Lease No. AYD-350

between

THE PORT AUTHORITY OF NEW YORK AND NEW JERSEY

and

JETBLUE AIRWAYS CORPORATION

Volume V of VI

EXHIBIT 2.11

"Construction Trade Cost Estimate"

to Lease No. AYD-350

between

THE PORT AUTHORITY OF NEW YORK AND NEW JERSEY

and

JETBLUE AIRWAYS CORPORATION

For the Port Authority

Initialed:

For the Lessee

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Section 1.0

Construction Trade Cost Estimate

Section 1.1

All work elements excluding Parking Garage

jetBlue AIRWAYS

JFK International Airport
Terminal 5
Redevelopment

60% CD Estimate

April 20, 2005

Turner

THE PORT AUTHORITY OF NEW YORK AND NEW JERSEY
JOHN F. KENNEDY
INTERNATIONAL AIRPORT

Stage 2 Construction Trade Cost Estimate

EXHIBIT 2.11 Part 1 of 2

Turner Aviation

JetBlue Terminal 5
JFK Airport New York, New York

April 20, 2005
60% CD Reconciled Estimate w/ VE

Assumptions and Clarifications

General

1. This estimate assumes the project is Tax Exempt.
2. This estimate is based on the Owner providing all risk/builder's risk insurance, covering the interests of the Owner, Turner and the subcontractors, this policy will incorporate a waiver of subrogation unless negligence is proven. Costs for deductibles are not included in the GMP.
3. This estimate assumes all Controlled inspections are to be by the Owner. Costs for these inspections are not included in the estimate.
4. The scope of work included in the estimate is based solely on the 60% drawings, VE sketches and the progress drawing for the Airside Civil. The Landside Civil estimate has not been updated. The quantities and pricing reflect the conceptual concept drawings dated September 9, 2004. Any changes from subsequent city or other agency approvals (Port Authority) are not included in the GMP.
5. Allowances as defined in the estimate include all costs associated with a particular item, including furnishing material, delivery, handling, installation costs, bond, insurance and associated subcontractor mark-ups. Turner's General Conditions costs are included in the estimate up to the amount of the allowance. Costs for required work beyond the amount of the allowance shall increase or decrease the estimate by that amount.
6. Deleted
7. This estimate assumes that all filing fees are by the Owner.
8. This estimate assumes that a CCIP/ OCIP program will be used. The costs associated with standard general liability insurance are not covered with the cost included in the estimate and would be an increase to 12.5%.
9. This estimate includes escalation up to the 4th Quarter of 2005.
10. This estimate does not include a payment and performance bond or a Turner Bond. Default insurance is included for subcontractors.
11. This estimate is based on the attached construction schedule, dated March 7, 2005.
12. This estimate does not include any costs for project staff parking and/or shuttle services. Turner assumes the Owner will provide a shuttle service from a designated project parking lot.
13. This estimate does include costs for Tenant Concession stub-ups but have not included costs for fit-out of concession spaces.
14. This estimate does not include the cost of hiring a monitoring consultant to perform pre-construction survey of existing condition or the cost of monitoring all existing buildings during the period of driving piles.
15. This estimate includes an allowance of $42/Ton (per Jet Blue) for contaminated material excavation and disposal.
16. This estimate does not include any T6 expansion cost or impacts.
17. This estimate does not include costs for phasing. This estimate assumes one continuous project.
18. This estimate is based on the attached accepted VE list.
19. This estimate does not include any of the following cost for airside deliveries
    i. Up charges to General Liability Insurance
    ii. Premium for subcontractor inefficiencies
    iii. Escort charges
20. This estimate includes an allowance of $250,000 for SIDA escorts.

Assumptions and Clarifications

21. This estimate includes the cost for the AirTrain based on the straight not the segmented design.

Excavation and Foundations

22. This estimate includes an allowance of $100,000 for local dewatering during construction of the foundations.
23. This estimate includes the specified concrete filled monotube piles 40' deep. The pile lengths are based on the recommendations in the Geotechnical Report dated October 2005 from DMJM/Harris.
24. This estimate has included pile adjustments due to obstruction but has not included the cost for the redesign of pile caps.
25. This estimate includes fusion bonded epoxy for the top 15'-0" of all piles.
26. All cost for PDA's and load test has been included in the building estimate.
27. Temporary heat and cold weather concreting have not been included in this estimate.
28. Controlled inspections for piles are not included in this estimate.

Structural Steel

29. This estimate assumes King Post Truss A is typical for Trusses B-H.
30. This estimate includes WWF for all slabs. Additional reinforcement has been provided over the girders and along the perimeter cantilever.
31. This estimate includes CIP Concrete Piers for the North Flight Connection Tube.
32. This estimate includes allowances for new bearings for the North & South Flight Connection Tubes.

Roofing and Waterproofing

33. This estimate includes a painted aluminum metal roof for the Ticketing Hall roof. All other roofing systems are included as EPDM including the canopies.
34. This estimate does not include roofing under the AHU's.
35. This estimate does not include the sunscreens along the South side departure level.
36. This estimate does not include the aluminum canopy along the service level.
37. This estimate does not include traffic coating.

Exterior Wall

38. This estimate includes exterior masonry with ground face on one side only.
39. This estimate includes various types of aluminum panel for exterior wall. This estimate does not include any zinc panels.
40. This estimate does not include light monitors.
41. This estimate includes motorized fabric roll-up doors.

Interior Partitions & Finishes

42. This estimate assumes the following wall heights –

Assumptions and Clarifications

a. Arrival level – for Offices, Break rooms, Kitchens, Restrooms etc. is an assumed height of partitions 8'-0". -for bag hall, inbound freight, mechanical rooms etc is an assumed height of partitions 15'-0".
b. Departure levels – for Offices, Break rooms, Hold rooms, Restrooms etc. is an assumed height of partitions 9'-0".
c. Customer by-pass, east concourse, shafts rooms etc is an assumed height of partitions 12'-0".

43. This estimate includes 2 piece columns are full height wrapped with aluminum panel.
44. This estimate assumes the carpet finishes with stainless steel base in public spaces, carpet, and concrete sealer, vinyl tile with vinyl base in back of house and ceramic tile with ceramic base in the restrooms.
45. The estimate does include "Panelite" light baffles and perforated painted metal panel lining to clerestory.
46. The estimate includes all doors (interior) as shown in the drawings.
47. The estimate includes all millwork as shown in the drawings. This estimate also includes fire rated millwork for this project.
48. This estimate does not include any metal pan ceiling.
49. This estimate includes a floor finish allowance of $10/sf in the areas labeled T-50, T-51, T-52 and T-55.
50. This estimate includes full height epoxy wall paint in the back of house bathrooms.
51. This estimate does not include epoxy floor paint.

Specialties

52. This estimate assumes that telephone specialties will be provided by the Owner.
53. This estimate includes HDPE toilet partitions in the back of house spaces.
54. This estimate does not include building Marquee signage.

Equipment and Furnishings

55. This estimate includes an allowance of $3,000,000 for FF&E including airport seating.
56. This estimate does not include floor mats and frames.

Baggage Handling Systems (BHS):

57. This estimate includes an inbound and outbound baggage handling system is provided.
    a. The BHS generally includes:
        i. Inbound system: 6 each conveyors runs, plus 1 each oversize conveyor 6 each slope plate carousels, 1 each oversize claim shoot/slide
        ii. Outbound system: Check-in: 4 each manually fed ticket counter take-away belts, 2 each curbside check-in belt, 2 each oversize belt
        iii. Sortation/Make-up: 2 each main high-speed sortation lines, 2 each automatic tag readers, 2 each manual encoding lines and workstations and 10 each flat plate make-up carousels

Assumptions and Clarifications

iv. Screening: Provision is included for 10 each in-line EDS with associated on-screen review and belts feeding ETD screening area. The screening equipment will be provided by TSA.

b. There is no definition of which of the two types of certified EDS is contemplated. The selection of the EDS will impact the BHS design due to the different throat/aperture and throughput specifications of the L3 and CTX equipment. The selection of the EDS equipment could also impact design requirements as some equipment utilizes water, necessitating appropriate storage and disposal facilities. No allowance is included for the supply, installation and commissioning of the EDS or ETD equipment. No allowance is included for any controls, UPS or furniture associated with the EDS or ETD equipment.

Vertical Transportation

58. This estimate is based on using gearless traction elevators. Finishes are as documented and include nickel silver door sills for high wear resistance.
59. This estimate includes escalators are light transit quality that incorporate 3x step loading.

Plumbing

60. This estimate includes battery powered automatic flush valves and faucets
61. This estimate includes tempering valves
62. This estimate includes interior and exterior (freeze proof) emergency eyewash/showers
63. This estimate includes (7) water services - (2) for domestic, (3) for FSP and (2) for sprinkler.
64. This estimate includes exterior hose bibs
65. This estimate includes exterior non-freeze wall hydrants - 1 per 300 foot of bldg perimeter.
66. This estimate includes water hammer arrestors - 1 per 20 fixtures.
67. This estimate includes an allowance of $15,000 for HWAT.
68. This estimate includes an allowance of $12,000 for expansion fittings.
69. This estimate includes five (5) central grease interceptors
70. This estimate includes (14) natural gas valved outlets for the retail areas.
71. This estimate includes an allowance of $25,000 for equipment hook-up at pantries and break rooms.
72. This estimate excludes interior hose bibbs.
73. This estimate excludes trap primers at all floor drains
74. This estimate excludes elevator and escalator sump pumps.
75. This estimate excludes an oil-water separator for the loading dock drainage system.
76. This estimate excludes area and trench drains for the loading dock.
77. This estimate excludes local grease interceptors for the retail areas.
78. This estimate excludes domestic water suction tank or house tank.
79. This estimate excludes Domestic HW heater flue pipes
80. This estimate excludes water booster heaters or local HW heaters for the retail areas.
81. This estimate excludes a solids/sand interceptor.

