBP OT will come from LGB staff or other local resources



**Feasibility Cost Estimate:
North FIS Facility - Option 1 Summary**

Item	Description		Estimated Cost
1.1	Design	(approx. 7.0%)	\$ 1,145,000
1.2	Administrative Costs	(approx. 3.0%)	\$ 491,000
Design & Administrative Costs Sub-Total		(approx. 10.0%)	\$ 1,636,000
2.1	North FIS - Option 1 SITEWORK Summary		\$ 931,000
2.2	North FIS - Option 1 BUILDING Construction		\$ 12,032,000
2.3	North FIS - Option 1 BAGGAGE CLAIM Summary		\$ 381,000
2.4	North FIS - Option 1 AIRCRAFT PARKING Summary		\$ 3,013,000
Construction Costs Sub-Total			\$ 16,357,000
3.1	Utility Coordination Allowance	(approx. 4.0%)	\$ 655,000
3.2	Construction Management	(approx. 7.0%)	\$ 1,145,000
3.3	Testing/Inspection	(approx. 6.5%)	\$ 1,064,000
3.4	Plan Check & Permit	(approx. 2.5%)	\$ 409,000
Project Sub-Total		(approx. 20.0%)	\$ 21,266,000
4.1	Public Works/Financial Management Overhead	(approx. 1.37%)	\$ 292,000
TOTAL PROJECT COSTS			\$ 21,558,000
5.1	Budgetary Design & Permitting Costs		\$ 1,554,000
5.2	Budgetary Construction & Utility Costs		\$ 17,012,000
5.3	Budgetary City "Soft" Costs		\$ 2,992,000

NOTES:

1. Estimated Design and Administrative Percentages applied to Construction Costs Sub-Total
2. Utility Coordination Allowance Percentage applied to Construction Costs Sub-Total
3. Estimated Construction Management and Testing/Inspection Percentages applied to Construction Costs Sub-Total
4. Plan Check/Permit Fees Percentage applied to Construction Costs Sub-Total
5. PW/FM Overhead Percentage is applied to all Project Costs





**Feasibility Cost Estimate:
North FIS - Option 1 Construction**

Item	Description	Estimated Quantity	Unit	Unit Cost	Extended Cost
North FIS - Option 1 BUILDING Construction					
0.0	GENERAL REQUIREMENTS				SEE PRORATES
1.0	SITE WORK				SEE SEPARATE SITEWORK COST BELOW
2.0	SUBSTRUCTURE	35,051	GFA	\$20.48	\$ 717,900
3.0	STRUCTURE	35,051	GFA	\$44.82	\$ 1,570,986
4.1	ENCLOSURE, VERTICAL	35,051	GFA	\$23.46	\$ 822,194
4.2	ENCLOSURE, HORIZONTAL	35,051	GFA	\$16.54	\$ 579,814
4.3	SUPPORT ITEMS	35,051	GFA	\$1.84	\$ 64,494
5.1	INTERNALS, VERTICAL	35,051	GFA	\$28.68	\$ 1,005,308
5.2	INTERNALS, HORIZONTAL	35,051	GFA	\$11.57	\$ 405,696
5.3	FINISHES, SPECIAL				INCLUDED IN 5.1 AND 5.2
5.4	INTERIORS	35,051	GFA	\$3.92	\$ 137,551
6.0	SPECIALTIES	35,051	GFA	\$2.56	\$ 89,877
7.0	EQUIPMENT	35,051	GFA	\$0.88	\$ 30,871
8.0	SPECIAL CONSTRUCTION	35,051	GFA	N/A	\$ -
9.0	CONVEYING				SEE SEPARATE BAGGAGE CLAIM COST BELOW
10.1	PLUMBING	35,051	GFA	\$8.98	\$ 314,765
10.2	FIRE SPRINKLER SYSTEM	35,051	GFA	\$5.41	\$ 189,626
10.2	HVAC	35,051	GFA	\$23.50	\$ 823,614
11.0	ELECTRICAL	35,051	GFA	\$44.38	\$ 1,555,563
SUBTOTAL ESTIMATED CONSTRUCTION COST				\$ 237.03	\$ 8,308,259
12.0	PRORATES:				
12.1	GENERAL CONDITIONS	(approx. 8.50%)		\$ 20.15	\$ 706,202
12.2	CONTINGENCY	(approx. 12.50%)		\$ 32.15	\$ 1,126,808
12.3	ESCALATION	(approx. 9.73%)		\$ 28.15	\$ 986,533
12.4	GEOGRAPHICAL FACTOR	(approx. 0.00%)		\$ -	\$ -
12.5	MARKET FACTOR	(approx. 0.00%)		\$ -	\$ -
PRORATES SUBTOTAL				\$ 317.47	\$ 11,127,802
12.6	BONDS + INSURANCE	(approx. 2.00%)		\$ 6.35	\$ 222,556
12.7	CONTRACTOR'S FEE	(approx. 6.00%)		\$ 19.43	\$ 681,021
TOTAL OF OPINION OF CONSTRUCTION BASE COST				\$ 343.25	\$ 12,031,379



**Feasibility Cost Estimate:
North FIS - Option 1 Construction**

Item Description	Estimated Quantity	Unit	Unit Cost	Extended Cost
North FIS - Option 1 Separate Construction Costs				
101.1 SITEWORK (based on gross area)	40,251	SF	\$ 15.96	\$ 642,423
101.2 PRORATES (per Base Estimate)	(approx. 44.8%)			\$ 287,884
101.3 North FIS - Option 1 SITEWORK Summary				\$ 930,307
102.1 BAGGAGE CLAIM	210	LF	\$ 1,250.00	\$ 262,500
102.2 PRORATES (per Base Estimate)	(approx. 44.8%)			\$ 117,632
102.3 North FIS - Option 1 BAGGAGE CLAIM Summary				\$ 380,132
103.1 AIRCRAFT PARKING (POSITIONS 11 & 12)	91,500	SF	\$ 30.00	\$ 2,745,000
103.2 ESCALATION (per Base Estimate)	(approx. 9.7%)			\$ 267,031
103.3 North FIS - Option 1 AIRCRAFT PARKING Summary				\$ 3,012,031
TOTAL ESTIMATED CONSTRUCTION COST FOR OPTION 1				\$ 16,353,849

NOTES:

- Costs provided by Jacobus & Yuang, Inc. July 22, 2016 (JYI# C2137A-R1)
- Baggage Claim Cost estimate of \$1,250 per LF based on previous bids (R-6815 and R-6874) received by Long Beach Airport.
- Aircraft Parking Cost estimate based on Airport Capital Improvement Program (ACIP) submittal to FAA from Long Beach Airport. Unit cost of \$30/SF is for construction only, assuming 15" PCC pavement / 6" CTB / 8" CTS, inclusive of electrical costs.

Life Cycle Cost Estimate



Project Name:	Federal Inspection Services (FIS) Facility
Option:	North FIS - Option 1
Date:	August 15, 2016

Component	Quantity	UNIT
Interior Conditioned Space	28,968	SF
Total Area	35,051	GSF

Escalation Factor 3.30%				1.000	1.033	1.067	1.097	1.133	1.171	1.210	1.249	1.291	1.333	1.377	1.423	1.470	1.518	1.568	1.620	1.673	1.729	1.786	1.845	1.906	1.968	2.033	2.101			
Cost Categories				2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039			
Recurring Capital Costs																														
Item Description	Quantity	Unit	Unit Cost																											
4.1.1 EXTERIOR WALLS - GWB + PAINT, INT. OF EXT.	12,227	SF	\$3.94				\$ 52,861.02										\$ 18,284.32										\$ 50,595.51			
4.2.1 ROOFING - MEMBRANE + COVERBOARD + TAPERED RIGID INSULATION	35,051	SF	\$11.91				\$ 458,069.73										\$ 158,443.64										\$ 438,437.84			
4.3.1 SUPPORT ITEMS - MISC. PAINTING	35,051	SF	\$0.22				\$ 8,461.41										\$ 2,926.75										\$ 8,098.77			
5.1.1 INTERIOR WALLS - GWB + PAINT	97,402	SF	\$3.94				\$ 421,098.33										\$ 145,655.45										\$ 403,050.95			
5.1.2 CERAMIC WALL TILES + CEMENT BOARD	2,144	SF	\$20.02				\$ 47,098.63										\$ 16,291.14										\$ 45,080.08			
5.2.1 CARPET FLOOR - OFFICES	2,160	SF	\$5.41				\$ 12,822.43										\$ 4,435.20										\$ 12,272.89			
5.2.2 RESILIENT FLOORING	30,850	SF	\$5.14				\$ 173,995.38										\$ 60,183.98										\$ 166,538.31			
5.2.3 CERAMIC FLOOR TILE - RESTROOMS	994	SF	\$13.53				\$ 14,757.19										\$ 5,104.43										\$ 14,124.73			
5.2.4 RUBBER FLOORING - GYM	242	SF	\$8.12				\$ 2,156.21										\$ 745.82										\$ 2,063.80			
5.2.5 SEALED CONCRETE FLOOR - KENNEL AREAS	805	SF	\$1.62				\$ 1,430.97										\$ 494.96										\$ 1,369.64			
7.0.2 BREAK ROOM - FOOD SERVICE EQUIPMENT	242	SF	\$21.08				\$ 5,597.65										\$ 1,936.19										\$ 5,357.74			
7.0.3 KENNEL AREA - KENNEL EQUIPMENT	805	SF	\$9.37				\$ 8,276.66										\$ 2,862.85										\$ 7,921.94			
7.0.4 MISC. EQUIPMENT	35,051	SF	\$0.52				\$ 19,999.69										\$ 6,917.77										\$ 19,142.54			
10.0.1.1 PLUMBING EQUIPMENT	1	LS	\$16,236.08				\$ 17,815.61										\$ 6,162.31										\$ 17,052.07			
10.1.2 ROOF DRAIN SYSTEM	35,051	GSF	\$1.35				\$ 51,922.26										\$ 17,959.61										\$ 49,696.98			
10.1.3 CONDENSATE DRAIN SYSTEM	35,051	GSF	\$0.27				\$ 10,384.45										\$ 3,591.92										\$ 9,939.40			
10.1.4 GAS SYSTEM	35,051	GSF	\$0.87				\$ 33,461.01										\$ 11,573.97										\$ 32,026.95			
10.1.5 MISC. PLUMBING SYSTEM	35,051	GSF	\$1.35				\$ 51,922.26										\$ 17,959.61										\$ 49,696.98			
10.1.6 FIRE SPRINKLER SYSTEM	35,051	GSF	\$5.41				\$ 208,073.66										\$ 71,971.46										\$ 199,156.06			
10.2.1 BUILDING HVAC EQUIPMENT - PACKAGED UNITS	35,051	GSF	\$21.65				\$ 832,679.24										\$ 288,018.88										\$ 796,992.38			
10.2.2 MISC. HVAC SYSTEM	35,051	GSF	\$1.62				\$ 62,306.71										\$ 21,651.53										\$ 59,636.38			
11.0.1 EQUIPMENT & PANEL BOARDS	35,051	GSF	\$9.20				\$ 353,840.60										\$ 122,391.40										\$ 338,675.75			
11.0.2 LIGHTING SYSTEM	35,051	GSF	\$10.28				\$ 395,378.41										\$ 136,759.08										\$ 378,433.34			
11.0.3 ELECTRICAL SYSTEM - COMMUNICATIONS	35,051	GSF	\$5.95				\$ 228,842.96										\$ 79,155.30										\$ 219,034.86			
11.0.4 ELECTRICAL SYSTEM - SECURITY	35,051	GSF	\$6.22				\$ 239,227.01										\$ 82,747.23										\$ 228,974.26			
11.0.5 ELECTRICAL SYSTEM - FIRE ALARM	35,051	GSF	\$3.68				\$ 141,536.24										\$ 48,956.56										\$ 135,470.30			
11.0.6 MISC. ELECTRICAL SYSTEMS	35,051	GSF	\$1.17				\$ 44,999.29										\$ 15,564.99										\$ 43,070.72			
101.0.1 ROADWAY PAVEMENT	3,500	SF	\$15.00				\$ 57,607.46						\$ 16,940.27				\$ 39,852.17							\$ 23,438.16			\$ 110,277.05			
102.0.1 BAGGAGE CAROUSEL	210	LF	\$1,250.00				\$ 288,037.30										\$ 99,630.42										\$ 275,692.64			
103.0.1 AIRCRAFT PARKING POSITIONS	91,500	SF	\$30.00				\$ 3,012,047.19						\$ 177,146.83				\$ 1,041,849.52										\$ 2,882,957.28			
O & M Costs																														
ROOFING SUBTOTAL							\$ 509,992.00										\$ 176,403.25										\$ 488,134.83			
PAINTING/WALL TILE SUBTOTAL							\$ 529,519.39										\$ 183,157.66										\$ 506,825.32			
FLOORING SUBTOTAL							\$ 205,162.18										\$ 70,964.40										\$ 196,369.36			
EQUIPMENT SUBTOTAL							\$ 1,526,246.73										\$ 527,919.82										\$ 1,460,835.06			
SYSTEMS SUBTOTAL							\$ 1,416,131.62										\$ 489,831.65										\$ 1,355,439.24			
PAVEMENT SUBTOTAL							\$ 3,069,654.65						\$ 194,087.10				\$ 1,081,701.69							\$ 513,630.59			\$ 2,993,234.33			
ANNUAL EQUIPMENT MAINTENANCE	5.00%						\$ 86,499.68	\$ 89,354.17	\$ 92,302.86	\$ 95,348.85	\$ 98,495.36	\$ 101,745.71	\$ 105,103.32	\$ 108,571.73	\$ 112,154.59	\$ 115,855.70	\$ 119,678.93	\$ 123,628.34	\$ 127,708.07	\$ 131,922.44	\$ 136,275.88	\$ 140,772.98	\$ 145,418.49	\$ 150,217.30	\$ 155,174.47	\$ 160,295.23				
ANNUAL EQUIPMENT OPERATING	0.50%						\$ 8,649.97	\$ 8,935.42	\$ 9,230.29	\$ 9,534.89	\$ 9,849.54	\$ 10,174.57	\$ 10,510.33	\$ 10,857.17	\$ 11,215.46	\$ 11,585.57	\$ 11,967.89	\$ 12,362.83	\$ 12,770.81	\$ 13,192.24	\$ 13,627.59	\$ 14,077.30	\$ 14,541.85	\$ 15,021.73	\$ 15,517.45	\$ 16,029.52				
ANNUAL SYSTEMS MAINTENANCE	2.50%						\$ 40,129.47	\$ 41,453.74	\$ 42,821.71	\$ 44,234.83	\$ 45,694.58	\$ 47,202.50	\$ 48,760.18	\$ 50,369.27	\$ 52,031.45	\$ 53,748.49	\$ 55,522.19	\$ 57,354.42	\$ 59,247.12	\$ 61,202.27	\$ 63,221.95	\$ 65,308.27	\$ 67,463.45	\$ 69,689.74	\$ 71,989.50	\$ 74,365.15				
ANNUAL SYSTEMS OPERATING	0.50%						\$ 8,025.89	\$ 8,290.75	\$ 8,564.34	\$ 8,846.97	\$ 9,138.92	\$ 9,440.50	\$ 9,752.04	\$ 10,073.85	\$ 10,406.29	\$ 10,749.70	\$ 11,104.44	\$ 11,470.88	\$ 11,849.42	\$ 12,240.45	\$ 12,644.39	\$ 13,061.65	\$ 13,492.69	\$ 13,937.95	\$ 14,397.90	\$ 14,873.03				
CUSTODIAL SERVICES (\$1.647/SF/MONTH)	28,968	SF/MO	\$0.49				\$ 193,123.84	\$ 199,496.93	\$ 206,080.33	\$ 212,880.98	\$ 219,906.05	\$ 227,162.95	\$ 234,659.33	\$ 242,403.08	\$ 250,402.39	\$ 258,665.66	\$ 267,201.63	\$ 276,019.29	\$ 285,127.92	\$ 294,537.14	\$ 304,256.87	\$ 314,297.35	\$ 324,669.16	\$ 335,383.24	\$ 346,450.89	\$ 357,883.77				
TOTAL							\$0	\$0	\$0	\$0	\$336,429	\$347,531	\$359,000	\$370,847	\$577,172	\$395,726	\$408,785	\$422,275	\$436,210	\$2,980,584	\$465,475	\$480,836	\$496,703	\$513,095	\$1,043,657	\$547,518	\$565,586	\$584,250	\$603,530	\$7,624,285
Discount Factor	6%						1.000	1.060	1.124	1.191	1.262	1.338	1.419	1.504	1.594	1.689	1.791	1.898	2.012	2.133	2.261	2.397	2.540	2.693	2.854	3.026	3.207	3.400	3.604	3.820
Discounted Annual Cost							\$0	\$0	\$0	\$266,483	\$259,695	\$253,080	\$246,634	\$362,125	\$234,230	\$228,264	\$222,449	\$216,783	\$1,397,414	\$205,880	\$200,636	\$195,525	\$190,545	\$365,639	\$180,962	\$176,352	\$171,860	\$167,483	\$1,996,017	
Present Value Costs:							\$7,538,056																							

- NOTES:
- Estimated Interior Conditioned Space based on CBP Airport Technical Design Standards.
 - Total Area based on CBP Airport Technical Design Standards.
 - Annual Escalation of 3.3% based on comparison of Sierra West Group Indices from 2006 and 2016.
 - Annual Discount Factor of 6.0% based on discussions with Frasca & Associates.
 - Recurring Capital Costs assume 25% replacement at year 10 and 50% replacement at year 20.
 - Roadway [Asphalt] Pavement assumes 25% replacement at year 5, 50% replacement at year 10, 25% at year 15, and full replacement at year 20.
 - Aircraft Parking [Concrete] Pavement assumes 10% replacement at year 5, 25% replacement at year 10, 10% at year 15, and 25% replacement at year 20.
 - Custodial Services based on 3 FTE at a present hourly rate of \$30/hr. plus \$10.26/hr for fringe benefits.

1	CBP INSPECTORS (PER SHIFT)	10	2	1																										
					\$3,706,490	\$ 3,507,647	\$ 3,623,399	\$ 3,742,971	\$ 3,866,489	\$ 3,994,083	\$ 4,125,888	\$ 4,262,042	\$ 4,402,690	\$ 4,547,978	\$ 4,698,062	\$ 4,853,098	\$ 5,013,250	\$ 5,178,687	\$ 5,349,584	\$ 5,526,120	\$ 5,708,482	\$ 5,896,862	\$ 6,091,459	\$ 6,292,477						
	Discounted Annual Cost				\$0	\$2,935,887	\$2,621,118	\$2,554,353	\$2,489,290	\$2,425,883	\$2,364,092	\$2,303,874	\$2,245,191	\$2,188,002	\$2,132,270	\$2,077,957	\$2,025,028	\$1,973,447	\$1,923,180	\$1,874,194	\$1,826,455	\$1,779,932	\$1,734,594	\$1,690,411	\$1,647,353					
Present Value Costs:							\$42,812,510																							

- CBP NOTES:
- CBP Inspector - \$140,874 (first year), \$123,438 (succeeding years)
 - ADP costs per inspector - \$21,062 (first year), \$17,640 (succeeding years)
 - CBP Supervisor costs assumed at 1.15x inspector costs.
 - CBP Regular Shift assumed to be M-F: 1230 to 2130 hours
 - CBP OT Shifts assumed to be M-Su: 0730 to 1030 hours and Sa-Su: 1230 to 2130 hours
 - OT Cap used for estimation (2016 Los Angeles GS-11): \$43.26 per hr.
 - CBP OT will come from LGB staff or other local resources



**Feasibility Cost Estimate:
South FIS Facility - Option 2 Summary**

Item	Description		Estimated Cost
1.1	Design	(approx. 7.0%)	\$ 921,000
1.2	Administrative Costs	(approx. 3.0%)	\$ 395,000
Design & Administrative Costs Sub-Total		(approx. 10.0%)	\$ 1,316,000
2.1	South FIS - Option 2 SITEWORK Summary		\$ 956,000
2.2	South FIS - Option 2 BUILDING Construction		\$ 10,817,000
2.3	South FIS - Option 2 BAGGAGE CLAIM Summary		\$ 1,379,000
Construction Costs Sub-Total			\$ 13,152,000
3.1	Utility Coordination Allowance	(approx. 4.0%)	\$ 527,000
3.2	Construction Management	(approx. 7.0%)	\$ 921,000
3.3	Testing/Inspection	(approx. 6.5%)	\$ 855,000
3.4	Plan Check & Permit	(approx. 2.5%)	\$ 329,000
Project Sub-Total		(approx. 20.0%)	\$ 17,100,000
4.1	Public Works/Financial Management Overhead	(approx. 1.37%)	\$ 235,000
TOTAL PROJECT COSTS			\$ 17,335,000
5.1	Budgetary Design & Permitting Costs		\$ 1,250,000
5.2	Budgetary Construction & Utility Costs		\$ 13,679,000
5.3	Budgetary City "Soft" Costs		\$ 2,406,000

NOTES:

1. Estimated Design and Administrative Percentages applied to Construction Costs Sub-Total
2. Utility Coordination Allowance Percentage applied to Construction Costs Sub-Total
3. Estimated Construction Management and Testing/Inspection Percentages applied to Construction Costs Sub-Total
4. Plan Check/Permit Fees Percentage applied to Construction Costs Sub-Total
5. PW/FM Overhead Percentage is applied to all Project Costs





**Feasibility Cost Estimate:
South FIS - Option 2 Construction**

Item	Description	Estimated Quantity	Unit	Unit Cost	Extended Cost
South FIS - Option 2 BUILDING Construction					
0.0	GENERAL REQUIREMENTS				SEE PRORATES
1.0	SITE WORK				SEE SEPARATE SITEWORK COST BELOW
2.0	SUBSTRUCTURE	30,672	GFA	\$20.48	\$ 628,212
3.0	STRUCTURE	30,672	GFA	\$44.82	\$ 1,374,719
4.1	ENCLOSURE, VERTICAL	30,672	GFA	\$25.79	\$ 791,097
4.2	ENCLOSURE, HORIZONTAL	30,672	GFA	\$16.63	\$ 510,068
4.3	SUPPORT ITEMS	30,672	GFA	\$1.84	\$ 56,436
5.1	INTERNALS, VERTICAL	30,672	GFA	\$31.75	\$ 973,861
5.2	INTERNALS, HORIZONTAL	30,672	GFA	\$11.66	\$ 357,696
5.3	FINISHES, SPECIAL				INCLUDED IN 5.1 AND 5.2
5.4	INTERIORS	30,672	GFA	\$3.93	\$ 120,540
6.0	SPECIALTIES	30,672	GFA	\$2.66	\$ 81,469
7.0	EQUIPMENT	30,672	GFA	\$0.93	\$ 28,593
8.0	SPECIAL CONSTRUCTION	30,672	GFA	N/A	\$ -
9.0	CONVEYING				SEE SEPARATE BAGGAGE CLAIM COST BELOW
10.1	PLUMBING	30,672	GFA	\$9.71	\$ 297,949
10.2	FIRE SPRINKLER SYSTEM	30,672	GFA	\$5.41	\$ 165,936
10.2	HVAC	30,672	GFA	\$23.53	\$ 721,715
11.0	ELECTRICAL	30,672	GFA	\$44.38	\$ 1,361,222
SUBTOTAL ESTIMATED CONSTRUCTION COST				\$ 243.53	\$ 7,469,513
12.0	PRORATES:				
12.1	GENERAL CONDITIONS	(approx. 8.50%)		\$ 20.70	\$ 634,909
12.2	CONTINGENCY	(approx. 12.50%)		\$ 33.03	\$ 1,013,053
12.3	ESCALATION	(approx. 9.73%)		\$ 28.92	\$ 886,939
12.4	GEOGRAPHICAL FACTOR	(approx. 0.00%)		\$ -	\$ -
12.5	MARKET FACTOR	(approx. 0.00%)		\$ -	\$ -
PRORATES SUBTOTAL				\$ 326.17	\$ 10,004,414
12.6	BONDS + INSURANCE	(approx. 2.00%)		\$ 6.52	\$ 200,088
12.7	CONTRACTOR'S FEE	(approx. 6.00%)		\$ 19.96	\$ 612,270
TOTAL OF OPINION OF CONSTRUCTION BASE COST				\$ 352.66	\$ 10,816,772



**Feasibility Cost Estimate:
South FIS - Option 2 Construction**

Item Description	Estimated Quantity	Unit	Unit Cost	Extended Cost
South FIS - Option 2 Separate Construction Costs				
101.1 SITEWORK (based on gross area)	38,732	SF	\$ 17.04	\$ 659,952
101.2 PRORATES (per Base Estimate)	(approx. 44.8%)			\$ 295,740
101.3 South FIS - Option 2 SITEWORK Summary				\$ 955,692
102.1 BAGGAGE CLAIM DEMOLITION	658	LF	\$ 250.00	\$ 164,500
102.2 BAGGAGE CLAIM	630	LF	\$ 1,250.00	\$ 787,500
102.3 PRORATES (per Base Estimate)	(approx. 44.8%)			\$ 426,613
102.4 South FIS - Option 2 BAGGAGE CLAIM Summary				\$ 1,378,613
TOTAL ESTIMATED CONSTRUCTION COST FOR OPTION 2				\$ 13,151,077

NOTES:

- Costs provided by Jacobus & Yuang, Inc. July 22, 2016 (JYI# C2137A-R1)
- Baggage Claim Cost estimate of \$1,250 per LF based on previous bids (R-6815 and R-6874) received by Long Beach Airport.
- Aircraft Parking Cost estimate based on Airport Capital Improvement Program (ACIP) submittal to FAA from Long Beach Airport. Unit cost of \$30/SF is for construction only, assuming 15" PCC pavement / 6" CTB / 8" CTS, inclusive of electrical costs.

Life Cycle Cost Estimate



Project Name:	Federal Inspection Services (FIS) Facility
Option:	South FIS - Option 2
Date:	August 15, 2016

Component	Quantity	UNIT
Interior Conditioned Space	25,349	SF
Total Area	30,672	GSF

Escalation Factor 3.30%				1,000	1,033	1,067	1,097	1,133	1,171	1,210	1,249	1,291	1,333	1,377	1,423	1,470	1,518	1,568	1,620	1,673	1,729	1,786	1,845	1,906	1,968	2,033	2,101	
Cost Categories				2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	
Recurring Capital Costs																												
Item Description	Quantity	Unit	Unit Cost																									
4.1.1 EXTERIOR WALLS - GWB + PAINT, INT. OF EXT.	11,826	SF	\$3.94				\$ 51,127.38										\$ 17,684.66									\$ 48,936.17		
4.2.1 ROOFING - MEMBRANE + COVERBOARD + TAPERED RIGID INSULATION	30,672	SF	\$11.91				\$ 400,842.06										\$ 138,648.92									\$ 383,662.82		
4.3.1 SUPPORT ITEMS - MISC. PAINTING	30,672	SF	\$0.22				\$ 7,404.30										\$ 2,561.11									\$ 7,086.97		
5.1.1 INTERIOR WALLS - GWB + PAINT	94,096	SF	\$3.94				\$ 406,805.49										\$ 140,711.64									\$ 389,370.68		
5.1.2 CERAMIC WALL TILES + CEMENT BOARD	2,144	SF	\$20.02				\$ 47,098.63										\$ 16,291.14									\$ 45,080.08		
5.2.1 CARPET FLOOR - OFFICES	2,160	SF	\$5.41				\$ 12,822.43										\$ 4,435.20									\$ 12,272.89		
5.2.2 RESILIENT FLOORING	26,471	SF	\$5.14				\$ 149,297.62										\$ 51,641.17									\$ 142,899.04		
5.2.3 CERAMIC FLOOR TILE - RESTROOMS	994	SF	\$13.53				\$ 14,757.19										\$ 5,104.43									\$ 14,124.73		
5.2.4 RUBBER FLOORING - GYM	242	SF	\$8.12				\$ 2,156.21										\$ 745.82									\$ 2,063.80		
5.2.5 SEALED CONCRETE FLOOR - KENNEL AREAS	805	SF	\$1.62				\$ 1,430.97										\$ 494.96									\$ 1,369.64		
7.0.2 BREAK ROOM - FOOD SERVICE EQUIPMENT	242	SF	\$21.08				\$ 5,597.65										\$ 1,936.19									\$ 5,357.74		
7.0.3 KENNEL AREA - KENNEL EQUIPMENT	805	SF	\$9.37				\$ 8,276.66										\$ 2,862.85									\$ 7,921.94		
7.0.4 MISC. EQUIPMENT	30,672	SF	\$0.52				\$ 17,501.08										\$ 6,053.52									\$ 16,751.02		
10.1.1 PLUMBING EQUIPMENT	1	LS	\$16,236.08				\$ 17,815.61										\$ 6,162.31									\$ 17,052.07		
10.1.2 ROOF DRAIN SYSTEM	30,672	GSF	\$1.35				\$ 45,435.50										\$ 15,715.87									\$ 43,488.23		
10.1.3 CONDENSATE DRAIN SYSTEM	30,672	GSF	\$0.27				\$ 9,087.10										\$ 3,143.17									\$ 8,697.65		
10.1.4 GAS SYSTEM	30,672	GSF	\$0.87				\$ 29,280.65										\$ 10,128.01									\$ 28,025.75		
10.1.5 MISC. PLUMBING SYSTEM	30,672	GSF	\$1.35				\$ 45,435.50										\$ 15,715.87									\$ 43,488.23		
10.1.6 FIRE SPRINKLER SYSTEM	30,672	GSF	\$5.41				\$ 182,078.55										\$ 62,979.91									\$ 174,275.05		
10.2.1 BUILDING HVAC EQUIPMENT - PACKAGED UNITS	30,672	GSF	\$21.65				\$ 728,650.75										\$ 252,036.04									\$ 697,422.34		
10.2.2 MISC. HVAC SYSTEM	30,672	GSF	\$1.62				\$ 54,522.60										\$ 18,859.05									\$ 52,185.87		
11.0.1 EQUIPMENT & PANEL BOARDS	30,672	GSF	\$9.20				\$ 309,634.50										\$ 107,100.76									\$ 296,364.23		
11.0.2 LIGHTING SYSTEM	30,672	GSF	\$10.28				\$ 345,982.90										\$ 119,673.46									\$ 331,154.81		
11.0.3 ELECTRICAL SYSTEM - COMMUNICATIONS	30,672	GSF	\$5.95				\$ 200,252.75										\$ 69,266.26									\$ 191,670.34		
11.0.4 ELECTRICAL SYSTEM - SECURITY	30,672	GSF	\$6.22				\$ 209,339.85										\$ 72,409.43									\$ 200,367.99		
11.0.5 ELECTRICAL SYSTEM - FIRE ALARM	30,672	GSF	\$3.68				\$ 123,853.80										\$ 42,840.31									\$ 118,545.69		
11.0.6 MISC. ELECTRICAL SYSTEMS	30,672	GSF	\$1.17				\$ 39,377.43										\$ 13,620.42									\$ 37,689.80		
101.0.1 ROADWAY PAVEMENT	3,500	SF	\$15.00				\$ 57,607.46					\$ 16,940.27					\$ 39,852.17							\$ 23,438.16			\$ 110,277.05	
102.0.1 BAGGAGE CAROUSEL	630	LF	\$1,250.00				\$ 864,111.90										\$ 298,891.26									\$ 827,077.91		
103.0.1 AIRCRAFT PARKING POSITIONS	0	SF	\$30.00				\$ -										\$ -									\$ -		
O & M Costs																												
INITIAL CAPITAL COSTS							\$ 446,277.55										\$ 154,364.80										\$ 427,151.05	
PAINTING/WALL TILE SUBTOTAL							\$ 512,435.80										\$ 177,248.55										\$ 490,473.90	
FLOORING SUBTOTAL							\$ 180,464.42										\$ 62,421.59										\$ 172,730.10	
EQUIPMENT SUBTOTAL							\$ 1,951,588.14										\$ 675,042.93										\$ 1,867,947.24	
SYSTEMS SUBTOTAL							\$ 1,239,211.12										\$ 428,635.88										\$ 1,186,101.18	
PAVEMENT SUBTOTAL							\$ 57,607.46					\$ 16,940.27					\$ 39,852.17							\$ 23,438.16			\$ 110,277.05	
EQUIPMENT MAINTENANCE	5.00%						\$ 110,605.80	\$ 114,255.80	\$ 118,026.24	\$ 121,921.10	\$ 125,944.50	\$ 130,100.67	\$ 134,393.99	\$ 138,828.99	\$ 143,410.35	\$ 148,142.89	\$ 153,031.61	\$ 158,081.65	\$ 163,298.34	\$ 168,687.19	\$ 174,253.87	\$ 180,004.24	\$ 185,944.38	\$ 192,080.55	\$ 198,419.21	\$ 204,967.04		
EQUIPMENT OPERATING	0.50%						\$ 11,060.58	\$ 11,425.58	\$ 11,802.62	\$ 12,192.11	\$ 12,594.45	\$ 13,010.07	\$ 13,439.40	\$ 13,882.90	\$ 14,341.03	\$ 14,814.29	\$ 15,303.16	\$ 15,808.16	\$ 16,329.83	\$ 16,868.72	\$ 17,425.39	\$ 18,000.42	\$ 18,594.44	\$ 19,208.05	\$ 19,841.92	\$ 20,496.70		
SYSTEMS MAINTENANCE	2.50%						\$ 35,116.00	\$ 36,274.83	\$ 37,471.90	\$ 38,708.47	\$ 39,985.85	\$ 41,305.38	\$ 42,668.46	\$ 44,076.52	\$ 45,531.05	\$ 47,033.57	\$ 48,585.68	\$ 50,189.01	\$ 51,845.24	\$ 53,556.14	\$ 55,323.49	\$ 57,149.16	\$ 59,035.09	\$ 60,983.24	\$ 62,995.69	\$ 65,074.55		
SYSTEMS OPERATING	0.50%						\$ 7,023.20	\$ 7,254.97	\$ 7,494.38	\$ 7,741.69	\$ 7,997.17	\$ 8,261.08	\$ 8,533.69	\$ 8,815.30	\$ 9,106.21	\$ 9,406.71	\$ 9,717.14	\$ 10,037.80	\$ 10,369.05	\$ 10,711.23	\$ 11,064.70	\$ 11,429.83	\$ 11,807.02	\$ 12,196.65	\$ 12,599.14	\$ 13,014.91		
CUSTODIAL SERVICES (\$1.647/SF/MONTH)	25,349	SF/MO	\$0.56				\$ 193,123.84	\$ 199,496.93	\$ 206,080.33	\$ 212,880.98	\$ 219,906.05	\$ 227,162.95	\$ 234,659.33	\$ 242,403.08	\$ 250,402.39	\$ 258,665.66	\$ 267,201.63	\$ 276,019.29	\$ 285,127.92	\$ 294,537.14	\$ 304,256.87	\$ 314,297.35	\$ 324,669.16	\$ 335,383.24	\$ 346,450.89	\$ 357,883.77		
TOTAL				\$0	\$0	\$0	\$0	\$356,929	\$368,708	\$380,875	\$393,444	\$423,368	\$419,840	\$433,695	\$448,007	\$462,791	\$2,015,629	\$493,839	\$510,136	\$526,970	\$544,360	\$585,762	\$580,881	\$600,050	\$619,852	\$640,307	\$4,916,117	
Discount Factor	6%			1.000	1.060	1.124	1.191	1.262	1.338	1.419	1.504	1.594	1.689	1.791	1.898	2.012	2.133	2.261	2.397	2.540	2.693	2.854	3.026	3.207	3.404	3.604	3.820	
Discounted Annual Cost				\$0	\$0	\$0	\$0	\$282,722	\$275,520	\$268,502	\$261,663	\$265,627	\$248,503	\$242,173	\$236,004	\$229,993	\$945,006	\$218,426	\$212,862	\$207,440	\$202,156	\$205,218	\$191,989	\$187,098	\$182,333	\$177,688	\$1,287,026	
Present Value Costs:								\$6,327,948																				

- NOTES:
- Estimated Interior Conditioned Space based on CBP Airport Technical Design Standards.
 - Total Area based on CBP Airport Technical Design Standards.
 - Annual Escalation of 3.3% based on comparison of Sierra West Group Indices from 2006 and 2016.
 - Annual Discount Factor of 6.0% based on discussions with Frasca & Associates.
 - Recurring Capital Costs assume 25% replacement at year 10 and 50% replacement at year 20.
 - Roadway (Asphalt) Pavement assumes 25% replacement at year 5, 50% replacement at year 10, 25% at year 15, and full replacement at year 20.
 - Custodial Services based on 3 FTE at a present hourly rate of \$30/hr. plus \$10.26/hr for fringe benefits.