Assumptions and Clarifications

82. This estimate excludes overflow drains.
83. This estimate excludes symphonic roof drain system.
84. This estimate excludes stainless steel piping.
85. This estimate excludes a natural gas booster system
86. The Terminal estimate excludes any work 5 feet beyond the foundation.
87. This estimate excludes independent (3rd party) commissioning agent.
88. This estimate excludes retail area fit-out.

Fire Protection

89. This estimate includes (2) electric fire pumps and (2) jockey pumps.
90. This estimate includes wet type sprinkler system based on 1 head per 100 square feet.
91. This estimate includes a dry type sprinkler system for the baggage areas based on 1 head per 72 square feet.
92. This estimate includes dry type sprinkler systems for all other areas based on 1 head per 92 square feet.
93. This estimate includes a preaction type sprinkler systems based on 1 head per 92 square feet.
94. This estimate includes deluge type sprinkler systems based on two rows with heads 10' O.C. per linear foot of coverage area.
95. This estimate includes 100 feet of drain piping for each valve assembly.
96. This estimate excludes galvanized piping for all dry, deluge and preaction piping systems.
97. This estimate excludes any storage or house tanks.
98. This estimate excludes any other specialty sprinkler system - Halon, FM-200, etc.
99. This terminal estimate excludes any work 5 feet beyond the foundation.
100. This estimate excludes independent (3rd party) commissioning agent.
101. This estimate excludes retail area fit-out.

HVAC

102. This estimate includes solenoid valves tied into the BMS system for the fintube radiation.
103. This estimate includes HW unit heaters for the loading dock.
104. This estimate includes (50) hot water valved outlets for the retail areas.
105. This estimate includes (50) chilled water valved outlets for the retail areas.
106. This estimate includes air flow measuring stations and motorized dampers for each duct mounted reheat coil.
107. This estimate includes a sound trap on the supply and return ductwork for each air handling unit.
108. This estimate does not include fire dampers at each ductwork roof penetration greater than 20' AFF.
109. This estimate includes fire smoke dampers for each duct penetrating the floor between the arrivals and departure levels.
110. This estimate includes an electric unit heater for each dual air handling unit vestibule.
111. This estimate includes heating & ventilating units in lieu of fans only for those systems that provide 100% outdoor air to main MER.
112. This estimate includes louvers that are associated with the mechanical systems.

Assumptions and Clarifications

113. This estimate includes split system AC units to serve the control center.
114. This estimate includes a split system AC unit to serve the control center's UPS room.
115. This estimate includes split system AC units to serve (4) elevator machine rooms.
116. This estimate includes (8) electrical closet and (6) copy room transfer fans.
117. This estimate includes back draft dampers and fire smoke dampers for each exhaust system and H&V system with louvers.
118. This estimate includes (48) man coolers in the baggage areas.
119. This estimate includes the installation of the generator exhaust flue and muffler only. (furnished by the electrical contractor).
120. This estimate includes control devices for the AHU's provided by and field installed by the ATC contractor.
121. This estimate includes an allowance for the quantity of ATC control points.
122. This estimate includes hot water coils in the VAV terminal units.
123. This estimate excludes a rack in the air handling units for carbon filtration media.
124. This estimate excludes HW cabinet unit heaters for exterior stairs.
125. This estimate excludes retail tenant energy meters -(hot & chilled water)
126. This estimate excludes hot or chilled water treatment systems.
127. This estimate excludes hot or chilled water filtration systems.
128. This estimate excludes energy recovery systems (air-to-air and run around coil systems)
129. This estimate excludes carbon filtration media.
130. This estimate excludes main chilled water heat exchanger.
131. This estimate excludes radiant floor conditioning systems.
132. This estimate excludes snow melting systems.
133. This estimate excludes stainless steel piping.
134. This estimate excludes HW pre-heating coils.
135. This estimate excludes humidification in all of the air handling units.
136. This estimate excludes dishwasher exhaust.
137. This estimate excludes stair pressurization.
138. This estimate excludes retail (concession) area exhaust
139. This estimate excludes fuel oil storage or distribution systems.
140. This terminal estimate excludes any work 5 feet beyond the foundation.
141. This estimate excludes independent (3rd party) commissioning agent.
142. This estimate excludes retail area fit-out.

Electrical

143.
144. This estimate assumes the new electrical manholes and the new 5KV electrical cable feeders are provided by Sitework.
145. This estimate assumes the high voltage work on the line side 5KVswitches at each of the three spot networks is provided by Sitework.
146. This estimates includes the Emergency Power Distribution including two 1000kW and one 750kW, 480/277V, 4-wire diesel driven generators with outdoor enclosures located at the stairwells by each Substation
147. This estimate does not include feeders from the Emergency ATS-South (1200' from Main Switchgear Room) and Emergency ATS-East (1300' from Main

Assumptions and Clarifications

Switchgear Room) as noted on Emergency Power Single Line Diagram, Drawing E03.04 Note #3.

148. This estimate includes the Line Side Feeder Type to 1000KV Transformers of 5 sets of 3#500KCMIC + 1#4/0G in 4"C,.
149. This estimate includes all transformers priced with K-4 rating
150. This estimate includes Transient Voltage Suppression for the Main Switchgear N-1, N-2, S-1, S-2, E-1, and E-2.
151. This estimate assumes exit lights per 1000 SF.
152. This estimate assumes Air Handling Unit lighting is with the AHU manufacturer.
153. This estimate includes an allowance of $10.00/SF for lighting not shown on the departure level and $5/sf on the arrival level.
154. This estimate includes cost savings of $1,000,000 to provide standard lighting fixtures in lieu of custom.
155. This estimate includes provisions for mock-ups & samples for lighting fixtures as described in Lighting Fixtures Schedule in Specification Section 16512.
156. This estimate includes Retail Area Lighting (bare minimum), including 110V circuit.
157. This estimate does not include any provisions for a dimming system either by local switches or a central system.
158. This estimate includes a $1.00/SF Allowance for the lighting control system including lighting contactors, occupancy sensors, photoelectric cells, low voltage raceway and control wire.
159. This estimate includes wall duplex receptacles [1/250 SF], ground fault receptacles [1/500 SF] & Floor Duplex Receptacles [1/15000 SF].
160. This estimate includes operations power for the jetway bridge areas and assumes conduit & wiring includes for two feeder from each gateway to respective substation.
161. This estimate includes a 100V circuit for 50 Retail Tenant Areas for HVAC meters.
162. This estimate does not include equipment connections for stair pressurization fans.
163. This estimate includes allowances for equipment connections for the pantry appliances, as per Specification section 11451 and a trash compactor.
164. This estimate includes line side power wiring for the PDP Panels described on Drawing E00.35. The PDP Panels and all load side wiring is by Baggage Handling System manufacturer.
165. This estimate includes power connections for TSA Equipment, including X-rays & Manometers.
166. This estimate includes power connections for terminal signage as described on Architectural Drawing A14.1.1.
167. This estimate assumes that the Jet Blue/Security VLAN is by Owner.
168. This estimate does not include an A/V system.
169. This estimate does not include a clock system.
170. This estimate does not include wireless access points.
171. This estimate assumes the incoming copper or fiber services from the telecommunications manholes to the Main Communications Room, as indicated on Drawing T01.03 is by Verizon.
172. This estimate does not include the (1) 800 pair building entrance protector. We assume this to be furnished and installed by Verizon.

Assumptions and Clarifications

173. This estimate assumes that the Copper Cable Cross Connects in the Main Communications Room are (25) 4-pair Category 5E cables.
174. This estimate assumes all horizontal cabling is to be supported with J-hooks.
175. This estimate includes an allowance for duct smoke detectors not shown on drawings.
176. This estimate assumes that the FATC panels shown on the Fire Alarm Floor Plans are the same as the DGP's indicated on the Fire Alarm Riser Diagram.
177. This estimate includes the interface panel for Fire Alarm Control Panel and Fire Command Center.
178. This estimate includes an allowance for the card access system as there is no scope defined on the security floor plans.
179. This estimate includes pricing for the individual workstations shown on Security Drawing Z03.02.
180. This estimate includes all programming, testing, engineering & training for the fully integrated security system.
181. This estimate does not include any work in TSA Areas as identified on security drawings.
182. This estimate includes maintenance for the one year, and does not include the three and five-year options as discussed in Security General Requirements Specification Section 13700 page 17.
183. This estimate includes an allowance for an 10 kVa UPS System as per Telecommunications Room.
184. This estimate includes 80kva UPS System for the Main Communications Room.
185. This estimate does not include any UPS for baggage handling or TSA equipment.
186. This estimate includes all work associated with the Information Systems (FIDS/BIDS/GIDS) as shown on the telecommunication drawings.
187. This estimate includes an allowance of $7.50/SF associated with the Information Systems (FIDS/BIDS/GIDS) system and assumes that the infrastructure is included with the telecommunication system.
188. This estimate includes an allowance for 130 GIDS (5 per gate).
189. This estimate assumes the patch cords are furnished & installed by the Owner
190. This estimate does not include 18 pair Multimode Cable.
191. This estimate includes Cat 5e cabling only.
192. This estimate includes an ESE Lightning Protection System.
193. This estimate includes a $2.00/SF allowance for Temporary Light & Power. This estimate does not include any cost associated with bringing temporary electrical service to the job site.
194. This estimate includes 36 months of power consumption.
195. This estimate does not include a power monitoring and control system.
196. This estimate includes for a complete retail metering system as shown on Drawing E03.09.
197. This estimate includes a $50,000 Allowance for the Specification Section 16072 Supports and Seismic Restraints.
198. This estimate includes an allowance of $125,000 for the Short Circuit Coordination Study as identified in Specification Section 16055.
199. This estimate includes a $100,000 allowance for installation of Heat Trace (Furnished by HVAC/Plumbing).
200. This estimate includes an allowance for HWATT (Furnished by Plumbing).

Assumptions and Clarifications

201. This estimate includes the expansion join requirement on Drawing E00.02 Note #14.
202. This estimate does not include any work associated with a snow melting system.
203. This estimate includes conduit embedded in and below the slab as allowed for on the drawings.
204. This estimate assumes any relocations or demolition in this proposal are with Sitework.
205. This estimate assumes any Excavation and Backfill for In slab Conduit work is with Foundations.
206. This estimate assumes EMT conduit for Fire Alarm Systems.
207. This estimate includes structured cabling raceway for security system and telecommunications/PA/ Information Systems.

Site Work

208. This estimate utilizes the crushing of concrete for backfilling of the basement. This estimate assumes that the crushed concrete will meet the backfill specifications.
209. This estimate does not include the cost associated with the hiring Allied and draining and disposing of the existing hydrant fueling system.
210. This estimate has included only slurry fill for the existing piping that remains abandoned in place.
211. This estimate includes only the new utilities as shown on the documents.
212. This estimate assumes that that all existing utilities locations are accurate as shown on the drawings.
213. This estimate includes an allowance of $400,000 for dewatering during the basement slab demolition
214. This estimate includes PCC pavement for aircraft parking only. All other pavement is asphalt.
215. This estimate does not include the departure roadway stub for Phase 2.
216. The estimate does not include the cost to supply hydrant fuel to be used to flush & test the system.
217. Permanent power is not available to the deicing area until the completion of the project. This estimate does not include any cost associated with supplying infrastructure or consumption for temporary power for the deicing area.
218. It is assumed that temporary water and electricity for the site utility work would be obtained from the existing utility services.
219. This estimate does not include asbestos abatement for the utilities removals except for the hydrant fuel line.

Assumptions and Clarifications

Demolition & Abatement

220. Lead paint removal is limited to the structural steel cut off point only.
221. The estimate includes an abatement allowance of $500,000.00 for items not shown from the building.
222. This estimate does not include the removal of abandoned electric duct bank that are not identified on the drawings.
223. Mercury and PCB containing material removals are included for electric transformers only.
224. It is assumed that temporary water and electricity for the demolition work would be obtained from the existing utility services.

Turner Aviation

JetBlue Terminal 5
JFK Airport New York, New York
60% CD Estimate
April 20, 2005

EXECUTIVE SUMMARY

Building System	Area	Unit Cost	Estimate Total
	sf	$/sf	$
TERMINAL / AIRSIDE			
Terminal and Concourse Building	639,470	315.82	$201,955,160
Fixed Bridges	18,635	523.18	$9,749,400
Airside Civil	N/A		$60,621,500
Equipment	658,105	69.75	$45,905,000
Total Terminal / Airside	658,105	483.56	$318,231,060
LANDSIDE			
Landside Civil	N/A		$35,228,000
Air Train Connector	23,225	755.59	$17,548,500
Flight Tubes	8,830	489.80	$4,324,920
Total Landside			$57,101,420
TOTAL DIRECT COST			**$375,332,000**
Design Contingency	3.0%		$11,260,000
Construction Contingency	3.0%		$11,598,000
Escalation	3.0%		$11,946,000
Subtotal			$410,136,000
General Liability	0.85%		$3,486,000
General Conditions			$39,135,000
Fee			$9,000,000
Preconstruction Fee			Not Included
TOTAL CONSTRUCTION COST			**$461,757,000**

Turner Aviation

JetBlue Terminal 5
JFK Airport New York, New York
60% CD Estimate
April 20, 2005
Estimate Summary

	23,225 SF	690,160 SF		
Building System	Air Train Connector	Estimate Total $	$/SF	% of Total
Excavations And Foundations	1,278,000	$23,437,000	$33.23	6.9%
Structural Frame	5,551,500	$32,323,500	$40.14	8.3%
Roofing And Waterproofing	392,000	$8,612,000	$12.33	2.5%
Exterior Wall	4,491,000	$24,072,000	$29.36	6.1%
Interior Partitions & Finishes	534,000	$28,207,000	$41.49	8.6%
Vertical Transportation	2,010,000	$5,117,000	$4.66	1.0%
Specialities	0	$2,870,000	$4.30	0.9%
Equipment & Furnishings	0	$3,376,000	$5.06	1.0%
Baggage Handling System	0	$29,915,000	$44.85	9.3%
Special Construction	0	$15,990,000	$23.98	5.0%
Plumbing	178,000	$6,625,000	$9.67	2.0%
Fire Protection	130,000	$6,066,000	$8.90	1.8%
H.V.A.C.	1,680,000	$35,183,000	$50.23	10.4%
Electrical	1,304,000	$50,778,000	$74.18	15.3%
Demolition	0	$12,240,000	$16.16	3.3%
Site Work	0	$46,579,000	$31.58	6.5%
Site Utilities	0	$25,522,000	$25.90	5.4%
Fueling Systems	0	$18,420,000	$27.62	5.7%
TOTAL DIRECT COST	17,548,500	$375,332,500	$483.64	100%

Exclusions:
The foregoing estimated costs are direct trade costs and ex
Contingencies
General Conditions
General Requirements
Insurance & Bonds
CM Fee

Terminal/Concourse Building — Building Area: 639,470 GSF

	Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
	1	**EXCAVATIONS AND FOUNDATIONS**						
	2							
	3	**Site Preparation**						
	4							
	5	Break up existing 12" concrete pavement				w/ Airside Civil		
	6	Load and dispose broken concrete				w/ Airside Civil		
	7							
	8	**Subtotal: Site Preparation**					$0	
	9							
	10	**Earthwork**						
	11	Mobilize	1	LS	35,000.00	$35,000		
	12	Excavation						
	13	Pile caps						
V A87/A96C/A91/E164			11,498	CY	40.00	$460,000		
V A87/A91	14	Trenching for grade beams	6,348	CY	40.00	$254,000		
	15	Elevator/escalator pits	403	CY	40.00	$16,000		
	16	Sump pits	228	CY	40.00	$9,000		
	17	Underslab utilities	1,848	CY	40.00	$74,000		
	18	General backfill						
V A87/A96C/A91/E164			12,912	CY	20.00	$258,000		
	19	Dewatering (local)	1	LS	100,000.00	$100,000		
	20	Grading	10,741	CY	15.00	$161,000		
	21	Line & grade surveys	1	LS	30,000.00	$30,000		
S EF1	22	Contaminated Soil Disposal Premiums	9,507	Tons	26.50	$252,000		
	23	Teamster	12	MO	15,014.00	$180,000		
	24	Master Mechanic	12	MO	23,286.00	$279,000		
	25	Maintenance Engineer	12	MO	17,618.00	$211,000		
	26							
	27	**Subtotal: Earthwork**					$2,319,000	
	28							
	29	**Piles**						
	30	Production Monotube piles - 8"x14"						
V A87/A96C/A91/E164			68,520	LF	44.00	$3,015,000		
	31	Concrete for piles						
V A87/A96C/A91/E164			2,057	CY	400.00	$823,000		
	32	Reinforcing steel piles						
V A87/A96C/A91/E164			90	TON	3,000.00	$270,000		
	33	Removal of underground obstructions				Included		
	34	Removal of damaged piles due obstructions				Not Included		
	35	Fusion bonded epoxy coating, upper 15'-0"				Included		
	36	Load Test - Compression	6	EA	25,000.00	$150,000		
	37	Load Test - Tension	2	EA	10,000.00	$20,000		