1	CBP INSPECTORS (PER SHIFT)	10	2	1		\$ 3,706,490	\$ 3,507,647	\$ 3,623,399	\$ 3,742,971	\$ 3,866,489	\$ 3,994,083	\$ 4,125,888	\$ 4,262,042	\$ 4,402,690	\$ 4,547,978	\$ 4,698,062	\$ 4,853,098	\$ 5,013,250	\$ 5,178,687	\$ 5,349,584	\$ 5,526,120	\$ 5,708,482	\$ 5,896,862	\$ 6,091,459	\$ 6,292,477
	Discounted Annual Cost				\$0	\$2,935,887	\$2,621,118	\$2,554,353	\$2,489,290	\$2,425,883	\$2,364,092	\$2,303,874	\$2,245,191	\$2,188,002	\$2,132,270	\$2,077,957	\$2,025,028	\$1,973,447	\$1,923,180	\$1,874,194	\$1,826,455	\$1,779,932	\$1,734,594	\$1,690,411	\$1,647,353
	Present Value Costs:					\$42,812,510																			

- CBP NOTES:
- CBP Inspector - \$140,874 (first year), \$123,438 (succeeding years)
 - ADP costs per inspector - \$21,062 (first year), \$17,640 (succeeding years)
 - CBP Supervisor costs assumed at 1.15x inspector costs.
 - CBP Regular Shift assumed to be M-F: 1230 to 2130 hours
 - CBP OT Shifts assumed to be M-Su: 0730 to 1030 hours and Sa-Su: 1230 to 2130 hours
 - OT Cap used for estimation (2016 Los Angeles GS-11): \$43.26 per hr.
 - CBP OT will come from LGB staff or other local resources

**Feasibility Cost Estimate:
South FIS Facility - Option 3 Summary**

Item	Description		Estimated Cost
1.1	Design	(approx. 7.0%)	\$ 1,081,000
1.2	Administrative Costs	(approx. 3.0%)	\$ 464,000
Design & Administrative Costs Sub-Total			\$ 1,545,000
2.1	South FIS - Option 3 SITEWORK Summary		\$ 813,000
2.2	South FIS - Option 3 BUILDING Construction		\$ 8,274,000
2.3	South FIS - Option 3 BAGGAGE CLAIM Summary		\$ 1,379,000
2.4	South FIS - Option 3 (E) CHECKPOINT RETROFIT Summary		\$ 575,000
2.5	South FIS - Option 3 NEW CHECKPOINT Summary		\$ 4,401,000
Construction Costs Sub-Total			\$ 15,442,000
3.1	Utility Coordination Allowance	(approx. 4.0%)	\$ 618,000
3.2	Construction Management	(approx. 7.0%)	\$ 1,081,000
3.3	Testing/Inspection	(approx. 6.5%)	\$ 1,004,000
3.4	Plan Check & Permit	(approx. 2.5%)	\$ 387,000
Project Sub-Total			\$ 20,077,000
			130.0%
4.1	Public Works/Financial Management Overhead	(approx. 1.37%)	\$ 276,000
TOTAL PROJECT COSTS			\$ 20,353,000
5.1	Budgetary Design & Permitting Costs		\$ 1,468,000
5.2	Budgetary Construction & Utility Costs		\$ 16,060,000
5.3	Budgetary City "Soft" Costs		\$ 2,825,000

NOTES:

1. Estimated Design and Administrative Percentages applied to Construction Costs Sub-Total
2. Utility Coordination Allowance Percentage applied to Construction Costs Sub-Total
3. Estimated Construction Management and Testing/Inspection Percentages applied to Construction Costs Sub-Total
4. Plan Check/Permit Fees Percentage applied to Construction Costs Sub-Total
5. PW/FM Overhead Percentage is applied to all Project Costs





**Feasibility Cost Estimate:
South FIS - Option 3 Summary**

Item	Description	Estimated Quantity	Unit	Unit Cost	Extended Cost
South FIS - Option 3 BUILDING Construction					
0.0	GENERAL REQUIREMENTS				SEE PRORATES
1.0	SITE WORK				SEE SEPARATE SITEWORK COST BELOW
2.0	SUBSTRUCTURE	21,656	GFA	\$20.48	\$ 443,550
3.0	STRUCTURE	21,656	GFA	\$44.82	\$ 970,622
4.1	ENCLOSURE, VERTICAL	21,656	GFA	\$33.16	\$ 718,181
4.2	ENCLOSURE, HORIZONTAL	21,656	GFA	\$16.88	\$ 365,649
4.3	SUPPORT ITEMS	21,656	GFA	\$1.84	\$ 39,846
5.1	INTERNALS, VERTICAL	21,656	GFA	\$42.93	\$ 929,798
5.2	INTERNALS, HORIZONTAL	21,656	GFA	\$12.05	\$ 260,904
5.3	FINISHES, SPECIAL				INCLUDED IN 5.1 AND 5.2
5.4	INTERIORS	21,656	GFA	\$3.95	\$ 85,515
6.0	SPECIALTIES	21,656	GFA	\$2.49	\$ 53,875
7.0	EQUIPMENT	21,656	GFA	\$0.25	\$ 5,414
8.0	SPECIAL CONSTRUCTION	21,656	GFA	N/A	\$ -
9.0	CONVEYING				SEE SEPARATE BAGGAGE CLAIM COST BELOW
10.1	PLUMBING	21,656	GFA	\$11.90	\$ 257,786
10.2	FIRE SPRINKLER SYSTEM	21,656	GFA	\$5.41	\$ 117,159
10.2	HVAC	21,656	GFA	\$23.27	\$ 503,935
11.0	ELECTRICAL	21,656	GFA	\$44.38	\$ 961,093
SUBTOTAL ESTIMATED CONSTRUCTION COST				\$ 263.82	\$ 5,713,327
12.0	PRORATES:				
12.1	GENERAL CONDITIONS	(approx. 8.50%)		\$ 22.42	\$ 485,633
12.2	CONTINGENCY	(approx. 12.50%)		\$ 35.78	\$ 774,870
12.3	ESCALATION	(approx. 9.73%)		\$ 31.33	\$ 678,407
12.4	GEOGRAPHICAL FACTOR	(approx. 0.00%)		\$ -	\$ -
12.5	MARKET FACTOR	(approx. 0.00%)		\$ -	\$ -
PRORATES SUBTOTAL				\$ 353.35	\$ 7,652,237
12.6	BONDS + INSURANCE	(approx. 2.00%)		\$ 7.07	\$ 153,045
12.7	CONTRACTOR'S FEE	(approx. 6.00%)		\$ 21.63	\$ 468,317
TOTAL OF OPINION OF CONSTRUCTION BASE COST				\$ 382.05	\$ 8,273,599



**Feasibility Cost Estimate:
South FIS - Option 3 Summary**

Item Description	Estimated Quantity	Unit	Unit Cost	Extended Cost
South FIS - Option 3 Separate Construction Costs				
101.1 SITEWORK (based on gross area)	28,196	SF	\$ 19.89	\$ 560,940
101.2 PRORATES (per Base Estimate)	(approx. 44.8%)			\$ 251,370
101.3 South FIS - Option 3 SITEWORK Summary				\$ 812,310
102.1 BAGGAGE CLAIM DEMOLITION	658	LF	\$ 250.00	\$ 164,500
102.2 BAGGAGE CLAIM	630	LF	\$ 1,250.00	\$ 787,500
102.3 PRORATES (per Base Estimate)	(approx. 44.8%)			\$ 426,613
102.4 South FIS - Option 3 BAGGAGE CLAIM Summary				\$ 1,378,613
103.1 (E) CHECKPOINT RETROFIT	6,750	SF	\$ 58.82	\$ 397,038
103.2 PRORATES (per Base Estimate)	(approx. 44.8%)			\$ 177,922
103.3 South FIS - Option 3 (E) CHECKPOINT RETROFIT Summary				\$ 574,960
104.1 NEW CHECKPOINT	8,700	SF	\$ 349.27	\$ 3,038,666
104.2 PRORATES (per Base Estimate)	(approx. 44.8%)			\$ 1,361,696
104.3 South FIS - Option 3 NEW CHECKPOINT Summary				\$ 4,400,362
TOTAL ESTIMATED CONSTRUCTION COST FOR OPTION 3				\$ 15,439,844

NOTES:

- Costs provided by Jacobus & Yuang, Inc. July 22, 2016 (JYI# C2137A-R1)
- Baggage Claim Cost estimate of \$1,250 per LF based on previous bids (R-6815 and R-6874) received by Long Beach Airport.
- Aircraft Parking Cost estimate based on Airport Capital Improvement Program (ACIP) submittal to FAA from Long Beach Airport. Unit cost of \$30/SF is for construction only, assuming 15" PCC pavement / 6" CTB / 8" CTS, inclusive of electrical costs.

Life Cycle Cost Estimate



Project Name:	Federal Inspection Services (FIS) Facility
Option:	South FIS - Option 3
Date:	August 15, 2016

Component	Quantity	UNIT
Interior Conditioned Space	25,088	SF
Total Area - FIS Facility	21,656	GSF
Total Area - NEW CHECKPOINT	8,700	GSF

Escalation Factor 3.30%				1.000	1.033	1.067	1.097	1.133	1.171	1.210	1.249	1.291	1.333	1.377	1.423	1.470	1.518	1.568	1.620	1.673	1.729	1.786	1.845	1.906	1.968	2.033	2.101	
Cost Categories				2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	
Recurring Capital Costs																												
Item Description	Quantity	Unit	Unit Cost																									
4.1.1 EXTERIOR WALLS - GWB + PAINT, INT. OF EXT.	10,692	SF	\$3.94				\$ 46,224.75										\$ 15,988.87										\$ 44,243.66	
4.2.1 ROOFING - MEMBRANE + COVERBOARD + TAPERED RIGID INSULATION	21,656	SF	\$11.91				\$ 283,014.98										\$ 97,893.23										\$ 270,885.56	
4.2.2 [NEW CHECKPOINT] BUILDING ROOFING	8,700	GSF	\$15.23				\$ 145,391.35										\$ 50,290.02										\$ 139,160.19	
4.2.3 [NEW CHECKPOINT] CANOPY ROOFING	3,768	SF	\$16.58				\$ 68,551.17										\$ 23,711.45										\$ 65,613.21	
4.2.4 [NEW CHECKPOINT] EXTERIOR SOFFIT - PAINT U/S CANOPY	3,768	SF	\$1.00				\$ 4,134.57										\$ 1,430.12										\$ 3,957.37	
4.3.1 SUPPORT ITEMS - MISC. PAINTING	21,656	SF	\$0.22				\$ 5,227.82										\$ 1,808.27										\$ 5,003.76	
5.1.1 INTERIOR WALLS - GWB + PAINT	86,010	SF	\$3.94				\$ 371,847.27										\$ 128,619.80										\$ 355,910.69	
5.1.2 CERAMIC WALL TILES + CEMENT BOARD	2,144	SF	\$20.02				\$ 47,098.63										\$ 16,291.14										\$ 45,080.08	
5.2.1 CARPET FLOOR - OFFICES	1,188	SF	\$5.41				\$ 7,052.34										\$ 2,439.36										\$ 6,750.09	
5.2.2 RESILIENT FLOORING	19,474	SF	\$5.14				\$ 109,834.23										\$ 37,991.02										\$ 105,126.97	
5.2.3 CERAMIC FLOOR TILE - RESTROOMS	994	SF	\$13.53				\$ 14,757.19										\$ 5,104.43										\$ 14,124.73	
5.2.4 RUBBER FLOORING - GYM	0	SF	\$8.12				\$ -										\$ -										\$ -	
5.2.5 SEALED CONCRETE FLOOR - KENNEL AREAS	0	SF	\$1.62				\$ -										\$ -										\$ -	
5.2.6 [NEW CHECKPOINT] FLOORING + BASES	8,700	GSF	\$5.42				\$ 51,741.37										\$ 17,897.04										\$ 49,523.85	
7.0.2 BREAK ROOM - FOOD SERVICE EQUIPMENT	0	SF	\$21.08				\$ -										\$ -										\$ -	
7.0.3 KENNEL AREA - KENNEL EQUIPMENT	0	SF	\$9.37				\$ -										\$ -										\$ -	
7.0.4 MISC. EQUIPMENT	21,656	SF	\$0.25				\$ 5,940.70										\$ 2,054.85										\$ 5,686.09	
10.1.1 PLUMBING EQUIPMENT	1	LS	\$16,236.08				\$ 17,815.61										\$ 6,162.31										\$ 17,052.07	
10.1.2 ROOF DRAIN SYSTEM	21,656	GSF	\$1.35				\$ 32,079.78										\$ 11,096.21										\$ 30,704.91	
10.1.3 CONDENSATE DRAIN SYSTEM	21,656	GSF	\$0.27				\$ 6,415.96										\$ 2,219.24										\$ 6,140.98	
10.1.4 GAS SYSTEM	21,656	GSF	\$0.87				\$ 20,673.64										\$ 7,150.89										\$ 19,787.61	
10.1.5 MISC. PLUMBING SYSTEM	21,656	GSF	\$1.35				\$ 32,079.78										\$ 11,096.21										\$ 30,704.91	
10.1.6 FIRE SPRINKLER SYSTEM	21,656	GSF	\$5.41				\$ 128,556.76										\$ 44,467.03										\$ 123,047.10	
10.1.7 [NEW CHECKPOINT] PLUMBING, COMPLETE	8,700	GSF	\$3.64				\$ 34,748.82										\$ 12,019.41										\$ 33,259.56	
10.1.8 [NEW CHECKPOINT] FIRE PROTECTION - BUILDING	8,700	GSF	\$5.00				\$ 47,731.90										\$ 16,510.18										\$ 45,686.21	
10.1.9 [NEW CHECKPOINT] FIRE PROTECTION - CANOPY	3,768	SF	\$3.96				\$ 16,372.90										\$ 5,663.29										\$ 15,671.19	
10.2.1 BUILDING HVAC EQUIPMENT - PACKAGED UNITS	21,656	GSF	\$21.65				\$ 514,464.68										\$ 177,950.33										\$ 492,415.82	
10.2.2 MISC. HVAC SYSTEM	21,656	GSF	\$1.62				\$ 38,495.74										\$ 13,315.45										\$ 36,845.90	
10.2.3 [NEW CHECKPOINT] BUILDING HVAC SYSTEM	8,700	GSF	\$27.93				\$ 266,630.37										\$ 92,225.89										\$ 255,203.16	
11.0.1 EQUIPMENT & PANEL BOARDS	21,656	GSF	\$9.20				\$ 218,617.79										\$ 75,618.61										\$ 209,248.29	
11.0.2 LIGHTING SYSTEM	21,656	GSF	\$10.28				\$ 244,281.61										\$ 84,495.58										\$ 233,812.23	
11.0.3 ELECTRICAL SYSTEM - COMMUNICATIONS	21,656	GSF	\$5.95				\$ 141,388.68										\$ 48,905.52										\$ 135,329.06	
11.0.4 ELECTRICAL SYSTEM - SECURITY	21,656	GSF	\$6.22				\$ 147,804.63										\$ 51,124.76										\$ 141,470.04	
11.0.5 ELECTRICAL SYSTEM - FIRE ALARM	21,656	GSF	\$3.68				\$ 87,447.11										\$ 30,247.45										\$ 83,699.32	
11.0.6 MISC. ELECTRICAL SYSTEMS	21,656	GSF	\$1.17				\$ 27,802.48										\$ 9,616.72										\$ 26,610.92	
11.0.7 [NEW CHECKPOINT] ELECTRICAL POWER	8,700	GSF	\$9.03				\$ 86,203.80										\$ 29,817.39										\$ 82,509.29	
11.0.8 [NEW CHECKPOINT] LIGHTING SYSTEM	8,700	GSF	\$11.02				\$ 105,201.10										\$ 36,388.44										\$ 100,692.40	
11.0.9 [NEW CHECKPOINT] DATA/TELEPHONE SYSTEM	8,700	GSF	\$5.83				\$ 55,655.39										\$ 19,250.87										\$ 53,270.12	
11.0.10 [NEW CHECKPOINT] MUFIDS/VISUAL PAGING/P.A.	8,700	GSF	\$3.82				\$ 36,467.17										\$ 12,613.78										\$ 34,904.26	
11.0.11 [NEW CHECKPOINT] FIRE ALARM SYSTEM	8,700	GSF	\$6.08				\$ 58,041.98										\$ 20,076.38										\$ 55,554.43	
11.0.12 [NEW CHECKPOINT] SECURITY SYSTEM	8,700	GSF	\$15.69				\$ 149,782.69										\$ 51,808.96										\$ 143,363.32	
11.0.13 [NEW CHECKPOINT] MISCELLANEOUS SYSTEM	8,700	GSF	\$3.80				\$ 36,276.24										\$ 12,547.74										\$ 34,721.52	
101.0.1 ROADWAY PAVEMENT	3,500	SF	\$15.00				\$ 57,607.46						\$ 16,940.27				\$ 39,852.17							\$ 23,438.16			\$ 110,277.05	
102.0.1 BAGGAGE CAROUSEL	630	LF	\$1,250.00				\$ 864,111.90										\$ 298,891.26										\$ 827,077.91	
103.0.1 AIRCRAFT PARKING POSITIONS	0	SF	\$30.00				\$ -										\$ -										\$ -	
O & M Costs																												
INITIAL CAPITAL COSTS							\$ 529,037.29										\$ 182,990.91										\$ 506,363.88	
ROOFING SUBTOTAL							\$ 474,533.03										\$ 164,138.20										\$ 454,195.56	
PAINTING/WALL TILE SUBTOTAL							\$ 183,385.13										\$ 63,431.84										\$ 175,525.63	
FLOORING SUBTOTAL							\$ 1,741,903.30										\$ 602,514.17										\$ 1,667,249.04	
EQUIPMENT SUBTOTAL							\$ 1,647,106.13										\$ 569,724.38										\$ 1,576,514.68	
SYSTEMS SUBTOTAL							\$ 57,607.46						\$ 16,940.27				\$ 39,852.17							\$ 23,438.16			\$ 110,277.05	
PAVEMENT SUBTOTAL							\$ -										\$ -										\$ -	
EQUIPMENT MAINTENANCE	5.00%						\$ 98,721.96	\$ 101,979.79	\$ 105,345.12	\$ 108,821.51	\$ 112,412.62	\$ 116,122.24	\$ 119,954.27	\$ 123,912.76	\$ 128,001.88	\$ 132,225.95	\$ 136,589.40	\$ 141,096.69	\$ 145,753.05	\$ 150,562.90	\$ 155,531.48	\$ 160,664.01	\$ 165,965.93	\$ 171,442.80	\$ 177,100.41	\$ 182,944.73		
EQUIPMENT OPERATING	0.50%						\$ 9,872.20	\$ 10,197.98	\$ 10,534.51	\$ 10,882.15	\$ 11,241.26	\$ 11,612.22	\$ 11,995.43	\$ 12,391.28	\$ 12,800.19	\$ 13,222.59	\$ 13,658.94	\$ 14,109.69	\$ 14,575.30	\$ 15,056.29	\$ 15,553.15	\$ 16,066.40	\$ 16,596.59	\$ 17,144.28	\$ 17,710.04	\$ 18,294.47		
SYSTEMS MAINTENANCE	2.50%						\$ 46,674.68	\$ 48,214.94	\$ 49,806.04	\$ 51,449.64	\$ 53,147.47	\$ 54,901.34	\$ 56,713.08	\$ 58,584.62	\$ 60,517.91	\$ 62,515.00	\$ 64,577.99	\$ 66,709.07	\$ 68,910.47	\$ 71,184.51	\$ 73,533.60	\$ 75,960.21	\$ 78,466.90	\$ 81,056.31	\$ 83,731.16	\$ 86,494.29		
SYSTEMS OPERATING	0.50%						\$ 9,334.94	\$ 9,642.99	\$ 9,961.21	\$ 10,289.93	\$ 10,629.49	\$ 10,980.27	\$ 11,342.62	\$ 11,716.92	\$ 12,103.58	\$ 12,503.00	\$ 12,915.60	\$ 13,341.81	\$ 13,782.09	\$ 14,236.90	\$ 14,706.72	\$ 15,192.04	\$ 15,693.38	\$ 16,211.26	\$ 16,746.23	\$ 17,298.86		
CUSTODIAL SERVICES (\$1.647/SF/MONTH)	25,088	SF/MO	\$0.57				\$ 193,123.84	\$ 199,496.93	\$ 206,080.33	\$ 212,880.98	\$ 219,906.05	\$ 227,162.95	\$ 234,659.33	\$ 242,403.08	\$ 250,402.39	\$ 258,665.66	\$ 267,201.63	\$ 276,019.29	\$ 285,127.92	\$ 294,537.14	\$ 304,256.87	\$ 314,297.35	\$ 324,669.16	\$ 335,383.24	\$ 346,450.89	\$ 357,883.77		
TOTAL				\$																								