Terminal/Concourse Building — Building Area: 639,470 GSF

		Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
		38	Load Test - Laterial	2	EA	10,000.00	$20,000		
		39	Pile Dynamic Analysis (PDA)	40	EA	8,000.00	$320,000		
		40							
		41	**Subtotal: Piles**					$4,618,000	
		42							
		43	**Foundations**						
V	A87/A96C/ A91/E164	44	Concrete for pile caps	3,909	CY	400.00	$1,564,000		
V	A87/A96C/ A91/E164	45	Reinforcing steel for pile caps	109	TON	3,000.00	$327,000		
		46	Concrete slab & walls for elevator/escalator pits	10	EA	25,000.00	$250,000		
		47	Concrete slab & walls for sump pits	8	EA	12,000.00	$96,000		
		48	Reinforcing steel for pits				W/ABOVE		
V	A87/A91/E 164	49	Concrete for grade beams	1,521	CY	550.00	$837,000		
V	A87/A91/E 164	50	Reinforcing steel for grade beams	136	TON	3,000.00	$408,000		
		51	Concrete for 12" wall	41	CY	800.00	$33,000		
		52	Reinforcing for 12" wall	3	TON	3,000.00	$9,000		
		53	Crane/hoist pads				Not Required		
		54	Winter concreting				Not Included		
		55	Foundation drainage system				Not Included		
		56	Rigid insulation at perimeter				Not Required		
		57							
		58	**Subtotal: Foundations**					$3,524,000	
		59							
		60	**Slab-On-Grade**						
V	EF179/A87	61	Concrete for 10" S.O.G.	5,667	CY	600.00	$3,400,000		
V	EF179/A87	62	Reinforcing steel 10" S.O.G.	351	TON	3,000.00	$1,053,000		
V	A91/E164	63	Concrete for 12" S.O.G.	2,987	CY	600.00	$1,792,000		
V	A91/E164	64	Reinforcing steel 12" S.O.G.	191	TON	3,000.00	$573,000		
		65	Concrete for 24" S.O.G.	502	CY	600.00	$301,000		
		66	Reinforcing steel 24" S.O.G.	29	TON	3,000.00	$87,000		
		67	Moisture barrier	287,852	SF	1.75	$504,000		
S/V	EF2/EF17 9		Concrete curb and island				Not Required		
S/V	EF2/EF17 9		Reinforcing steel for curb and island				Not Required		
		68							
		69	**Subtotal: Slab-On-Grade**					$7,710,000	

Terminal/Concourse Building

Building Area: 639,470 GSF

		Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
		70							
		71	**Waterproofing**						
		72							
		73	Waterproofing to foundation wall				Not Included		
		74	Waterproofing to slab on grade				Not Included		
		75	Waterproofing to elevator/escalator pits	10	EA	5,000.00	$50,000		
		76	Waterproofing to sump pits	8	EA	3,500.00	$28,000		
		77							
		78	**Subtotal: Waterproofing**					$78,000	
		79							
		80	**EXCAVATIONS AND FOUNDATIONS**						$18,249,000
		81							
		82	**STRUCTURAL FRAME**						
		83							
		84	**Concrete Fill on Deck**						
		85							
		86	Concrete fill on metal deck at Arrivals Level - Assume 5 1/2" slab				w/ Foundations		
		87	Reinforcing Steel				w/ Foundations		
S/V	S6/A87/A91	88	Light Weight Concrete fill on metal deck at Departures Level - Assume 5 1/2" slab	4,874	CY	520.00	$2,534,000		
	1	89	Reinforcing Steel - Assume WWF	287,635	SF	0.85	$244,000		
S	S9		Slab Rebar at Cantilever Slab Areas (#3 @ 9", L=9')	4	TONS	4,000.00	$15,000		
S	S9		Slab Rebar at Girder Locations (#3 @ 9", L=3')	5	TONS	4,000.00	$18,000		
		90	Concrete column casing (tug lanes)	243	CY	1,100.00	$267,000		
S	S5	91	Concrete Miscellaneous Equipment Pads	1	ALLOW	100,000.00	$100,000		
S	S5	92	Electrical Equipment Pads	60	CY	900.00	$54,000		
S	S5		Mechanical Equipment Pads	10	CY	900.00	$9,000		
		93	**Subtotal: Concrete Fill on Deck**					$3,241,000	
		94							
		95	**Structural Pre-Cast Concrete**						
		96							
		97	Stuctural Pre-Cast Elevator Shaft Walls - 8"	1,935	SF	30.00	$58,000		
		98	Reinforcing Steel				Included		
		99	Stuctural Pre-Cast Elevator Shaft Walls - 10"	14,500	SF	30.00	$435,000		
		100	Reinforcing Steel				Included		
		101							
		102	**Subtotal: Structural Pre-Cast Concrete**					$493,000	
		103							
		104	**Metal Deck & Studs**						
		105							
V	A87/A91	106	Departure Level	287,635	SF	3.50	$1,007,000		
V	A87	107	Metal roof deck	314,815	SF	3.50	$1,102,000		

Terminal/Concourse Building

Building Area: 639,470 GSF

		Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
V	A97B	108	Metal roof deck - Departure Canopy 7 1/2" Longspan deck	11,050	SF	8.00	$88,000		
V	A96C	109	Change Metal Roof Deck from 3" to 7 1/2"- Arrivals Canopy	12,440	SF	8.00	$100,000		
S	A10		Paint to the Underside of the Canopy Metal Deck	23,490	SF	5.00	$117,000		
		110	**Subtotal: Metal Deck & Studs**					$2,414,000	
		111							
		112	**Steel Superstructure**						
		113							
		114	*Arrivals Level*						
		115	Structural steel framing - girders				None Shown		
		116	Structural steel framing - columns	450	TNS	4,000.00	$1,800,000		
		117	Structural steel framing connections (10%)	45	TNS	4,000.00	$180,000		
		118							
		119	*Departures Level*						
V	A87/A213	120	Structural steel framing - girders	1,452	TNS	4,000.00	$5,808,000		
		121	Structural steel framing - columns	290	TNS	4,000.00	$1,160,000		
		122	Structural steel framing - ramp control tower	35	TNS	4,000.00	$140,000		
		123	Structural steel framing - penthouse	10	TNS	4,000.00	$40,000		
		124	Structural steel framing - roadway	25	TNS	4,000.00	$100,000		
		125	Structural steel framing connections (10%)	178	TNS	4,000.00	$712,000		
		126	4019						
		127	*Roof Level*						
	A215/A110	128	Structural steel framing - girders, tubes & angles						
V	B/A213			371	TNS	4,000.00	$1,484,000		
		129	Structural steel framing - trusses	180	TNS	4,000.00	$720,000		
		130	Structural steel framing - king post trusses	75	TNS	4,000.00	$300,000		
		131	Structural steel framing - joists	250	TNS	4,000.00	$1,000,000		
V	A110B	132	Structural steel framing - special joists	447	TNS	4,000.00	$1,788,000		
		133	Structural steel framing - ramp control tower				Inculded		
		134	Structural steel framing - penthouse				Inculded		
		135	Structural steel framing connections (10%)	132	TNS	4,000.00	$528,000		
		136							
		137	*Canopies*						
V	A96C	138	Structural steel framing - arivals canopy	32	TNS	4,000.00	$128,000		
V	A97B	139	Structural steel framing - departures canopy	47	TNS	4,000.00	$188,000		
		140	Painting on structural steel - canopies	79	TNS	200.00	15,800		
V	A96C	141	Premium for AESS	199	TONS	300.00	$60,000		
		142							
		143	**Subtotal: Steel Superstructure**					$16,151,800	
		144							
		145	**Spray On Fireproofing**						
		146							
		147	Spray Fireproofing on structural steel - departures level	274,000	SFCA	2.40	$658,000		

Terminal/Concourse Building

Building Area: 639,470 GSF

		Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
		148	Spray Fireproofing on structural steel - roof level	160,200	SFCA	5.00	$801,000		
		149	Spray Fireproofing on structural steel - columns	79,000	SFCA	2.40	$190,000		
		150	Spray Fireproofing on canopy steel				Not Required		
		151	Spray Fireproofing on metal roof deck	314,815	SFCA	1.00	$315,000		
		152							
		153	**Subtotal: Spray On Fireproofing**						
		154						$1,964,000	
			Expansion Joints						
S	S7		General						
S	S7		Fixed Bridge	1,700	LF	150.00	$255,000		
				120	LF	150.00	$18,000		
			Subtotal: Expansion Joints						
		155						$273,000	
		156	**STRUCTURAL FRAME**						
		157							**$24,536,800**
		158	**ROOFING AND WATERPROOFING**						
		159							
		160	**Rough Carpentry**						
		161							
		162	Rough Carpentry per Total GSF of Roof	274,940	SF	1.50	$412,000		
		163							
		164	**Subtotal: Rough Carpentry**						
		165						$412,000	
		166	**Roof**						
		167							
		168	EPDM Roofing Assembly (Area Under the AHU's is Not Included)						
	A10/A87/A								
S/V	110B/A91								
		169	EPDM Sloped roofing and 1/2" P.F. Insulation	200,885	SF	13.00	$2,612,000		
S/V	A10/A110B								
	A92A/A109	170	Ptd Aluminum Metal Roof and Insulation @ Ticketing Hall Roof	0			Not Required		
V	A								
		171	Roof pavers - Rubber	74,055	SF	34.00	$2,518,000		
		172	Flashing and lining @ Parapet	21,960	SF	8.00	$176,000		
		173	Closed Cell Rod	4,378	LF	40.00	$175,000		
		174	Flashing @ AHU's				Included		
		175	Flashing @ Roof Penetrations	7,200	LF	$35.00	$252,000		
		176	Flashing @ Roof Drains	77	EA	$300.00	$23,000		
		177	Roof Accessories - Other	71	EA	$500.00	$36,000		
		178	Gutter	1	LS	$50,000.00	$50,000		
V	A87	179	Coping/Parapert Cap	95	LF	10.00	$1,000		
				4,304	LF	75.00	$323,000		

Terminal/Concourse Building — **Building Area:** 639,470 GSF

		Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
		180	Expansion Joints	495	LF	150.00	$74,000		
		181	Additional flashing around Retail Penetrations				Not Included		
		182	**Subtotal: Roof**					$6,240,000	
		183							
		184	**Skylights**						
		185							
		186	Aluminum framed glass skylight				w/ Exterior Wall		
		187							
		188	**Subtotal: Skylights**					$0	
		189							
		190	**Canopy**						
		191							
S/V	A10/A97B	192	Departure - EPDM roofing, Gyp and insulation	11,050	SF	18.00	$199,000		
V	A97B	193	Departure Nose- Painted Aluminum Channel	1,300	SF	40.00	$52,000		
S	A10		Metal soffit with subframing	5,200	SF	45.00	$234,000		
S	A10		Grill @Soffit	2,640	SF	45.00	$119,000		
S	A11	194	Alluminum Panel @ Underside of Canopy - Type M-7				Not Required		
		195	Gutters	690	LF	10.00	$7,000		
		196							
V	A96C	197	Arrival - EPDM Roofing, Drainage Mat, Waterproofing, & Gyp	12,440	SF	18.00	$224,000		
V	A97B	198	Arrival Nose - Painted Aluminum Channel	860	SF	40.00	$34,000		
		199	Alluminum Panel @ Underside of Canopy - Type M-7				Not Required		
		200	Aluminum Panel in Arrival canopy	1,840	SF	50.00	$92,000		
		201	Gutters	430	LF	10.00	$4,000		
		202							
V	100	203	Canopy @ Aluminum Panel				Not Included		
V	99	204	Sunscreen @ Windows South Side Only				Not Included		
		205							
		206	**Subtotal: Canopy**					$965,000	
		207							
		208	**Waterproofing**						
		209							
		210	Traffic Coating				Not Included		
		211							
		212	**Subtotal: Waterproofing**					$0	
		213							
		214							
		215	**ROOFING AND WATERPROOFING**						$7,617,000
		216							
		217	**EXTERIOR WALL**						
		218							
		219	**Walls**	208,621	SFCA				

Terminal/Concourse Building

Building Area: 639,470 GSF

		Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
		220							
		221	*Apron Level- Arrivals*						
S/V	A13/A87	222	Ground faced CMU with waterproofing additive; single color; 8"w x 4" high blc	26,395	SF	26.00	$686,000		
S	A13	223	M-3 Batten Seam Roof System	13,168	SF	47.00	$619,000		
S	A13	224	Exterior GWB sheathing; 5/8" thick; incl. stud framing and ice/water shield				Included		
S	A13	225	Rigid insulation board; 2" thick				Included		
S	A13	226	M-7 Flat Aluminum panel	14,657	SF	55.00	$806,000		
S	A13	227	Exterior GWB sheathing; 5/8" thick; incl. stud framing and ice/water shield				Included		
S	A13	228	Rigid insulation board; 2" thick				Included		
S	A13	229	M-7 Flat Aluminum panel (Interior)	3,032	SF	45.00	$136,000		
S	A13	230	Exterior GWB sheathing; 5/8" thick; incl. stud framing and ice/water shield				Included		
S	A13	231	Rigid insulation board; 2" thick	3,032			Not Included		
		232	Continuous aluminum louver; 3' 0" high	1,595	SF	85.00	$136,000		
S	A13	233	Interior Soffit Band	1,463	SF	43.00	63,000		
		234	*Concourse Level- Departures*						
S/V	A13/A101/ A87	235	M-1 Aluminum Corrugated Panels	58,348	SF	55.00	$3,209,000		
S/V	A13/A101/ A87	236	Exterior GWB sheathing; 5/8" thick; incl. stud framing and ice/water shield				Included		
S/V	A13/A101/ A87	237	Rigid insulation board; 2" thick				Included		
S	A13	238	M-3 Batten Seam Roof System	532	SF	65.00	$35,000		
S	A13	239	Exterior GWB sheathing; 5/8" thick; incl. stud framing and ice/water shield				Included		
S	A13	240	Rigid insulation board; 2" thick				Included		
S	A13		Nosing @ Ticketing Hall Roof				Included		
S/V	A13/A101/ A109A		M-4 Zinc Composite Metal Panel						
S/V	A13/A101/ A109A		Exterior GWB sheathing; 5/8" thick; incl. stud framing and ice/water shield				Not Included		
S/V	A13/A101/ A109A		Rigid insulation board; 2" thick				Not Included		
S/V	A13/A101	241	M-4 Aluminum Composite Metal Panel	200	SF	60.00	$12,000		
S/V	A13/A101	242	Exterior GWB sheathing; 5/8" thick; incl. stud framing and ice/water shield				Included		
S/V	A13/A101	243	Rigid insulation board; 2" thick				Included		
S/V	A13/A108B /A215/A11 0B	244	M-5 12" Wide Interlocking Alum. Panels Flat	15,668	SF	55.00	$862,000		
S/V	A13/A108B	245	Exterior GWB sheathing; 5/8" thick; incl. stud framing and ice/water shield				Included		
S/V	A13/A108B	246	Rigid insulation board; 2" thick				Included		
S/V	A13/A87	247	M-7 Flat Aluminum panel	6,210	SF	55.00	$342,000		

Terminal/Concourse Building Building Area: 639,470 GSF

		Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
S/V	A13/A87	248	Exterior GWB sheathing; 5/8" thick; incl. stud framing and ice/water shield				Included		
S/V	A13/A87	249	Rigid insulation board; 2" thick				Included		
S	A13	250	M-7 Flat Aluminum panel (Interior)	1,603	SF	45.00	$72,000		
S	A13	251	Exterior GWB sheathing; 5/8" thick; incl. stud framing and ice/water shield				Included		
S	A13	252	Rigid insulation board; 2" thick				Not Included		
		253						$6,978,000	
		254	**Subtotal: Walls**						
		255							
		256	**Windows**						
		257	*Apron Level- Arrivals*						
		258	Aluminum Framed Storefront	3,169	SF	100.00	$317,000		
		259	*Alum. Storefront doors*	20	EA	3,000.00	$60,000		
		260	Strip Window	20	SF	100.00	$2,000		
		261	*Concourse Level- Departures*						
		262	Aluminum Framed Storefront	9,384	SF	100.00	$938,000		
		263	Alum. Storefront doors	21	EA	3,000.00	$63,000		
	A109A/A21	264	Aluminum Framed Strip Window						
V	5/A110B			21,727	SF	100.00	$2,173,000		
V	A108B	265	Aluminum Framed Curtain Wall	4,584	SF	110.00	$504,000		
		266	Premium For Fritted Glass	3,566	SF	5.00	$18,000		
		267							
		268	**Subtotal: Windows**					$4,075,000	
		269							
		270	**Exterior Doors and Vestibules**						
		271	*Apron Level- Arrivals*						
		272	Change to Fabric Doors ILO Motorized Roll-Up Doors						
V	A111/A112			6,590	SF	60.00	$395,000		
		273	HM Doors	27	EA	1,000.00	$27,000		
		274	Motorized Revolving Doors (14'-0" wide)	5	EA	175,000.00	$875,000		
		275	Motorized Sliding Glass Door				Not Included		
		276	*Concourse Level- Departures*						
		277	Aluminum Frame Glass Doors	16	EA	3,000.00	$48,000		
V	A216	277	Aluminum Frame Glass Doors Pair	2	EA	4,000.00	$8,000		
		278	HM Doors	27	EA	1,000.00	$27,000		
		279	Gate Doors	40	EA	1,200.00	$48,000		
		280	Motorized Revolving Doors (14'-0" wide)	9	EA	175,000.00	$1,575,000		
		281	Motorized Sliding Glass Door				Not Included		
S/V	A14/A216	282	Motorized Glass Sliding Doors				Not Included		
		283	**Subtotal: Exterior Doors and Vestibules**					$3,003,000	
		284							
		285	**Misc. Iron**						