Life Cycle Cost Estimate



Project Name:	Federal Inspection Services (FIS) Facility
Option:	South FIS - Option 3
Date:	August 15, 2016

Component	Quantity	UNIT
Interior Conditioned Space	25,088	SF
Total Area - FIS Facility	21,656	GSF
Total Area - NEW CHECKPOINT	8,700	GSF

Escalation Factor		3.30%		1.000	1.033	1.067	1.097	1.133	1.171	1.210	1.249	1.291	1.333	1.377	1.423	1.470	1.518	1.568	1.620	1.673	1.729	1.786	1.845	1.906	1.968	2.033	2.101					
Cost Categories		2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039							
1	CBP INSPECTORS (PER SHIFT)	10	2	1		\$3,706,490	\$3,507,647	\$3,623,399	\$3,742,971	\$3,866,489	\$3,994,083	\$4,125,888	\$4,262,042	\$4,402,690	\$4,547,978	\$4,698,062	\$4,853,098	\$5,013,250	\$5,178,687	\$5,349,584	\$5,526,120	\$5,708,482	\$5,896,862	\$6,091,459	\$6,292,477							
	Discounted Annual Cost	\$0	\$0	\$0	\$0	\$2,935,887	\$2,621,118	\$2,554,353	\$2,489,290	\$2,425,883	\$2,364,092	\$2,303,874	\$2,245,191	\$2,188,002	\$2,132,270	\$2,077,957	\$2,025,028	\$1,973,447	\$1,923,180	\$1,874,194	\$1,826,455	\$1,779,932	\$1,734,594	\$1,690,411	\$1,647,353							
	Present Value Costs:					\$42,812,510																										

- CBP NOTES:
9. CBP Inspector - \$140,874 (first year), \$123,438 (succeeding years)
 10. ADP costs per inspector - \$21,062 (first year), \$17,640 (succeeding years)
 11. CBP Supervisor costs assumed at 1.15x inspector costs.
 12. CBP Regular Shift assumed to be M-F: 1230 to 2130 hours
 13. CBP OT Shifts assumed to be M-Su: 0730 to 1030 hours and Sa-Su: 1230 to 2130 hours
 14. OT Cap used for estimation (2016 Los Angeles GS-11): \$43.26 per hr.
 15. CBP OT will come from LGB staff or other local resources

JACOBUS & YUANG, INC.

355 N. Lantana Street
Suite 220
Camarillo, CA 93010
TEL (213) 688-1341 or (805) 339-9434
FAX (866) 431-3256

**LONG BEACH AIRPORT
FEDERAL INSPECTION SERVICE (FIS)
FACILITY**

**BUDGETARY OPINION OF PROBABLE
COST**

JYI# C2137A-R2

July 25, 2016

PREPARED FOR:

JACOBS

BY:

JACOBUS & YUANG, INC.

PROJECT: NEW F.I.S. FACILITY AT LONG BEACH AIRPORT	JOB #:	C2137A-R2
LOCATION: LONG BEACH, CA	DATE:	22-Jul-16
CLIENT: JACOBS	REVISED:	25-Jul-16
SUBJECT: BUDGETARY OPINION OF PROBABLE COST - COST SUMMARY		

ITEM NO.	DESCRIPTION	EST QTY	UNIT	UNIT COST	TOTAL COST
SUMMARY OF ESTIMATE				\$	\$
OPTION 1: NORTH F.I.S.					
	- SITEWORK (based on gross area)	40,251	SF	23.11	930,307
	- NEW F.I.S. BUILDING	35,051	SF	343.25	12,031,379
	- BAGGAGE CLAIM	210	LF	1,810.15	380,132
	- NEW AIRCRAFT PARKING	91,500	SF	32.92	3,012,031
TOTAL ESTIMATED CONSTRUCTION COST FOR OPTION 1					16,353,850
OPTION 2: SOUTH F.I.S.					
	- SITEWORK (based on gross area)	38,732	SF	24.67	955,692
	- NEW F.I.S. BUILDING	30,672	SF	352.66	10,816,772
	- BAGGAGE CLAIM	630	LF	2,188.27	1,378,613
TOTAL ESTIMATED CONSTRUCTION COST FOR OPTION 2					13,151,076
OPTION 3: SOUTH F.I.S.					
	- SITEWORK (based on gross area)	24,696	SF	32.89	812,310
	- NEW F.I.S. BUILDING	21,656	SF	382.05	8,273,599
	- BAGGAGE CLAIM	630	LF	2,188.27	1,378,613
	- RE-PURPOSED SECURITY CHECK POINT BUILDING	6,750	SF	85.18	574,960
	- NEW SECURITY CHECK POINT BUILDING + RELATED SITEWORK	8,700	SF	505.79	4,400,362
TOTAL ESTIMATED CONSTRUCTION COST FOR OPTION 3					15,439,844

PROJECT: NEW F.I.S. FACILITY AT LONG BEACH AIRPORT	JOB #:	C2137A-R2
LOCATION: LONG BEACH, CA	DATE:	22-Jul-16
CLIENT: JACOBS	REVISED:	25-Jul-16
SUBJECT: BUDGETARY OPINION OF PROBABLE COST - COST SUMMARY		

ITEM NO.	DESCRIPTION	EST QTY	UNIT	UNIT COST	TOTAL COST
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NOTES:

- 1.0 NO ALLOWANCE IS INCLUDED FOR HAZARDOUS MATERIAL ABATEMENT RELATED TO SITE DEMOLITION OR TO EXISTING BUILDING FACILITIES.
- 2.0 ARCHITECTURAL DESIGN FEES ARE EXCLUDED
- 3.0 TYPICAL SOFT COSTS BEYOND REGULAR GENERAL CONTRACTOR COSTS ARE EXCLUDED
- 4.0 COSTS ARE BASED ON PREVAILING WAGE RATES
- 5.0 ESTIMATED COSTS ASSUME AT LEAST 4 TO 5 COMPETITIVE RESPONSIVE BIDS SHALL BE RECEIVED FROM GENERAL CONTRACTORS, BIDDING ALL ESTIMATED FACILITIES AS ONE PROJECT
- 6.0 ESTIMATE IS DERIVED FROM ESTIMATES PREPARED FOR THE FACILITIES CONTAINED IN THIS DOCUMENT PERFORMED BY JYI IN PAST YEARS. COSTS FROM PREVIOUS ESTIMATES HAD BEEN ESCALATED TO ADJUST FOR INFLATIONARY ESCALATION TO CURRENT DATE. THE ESCALATION CALCULATION BELOW, ESCALATES THE NEWLY DERIVED NUMBER TO A FUTURE MIDPOINT OF CONSTRUCTION. BASED ON COMPARING SIERRA WEST GROUP INDECES FROM END 2006 TO 2ND QUARTER 2016 THERE IS A 3.3% INCREASE
- 7.0 ALL WORK IS ASSUMED TO BE PERFORMED DURING REGULAR WORKING HOURS
- 8.0 SWING SPACE PREPARATION IS NOT INCLUDED FOR CURRENT BUILDING OCCUPANTS
- 9.0 OVER EXCAVATION IS BASED ON 2' DEEP BELOW SITE AREAS, AND 5' DEEP BELOW BUILDING PAD AREAS
- 10.0 AN ALLOWANCE IS INCLUDED FOR RELOCATING SCREENING EQUIPMENT FROM EXISTING BUILDING TO NEW SECURITY BUILDING
- 11.0 AN ALLOWANCE IS INCLUDED FOR BAGGAGE HANDLING EQUIPMENT.

BASE MONTH	Jul-16
CONSTRUCTION START MONTH	Oct-18
CONSTRUCTION DURATION (MONTHS) - AVERAGED FOR ALL PROJECT COMPONENTS	16
MID POINT OF CONSTRUCTION	Jun-19
% ANNUAL ESCALATION	3.30%
ALLOWANCE FOR ESCALATION (TO MIDPOINT OF CONSTRUCTION)	9.73%

DEFINITIONS

OPINION OF COST

An Opinion of Cost is prepared from a survey of the quantities of work-items prepared from written or drawn information provided at the Conceptual stage of the design.

Historical costs, information provided by contractors and suppliers, plus judgmental evaluation by the Estimator are used as appropriate as the basis for pricing.

Allowances as appropriate will be included for items of work which are not indicated on the design documents, provided that the Estimator is made aware of them, or which, in the judgement of the Estimator, are required for completion of the work.

JYI cannot, however, be responsible for items or work of an unusual nature of which we have not been informed.

BID

An offer to enter a contract to perform work for a fixed sum, to be completed within a limited period of time.

PROJECT: NEW F.I.S. FACILITY AT LONG BEACH AIRPORT	JOB #:	C2137A-R2
LOCATION: LONG BEACH, CA	DATE:	22-Jul-16
CLIENT: JACOBS	REVISED:	25-Jul-16
SUBJECT: BUDGETARY OPINION OF PROBABLE COST - COST SUMMARY		

ITEM NO.	DESCRIPTION	EST QTY	UNIT	UNIT COST	TOTAL COST
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MARKET CONDITIONS

In the current market conditions for construction, our experience shows the following results on competitive bids, as a differential from JYI final estimates:

Number of bids	Percentage Differential
1.....	+ 25 to 50%
2-3.....	+ 10 to 25%
4-5.....	+ 0 to 10%
6-7.....	+ 0 to - 5%
8 or more....	+ 0 to -10%

Accordingly, it is extremely important to ensure that a minimum of 4-5 valid bids are received

PROJECT: NEW F.I.S. FACILITY AT LONG BEACH AIRPORT		JOB #:	C2137A-R2
LOCATION: : LONG BEACH, CA		DATE:	22-Jul-16
CLIENT: JACOBS		REVISED:	25-Jul-16
SUBJECT: BUDGETARY OPINION OF PROBABLE COST - NEW NORTH F.I.S. FACILITY - OPTION 1		GFA:	35,051

ITEM NO.	DESCRIPTION	EST QTY	UNIT	UNIT COST	TOTAL COST
SUMMARY OF ESTIMATE				\$	\$
1.0	SITWORK				
2.0	SUBSTRUCTURE	8.6%		20.48	717,900
3.0	STRUCTURE	18.9%		44.82	1,570,986
4.1	ENCLOSURE, VERTICAL	9.9%		23.46	822,194
4.2	ENCLOSURE, HORIZONTAL	7.0%		16.54	579,814
4.3	SUPPORT ITEMS	0.8%		1.84	64,494
5.1	INTERNALS, VERTICAL	12.1%		28.68	1,005,308
5.2	INTERNALS, HORIZONTAL	4.9%		11.57	405,696
5.3	FINISHES, SPECIAL				
5.4	INTERIORS	1.7%		3.92	137,551
6.0	SPECIALTIES	1.1%		2.56	89,877
7.0	EQUIPMENT	0.4%		0.88	30,871
8.0	SPECIAL CONSTRUCTION				
9.0	CONVEYING				
10.1	PLUMBING + FIRE PROTECTION	6.1%		14.39	504,391
10.2	HVAC	9.9%		23.50	823,614
11.0	ELECTRICAL	18.7%		44.38	1,555,563
	SUBTOTAL	100.0%		237.03	8,308,259
12.00	PRORATES:				
12.10	GENERAL CONDITIONS	8.50%		20.15	706,202
12.20	CONTINGENCY	12.50%		32.15	1,126,808
12.30	ESCALATION	9.73%		28.15	986,533
12.40	GEOGRAPHICAL FACTOR				
12.50	MARKET FACTOR				
	SUBTOTAL			317.48	11,127,802
12.60	BONDS	2.00%		6.35	222,556
12.70	CONTRACTOR'S FEE	6.00%		19.43	681,021
TOTAL OF OPINION OF CONSTRUCTION				343.26	12,031,379
BASE COST					

PROJECT: NEW F.I.S. FACILITY AT LONG BEACH AIRPORT	JOB #:	C2137A-R2
LOCATION: : LONG BEACH, CA	DATE:	22-Jul-16
CLIENT: JACOBS	REVISED:	25-Jul-16
SUBJECT: BUDGETARY OPINION OF PROBABLE COST - NEW NORTH F.I.S. FACILITY - OPTION 1	GFA:	35,051

ITEM NO.	DESCRIPTION	EST QTY	UNIT	UNIT COST	TOTAL COST
SEPARATE COST (See detail @ end of estimate)					
	SITWORK	40,251	SF	23.11	930,307
	BAGGAGE CLAIM	210	LF	1,810.15	380,132
	STERILE CORRIDOR FROM AIRCRAFT	3,178	SF		
	AIRCRAFT PARKING (POSITIONS 11 & 12)	91,500	SF	32.92	3,012,031

TOTAL OF OPINION OF CONSTRUCTION BASE COST PLUS SEPARATE COST	16,353,850
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FLOOR AREA SUMMARY	NET SF AREA	GROSSED UP AREA
ENTRY CORRIDOR		6,353
GENERAL AREAS	18,493	19,080
BAGGAGE CLAIM	4,770	5,772
CIRCULATION	2,640	3,196
COUNTER TERRORISM RESPONSE - CTR	475	575
RESTROOM	696	842
QUEUING	2,732	0
PASSENGER PROCESSING	1,476	1,786
COMMAND & CONTROL CENTER - CCC	225	272
WIRING/IDF	116	140
LAN/TELCO	180	218
RADIO/TEL ROOM	60	73
LACTATION ROOM	80	97
STAFF BREAK ROOM	200	242
GYM	200	242
LOCKERS	164	199
MALE HOLD ROOM	115	139
FEMALE HOLD ROOM	115	139
JUVENILE HOLD ROOM	115	139
INTERVIEW ROOM	80	97
SEARCH ROOM	80	97
DETAINEE BAGGAGE STORAGE	50	61
AGRI LAB	150	182
AGRI DISPOSAL	150	182
ICE OFFICE	150	182
MEN'S TOILET	63	76
WOMEN'S TOILET	63	76
WAITING	250	303
GENERAL STORAGE	150	182
SUPERVISOR'S OFFICE	150	182

PROJECT: NEW F.I.S. FACILITY AT LONG BEACH AIRPORT		JOB #:	C2137A-R2
LOCATION: : LONG BEACH, CA		DATE:	22-Jul-16
CLIENT: JACOBS		REVISED:	25-Jul-16
SUBJECT: BUDGETARY OPINION OF PROBABLE COST - NEW NORTH F.I.S. FACILITY - OPTION 1		GFA:	35,051

ITEM NO.	DESCRIPTION	EST QTY	UNIT	UNIT COST	TOTAL COST
	PORT DIRECTOR'S OFFICE	225		272	
	CHIEF OFFICER'S OFFICE	200		242	
	ADIT	150		182	
	GENERAL OFFICES	256		310	
	WASHER/DRYER	60		73	
	DRY FOOD STORAGE	75		91	
	K9 KENNEL	123		149	
	K9 PROCESSING	150		182	
	K9 FOOD PREP	150		182	
	K9 GENERAL STORAGE	50		61	
	K9 TRAINING AID STORAGE	64		77	
	K9 TRAINING AID STORAGE	64		77	
	K9 WORK AREA	64		77	
	TEMP SEIZED PROPERTY	60		73	
	SECURE STORAGE	100		121	
	PPE STORAGE	65		79	
	WEAPONS CLEANING	80		97	
	WEAPONS STORAGE	100		121	
	SHIPS OFFICE	402		487	
	TRIAGE PODIUM	180		218	
	EXIT PODIUM	180		218	
	ADDITIONAL AREAS			6,310	
	CORRIDOR BETWEEN ENTRY/EXIT			3,144	
	INTERNAL CORRIDOR			1,008	
	SECONDARY AREA			2,158	
	TOTAL FLOOR AREA			31,743	

PROJECT: NEW F.I.S. FACILITY AT LONG BEACH AIRPORT	JOB #:	C2137A-R2
LOCATION: : LONG BEACH, CA	DATE:	22-Jul-16
CLIENT: JACOBS	REVISED:	25-Jul-16
SUBJECT: BUDGETARY OPINION OF PROBABLE COST - NEW NORTH F.I.S. FACILITY - OPTION 1	GFA:	35,051

ITEM NO.	DESCRIPTION	EST QTY	UNIT	UNIT COST	TOTAL COST
1.0	SITWORK				\$
	SEE SEPARATE SITWORK COST @ END OF ESTIMATE				
	SUBTOTAL OF SITWORK				
2.0	SUBSTRUCTURE				\$
	FOUNDATIONS/S.O.G./CURBS				
	FOUNDATON, COMPLETE	35,051	SF	9.26	324,572
	SLAB ON-GRADE INCLUDING CURBS	35,051	SF	10.82	379,252
	MISC. SUBSTRUCTURE ALLOWANCE	35,051	GSF	0.40	14,076
	SUBTOTAL OF SUBSTRUCTURE				717,900
3.0	STRUCTURE				\$
	STEEL STRUCTURE				
	STRUCTURAL STEEL (INCL. BRACED OR MOMENT FRAMES, COLUMNS, & BEAMS), COMPLETE	280	TON	5,000.00	1,402,040
	METAL DECK				
	METAL DECK + CLOSURE STEELS - ROOF	35,051	SF	4.82	168,946
	SUBTOTAL OF STRUCTURE				1,570,986
4.1	ENCLOSURE, VERTICAL				\$
	EXTERIOR WALL				
	METAL STUD	14,994	SF	8.12	121,747
	METAL PANEL + ATTACHMENTS	5,997	SF	32.47	194,736
	CEMENT PLASTER + LATH/V.B.	8,996	SF	16.24	146,097
	CEMENT PLASTER + LATH/V.B., ROOF SIDE	2,767	SF	16.24	44,932
	GLAS-MAT SHEATHING	17,760	SF	4.05	71,929
	GWB + PAINT, INT. OF EXT.	12,227	SF	3.94	48,173
	BATT INSULATION	12,227	SF	1.08	13,205
	ANTI-GRAFFITTI COATING	8,996	SF	1.89	17,003
	EXTERIOR DOOR + HARDWARES + PAINT				
	ALUM-GLASS DOOR/ALUM FRAME, DUAL LEAF	2	PR	6,819.15	13,638
	HM DOOR/HM FRAME, DUAL LEAF	2	PR	2,898.14	5,796
	HM DOOR/HM FRAME, SINGLE LEAF	4	EA	1,704.79	6,819
	PANIC HARDWARE	10	EA	947.10	9,471
	EXTERIOR WINDOWS				
	STOREFRONTS	1,328	SF	74.14	98,460
	ALLOWANCE FOR PUNCHED WINDOWS	398	SF	75.77	30,188
	SUBTOTAL OF ENCLOSURE, VERTICAL				822,194