Terminal/Concourse Building Building Area: 639,470 GSF

		Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
S	A13	286	Misc. Iron Supports	208,621	SFCA	4.00	$834,000		
		287	Railings at departure level	80	LF	150.00	$12,000		
		288							
		289	**Subtotal: Misc. Iron**					$846,000	
		290							
		291	**Sealants**						
		292	Exterior wall sealants	208,621	SFCA	0.75	$156,000		
		293							
		294	**Subtotal: Sealants**					$156,000	
		295							
		296	**EXTERIOR WALL**						**$15,058,000**
		297							
		298	**INTERIOR PARTITIONS & FINISHES**						
		299							
		300	*Arrival/Apron Level*						
S	A16	301	Cover Columns	6,930	SF	10.00	$69,000		
V	A108B/A87 /A91	302	Metal Stud and GWB partition	83,863	SF	12.00	$1,006,000		
	A87/A91	303	Metal stud and GWB partition; 1HR Rated	5,952	SF	14.00	$83,000		
V	A87	304	Metal stud and GWB partition; 2HR Rated	88,428	SF	18.00	$1,592,000		
V	A87/A91	305	Shaftwall	12,196	SF	20.00	$244,000		
S	A16	306	Panelite system-st.steel trims bars at top&bottom	4,000	SF	50.00	$200,000		
		307	Soffit	4,632	SF	12.00	$56,000		
S/V	A16/A117	308	Aluminium Column Cover - 2 Piece	31	EA	10,000.00	$310,000		
S	A16		Columns - Exposed	149	EA				
		309	Total	212,309					
		310							
		311	*Departures/Boarding Level*						
S	A16		Cover Columns	2,952	SF	10.00	$30,000		
		312	GWB wall	3,654	SF	10.00	$37,000		
		313	Metal Stud and GWB partition	47,673	SF	12.00	$572,000		
		314	Metal stud and GWB partition; 1HR Rated	1,404	SF	14.00	$20,000		
		315	Metal stud and GWB partition; 2HR Rated	38,532	SF	18.00	$694,000		
		316	Shaftwall	14,409	SF	20.00	$288,000		
S	A16	317	Panelite system-st.steel trims bars at top&bottom	4,802	SF	50.00	$240,000		
		318	Soffit	21,231	SF	12.00	$255,000		
S/V	A16/A117	319	Aluminium Column Cover	68	EA	10,000.00	$680,000		
S	A16	320	Columns - Exposed	74	EA				
S	A16		Demising Partitions @ Retail Openings	5,335	SF	5.00	$27,000		
		321	Total	135,102					
		322	Safety barriers and barricades	1	LS	150,000.00	$150,000		

Terminal/Concourse Building Building Area: 639,470 GSF

	Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
	323	OSHA protection	639,470	SF	0.50	$320,000		
	324	Protection of finished work	639,470	SF	0.50	$320,000		
	325	Temporary SIDA escorts	1	LS	250,000.00	$250,000		
S	A15 326	DELETED						
	327	Final cleaning	639,470	SF	0.50	$320,000		
	328							
	329	**Subtotal: Partitions**					$7,763,000	
	330							
	331	**Interior Stairs**						
	332							
	333	**Monumental Stairs**						
	334	**Stair #2**						
	335	Metal pan and concrete fill stair	112	LFR	150.00	$17,000		
	336	Glass Handrail	80	LF	600.00	$48,000		
	337	Terrazzo Treads/Landings	266	SF	25.00	$7,000		
	338							
	339	**Stair #4**						
	340	Metal pan and concrete fill stair	264	LFR	150.00	$40,000		
	341	Glass Handrail	106	LF	600.00	$64,000		
	342	Terrazzo Treads/Landings	315	SF	25.00	$8,000		
	343							
	344	**Stair #6**						
	345	Metal pan and concrete fill stair	220	LFR	150.00	$33,000		
	346	Glass Handrail	240	LF	600.00	$144,000		
	347	Terrazzo Treads/Landings	327	SF	25.00	$8,000		
	348							
	349	Metal pan and concrete fill stair	640	LFR	150.00	$96,000		
	350	Steel pipe handrails - 1-1/2" diameter (Stair #3)	270	LF	100.00	$27,000		
	351	Steel pipe balustrades - 1-1/2" diameter (Stair #3)	1,425	LF	150.00	$214,000		
	352							
	353	**Subtotal: Interior Stairs**					$706,000	
	354							
	355	**Doors, Frames & Hardware**						
	356							
	357	*Arrival/Apron Level*						
V	A111 358	Single HM door and frame	173	EA	1,800.00	$311,000		
	359	Pair HM doors and frame	7	EA	3,800.00	$27,000		
	360	Single HM door and frame; 1hr fire-rated	11	EA	2,600.00	$29,000		
	361	Pair HM doors and frame; 1hr fire-rated	1	EA	5,000.00	$5,000		
	362	Single HM door and frame; 2hr fire-rated	76	EA	2,600.00	$198,000		
	363	Pair HM doors and frame; 2hr fire-rated	13	EA	5,000.00	$65,000		
	364	Door Closet	6	EA	1,000.00	$6,000		

Terminal/Concourse Building Building Area: 639,470 GSF

		Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
		365	Pair Door Closet	22	EA	1,200.00	$26,000		
		366							
		367	*Departures/Boarding Level*						
		368	Single HM door and frame	95	EA	1,800.00	$171,000		
		369	Pair HM doors and frame	6	EA	3,800.00	$23,000		
		370	Single HM door and frame; 1hr fire-rated	4	EA	2,600.00	$10,000		
		371	Single HM door and frame; 2hr fire-rated	29	EA	2,600.00	$75,000		
		372	Pair HM doors and frame; 2hr fire-rated	11	EA	5,000.00	$55,000		
		373	Pair Door Closet	2	EA	1,200.00	$2,000		
S	A16	374	DELETED						
		375							
		376	**Subtotal: Doors, Frames & Hardware**					$1,003,000	
		377							
		378	**Floor Finishes**						
		379							
		380	*Arrival/Apron Level*						
V	A122/A87	381	Concrete sealer	159,048	SF	1.00	$159,000		
	A87	382	Vinyl tile	16,135	SF	3.50	$56,000		
S/V	A17/A118/ A122/A87	383	Carpet Tile In BOH Spaces - Jet Blue Standard	6,782	SY	21.00	$142,000		
S/V	A17/A122/ A87	384	Glazed ceramic tile	16,727	SF	18.00	$301,000		
S/V	A17/A113 C	385	Floor Finish Allowance; T-50	11,852	SF	10.00	$119,000		
S/V	A17/A113 C/A87	386	Floor Finish Allowance; T-51	53,868	SF	10.00	$539,000		
S/V	A17/A113 C	387	Floor Finish Allowance; T-55				Deleted		
S	A17	388	Vinyl base	36,775	LF	1.50	$55,000		
		389	*Ceramic tile base*	994	LF	15.00	$15,000		
		390	Ceramic tile cove	3,199	LF	18.00	$58,000		
S	A17	391	Stainless steel base	1,522	LF	35.00	$53,000		
		392							
		393							
		394	*Departures/Boarding Level*						
		395	Concrete sealer	12,435	SF	1.00	$12,000		
		396	Vinyl tile	3,859	SF	3.50	$14,000		
S	A17	397	Carpet	7,427	SY	25.00	$186,000		
S	A17	398	Glazed ceramic tile	13,408	SF	18.00	$241,000		
		399	Granite tile	15,057	SF	15.00	$226,000		
S/V	A17/A113 C	400	Floor Finish Allowance; T-51	92,368	SF	10.00	$924,000		

Terminal/Concourse Building

Building Area: 639,470 GSF

		Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
S/V	A17/A113 C	401	Floor Finish Allowance; T-52	20,682	SF	10.00	$207,000		
S/V	A17/A113 C	402	Floor Finish Allowance; T-55	4,722	SF	10.00	$47,000		
		403	Vinyl base	6,120	LF	1.50	$9,000		
		404	Ceramic tile cove	3,440	LF	18.00	$62,000		
S	A17	405	Stainless steel base	6,931	LF	35.00	$243,000		
		406							
		407							
		408	**Subtotal: Floor Finishes**					$3,668,000	
		409							
		410	**Wall Finishes**						
		411							
		412	*Arrival/Apron Level*						
S/V	A18/A87	413	Paint	323,743	SF	1.20	$388,000		
S	A18	414	Steel wall plate	1,507	SF	60.00	$90,000		
		415	Ceramic tile						
S/V	A18/A115B			-	SF	18.00	$0		
V	A115B		Epoxy Paint of BOH Restrooms	25,592	SF	1.50	$38,000		
		416	Total	325,250			$0		
		417							
		418	*Departures/Boarding Level*						
S	A18	419	Paint	274,365	SF	1.20	$329,000		
S	A18	420	Plastic laminate wall panels; particle board core	5,591	SF	50.00	$280,000		
		421	Ceramic tile						
S/V	A18/A115B			25,636	SF	18.00	$461,000		
V	A115B		Epoxy Paint of BOH Restrooms	5,324	SF	1.50	$8,000		
		422	Aluminium plate	2822	SF	34.00	$96,000		
		423	Aluminium panel - painted	1587	SF	40.00	$63,000		
S	A18	424	Steel wall plate	8726	SF	60.00	$524,000		
		425	Total	324,051	SF				
		426							
		427							
		428							
		429	**Subtotal: Wall Finishes**					$2,277,000	
		430							
		431	**Ceiling Finishes**						
		432							
		433	*Arrival/Apron Level*						
S/V	A19/A116/ A87	434	Acoustical panel ceiling, 2'x2'	87,686	SF	9.00	$789,000		
S	A19/A87	435	GWB; paint finish; concealed suspension	99,611	SF	10.00	$996,000		