PROJECT: NEW F.I.S. FACILITY AT LONG BEACH AIRPORT	JOB #:	C2137A-R2
LOCATION: : LONG BEACH, CA	DATE:	22-Jul-16
CLIENT: JACOBS	REVISED:	25-Jul-16
SUBJECT: BUDGETARY OPINION OF PROBABLE COST - NEW NORTH F.I.S. FACILITY - OPTION 1	GFA:	35,051

ITEM NO.	DESCRIPTION	EST QTY	UNIT	UNIT COST	TOTAL COST
4.2	ENCLOSURE, HORIZONTAL				\$
	ROOFING			-	-
	ASSUME MEMBRANE ROOFING + COVERBOARD + TAPERED RIGID INSULATION	35,051	SF	11.91	417,457
	ALLOWANCE FOR WALKWAY PADS	701	SF	5.95	4,171
	METAL COPING/FLASHING	922	LF	20.02	18,463
	CANTS & COUNTERFLASHING	922	LF	11.64	10,735
	ALLOWANCE FOR SKYLIGHT	1,402	SF	92.00	128,988
	SUBTOTAL OF ENCLOSURE, HORIZONTAL				579,814
4.3	SUPPORT ITEMS				\$
	MISC. SUPPORT ITEMS				
	MISC. METALS ALLOWANCE	35,051	GSF	0.54	18,928
	ROUGH CARPENTRY ALLOWANCE	35,051	GSF	0.32	11,216
	MISC. SHEET METAL ALLOWANCE	35,051	GSF	0.27	9,464
	MISC. FIREPROOFING/FIRESTOPPING ALLOWANCE	35,051	GSF	0.22	7,711
	CAULKING & SEALANTS ALLOWANCE	35,051	GSF	0.27	9,464
	MISC. PAINTING ALLOWANCE	35,051	GSF	0.22	7,711
	SUBTOTAL OF SUPPORT ITEMS				64,494
5.1	INTERNALS, VERTICAL				\$
	INTERIOR WALLS				
	METAL STUD	50,403	SF	7.38	371,974
	GWB + PAINT	97,402	SF	3.94	383,764
	ALLOWANCE, PREMIUM FOR FIRE-RATED PARTITIONS	1	LS	18,890.00	18,890
	BATT INSULATION	50,403	SF	1.08	54,435
	CERAMIC WALL TILES + CEMENT BOARD	2,144	SF	20.02	42,923
	CEMENT PLASTER - K9 KENNEL ROOM	1,260	SF	13.53	17,048
	INTERIOR DOORS				
	INTERIOR DOORS/FRAMES, PER LEAF	43	EA	2,435.41	105,756
	ALLOWANCE, FIRE-RATED DOORS	1	LS	2,640.00	2,640
	INTERIOR GLAZINGS				
	INTERIOR WINDOWS - ALLOWANCE	132	SF	59.53	7,878
	SUBTOTAL OF INTERNALS, VERTICAL				1,005,308
5.2	INTERNALS, HORIZONTAL				\$
	FLOORING + BASES				
	CARPET FLOOR - OFFICES	2,160	SF	5.41	11,686
	RESILIENT FLOORING	30,850	SF	5.14	158,569
	CERAMIC FLOOR TILE - RESTROOMS	994	SF	13.53	13,449
	RUBBER FLOORING - GYM	242	SF	8.12	1,965

PROJECT: NEW F.I.S. FACILITY AT LONG BEACH AIRPORT	JOB #:	C2137A-R2
LOCATION: : LONG BEACH, CA	DATE:	22-Jul-16
CLIENT: JACOBS	REVISED:	25-Jul-16
SUBJECT: BUDGETARY OPINION OF PROBABLE COST - NEW NORTH F.I.S. FACILITY - OPTION 1	GFA:	35,051

ITEM NO.	DESCRIPTION	EST QTY	UNIT	UNIT COST	TOTAL COST
	SEALED CONCRETE FLOOR - KENNEL AREAS CEILING	805	SF	1.62	1,304
	GWB CEILING + FRAMES + PAINT	2,296	SF	11.91	27,345
	ACT T-BAR CEILING	32,755	SF	5.68	186,048
	MISC. CEILING SOFFITS/BULKING	1	LS	5,330.00	5,330
	SUBTOTAL OF INTERNALS, HORIZONTAL				405,696
5.3	FINISHES, SPECIAL				\$
	SEE CERAMIC TILE FINISHES ELSEWHERE				
	SUBTOTAL OF FINISHES, SPECIAL				
5.4	INTERIORS				\$
	CABINETRY				
	ALLOWANCE FOR CABINETRY	35,051	GSF	2.71	94,988
	METAL FABRICATIONS				
	ALLOWANCE FOR ROOF HATCH + LADDER	1	EA	1,353.01	1,353
	ALLOWANCE FOR MISC. METAL FABRICATIONS	35,051	GSF	1.08	37,855
	MISCELLANEOUS				
	MISC. INTERIOR ELEMENTS	35,051	GSF	0.10	3,355
	SUBTOTAL OF INTERIORS				137,551
6.0	SPECIALTIES				\$
	SPECIALTIES				
	RESTROOM SPECIALTIES	994	SF	12.37	12,296
	FIRE PROTECTION SPECIALTIES	35,051	GSF	0.40	14,020
	VISUAL AIDS/WALL PANELLING	35,051	GSF	0.11	3,856
	LOCKERS, ASSUME 2-TIER	20	EA	514.14	10,283
	SIGNAGE	35,051	GSF	0.60	21,031
	MISC. SPECIALTIES	35,051	GSF	0.81	28,391
	SUBTOTAL OF SPECIALTIES				89,877
7.0	EQUIPMENT				\$
	SECURITY SCREEN DETECTION SYSTEM EQUIPMENT			-	
	PASSENGER PROCESSING EQUIPMENT			-	N.I.C.
	HOLD ROOMS			-	N.I.C.
	BAGGAGE HANDLING EQUIPMENT			-	
	BAGGAGE CAROUSEL			-	SEP. PRICE #2
	FOOD SERVICE EQUIPMENT				
	BREAK ROOM	242	SF	21.08	5,101
	KENNEL EQUIPMENT			-	
	KENNEL AREA - METAL CAGE ALLOWANCE	805	SF	9.37	7,543
	MISC. EQUIPMENT ALLOWANCE	35,051	GSF	0.52	18,227

PROJECT: NEW F.I.S. FACILITY AT LONG BEACH AIRPORT	JOB #:	C2137A-R2
LOCATION: : LONG BEACH, CA	DATE:	22-Jul-16
CLIENT: JACOBS	REVISED:	25-Jul-16
SUBJECT: BUDGETARY OPINION OF PROBABLE COST - NEW NORTH F.I.S. FACILITY - OPTION 1	GFA:	35,051

ITEM NO.	DESCRIPTION	EST QTY	UNIT	UNIT COST	TOTAL COST
SUBTOTAL OF EQUIPMENT					30,871
8.0	SPECIAL CONSTRUCTION				\$
THIS SECTION NOT APPLICABLE					
SUBTOTAL OF SPECIAL CONSTRUCTION					
9.0	CONVEYING				\$
THIS SECTION NOT APPLICABLE					
SUBTOTAL OF CONVEYING					
10.1	PLUMBING				\$
PLUMBING WORK					
PLUMBING EQUIPMENT					
	PLUMBING EQUIPMENT	1	LS	16,236.08	16,236
PLUMBING FIXTURES					
	TOILET FIXTURES + ROUGH-INS	22	EA	6,575.61	144,663
	AGRI LAB SINK + ROUGH-INS - ALLOWANCE	1	EA	6,900.34	6,900
	DRINKING FOUNTAIN, HI-LO + ROUGH-INS - ALLOWANCE	1	EA	6,827.27	6,827
PLUMBING PREMIUM					
	ROUGH-INS FOR - BREAK ROOM FIXTURES & EQUIPMENT	242	SF	4.25	1,029
	ROUGH-INS FOR - KENNEL AREAS	805	SF	4.33	3,486
	ROUGH-INS FOR - WASHER/DRYER	1	PR	1,028.29	1,028
	ROOF DRAIN SYSTEM	35,051	GSF	1.35	47,319
	CONDENSATE DRAIN SYSTEM	35,051	GSF	0.27	9,464
	GAS SYSTEM	35,051	GSF	0.87	30,494
	MISC. PLUMBING SYSTEM/TESTING	35,051	GSF	1.35	47,319
FIRE PROTECTION					
	FIRE SPRINKLER SYSTEM	35,051	GSF	5.41	189,626
SUBTOTAL OF PLUMBING					504,391
10.2	HVAC				\$
HVAC SYSTEM					
	BUILDING HVAC SYSTEM - PACKAGED UNITS	35,051	GSF	21.65	758,854
	PREMIUM FOR BREAKROOM	242	SF	5.95	1,440
	PREMIUM FOR K9 KENNEL AREAS	805	SF	8.12	6,537
	MISC. HVAC SYSTEM/TESTING	35,051	GSF	1.62	56,783
SUBTOTAL OF HVAC					823,614
11.0	ELECTRICAL				\$

PROJECT: NEW F.I.S. FACILITY AT LONG BEACH AIRPORT		JOB #:	C2137A-R2
LOCATION: : LONG BEACH, CA		DATE:	22-Jul-16
CLIENT: JACOBS		REVISED:	25-Jul-16
SUBJECT: BUDGETARY OPINION OF PROBABLE COST - NEW NORTH F.I.S. FACILITY - OPTION 1		GFA:	35,051

ITEM NO.	DESCRIPTION	EST QTY	UNIT	UNIT COST	TOTAL COST
ELECTRICAL SYSTEM					
	EQUIPMENT & PANEL BOARDS	35,051	GSF	9.20	322,469
	SECONDARY FEEDERS	35,051	GSF	4.09	143,359
	BRANCH POWER	35,051	GSF	3.79	132,843
	LIGHTING SYSTEM	35,051	GSF	10.28	360,324
	COMMUNICATIONS	35,051	GSF	5.95	208,553
	SECURITY	35,051	GSF	6.22	218,017
	FIRE ALARM	35,051	GSF	3.68	128,988
	MISC. ELECTRICAL SYSTEM/TESTING	35,051	GSF	1.17	41,010
	SUBTOTAL OF ELECTRICAL				1,555,563
SEPARATE COST					\$
1.0 SITEWORK					
<u>DEMO WORK</u>					
	SAWCUT/DEMO OF (E) SITE PAVING + 5' BEYOND PERIMETER, ETC. INCLUDING HAUL OFF MIDDLE CURB & SIDEWALK DEMO	40,251	SF	1.08	43,471
	MISC. ALLOWANCE FOR DEMO & RESTORATION TO (E) ADJACENT STRUCTURES AFFECTED BY NEW WORK	3,336	SF	5.00	16,680
		1	LS	5,412.03	5,412
<u>SITE PREPARATION</u>					
	SITE CLEARING	40,251	SF	0.11	4,428
	ROUGH GRADING	40,251	SF	0.22	8,855
	EROSION CONTROL	40,251	SF	0.16	6,440
<u>OVER EXCAVATION</u>					
	OVER EXCAVATION, ASSUME 1.5'D BELOW PAVING BASE - 5' BEYOND PERIMETER	483	CY	13.53	6,540
	OVER EXCAVATION, ASSUME 3'D BELOW FOOTING (TOTAL IS 7'D BELOW SLAB BASE)	11,460	CY	13.53	155,055
<u>SITE PAVING</u>					
	ALLOWANCE FOR SITE PAVING @ 5' BEYOND IMPROVEMENTS FOOTPRINT	5,200	SF	27.06	140,712
	ROADWAY PAVEMENT, 7" AC/12" CAB	3,500	SF	15.00	52,500
<u>SITE UTILITIES</u>					
	STORM DRAINS & CONNECTIONS	1	LS	62,240.00	62,240
	SEWER & CONNECTIONS	1	LS	11,090.00	11,090
	INCOMING DOMESTIC WATER & CONNECTIONS	1	LS	31,120.00	31,120
	INCOMING FIRE WATER & CONNECTIONS	1	LS	27,330.00	27,330
	INCOMING GAS & CONNECTIONS	1	LS	20,160.00	20,160
	INCOMING POWER SERVICE & CONNECTIONS	1	LS	33,590.00	33,590
	INCOMING COMMUNICATIONS SERVICE & CONNECTIONS	1	LS	16,800.00	16,800
	SUBTOTAL				642,423

PROJECT: NEW F.I.S. FACILITY AT LONG BEACH AIRPORT	JOB #:	C2137A-R2
LOCATION: : LONG BEACH, CA	DATE:	22-Jul-16
CLIENT: JACOBS	REVISED:	25-Jul-16
SUBJECT: BUDGETARY OPINION OF PROBABLE COST - NEW NORTH F.I.S. FACILITY - OPTION 1	GFA:	35,051

ITEM NO.	DESCRIPTION	EST QTY	UNIT	UNIT COST	TOTAL COST
	TOTAL INCLUDING PRORATES PER BASE ESTIMATE	144.8%			930,307
2.0	BAGGAGE CLAIM				
	NEW BAGGAGE CLAIM - AIR SIDE	70	LF	1,250.00	87,500
	NEW BAGGAGE CLAIM - PASS. SIDE	140	LF	1,250.00	175,000
	SUBTOTAL				262,500
	TOTAL INCLUDING PRORATES PER BASE ESTIMATE	144.8%			380,132
3.0	AIRCRAFT PARKING (POSITIONS 11 & 12)				
	CONSTRUCTION COST per Airport Capital Improvement Program (ACIP) submittal to the FAA from Long Beach Airport.	91,500	SF	30.00	2,745,000
	ADMIN/DESIGN COST				N.I.C.
	CONSTRUCTION MANAGEMENT/ INSPECTION				N.I.C.
	SUBTOTAL				2,745,000
	TOTAL INCLUDING ESCALATION PER BASE ESTIMATE	9.7%			3,012,031

PROJECT: NEW F.I.S. FACILITY AT LONG BEACH AIRPORT	JOB #:	C2137A-R2
LOCATION : LONG BEACH, CA	DATE:	22-Jul-16
CLIENT: JACOBS	REVISED:	25-Jul-16
SUBJECT: BUDGETARY OPINION OF PROBABLE COST - NEW SOUTH F.I.S. FACILITY - OPTION 2	GFA:	30,672

ITEM NO.	DESCRIPTION	EST QTY	UNIT	UNIT COST	TOTAL COST
SUMMARY OF ESTIMATE				\$	\$
1.0	SITWORK				
2.0	SUBSTRUCTURE	8.4%		20.48	628,212
3.0	STRUCTURE	18.4%		44.82	1,374,719
4.1	ENCLOSURE, VERTICAL	10.6%		25.79	791,097
4.2	ENCLOSURE, HORIZONTAL	6.8%		16.63	510,068
4.3	SUPPORT ITEMS	0.8%		1.84	56,436
5.1	INTERNALS, VERTICAL	13.0%		31.75	973,861
5.2	INTERNALS, HORIZONTAL	4.8%		11.66	357,696
5.3	FINISHES, SPECIAL				
5.4	INTERIORS	1.6%		3.93	120,540
6.0	SPECIALTIES	1.1%		2.66	81,469
7.0	EQUIPMENT	0.4%		0.93	28,593
8.0	SPECIAL CONSTRUCTION				
9.0	CONVEYING				
10.1	PLUMBING + FIRE PROTECTION	6.2%		15.12	463,885
10.2	HVAC	9.7%		23.53	721,715
11.0	ELECTRICAL	18.2%		44.38	1,361,222
	SUBTOTAL	100.0%		243.53	7,469,513
12.00	PRORATES:				
12.10	GENERAL CONDITIONS	8.50%		20.70	634,909
12.20	CONTINGENCY	12.50%		33.03	1,013,053
12.30	ESCALATION	9.73%		28.92	886,939
12.40	GEOGRAPHICAL FACTOR				
12.50	MARKET FACTOR				
	SUBTOTAL			326.18	10,004,414
12.60	BONDS	2.00%		6.52	200,088
12.70	CONTRACTOR'S FEE	6.00%		19.96	612,270
TOTAL OF OPINION OF CONSTRUCTION				352.66	10,816,772
BASE COST					

PROJECT: NEW F.I.S. FACILITY AT LONG BEACH AIRPORT	JOB #:	C2137A-R2
LOCATION : LONG BEACH, CA	DATE:	22-Jul-16
CLIENT: JACOBS	REVISED:	25-Jul-16
SUBJECT: BUDGETARY OPINION OF PROBABLE COST - NEW SOUTH F.I.S. FACILITY - OPTION 2	GFA:	30,672

ITEM NO.	DESCRIPTION	EST QTY	UNIT	UNIT COST	TOTAL COST
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SEPARATE COST (See detail @ end of estimate)

SITWORK	38,732	SF	24.67	955,692
BAGGAGE CLAIM	630	LF	2,188.27	1,378,613
STERILE CORRIDOR FROM AIRCRAFT	1,395	SF		

TOTAL OF OPINION OF CONSTRUCTION BASE COST PLUS SEPARATE COST	13,151,076
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FLOOR AREA SUMMARY	NET SF AREA	GROSSED UP AREA
ENTRY CORRIDOR		1,815
GENERAL AREAS	18,493	25,419
BAGGAGE CLAIM	4,770	9,075
CIRCULATION	2,640	3,196
COUNTER TERRORISM RESPONSE - CTR	475	575
RESTROOM	696	842
QUEUING	2,732	3,308
PASSENGER PROCESSING	1,476	1,786
COMMAND & CONTROL CENTER - CCC	225	0
WIRING/IDF	116	140
LAN/TELCO	180	218
RADIO/TEL ROOM	60	73
LACTATION ROOM	80	97
STAFF BREAK ROOM	200	242
GYM	200	242
LOCKERS	164	199
MALE HOLD ROOM	115	139
FEMALE HOLD ROOM	115	139
JUVENILE HOLD ROOM	115	139
INTERVIEW ROOM	80	97
SEARCH ROOM	80	97
DETAINEE BAGGAGE STORAGE	50	61
AGRI LAB	150	182
AGRI DISPOSAL	150	182
ICE OFFICE	150	182
MEN'S TOILET	63	76
WOMEN'S TOILET	63	76
WAITING	250	303
GENERAL STORAGE	150	182
SUPERVISOR'S OFFICE	150	182
PORT DIRECTOR'S OFFICE	225	272
CHIEF OFFICER'S OFFICE	200	242
ADIT	150	182