Terminal/Concourse Building

Building Area: 639,470 GSF

		Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
S	A19	436	GWB bulkheads and soffits; paint finish	17,744	SF	30.00	$532,000		
S/V	A19/A116	437	Simplex Designer Ceiling System, 3'x8'				Not Included		
S/V	A19/A116	438	Simplex Designer Ceiling System, 4'x8'				Not Included		
S/V	A19/A116	439	Simplex Generation 2000, 2'x8'				Not Included		
S	A19	440	*No ceiling*	136,508	SF				
		441	Total	341,549					
		442							
		443	*Departures/Boarding Level*						
S/V	A19/A116	444	Acoustical panel ceiling, 2'x2'	85,476	SF	9.00	$769,000		
S/V	A19/A87	445	Acoustical panel ceiling, 4'x4'	37,058	SF	13.00	$482,000		
S	A19	446	GWB; paint finish; concealed suspension	93,683	SF	10.00	$937,000		
S	A19	447	GWB bulkheads and soffits; paint finish; concealed suspension (measured flat)	7,242	SF	30.00	$217,000		
S/V	A19/A116	448	Simplex Designer Ceiling System, 2'x6'				Not Included		
S/V	A19/A116		Simplex Generation 2000, 2'x8'				Not Included		
S/V	A19/A116		Simplex Designer Ceiling System, 4'x8'				Not Included		
S/V	A19/A116		Simplex Designer Ceiling System				Not Included		
S	A19		Gordon 12" Baffles 12"	17,537	SF	31.00	$544,000		
S	A19	449	No ceiling	57,690	SF				
		450	Total	298,686					
		451							
		452	**Subtotal: Ceiling Finishes**					$5,266,000	
		453							
		454	**Interior Glass & Glazing**						
		455							
		456	Restroom mirrors	2,760	SF	20.00	$55,000		
		457	*Sundry glass and glazing*	620,977	SF	1.00	$621,000		
S	A16	458	Glass partiton	1,454	SF	70.00	$102,000		
S	A16	459	Pair glass door	9	EA	5,000.00	$45,000		
S	A16	460	Sliding door - double door	2	EA	10,000.00	$20,000		
		461	**Subtotal: Interior Glass & Glazing**					$843,000	
		462							
		463	**Millwork**						
		464							
S	A20	465	Hold room customer service counter	7	EA	70,000.00	$490,000		
S	A20	466	Check-in counter	52	EA	35,000.00	$1,820,000		
S	A20	467	Check-in counter - sky cap	12	EA	25,000.00	$300,000		
S	A20	468	Vanity	781	LF	360.00	$281,000		
S	A20	469	Shelf - inbound baggage	21	LF,Allow	120.00	$3,000		
S	A20		Counter & upper cabinet - office	232	LF,Allow	480.00	$111,000		
S	A20		Counter & upper cabinet - waiting room	19	LF,Allow	480.00	$9,000		
S	A20	470	Counter - check-in	94	LF,Allow	120.00	$11,000		

Terminal/Concourse Building Building Area: 639,470 GSF

		Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
S	A20	471	Shelf - restrooms	179	LF,Allow	120.00	$21,000		
S	A20	472	Shelf & upper cabinet - Copy/Supply	137	LF,Allow	480.00	$66,000		
S	A20	473	Pantries - break/ kitchen	155	LF,Allow	780.00	$121,000		
S	A20	474	Closet	148	LF,Allow	120.00	$18,000		
S	A20	475	Taxi Stand	1	EA	50,000.00	$50,000		
		476	**Subtotal: Interior Millwork**					$3,301,000	
		477							
		478	**Miscellaneous Metals**						
		479							
		480	Miscellaneous Metals	639,470	SF	3.00	$1,918,000		
		481							
		482	**Subtotal: Miscellaneous Metals**					$1,918,000	
		483							
		484	**INTERIOR PARTITIONS & FINISHES**						$26,745,000
		485							
		486	**VERTICAL TRANSPORTATION**						
		487							
		488	**Elevators**						
		489							
S	A21	490	2 stop, 3500# passenger, 16' travel (EL2,3)	2	EA	200,000.00	$400,000		
S	A21	491	2 stop, 2500# passenger, 18'10" travel (EL5)	1	EA	200,000.00	$200,000		
S	A21	492	4 stop, 4500# passenger, 55.5' travel (EL6)	1	EA	310,000.00	$310,000		
S	A21	493	3 stop, 4500# passenger, 44.0' travel (EL7)	1	EA	290,000.00	$290,000		
		494	Cab finish allowance - public elevator	5	EA	30,000.00	$150,000		
S	A21	495	4 stop, 4500# freight, 45'10" travel (EL1)	1	EA	280,000.00	$280,000		
S	A21	496	2 stop, 4500# freight, 18'10" travel (EL4)	1	EA	200,000.00	$200,000		
		497	Cab finish allowance - freight elevator	2	EA	25,000.00	$50,000		
		498	Security controls	4	EA	5,000.00	$20,000		
S	A22	499	3 stop, 4500# passenger, 44.0' travel (EL9)	1	EA	215,000.00	$215,000		
S	A22	500	Cab finish allowance - public elevator	1	EA	30,000.00	$30,000		
		501							
		502	**Subtotal: Elevators**					$2,145,000	
		503							
		504	**Escalators and Moving Walks**						
		505							
		506	Escalator, glass balustrade, 40" wide, 16' vertical travel (ESC1,2)	2	EA	150,000.00	$300,000		
		507	Escalator, glass balustrade, 40" wide, 19' vertical travel (ESC3,4)	2	EA	156,000.00	$312,000		
		508							
		509	**Subtotal: Elevators**					$612,000	
		510							
		511	**VERTICAL TRANSPORTATION**						$2,757,000
		512							

Terminal/Concourse Building — Building Area: 639,470 GSF

		Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
		513	**SPECIALITIES**						
		514							
		515	**Specialties**						
		516							
	A119/A122	517	WC Partition - Stainless Steel						
V	/A91			108	EA	1,500.00	$162,000		
V	A119		WC Partition - HDPE in BOH Spaces	32	EA	900.00	$29,000		
S/V	A23B/A91	518	Urnial Screens - Stainless Steel	48	EA	400.00	$19,000		
V	A/91	519	Toilet Accessories	140	EA	2,500.00	$350,000		
		520	Wall Corner Guard	1	LS	250,000.00	$250,000		
		521	Wall Covering (NON SHOWN)	1	LS	50,000.00	$50,000		
V	A122/A87	522	Metal Locker (3.5' h. * 1' w. , 2Shelves)	1,414	EA	250.00	$354,000		
		523	Locker Benches	1	Allow	15,000.00	$15,000		
		524	Fire Extinguishers	30	Allow	800.00	$24,000		
		525	Fire Hose Cabinets	41	Allow	300.00	$12,000		
S	A23C	526	Wire Mesh Partitions				Not Included		
S	A23C	527	Wire Mesh Lockers				Not Included		
		528	Louvers				W/HVAC		
		529	Telephone Specialities				By Owner		
S	E50		Ventless Dryers	2	EA	1,000.00	$2,000		
		530	**Subtotal: Specialties**					$1,267,000	
		531							
		532	**Signage**						
		533							
		534	Signage - Code Signage	639,470	GSF	0.15	$96,000		
		535	Building - Directional & Wayfinding	1	LS	1,500,000.00	$1,500,000		
		536	Two Line Box-12' - Directional Ceiling MTD	17	EA		Included		
		537	Two Line Box- 6' - Directional Ceiling MTD	1	EA		Included		
		538	One Line Box - 6' - Directional Ceiling MTD	2	EA		Included		
		539	Two Line Box- 8' - Directional Ceiling MTD w/ Power	9	EA		Included		
		540	One Line Box - 8' - Directional Ceiling MTD w/ Power	1	EA		Included		
		541	Arrivals Curbside Panel - Directional Ceiling MTD w/ Power	5	EA		Included		
		542	Gate Area Blade - Directional Soffit w/ Power & Data	25	EA		Included		
		543	Jet Bridge Panel - Directional Wall MTD w/ Power & Data	25	EA		Included		
		544	Carousel BID -Informational Wall/Carousel w/ Power & Data	6	EA		Included		
		545	Wall FID - Informational Wall MTD w/ Power & Data	8	EA		Included		
		546	Wall BID - Informational Wall MTD w/ Power & Data	4	EA		Included		
		547	Terminal Map/Directory Panel - Informational Wall MTD w/ Power & Data	10	EA		Included		
		548	Vinyl Graphic - Infromational Wall MTD	13	EA		Included		
		549	Room Sign - Informational Wall MTD	400	EA		Included		
		550	Room Sign ADA Symbol - Informational Wall MTD	75	EA		Included		
		551	Stairwall Panel - Informational Wall MTD	10	EA		Included		