PROJECT: NEW F.I.S. FACILITY AT LONG BEACH AIRPORT	JOB #:	C2137A-R2
LOCATION : LONG BEACH, CA	DATE:	22-Jul-16
CLIENT: JACOBS	REVISED:	25-Jul-16
SUBJECT: BUDGETARY OPINION OF PROBABLE COST - NEW SOUTH F.I.S. FACILITY - OPTION 2	GFA:	30,672

ITEM NO.	DESCRIPTION	EST QTY	UNIT	UNIT COST	TOTAL COST
	GENERAL OFFICES	256		310	
	WASHER/DRYER	60		73	
	DRY FOOD STORAGE	75		91	
	K9 KENNEL	123		149	
	K9 PROCESSING	150		182	
	K9 FOOD PREP	150		182	
	K9 GENERAL STORAGE	50		61	
	K9 TRAINING AID STORAGE	64		77	
	K9 TRAINING AID STORAGE	64		77	
	K9 WORK AREA	64		77	
	TEMP SEIZED PROPERTY	60		73	
	SECURE STORAGE	100		121	
	PPE STORAGE	65		79	
	WEAPONS CLEANING	80		97	
	WEAPONS STORAGE	100		121	
	SHIPS OFFICE	402		487	
	TRIAGE PODIUM	180		218	
	EXIT PODIUM	180		218	
	ADDITIONAL AREAS			3,166	
	CORRIDOR BETWEEN ENTRY/EXIT				
	INTERNAL CORRIDOR			1,008	
	SECONDARY AREA			2,158	
	TOTAL FLOOR AREA			30,400	

PROJECT: NEW F.I.S. FACILITY AT LONG BEACH AIRPORT	JOB #:	C2137A-R2
LOCATION : LONG BEACH, CA	DATE:	22-Jul-16
CLIENT: JACOBS	REVISED:	25-Jul-16
SUBJECT: BUDGETARY OPINION OF PROBABLE COST - NEW SOUTH F.I.S. FACILITY - OPTION 2	GFA:	30,672

ITEM NO.	DESCRIPTION	EST QTY	UNIT	UNIT COST	TOTAL COST
1.0	SITWORK				\$
	SEE SEPARATE SITWORK COST @ END OF ESTIMATE				
	SUBTOTAL OF SITWORK				
2.0	SUBSTRUCTURE				\$
	FOUNDATIONS/S.O.G./CURBS				
	FOUNDATON, COMPLETE	30,672	SF	9.26	284,023
	SLAB ON-GRADE INCLUDING CURBS	30,672	SF	10.82	331,871
	MISC. SUBSTRUCTURE ALLOWANCE	30,672	GSF	0.40	12,318
	SUBTOTAL OF SUBSTRUCTURE				628,212
3.0	STRUCTURE				\$
	STEEL STRUCTURE				
	STRUCTURAL STEEL (INCL. BRACED OR MOMENT FRAMES, COLUMNS, & BEAMS), COMPLETE	245	TON	5,000.00	1,226,880
	METAL DECK				
	METAL DECK + CLOSURE STEELS - ROOF	30,672	SF	4.82	147,839
	SUBTOTAL OF STRUCTURE				1,374,719
4.1	ENCLOSURE, VERTICAL				\$
	EXTERIOR WALL				
	METAL STUD	14,502	SF	8.12	117,754
	METAL PANEL + ATTACHMENTS	5,801	SF	32.47	188,349
	CEMENT PLASTER + LATH/V.B.	8,701	SF	16.24	141,305
	CEMENT PLASTER + LATH/V.B., ROOF SIDE	2,676	SF	16.24	43,458
	GLAS-MAT SHEATHING	17,178	SF	4.05	69,570
	GWB + PAINT, INT. OF EXT.	11,826	SF	3.94	46,594
	BATT INSULATION	11,826	SF	1.08	12,772
	ANTI-GRAFFITTI COATING	8,701	SF	1.89	16,445
	EXTERIOR DOOR + HARDWARES + PAINT				
	ALUM-GLASS DOOR/ALUM FRAME, DUAL LEAF	2	PR	6,819.15	13,638
	HM DOOR/HM FRAME, DUAL LEAF	2	PR	2,898.14	5,796
	HM DOOR/HM FRAME, SINGLE LEAF	2	EA	1,704.79	3,410
	PANIC HARDWARE	8	EA	947.10	7,577
	EXTERIOR WINDOWS				
	STOREFRONTS	1,284	SF	74.14	95,231
	ALLOWANCE FOR PUNCHED WINDOWS	385	SF	75.77	29,198
	SUBTOTAL OF ENCLOSURE, VERTICAL				791,097

PROJECT: NEW F.I.S. FACILITY AT LONG BEACH AIRPORT	JOB #:	C2137A-R2
LOCATION : LONG BEACH, CA	DATE:	22-Jul-16
CLIENT: JACOBS	REVISED:	25-Jul-16
SUBJECT: BUDGETARY OPINION OF PROBABLE COST - NEW SOUTH F.I.S. FACILITY - OPTION 2	GFA:	30,672

ITEM NO.	DESCRIPTION	EST QTY	UNIT	UNIT COST	TOTAL COST
4.2	ENCLOSURE, HORIZONTAL				\$
	ROOFING			-	-
	ASSUME MEMBRANE ROOFING + COVERBOARD + TAPERED RIGID INSULATION	30,672	SF	11.91	365,304
	ALLOWANCE FOR WALKWAY PADS	613	SF	5.95	3,650
	METAL COPING/FLASHING	892	LF	20.02	17,858
	CANTS & COUNTERFLASHING	892	LF	11.64	10,383
	ALLOWANCE FOR SKYLIGHT	1,227	SF	92.00	112,873
	SUBTOTAL OF ENCLOSURE, HORIZONTAL				510,068
4.3	SUPPORT ITEMS				\$
	MISC. SUPPORT ITEMS				
	MISC. METALS ALLOWANCE	30,672	GSF	0.54	16,563
	ROUGH CARPENTRY ALLOWANCE	30,672	GSF	0.32	9,815
	MISC. SHEET METAL ALLOWANCE	30,672	GSF	0.27	8,281
	MISC. FIREPROOFING/FIRESTOPPING ALLOWANCE	30,672	GSF	0.22	6,748
	CAULKING & SEALANTS ALLOWANCE	30,672	GSF	0.27	8,281
	MISC. PAINTING ALLOWANCE	30,672	GSF	0.22	6,748
	SUBTOTAL OF SUPPORT ITEMS				56,436
5.1	INTERNALS, VERTICAL				\$
	INTERIOR WALLS				
	METAL STUD	48,750	SF	7.38	359,775
	GWB + PAINT	94,096	SF	3.94	370,738
	ALLOWANCE, PREMIUM FOR FIRE-RATED PARTITIONS	1	LS	18,260.00	18,260
	BATT INSULATION	48,750	SF	1.08	52,650
	CERAMIC WALL TILES + CEMENT BOARD	2,144	SF	20.02	42,923
	CEMENT PLASTER - K9 KENNEL ROOM	1,260	SF	13.53	17,048
	INTERIOR DOORS				
	INTERIOR DOORS/FRAMES, PER LEAF	42	EA	2,435.41	102,287
	ALLOWANCE, FIRE-RATED DOORS	1	LS	2,560.00	2,560
	INTERIOR GLAZINGS				
	INTERIOR WINDOWS - ALLOWANCE	128	SF	59.53	7,620
	SUBTOTAL OF INTERNALS, VERTICAL				973,861
5.2	INTERNALS, HORIZONTAL				\$
	FLOORING + BASES				
	CARPET FLOOR - OFFICES	2,160	SF	5.41	11,686
	RESILIENT FLOORING	26,471	SF	5.14	136,061
	CERAMIC FLOOR TILE - RESTROOMS	994	SF	13.53	13,449
	RUBBER FLOORING - GYM	242	SF	8.12	1,965
	SEALED CONCRETE FLOOR - KENNEL AREAS	805	SF	1.62	1,304

PROJECT: NEW F.I.S. FACILITY AT LONG BEACH AIRPORT	JOB #:	C2137A-R2
LOCATION : LONG BEACH, CA	DATE:	22-Jul-16
CLIENT: JACOBS	REVISED:	25-Jul-16
SUBJECT: BUDGETARY OPINION OF PROBABLE COST - NEW SOUTH F.I.S. FACILITY - OPTION 2	GFA:	30,672

ITEM NO.	DESCRIPTION	EST QTY	UNIT	UNIT COST	TOTAL COST
	CEILING				
	GWB CEILING + FRAMES + PAINT	2,296	SF	11.91	27,345
	ACT T-BAR CEILING	28,376	SF	5.68	161,176
	MISC. CEILING SOFFITS/BULKING	1	LS	4,710.00	4,710
	SUBTOTAL OF INTERNALS, HORIZONTAL				357,696
5.3	FINISHES, SPECIAL				\$
	SEE CERAMIC TILE FINISHES ELSEWHERE				
	SUBTOTAL OF FINISHES, SPECIAL				
5.4	INTERIORS				\$
	CABINERY				
	ALLOWANCE FOR CABINERY	30,672	GSF	2.71	83,121
	METAL FABRICATIONS				
	ALLOWANCE FOR ROOF HATCH + LADDER	1	EA	1,353.01	1,353
	ALLOWANCE FOR MISC. METAL FABRICATIONS	30,672	GSF	1.08	33,126
	MISCELLANEOUS				
	MISC. INTERIOR ELEMENTS	30,672	GSF	0.10	2,940
	SUBTOTAL OF INTERIORS				120,540
6.0	SPECIALTIES				\$
	SPECIALTIES				
	RESTROOM SPECIALTIES	994	SF	12.37	12,296
	FIRE PROTECTION SPECIALTIES	30,672	GSF	0.40	12,269
	VISUAL AIDS/WALL PANELLING	30,672	GSF	0.11	3,374
	LOCKERS, ASSUME 2-TIER	20	EA	514.14	10,283
	SIGNAGE	30,672	GSF	0.60	18,403
	MISC. SPECIALTIES	30,672	GSF	0.81	24,844
	SUBTOTAL OF SPECIALTIES				81,469
7.0	EQUIPMENT				\$
	SECURITY SCREEN DETECTION SYSTEM EQUIPMENT				-
	PASSENGER PROCESSING EQUIPMENT				N.I.C.
	HOLD ROOMS				N.I.C.
	BAGGAGE HANDLING EQUIPMENT				-
	BAGGAGE CAROUSEL				- SEP. PRICE #2
	FOOD SERVICE EQUIPMENT				
	BREAK ROOM	242	SF	21.08	5,101
	KENNEL EQUIPMENT				-
	KENNEL AREA - METAL CAGE ALLOWANCE	805	SF	9.37	7,543
	MISC. EQUIPMENT ALLOWANCE	30,672	GSF	0.52	15,949
	SUBTOTAL OF EQUIPMENT				28,593

PROJECT: NEW F.I.S. FACILITY AT LONG BEACH AIRPORT	JOB #:	C2137A-R2
LOCATION : LONG BEACH, CA	DATE:	22-Jul-16
CLIENT: JACOBS	REVISED:	25-Jul-16
SUBJECT: BUDGETARY OPINION OF PROBABLE COST - NEW SOUTH F.I.S. FACILITY - OPTION 2	GFA:	30,672

ITEM NO.	DESCRIPTION	EST QTY	UNIT	UNIT COST	TOTAL COST
8.0	SPECIAL CONSTRUCTION				\$
	THIS SECTION NOT APPLICABLE				
	SUBTOTAL OF SPECIAL CONSTRUCTION				
9.0	CONVEYING				\$
	THIS SECTION NOT APPLICABLE				
	SUBTOTAL OF CONVEYING				
10.1	PLUMBING				\$
	PLUMBING WORK				
	PLUMBING EQUIPMENT				
	PLUMBING EQUIPMENT	1	LS	16,236.08	16,236
	PLUMBING FIXTURES				
	TOILET FIXTURES + ROUGH-INS	22	EA	6,575.61	144,663
	AGRI LAB SINK + ROUGH-INS - ALLOWANCE	1	EA	6,900.34	6,900
	DRINKING FOUNTAIN, HI-LO + ROUGH-INS - ALLOWANCE	1	EA	6,827.27	6,827
	PLUMBING PREMIUM				
	ROUGH-INS FOR - BREAK ROOM FIXTURES & EQUIPMENT	242	SF	4.25	1,029
	ROUGH-INS FOR - KENNEL AREAS	805	SF	4.33	3,486
	ROUGH-INS FOR - WASHER/DRYER	1	PR	1,028.29	1,028
	ROOF DRAIN SYSTEM	30,672	GSF	1.35	41,407
	CONDENSATE DRAIN SYSTEM	30,672	GSF	0.27	8,281
	GAS SYSTEM	30,672	GSF	0.87	26,685
	MISC. PLUMBING SYSTEM/TESTING	30,672	GSF	1.35	41,407
	FIRE PROTECTION				
	FIRE SPRINKLER SYSTEM	30,672	GSF	5.41	165,936
	SUBTOTAL OF PLUMBING				463,885
10.2	HVAC				\$
	HVAC SYSTEM				
	BUILDING HVAC SYSTEM - PACKAGED UNITS	30,672	GSF	21.65	664,049
	PREMIUM FOR BREAKROOM	242	SF	5.95	1,440
	PREMIUM FOR K9 KENNEL AREAS	805	SF	8.12	6,537
	MISC. HVAC SYSTEM/TESTING	30,672	GSF	1.62	49,689
	SUBTOTAL OF HVAC				721,715
11.0	ELECTRICAL				\$
	ELECTRICAL SYSTEM				
	EQUIPMENT & PANEL BOARDS	30,672	GSF	9.20	282,182
	SECONDARY FEEDERS	30,672	GSF	4.09	125,448

PROJECT: NEW F.I.S. FACILITY AT LONG BEACH AIRPORT	JOB #:	C2137A-R2
LOCATION : LONG BEACH, CA	DATE:	22-Jul-16
CLIENT: JACOBS	REVISED:	25-Jul-16
SUBJECT: BUDGETARY OPINION OF PROBABLE COST - NEW SOUTH F.I.S. FACILITY - OPTION 2	GFA:	30,672

ITEM NO.	DESCRIPTION	EST QTY	UNIT	UNIT COST	TOTAL COST
	BRANCH POWER	30,672	GSF	3.79	116,247
	LIGHTING SYSTEM	30,672	GSF	10.28	315,308
	COMMUNICATIONS	30,672	GSF	5.95	182,498
	SECURITY	30,672	GSF	6.22	190,780
	FIRE ALARM	30,672	GSF	3.68	112,873
	MISC. ELECTRICAL SYSTEM/TESTING	30,672	GSF	1.17	35,886
	SUBTOTAL OF ELECTRICAL				1,361,222
SEPARATE COST					\$
1.0 SITEWORK					
<u>DEMO WORK</u>					
	SAWCUT/DEMO OF (E) SITE PAVING + 5' BEYOND PERIMETER, ETC. INCL. HAUL OFF	35,232	SF	1.08	38,051
	MIDDLE CURB & SIDEWALK DEMO	3,336	SF	5.00	16,680
	MISC. ALLOWANCE FOR DEMO & RESTORATION TO (E) ADJACENT STRUCTURES AFFECTED BY NEW WORK	1	LS	10,824.06	10,824
<u>SITE PREPARATION</u>					
	SITE CLEARING	38,732	SF	0.11	4,261
	ROUGH GRADING	38,732	SF	0.22	8,521
	EROSION CONTROL	38,732	SF	0.16	6,197
<u>OVER EXCAVATION</u>					
	OVER EXCAVATION, ASSUME 1.5'D BELOW PAVING BASE - 5' BEYOND PERIMETER	565	CY	13.53	7,640
	OVER EXCAVATION, ASSUME 3'D BELOW FOOTING (TOTAL IS 7'D BELOW SLAB BASE)	10,028	CY	13.53	135,684
<u>SITE PAVING</u>					
	ALLOWANCE FOR SITE PAVING @ 5' BEYOND IMPROVEMENTS FOOTPRINT	4,560	SF	27.06	123,394
	ROADWAY PAVEMENT, 7" AC/12" CAB	3,500	SF	15.00	52,500
<u>SITE UTILITIES</u>					
	ALLOWANCE FOR UTILITY DEMO & RELOCATION AFFECTED BY NEW WORK	1	LS	162,360	162,360
	STORM DRAINS & CONNECTIONS	1	LS	15,590.00	15,590
	SEWER & CONNECTIONS	1	LS	9,420.00	9,420
	INCOMING DOMESTIC WATER & CONNECTIONS	1	LS	6,660.00	6,660
	INCOMING FIRE WATER & CONNECTIONS	1	LS	9,250.00	9,250
	INCOMING GAS & CONNECTIONS	1	LS	15,120.00	15,120
	INCOMING POWER SERVICE & CONNECTIONS	1	LS	25,200.00	25,200
	INCOMING COMMUNICATIONS SERVICE & CONNECTIONS	1	LS	12,600.00	12,600
	SUBTOTAL OF SITEWORK				659,952
	TOTAL INCLUDING PRORATES PER BASE ESTIMATE	144.8%			955,692

PROJECT: NEW F.I.S. FACILITY AT LONG BEACH AIRPORT		JOB #:	C2137A-R2
LOCATION : LONG BEACH, CA		DATE:	22-Jul-16
CLIENT: JACOBS		REVISED:	25-Jul-16
SUBJECT: BUDGETARY OPINION OF PROBABLE COST - NEW SOUTH		GFA:	30,672
F.I.S. FACILITY - OPTION 2			

ITEM NO.	DESCRIPTION	EST QTY	UNIT	UNIT COST	TOTAL COST
2.0 BAGGAGE CLAIM					
	<u>DEMO</u>				
	DEMO (E) BAGGAGE CLAIM - AIR SIDE	312	LF	250.00	78,000
	DEMO (E) BAGGAGE CLAIM - PASS. SIDE	346	LF	250.00	86,500
	<u>NEW</u>				
	NEW BAGGAGE CLAIM - AIR SIDE	210	LF	1,250.00	262,500
	NEW BAGGAGE CLAIM - PASS. SIDE	420	LF	1,250.00	525,000
	SUBTOTAL				952,000
	TOTAL INCLUDING PRORATES PER BASE ESTIMATE	144.8%			1,378,613

PROJECT: NEW F.I.S. FACILITY AT LONG BEACH AIRPORT	JOB #:	C2137A-R2
LOCATION : LONG BEACH, CA	DATE:	22-Jul-16
CLIENT: JACOBS	REVISED:	25-Jul-16
SUBJECT: BUDGETARY OPINION OF PROBABLE COST - NEW SOUTH F.I.S. FACILITY (REDUCED AREA) - OPTION 3	GFA:	21,656

ITEM NO.	DESCRIPTION	EST QTY	UNIT	UNIT COST	TOTAL COST
SUMMARY OF ESTIMATE				\$	\$
1.0	SITE WORK				
2.0	SUBSTRUCTURE	7.8%		20.48	443,550
3.0	STRUCTURE	17.0%		44.82	970,622
4.1	ENCLOSURE, VERTICAL	12.6%		33.16	718,181
4.2	ENCLOSURE, HORIZONTAL	6.4%		16.88	365,649
4.3	SUPPORT ITEMS	0.7%		1.84	39,846
5.1	INTERNALS, VERTICAL	16.3%		42.93	929,798
5.2	INTERNALS, HORIZONTAL	4.6%		12.05	260,904
5.3	FINISHES, SPECIAL				
5.4	INTERIORS	1.5%		3.95	85,515
6.0	SPECIALTIES	0.9%		2.49	53,875
7.0	EQUIPMENT	0.1%		0.25	5,414
8.0	SPECIAL CONSTRUCTION				
9.0	CONVEYING				
10.1	PLUMBING + FIRE PROTECTION	6.6%		17.31	374,945
10.2	HVAC	8.8%		23.27	503,935
11.0	ELECTRICAL	16.8%		44.38	961,093
	SUBTOTAL	100.0%		\$263.82	5,713,327
12.00	PRORATES:				
12.10	GENERAL CONDITIONS	8.50%		22.42	485,633
12.20	CONTINGENCY	12.50%		35.78	774,870
12.30	ESCALATION	9.73%		31.33	678,407
12.40	GEOGRAPHICAL FACTOR				
12.50	MARKET FACTOR				
	SUBTOTAL			\$353.35	7,652,237
12.60	BONDS	2.00%		7.07	153,045
12.70	CONTRACTOR'S FEE	6.00%		21.63	468,317
TOTAL OF OPINION OF CONSTRUCTION				382.05	8,273,599
BASE COST					

PROJECT: NEW F.I.S. FACILITY AT LONG BEACH AIRPORT	JOB #:	C2137A-R2
LOCATION : LONG BEACH, CA	DATE:	22-Jul-16
CLIENT: JACOBS	REVISED:	25-Jul-16
SUBJECT: BUDGETARY OPINION OF PROBABLE COST - NEW SOUTH F.I.S. FACILITY (REDUCED AREA) - OPTION 3	GFA:	21,656

ITEM NO.	DESCRIPTION	EST QTY	UNIT	UNIT COST	TOTAL COST
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SEPARATE COST (See detail @ end of estimate)

SITWORK	24,696	SF	32.89	812,310
BAGGAGE CLAIM	630	LF	2,188.27	1,378,613
STERILE CORRIDOR FROM AIRCRAFT	1,395	SF		

TOTAL OF OPINION OF CONSTRUCTION	10,464,522
BASE COST PLUS SEPARATE COST	

FLOOR AREA SUMMARY	NET SF AREA	GROSSED UP AREA
ENTRY CORRIDOR		1,815
GENERAL AREAS		16,675
BAGGAGE CLAIM		5,772
CIRCULATION		1,888
COUNTER TERRORISM RESPONSE - CTR		575
RESTROOM		842
QUEUING		3,308
PASSENGER PROCESSING		1,786
COMMAND & CONTROL CENTER - CCC		0
WIRING/IDF		
LAN/TELCO		
RADIO/TEL ROOM		
LACTATION ROOM		
STAFF BREAK ROOM		
GYM		
LOCKERS		
MALE HOLD ROOM		
FEMALE HOLD ROOM		
JUVENILE HOLD ROOM		
INTERVIEW ROOM		
SEARCH ROOM		
DETAINEE BAGGAGE STORAGE		61
AGRI LAB		182
AGRI DISPOSAL		182
ICE OFFICE		182
MEN'S TOILET		76
WOMEN'S TOILET		76
WAITING		303
GENERAL STORAGE		
SUPERVISOR'S OFFICE		
PORT DIRECTOR'S OFFICE		272
CHIEF OFFICER'S OFFICE		242

PROJECT: NEW F.I.S. FACILITY AT LONG BEACH AIRPORT	JOB #:	C2137A-R2
LOCATION : LONG BEACH, CA	DATE:	22-Jul-16
CLIENT: JACOBS	REVISED:	25-Jul-16
SUBJECT: BUDGETARY OPINION OF PROBABLE COST - NEW SOUTH F.I.S. FACILITY (REDUCED AREA) - OPTION 3	GFA:	21,656

ITEM NO.	DESCRIPTION	EST QTY	UNIT	UNIT COST	TOTAL COST
	ADIT			182	
	GENERAL OFFICES			310	
	WASHER/DRYER				
	DRY FOOD STORAGE				
	K9 KENNEL				
	K9 PROCESSING				
	K9 FOOD PREP				
	K9 GENERAL STORAGE				
	K9 TRAINING AID STORAGE				
	K9 TRAINING AID STORAGE				
	K9 WORK AREA				
	TEMP SEIZED PROPERTY				
	SECURE STORAGE				
	PPE STORAGE				
	WEAPONS CLEANING				
	WEAPONS STORAGE				
	SHIPS OFFICE				
	TRIAGE PODIUM			218	
	EXIT PODIUM			218	
	ADDITIONAL AREAS			3,166	
	CORRIDOR BETWEEN ENTRY/EXIT				
	INTERNAL CORRIDOR			1,008	
	SECONDARY AREA			2,158	
	TOTAL FLOOR AREA			21,656	

PROJECT: NEW F.I.S. FACILITY AT LONG BEACH AIRPORT	JOB #:	C2137A-R2
LOCATION : LONG BEACH, CA	DATE:	22-Jul-16
CLIENT: JACOBS	REVISED:	25-Jul-16
SUBJECT: BUDGETARY OPINION OF PROBABLE COST - NEW SOUTH F.I.S. FACILITY (REDUCED AREA) - OPTION 3	GFA:	21,656

ITEM NO.	DESCRIPTION	EST QTY	UNIT	UNIT COST	TOTAL COST
1.0	SITWORK				\$
	SEE SEPARATE SITWORK COST @ END OF ESTIMATE				
	SUBTOTAL OF SITWORK				
2.0	SUBSTRUCTURE				\$
	FOUNDATIONS/S.O.G./CURBS				
	FOUNDATON, COMPLETE	21,656	SF	9.26	200,535
	SLAB ON-GRADE INCLUDING CURBS	21,656	SF	10.82	234,318
	MISC. SUBSTRUCTURE ALLOWANCE	21,656	GSF	0.40	8,697
	SUBTOTAL OF SUBSTRUCTURE				443,550
3.0	STRUCTURE				\$
	STEEL STRUCTURE				
	STRUCTURAL STEEL (INCL. BRACED OR MOMENT FRAMES, COLUMNS, & BEAMS), COMPLETE	173	TON	5,000.00	866,240
	METAL DECK				
	METAL DECK + CLOSURE STEELS - ROOF	21,656	SF	4.82	104,382
	SUBTOTAL OF STRUCTURE				970,622
4.1	ENCLOSURE, VERTICAL				\$
	EXTERIOR WALL				
	METAL STUD	13,112	SF	8.12	106,467
	METAL PANEL + ATTACHMENTS	5,245	SF	32.47	170,294
	CEMENT PLASTER + LATH/V.B.	7,867	SF	16.24	127,760
	CEMENT PLASTER + LATH/V.B., ROOF SIDE	2,419	SF	16.24	39,292
	GLAS-MAT SHEATHING	15,531	SF	4.05	62,901
	GWB + PAINT, INT. OF EXT.	10,692	SF	3.94	42,127
	BATT INSULATION	10,692	SF	1.08	11,548
	ANTI-GRAFFITTI COATING	7,867	SF	1.89	14,869
	EXTERIOR DOOR + HARDWARES + PAINT				
	ALUM-GLASS DOOR/ALUM FRAME, DUAL LEAF	2	PR	6,819.15	13,638
	HM DOOR/HM FRAME, DUAL LEAF	2	PR	2,898.14	5,796
	HM DOOR/HM FRAME, SINGLE LEAF	2	EA	1,704.79	3,410
	PANIC HARDWARE	8	EA	947.10	7,577
	EXTERIOR WINDOWS				
	STOREFRONTS	1,161	SF	74.14	86,103
	ALLOWANCE FOR PUNCHED WINDOWS	348	SF	75.77	26,399
	SUBTOTAL OF ENCLOSURE, VERTICAL				718,181
4.2	ENCLOSURE, HORIZONTAL				\$

PROJECT: NEW F.I.S. FACILITY AT LONG BEACH AIRPORT	JOB #:	C2137A-R2
LOCATION : LONG BEACH, CA	DATE:	22-Jul-16
CLIENT: JACOBS	REVISED:	25-Jul-16
SUBJECT: BUDGETARY OPINION OF PROBABLE COST - NEW SOUTH F.I.S. FACILITY (REDUCED AREA) - OPTION 3	GFA:	21,656

ITEM NO.	DESCRIPTION	EST QTY	UNIT	UNIT COST	TOTAL COST
ROOFING					
	ASSUME MEMBRANE ROOFING + COVERBOARD + TAPERED RIGID INSULATION	21,656	SF	11.91	257,923
	ALLOWANCE FOR WALKWAY PADS	433	SF	5.95	2,577
	METAL COPING/FLASHING	804	LF	20.02	16,096
	CANTS & COUNTERFLASHING	804	LF	11.64	9,359
	ALLOWANCE FOR SKYLIGHT	866	SF	92.00	79,694
SUBTOTAL OF ENCLOSURE, HORIZONTAL					365,649
4.3 SUPPORT ITEMS					
					\$
	MISC. METALS ALLOWANCE	21,656	GSF	0.54	11,694
	ROUGH CARPENTRY ALLOWANCE	21,656	GSF	0.32	6,930
	MISC. SHEET METAL ALLOWANCE	21,656	GSF	0.27	5,847
	MISC. FIREPROOFING/FIRESTOPPING ALLOWANCE	21,656	GSF	0.22	4,764
	CAULKING & SEALANT ALLOWANCE	21,656	GSF	0.27	5,847
	MISC. PAINTING ALLOWANCE	21,656	GSF	0.22	4,764
SUBTOTAL OF SUPPORT ITEMS					39,846
5.1 INTERNALS, VERTICAL					
					\$
INTERIOR WALLS					
	METAL STUD	44,077	SF	7.38	325,288
	GWB + PAINT	86,010	SF	3.94	338,879
	ALLOWANCE, PREMIUM FOR FIRE-RATED PARTITIONS	1	LS	66,420.00	66,420
	BATT INSULATION	44,077	SF	1.08	47,603
	CERAMIC WALL TILES + CEMENT BOARD	2,144	SF	20.02	42,923
INTERIOR DOORS					
	INTERIOR DOORS/FRAMES, PER LEAF	38	EA	2,435.41	92,546
	ALLOWANCE, FIRE-RATED DOORS	1	LS	9,250.00	9,250
INTERIOR GLAZINGS					
	INTERIOR WINDOWS - ALLOWANCE	116	SF	59.53	6,889
SUBTOTAL OF INTERNALS, VERTICAL					929,798
5.2 INTERNALS, HORIZONTAL					
					\$
FLOORING + BASES					
	CARPET FLOOR - OFFICES	1,188	SF	5.41	6,427
	RESILIENT FLOORING	19,474	SF	5.14	100,096
	CERAMIC FLOOR TILE - RESTROOMS	994	SF	13.53	13,449
CEILING					
	GWB CEILING + FRAMES + PAINT	1,419	SF	11.91	16,900
	ACT T-BAR CEILING	21,231	SF	5.68	120,592
	MISC. CEILING SOFFITS/BULKING	1	LS	3,440.00	3,440
SUBTOTAL OF INTERNALS, HORIZONTAL					260,904

PROJECT: NEW F.I.S. FACILITY AT LONG BEACH AIRPORT	JOB #:	C2137A-R2
LOCATION : LONG BEACH, CA	DATE:	22-Jul-16
CLIENT: JACOBS	REVISED:	25-Jul-16
SUBJECT: BUDGETARY OPINION OF PROBABLE COST - NEW SOUTH F.I.S. FACILITY (REDUCED AREA) - OPTION 3	GFA:	21,656

ITEM NO.	DESCRIPTION	EST QTY	UNIT	UNIT COST	TOTAL COST
5.3	FINISHES, SPECIAL				\$
	SEE CERAMIC TILE FINISHES ELSEWHERE				
	SUBTOTAL OF FINISHES, SPECIAL				
5.4	INTERIORS				\$
	CABINERY				
	ALLOWANCE FOR CABINERY	21,656	GSF	2.71	58,688
	METAL FABRICATIONS				
	ALLOWANCE FOR ROOF HATCH + LADDER	1	EA	1,353.01	1,353
	ALLOWANCE FOR MISC. METAL FABRICATIONS	21,656	GSF	1.08	23,388
	MISCELLANEOUS				
	MISC. INTERIOR ELEMENTS	21,656	GSF	0.10	2,086
	SUBTOTAL OF INTERIORS				85,515
6.0	SPECIALTIES				\$
	SPECIALTIES				
	RESTROOM SPECIALTIES	994	SF	12.37	12,296
	FIRE PROTECTION SPECIALTIES	21,656	GSF	0.40	8,662
	VISUAL AIDS/WALL PANELLING	21,656	GSF	0.11	2,382
	SIGNAGE	21,656	GSF	0.60	12,994
	MISC. SPECIALTIES	21,656	GSF	0.81	17,541
	SUBTOTAL OF SPECIALTIES				53,875
7.0	EQUIPMENT				\$
	SECURITY SCREEN DETECTION SYSTEM EQUIPMENT				-
	PASSENGER PROCESSING EQUIPMENT				N.I.C.
	HOLD ROOMS				N.I.C.
	BAGGAGE HANDLING EQUIPMENT				-
	BAGGAGE CAROUSEL				N.I.C.
	MISC. EQUIPMENT ALLOWANCE	21,656	GSF	0.25	5,414
	SUBTOTAL OF EQUIPMENT				5,414

PROJECT: NEW F.I.S. FACILITY AT LONG BEACH AIRPORT	JOB #:	C2137A-R2
LOCATION : LONG BEACH, CA	DATE:	22-Jul-16
CLIENT: JACOBS	REVISED:	25-Jul-16
SUBJECT: BUDGETARY OPINION OF PROBABLE COST - NEW SOUTH F.I.S. FACILITY (REDUCED AREA) - OPTION 3	GFA:	21,656

ITEM NO.	DESCRIPTION	EST QTY	UNIT	UNIT COST	TOTAL COST
8.0	SPECIAL CONSTRUCTION				\$
	THIS SECTION NOT APPLICABLE				
	SUBTOTAL OF SPECIAL CONSTRUCTION				
9.0	CONVEYING				\$
	THIS SECTION NOT APPLICABLE				
	SUBTOTAL OF CONVEYING				
10.1	PLUMBING				\$
	PLUMBING EQUIPMENT				
	PLUMBING EQUIPMENT	1	LS	16,236.08	16,236
	PLUMBING FIXTURES				
	TOILET FIXTURES + ROUGH-INS	22	EA	6,575.61	144,663
	AGRI LAB SINK + ROUGH-INS - ALLOWANCE	1	EA	6,900.34	6,900
	DRINKING FOUNTAIN, HI-LO + ROUGH-INS - ALLOWANCE	1	EA	6,827.27	6,827
	ROOF DRAIN SYSTEM	21,656	GSF	1.35	29,236
	CONDENSATE DRAIN SYSTEM	21,656	GSF	0.27	5,847
	GAS SYSTEM	21,656	GSF	0.87	18,841
	MISC. PLUMBING SYSTEM/TESTING	21,656	GSF	1.35	29,236
	FIRE PROTECTION				
	FIRE SPRINKLER SYSTEM	21,656	GSF	5.41	117,159
	SUBTOTAL OF PLUMBING				374,945
10.2	HVAC				\$
	HVAC SYSTEM				
	BUILDING HVAC SYSTEM - PACKAGED UNITS	21,656	GSF	21.65	468,852
	MISC. HVAC SYSTEM/TESTING	21,656	GSF	1.62	35,083
	SUBTOTAL OF HVAC				503,935
11.0	ELECTRICAL				\$
	ELECTRICAL SYSTEM				
	EQUIPMENT & PANEL BOARDS	21,656	GSF	9.20	199,235
	SECONDARY FEEDERS	21,656	GSF	4.09	88,573
	BRANCH POWER	21,656	GSF	3.79	82,076
	LIGHTING SYSTEM	21,656	GSF	10.28	222,624
	COMMUNICATIONS	21,656	GSF	5.95	128,853
	SECURITY	21,656	GSF	6.22	134,700
	FIRE ALARM	21,656	GSF	3.68	79,694
	MISC. ELECTRICAL SYSTEM/TESTING	21,656	GSF	1.17	25,338

PROJECT: NEW F.I.S. FACILITY AT LONG BEACH AIRPORT	JOB #:	C2137A-R2
LOCATION : LONG BEACH, CA	DATE:	22-Jul-16
CLIENT: JACOBS	REVISED:	25-Jul-16
SUBJECT: BUDGETARY OPINION OF PROBABLE COST - NEW SOUTH F.I.S. FACILITY (REDUCED AREA) - OPTION 3	GFA:	21,656

ITEM NO.	DESCRIPTION	EST QTY	UNIT	UNIT COST	TOTAL COST
SUBTOTAL OF ELECTRICAL					961,093
SEPARATE COST					\$
1.0 SITEWORK					
<u>DEMO WORK</u>					
	SAWCUT/DEMO OF (E) SITE PAVING + 5' BEYOND PERIMETER, ETC. INCLUDING HAUL OFF MIDDLE CURB & SIDEWALK DEMO	24,696	SF	1.08	26,672
	ALLOWANCE FOR DEMO & RESTORATION TO (E) ADJACENT STRUCTURES AFFECTED BY NEW WORK	3,336	SF	5.00	16,680
		1	LS	10,824.06	10,824
<u>SITE PREPARATION</u>					
	SITE CLEARING	28,196	SF	0.11	3,102
	ROUGH GRADING	28,196	SF	0.22	6,203
	EROSION CONTROL	28,196	SF	0.16	4,511
<u>OVER EXCAVATION</u>					
	OVER EXCAVATION, ASSUME 1.5'D BELOW PAVING BASE - 5' BEYOND PERIMETER	458	CY	13.53	6,199
	OVER EXCAVATION, ASSUME 3'D BELOW FOOTING (TOTAL IS 7'D BELOW SLAB BASE)	7,081	CY	13.53	95,800
<u>SITE PAVING</u>					
	ALLOWANCE FOR SITE PAVING @ 5' BEYOND IMPROVEMENTS FOOTPRINT	3,040	SF	27.06	82,262
	ROADWAY PAVEMENT, 7" AC/12" CAB	3,500	SF	15.00	52,500
<u>SITE UTILITIES</u>					
	ALLOWANCE FOR UTILITY DEMO & RELOCATION AFFECTED BY NEW WORK	1	LS	162,361	162,361
	STORM DRAINS & CONNECTIONS	1	LS	15,586.64	15,587
	SEWER & CONNECTIONS	1	LS	9,416.93	9,417
	INCOMING DOMESTIC WATER & CONNECTIONS	1	LS	6,656.79	6,657
	INCOMING FIRE WATER & CONNECTIONS	1	LS	9,254.57	9,255
	INCOMING GAS & CONNECTIONS	1	LS	15,117.09	15,117
	INCOMING POWER SERVICE & CONNECTIONS	1	LS	25,195.15	25,195
	INCOMING COMMUNICATIONS SERVICE & CONNECTIONS	1	LS	12,597.58	12,598
SUBTOTAL OF SITEWORK					560,940
TOTAL INCLUDING PRORATES PER BASE ESTIMATE		144.8%			812,310
2.0 BAGGAGE CLAIM					
<u>DEMO</u>					
	DEMO (E) BAGGAGE CLAIM - AIR SIDE	312	LF	250.00	78,000
	DEMO (E) BAGGAGE CLAIM - PASS. SIDE	346	LF	250.00	86,500
<u>NEW</u>					
	NEW BAGGAGE CLAIM - AIR SIDE	210	LF	1,250.00	262,500

PROJECT: NEW F.I.S. FACILITY AT LONG BEACH AIRPORT		JOB #:	C2137A-R2
LOCATION : LONG BEACH, CA		DATE:	22-Jul-16
CLIENT: JACOBS		REVISED:	25-Jul-16
SUBJECT: BUDGETARY OPINION OF PROBABLE COST - NEW SOUTH F.I.S. FACILITY (REDUCED AREA) - OPTION 3		GFA:	21,656

ITEM NO.	DESCRIPTION	EST QTY	UNIT	UNIT COST	TOTAL COST
	NEW BAGGAGE CLAIM - PASS. SIDE	420	LF	1,250.00	525,000
	SUBTOTAL				952,000
	TOTAL INCLUDING PRORATES PER BASE ESTIMATE	144.8%			1,378,613

PROJECT: NEW F.I.S. FACILITY AT LONG BEACH AIRPORT	JOB #:	C2137A-R2
LOCATION : LONG BEACH, CA	DATE:	22-Jul-16
CLIENT: JACOBS	REVISED:	25-Jul-16
SUBJECT: BUDGETARY OPINION OF PROBABLE COST - RETROFIT EXISTING SECURITY CHECKPOINT BUILDING	GFA:	6,750

ITEM NO.	DESCRIPTION	EST QTY	UNIT	UNIT COST	TOTAL COST
SUMMARY OF ESTIMATE				\$	\$
1.0	SITE WORK				
2.0	SUBSTRUCTURE				
3.0	STRUCTURE				
4.1	ENCLOSURE, VERTICAL				
4.2	ENCLOSURE, HORIZONTAL				
4.3	SUPPORT ITEMS	2.1%		1.23	8,303
5.1	INTERNALS, VERTICAL	17.3%		10.20	68,850
5.2	INTERNALS, HORIZONTAL	24.9%		14.66	98,956
5.3	FINISHES, SPECIAL				
5.4	INTERIORS	13.5%		7.94	53,595
6.0	SPECIALTIES	3.1%		1.84	12,420
7.0	EQUIPMENT	0.6%		0.34	2,295
8.0	SPECIAL CONSTRUCTION				
9.0	CONVEYING				
10.1	PLUMBING + FIRE PROTECTION	4.2%		2.46	16,606
10.2	HVAC	15.6%		9.16	61,830
11.0	ELECTRICAL	18.7%		10.99	74,183
	SUBTOTAL	100.0%		\$58.82	397,038
12.00	PRORATES:				
12.10	GENERAL CONDITIONS	8.50%		5.00	33,748
12.20	CONTINGENCY	12.50%		7.98	53,848
12.30	ESCALATION	9.73%		6.98	47,145
12.40	GEOGRAPHICAL FACTOR				
12.50	MARKET FACTOR				
	SUBTOTAL			\$78.78	531,779
12.60	BONDS	2.00%		1.58	10,636
12.70	CONTRACTOR'S FEE	6.00%		4.82	32,545
TOTAL OF OPINION OF CONSTRUCTION BASE COST				85.18	574,960

PROJECT: NEW F.I.S. FACILITY AT LONG BEACH AIRPORT	JOB #:	C2137A-R2
LOCATION : LONG BEACH, CA	DATE:	22-Jul-16
CLIENT: JACOBS	REVISED:	25-Jul-16
SUBJECT: BUDGETARY OPINION OF PROBABLE COST - RETROFIT EXISTING SECURITY CHECKPOINT BUILDING	GFA:	6,750

ITEM NO.	DESCRIPTION	EST QTY	UNIT	UNIT COST	TOTAL COST
1.0	SITWORK				\$
	THIS SECTION NOT APPLICABLE				
SUBTOTAL OF SITWORK					
2.0	SUBSTRUCTURE				\$
	THIS SECTION NOT APPLICABLE				
SUBTOTAL OF SUBSTRUCTURE					
3.0	STRUCTURE				\$
	STRUCTURE RE-WORK - ASSUME N/A				
SUBTOTAL OF STRUCTURE					
4.1	ENCLOSURE, VERTICAL			0.03	\$
	EXTERIOR WALLS - ASSUME NO CHANGE				-
SUBTOTAL OF ENCLOSURE, VERTICAL					
4.2	ENCLOSURE, HORIZONTAL				\$
	THIS SECTION NOT APPLICABLE				
SUBTOTAL OF ENCLOSURE, HORIZONTAL					
4.3	SUPPORT ITEMS				\$
	CAULKING & SEALANTS ALLOWANCE	6,750	GSF	0.61	4,118
	MISC. RE-PAINTING ALLOWANCE	6,750	GSF	0.62	4,185
SUBTOTAL OF SUPPORT ITEMS					8,303
5.1	INTERNALS, VERTICAL				\$
	INTERIOR WALLS	6,750	GSF	9.38	63,315
	INTERIOR DOORS/WINDOWS	6,750	GSF	0.82	5,535
SUBTOTAL OF INTERNALS, VERTICAL					68,850
5.2	INTERNALS, HORIZONTAL				\$
	FLOORING + BASES	6,750	GSF	6.11	41,243
	CEILING, COMPLETE	6,750	GSF	8.55	57,713

PROJECT: NEW F.I.S. FACILITY AT LONG BEACH AIRPORT	JOB #:	C2137A-R2
LOCATION : LONG BEACH, CA	DATE:	22-Jul-16
CLIENT: JACOBS	REVISED:	25-Jul-16
SUBJECT: BUDGETARY OPINION OF PROBABLE COST - RETROFIT EXISTING SECURITY CHECKPOINT BUILDING	GFA:	6,750

ITEM NO.	DESCRIPTION	EST QTY	UNIT	UNIT COST	TOTAL COST
SUBTOTAL OF INTERNALS, HORIZONTAL					98,956
5.3	FINISHES, SPECIAL				\$
	SEE CERAMIC TILE FINISHES ELSEWHERE				
SUBTOTAL OF FINISHES, SPECIAL					
5.4	INTERIORS				\$
	CASEWORK	6,750	GSF	4.28	28,890
	MISC. INTERIOR ELEMENTS	6,750	GSF	3.66	24,705
SUBTOTAL OF INTERIORS					53,595
6.0	SPECIALTIES				\$
	BUILDING SPECIALTIES INCLUDING SIGNAGE, COMPLETE	6,750	GSF	1.84	12,420
SUBTOTAL OF SPECIALTIES					12,420
7.0	EQUIPMENT				\$
	SECURITY SCREENING EQUIPMENT DEMO EXISTING	6,750	GSF	0.34	N.I.C. 2,295
SUBTOTAL OF EQUIPMENT					2,295
8.0	SPECIAL CONSTRUCTION				\$
	THIS SECTION NOT APPLICABLE				
SUBTOTAL OF SPECIAL CONSTRUCTION					
9.0	CONVEYING				\$
	THIS SECTION NOT APPLICABLE				
SUBTOTAL OF CONVEYING					
10.1	PLUMBING				\$
	PLUMBING REMODEL	6,750	GSF	0.93	6,278
	FIRE SPRINKLER REMODEL	6,750	GSF	1.53	10,328
SUBTOTAL OF PLUMBING					16,606

PROJECT: NEW F.I.S. FACILITY AT LONG BEACH AIRPORT	JOB #:	C2137A-R2
LOCATION : LONG BEACH, CA	DATE:	22-Jul-16
CLIENT: JACOBS	REVISED:	25-Jul-16
SUBJECT: BUDGETARY OPINION OF PROBABLE COST - RETROFIT EXISTING SECURITY CHECKPOINT BUILDING	GFA:	6,750

ITEM NO.	DESCRIPTION	EST QTY	UNIT	UNIT COST	TOTAL COST
10.2	HVAC				\$
	HVAC REMODEL - OFFICE DISTRIBUTION ONLY	6,750	GSF	9.16	61,830
	SUBTOTAL OF HVAC				61,830
11.0	ELECTRICAL				\$
	ALLOWANCE FOR ELECTRICAL UPGRADE TO OFFICE STANDARDS	6,750	GSF	10.99	74,183
	SUBTOTAL OF ELECTRICAL				74,183

PROJECT: NEW F.I.S. FACILITY AT LONG BEACH AIRPORT		JOB #:	C2137A-R2
LOCATION: LONG BEACH		DATE:	21-Jul-16
CLIENT: JACOBS		REVISED:	25-Jul-16
SUBJECT: BUDGETARY OPINION OF PROBABLE COST - NEW SECURITY CHECKPOINT BUILDING		GFA:	8,700

ITEM NO.	DESCRIPTION	EST QTY	UNIT	UNIT COST	TOTAL COST
SUMMARY OF ESTIMATE				\$	\$
1.0	SITE WORK	12.4%		43.31	376,795
2.0	SUBSTRUCTURE	4.7%		16.35	142,245
3.0	STRUCTURE	15.3%		53.42	464,771
4.1	ENCLOSURE, VERTICAL	17.1%		59.68	519,216
4.2	ENCLOSURE, HORIZONTAL	6.5%		22.84	198,742
4.3	SUPPORT ITEMS	1.2%		4.32	37,584
5.1	INTERNALS, VERTICAL	4.6%		15.96	138,852
5.2	INTERNALS, HORIZONTAL	7.4%		25.98	226,026
5.3	FINISHES, SPECIAL				
5.4	INTERIORS	0.4%		1.29	11,223
6.0	SPECIALTIES	1.5%		5.09	44,283
7.0	EQUIPMENT	2.1%		7.47	65,000
8.0	SPECIAL CONSTRUCTION				
9.0	CONVEYING				
10.1	PLUMBING + FIRE PROTECTION	3.0%		10.36	90,089
10.2	HVAC	8.0%		27.93	242,991
11.0	ELECTRICAL	15.8%		55.27	480,849
	SUBTOTAL	100.0%		\$349.27	3,038,666
12.00	PRORATES:				
12.10	GENERAL CONDITIONS	8.50%		29.69	258,287
12.20	CONTINGENCY	12.50%		47.37	412,119
12.30	ESCALATION	9.73%		41.47	360,815
12.40	GEOGRAPHICAL FACTOR				
12.50	MARKET FACTOR				
	SUBTOTAL			\$467.80	4,069,887
12.60	BONDS	2.00%		9.36	81,398
12.70	CONTRACTOR'S FEE	6.00%		28.63	249,077
TOTAL OF OPINION OF CONSTRUCTION				505.79	4,400,362
BASE COST					

PROJECT: NEW F.I.S. FACILITY AT LONG BEACH AIRPORT	JOB #:	C2137A-R2
LOCATION: LONG BEACH	DATE:	21-Jul-16
CLIENT: JACOBS	REVISED:	25-Jul-16
SUBJECT: BUDGETARY OPINION OF PROBABLE COST - NEW SECURITY CHECKPOINT BUILDING	GFA:	8,700

ITEM NO.	DESCRIPTION	EST QTY	UNIT	UNIT COST	TOTAL COST
1.0	SITework				\$
	<u>SITE PREP</u>				
	SITE DEMO & PROTECTION, COMPLETE	13,186	SF	1.88	24,790
	EARTHWORK/GRADING/EXPORT OVER EXCAVATION	13,186	SF	0.99	13,054
	EROSION CONTROL	13,186	SF	1.96	25,845
	<u>HARDSCAPE</u>				
	CONCRETE PAVING/CURB	13,186	SF	0.08	1,055
	ASPHALT OVERLAY	3,190	SF	7.02	22,394
	ASPHALT PAVING	2,184	SF	2.87	6,268
	<u>SITE WALL/MISC.</u>				
	SITE WALL (STUD & PLASTER)	1,300	SF	5.14	6,682
	EXISTING CANOPY REPAIR	26	LF	401.69	10,444
	<u>UTILITIES</u>				
	STORM DRAINS	1,352	SF	19.70	26,634
	SANITARY SEWER	13,186	SF	8.30	109,444
	DOMESTIC WATER	13,186	SF	4.78	63,029
	FIRE WATER	13,186	SF	0.03	435
	NATURAL GAS	13,186	SF	1.03	13,582
	SITE ELECTRICAL	13,186	SF	0.55	7,252
	MISC. SITE UTILITIES	13,186	SF	1.93	25,449
				1.55	20,438
	SUBTOTAL OF SITework				376,795
2.0	SUBSTRUCTURE				\$
	FOUNDATIONS/S.O.G./CURBS	8,700	GSF	9.28	80,736
	S.O.G./CURBS	8,700	GSF	7.07	61,509
	SUBTOTAL OF SUBSTRUCTURE				142,245
3.0	STRUCTURE				\$
	STEEL STRUCTURES	8,700	GSF	30.45	264,915
	METAL DECK	8,700	GSF	4.08	35,496
	CANOPY + DECK	3,768	SF	43.62	164,360
	SUBTOTAL OF STRUCTURE				464,771
4.1	ENCLOSURE, VERTICAL				\$
	EXTERIOR WALLS	8,700	GSF	23.92	208,104
	EXTERIOR DOORS W/ SECURITY DEVICES	8,700	GSF	6.75	58,725
	EXTERIOR WINDOWS	8,700	GSF	29.01	252,387
	SUBTOTAL OF ENCLOSURE, VERTICAL				519,216

PROJECT: NEW F.I.S. FACILITY AT LONG BEACH AIRPORT	JOB #:	C2137A-R2
LOCATION: LONG BEACH	DATE:	21-Jul-16
CLIENT: JACOBS	REVISED:	25-Jul-16
SUBJECT: BUDGETARY OPINION OF PROBABLE COST - NEW SECURITY CHECKPOINT BUILDING	GFA:	8,700

ITEM NO.	DESCRIPTION	EST QTY	UNIT	UNIT COST	TOTAL COST
4.2	ENCLOSURE, HORIZONTAL				\$
	BUILDING ROOFING, COMPLETE	8,700	GSF	15.23	132,501
	CANOPY ROOFING, COMPLETE	3,768	SF	16.58	62,473
	EXTERIOR SOFFIT - PAINT U/S CANOPY	3,768	SF	1.00	3,768
	SUBTOTAL OF ENCLOSURE, HORIZONTAL				198,742
4.3	SUPPORT ITEMS				\$
	MISC. METALS ALLOWANCE	8,700	GSF	1.00	8,700
	ROUGH CARPENTRY ALLOWANCE	8,700	GSF	0.50	4,350
	MISC. SHEET METAL ALLOWANCE	8,700	GSF	0.75	6,525
	MISC. FIREPROOFING/FIRESTOPPING ALLOWANCE	8,700	GSF	1.32	11,484
	CAULKING & SEALANT ALLOWANCE	8,700	GSF	0.75	6,525
	SUBTOTAL OF SUPPORT ITEMS				37,584
5.1	INTERNALS, VERTICAL				\$
	INTERIOR WALLS	8,700	GSF	14.95	130,065
	INTERIOR DOORS	8,700	GSF	1.01	8,787
	INTERIOR WINDOWS				NONE
	SUBTOTAL OF INTERNALS, VERTICAL				138,852
5.2	INTERNALS, HORIZONTAL				\$
	FLOORING + BASES	8,700	GSF	5.42	47,154
	CEILING, COMPLETE	8,700	GSF	20.56	178,872
	SUBTOTAL OF INTERNALS, HORIZONTAL				226,026
5.3	FINISHES, SPECIAL				\$
	SEE CERAMIC TILE FINISHES ELSEWHERE				
	SUBTOTAL OF FINISHES, SPECIAL				
5.4	INTERIORS				\$
	CABINERY	8,700	GSF	0.50	4,350
	METAL FABRICATIONS/MISC. METALS	8,700	GSF	0.36	3,132
	MISC. INTERIOR ELEMENTS	8,700	GSF	0.43	3,741
	SUBTOTAL OF INTERIORS				11,223
6.0	SPECIALTIES				\$
	BUILDING SPECIALTIES INCLUDING SIGNAGE, COMPLETE	8,700	GSF	5.09	44,283
	SUBTOTAL OF SPECIALTIES				44,283

PROJECT: NEW F.I.S. FACILITY AT LONG BEACH AIRPORT		JOB #:	C2137A-R2
LOCATION: LONG BEACH		DATE:	21-Jul-16
CLIENT: JACOBS		REVISED:	25-Jul-16
SUBJECT: BUDGETARY OPINION OF PROBABLE COST - NEW SECURITY CHECKPOINT BUILDING		GFA:	8,700

ITEM NO.	DESCRIPTION	EST QTY	UNIT	UNIT COST	TOTAL COST
7.0	EQUIPMENT				\$
	RELOCATE SECURITY SCREENING EQUIPMENT FROM (E) BUILDING TO NEW SCREENING BUILDING - ALLOWANCE PER JACOBS	1	LS	25,000.00	25,000
	FLIGHT MONITORING EQUIPMENT	4	EA	10,000.00	40,000
	SUBTOTAL OF EQUIPMENT				65,000
8.0	SPECIAL CONSTRUCTION				\$
	THIS SECTION NOT APPLICABLE				
	SUBTOTAL OF SPECIAL CONSTRUCTION				
9.0	CONVEYING				\$
	THIS SECTION NOT APPLICABLE				
	SUBTOTAL OF CONVEYING				
10.1	PLUMBING				\$
	PLUMBING, COMPLETE	8,700	GSF	3.64	31,668
	FIRE PROTECTION - BUILDING	8,700	GSF	5.00	43,500
	FIRE PROTECTION - CANOPY	3,768	SF	3.96	14,921
	SUBTOTAL OF PLUMBING				90,089
10.2	HVAC				\$
	BUILDING HVAC SYSTEM, COMPLETE	8,700	GSF	27.93	242,991
	SUBTOTAL OF HVAC				242,991
11.0	ELECTRICAL				\$
	POWER	8,700	GSF	9.03	78,561
	LIGHTING	8,700	GSF	11.02	95,874
	DATA/TELEPHONE SYSTEM	8,700	GSF	5.83	50,721
	MUFIDS/VISUAL PAGING/P.A. SYSTEM	8,700	GSF	3.82	33,234
	FIRE ALARM SYSTEM	8,700	GSF	6.08	52,896
	SECURITY SYSTEM	8,700	GSF	15.69	136,503
	MISCELLANEOUS	8,700	GSF	3.80	33,060
	SUBTOTAL OF ELECTRICAL				480,849

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