Terminal/Concourse Building Building Area: 639,470 GSF

	Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
	552	Misc Messages Panel - Informational Wall MTD	50	EA		Included		
	553	Airport Services Blade - Informational Soffit/Column MTD	20	EA		Included		
	554	Regulatory Interior Panel - Regulatory Wall MTD	195	EA		Included		
	555	Regulatory Exterior Panel - Regulatory Wall MTD	320	EA		Included		
	556	Regulatory Stanchions - Regulatory Floor	10	EA		Included		
	557	Regulatory Blade - Regulatory Soffit/Column MTD	50	EA		Included		
	558	Advertising Diorama - Advertising Wall MTD w/ Power & Data	25	EA		Included		
	559	Advertising Vinyl Graphic - Advertising Wall MTD	25	EA		Included		
	560	Retail Blade - Advertising Wall MTD w/ Power	15	EA		Included		
	561	Retail Cabinet - Advertising Wall MTD w/ Power	15	EA		Included		
	562	Misc Panel - Advertising Wall MTD	100	EA		Included		
	563	Skywalk Graphic - Advertising Wall/Glass MTD	1	EA		Included		
	564	Jet Blue Tower Graphic - Advertising Wall/Glass MTD	1	EA		Included		
	565	Marketplace Feature - Informational Ceiling w/ Power	1	EA		Included		
	566							
	567	**Subtotal:Signage**					$1,596,000	
	568							
	569							
	570	**SPECIALITIES**						$2,863,000
	571							
	572	**EQUIPMENT & FURNISHINGS**						
	573							
	574	**Miscellaneous Equipment**						
	575							
	576	Fall Protection Barrier, cable & Stanchions	3,460	LF	15.00	$52,000		
	577	Projection Screen (60" h. * 80" w.)				$0		
	578	- Conference Room	10	EA	1,500.00	$15,000		
	579	- Training/Briefing Room	10	EA	1,500.00	$15,000		
	580	Loading Dock Equipment						
	581	- Dock Bumper	6	EA	1,000.00	$6,000		
	582	- Recessed Dock Leveler	6	EA	8,000.00	$48,000		
	583	- Truck Restraint	6	EA	2,500.00	$15,000		
	584	Trash Compactors	2	EA	25,000.00	$50,000		
	585	Pantry Appliance (NON SHOWN)	3	Allow	5,000.00	$15,000		
V	A120 586	Floor Mats and Frames				Not Included		
	587	Building Accessories	639,470	GSF	0.25	$160,000		
	588							
	589	**Subtotal: Miscellaneous Equipment**					$376,000	
	590							
	591	**Seating**						
	592							
	593	Seatings						

Terminal/Concourse Building

Building Area: 639,470 GSF

	Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
S	A23A	594 - Chairs (o)	208	EA		w/ FF&E		
S	A23A	595 - Tables (o)	52	EA		w/ FF&E		
S	A23A	596 - Chairs (□)	215	EA		w/ FF&E		
S	A23A	597 - Tables (□)	76	EA		w/ FF&E		
S	A23A	598 - Tables (long □)	5	EA		w/ FF&E		
S	A23A	599 - Airport Seats	2,168	EA		w/ FF&E		
S	A23A	600 - Bench Seats	40	EA		w/ FF&E		
		601						
		602 **Subtotal: Seating**						
		603					$0	
		604 **TSA Security Equipment**						
		605						
		606 See "Equipment" section						
		607						
		608 **Subtotal: TSA Security Equipment**						
		609					$0	
		610 **Furnishings**						
		611						
S	A23A	612 FF & E	1	ALLOW	3,000,000.00	$3,000,000		
		613 Systems Furniture				Excluded		
		614						
		615 **Subtotal: Furnishings**						
		616					$3,000,000	
		617 **Artwork**						
		618						
		619 Excluded						
		620						
		621 **Subtotal: Artwork**						
		622					$0	
		623 **EQUIPMENT & FURNISHINGS**						
		624						$3,376,000
		625 **BAGGAGE HANDLING SYSTEM**						
		626						
		627 See "Equipment" section						
		628						
		629 **BAGGAGE HANDLING SYSTEM**						
		630						$0
		631 **SPECIAL CONSTRUCTION**						
		632						
		633 **Passenger Boarding bridges**						
		634						
		635 See "Equipment" section						

Terminal/Concourse Building — Building Area: 639,470 GSF

	Rank		Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
		636							
		637	**Subtotal: Passenger boarding bridges**					$0	
		638							
		639	**SPECIAL CONSTRUCTION**						$0
		640							
		641	**PLUMBING**						
		642							
		643							
		644	***Fixtures and Specialties (Based on Plumbing Dwgs)***						
	P37/A91/A	645							
S/V	122		Water Closet (Battery Powered Automatic Flush Valves)	200	EA	$1,181.00	236,000		
	P37/A91/A	646							
S/V	122		Lavatory (Battery PoweredAutomatic Faucets)	209	EA	$1,381.00	289,000		
S	P37	647	Electronic Flush Valves and Faucets				Included		
	P37/A91/A	648							
S	122		Tempering Valves	36	EA	$750.00	27,000		
	P37/A91/A	649							
S	122		Urinals (Battery Powered Automatic Flushvalves)	67	EA	$1,731.00	116,000		
		650	Misc. Sinks (Pantry, Break Rooms, etc.)	15	EA	$1,500.00	$23,000		
		651	Electric Water Coolers	47	EA	$1,500.00	$71,000		
V	A91	652	Service Sinks	23	EA	$1,500.00	$35,000		
V	A122	653	Shower Base w/ enclosure	18	EA	$2,500.00	$45,000		
V	A122	654	Shower Head & Valve Body	18	EA	$750.00	$14,000		
V	A122	655	Pressure Balancing Mixing Valves	18	EA	$500.00	$9,000		
		656	Emergency Eye Wash/Showers (Freeze-Proof)	7	EA	$1,900.00	$13,000		
		657	Emergency Eye Wash/Showers (interior)	3	EA	$1,400.00	$4,000		
		658	Installation of Toilet Accessories	1	LS	$72,000.00	$72,000		
		659							
		660							
		661	**Subtotal: Fixtures & Specialties**					$954,000	
		662							
		663	**Domestic Water Distribution**						
		664	Domestic Water System Equipment						
		665	Water Meters (6")	2	EA	$20,000.00	$40,000		
		666	Backflow Preventer For Domestic Sevice (6")	2	EA	$20,000.00	$40,000		
		667	Backflow Preventer For Fire Standpipe Service (6")	3	EA	$20,000.00	$60,000		
		668	Double Check Detector Assembly For Sprinkler Service (8")	2	EA	$25,000.00	$50,000		
		669	Domestic Water Suction Tank				Not Included		
		670	Misc. Valves & Specialties (Curb valve, etc.)	1	LS	$100,000.00	$100,000		
		671	Water Treatment	1	LS	$25,000.00	$25,000		
		672	Domestic Hot Water Heater Flue Piping				w/ HVAC		
		673	Domestic Cold Water System						

Terminal/Concourse Building Building Area: 639,470 GSF

		Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
S	P45	674	Domestic CW Booster Pumps [DWPP-1&2] (w/ Hydro Tank - Duplex, 15 HP)	2	EA	$25,000.00	50,000		
		675	Back Flow Preventors for HVAC Cold Water	6	EA	$1,000.00	$6,000		
V	P43	676	Hose Bibbs (Interior) (1 per Toilet Room, MER & Work Room w/ Floor Drains)				Not Required		
		677	Hose Bibbs (Exterior Non-Freeze on Roof)	9	EA	$450.00	$4,000		
S	P38	678	Wall Hydrants (Exterior Non-Freeze) (1/300' of Perimeter)	5	EA	$500.00	$3,000		
		679	Misc. Valves & Specialties	1	LS	$100,000.00	$100,000		
		680	Domestic Hot Water System						
		681	Domestic Water Heaters [GWH-1 thru 6] (gas fired, 1050 GPH)	6	EA	$30,000.00	$180,000		
		682	Domestic Hot Water Circulator Pumps [CP-1 thru 6] (Simplex, Inline, 3/4 HP)	6	EA	$5,000.00	$30,000		
		683	Domestic Water Heaters [EWH-1] (Instantaneous, Electric, 20 GPM)	10	EA	$10,000.00	$100,000		
		684	Domestic Water Heaters [EWH-2] (Instantaneous, Electric, 1 GPM)	2	EA	$4,000.00	$8,000		
		685	Misc. Valves & Specialties	1	LS	$100,000.00	$100,000		
		686	Water Heater Boosters/Local Heaters @ Concession Areas				Not Included		
		687	Domestic Water Piping (Hot & Cold)						
S	P45		Potable Water Cabinet				with Equipment Estimate		
S	P45		Domestic Water Piping, 1'	2,600	LF	$28.00	73,000		
S	P45		Piping Insulation	2,600	LF	$10.00	26,000		
S	P45	688	6"' Domestic Water Piping	1,190	LF	$90.00	107,000		
S	P45	689	4" Domestic Water Piping	0	LF	$85.00	0		
		690	3" Domestic Water Piping	6,500	LF	$60.00	$390,000		
V	A122	691	2" - 2 1/2" Domestic Water Piping	950	LF	$40.00	$38,000		
V	A122	692	Domestic Water Piping, 1-1/2" and Under	6,200	LF	$32.00	$198,000		
V	A122	693	Piping Insulation	14,710	LF	$15.00	$221,000		
		694	Expansion Fittings	1	Allow	$12,000.00	$12,000		
V	A122	695	Water Hammer Arrester (1/20 fixtures)	28	EA	$400.00	$11,000		
		696	HWAT	1	Allow	$15,000.00	$15,000		
S	P45	697	Misc. Valves & Specialties	1	LS	$125,000.00	125,000		
		698							
		699	Non-Potable Water System				Not included		
		700							
		701							
		702	**Subtotal: Domestic Water Distribution**					$2,112,000	
		703							
		704	**Sanitary Drainage**						
		705	Sanitary Drainage Equipment						
		706	Duplex Sewage Ejectors [SEP-1 thru 7]	7	EA	$25,000.00	$175,000		
		707	House Traps (4")	32	EA	$1,500.00	$48,000		
V	P152	708	Floor Drains	52	EA	$575.00	$30,000		
S	P39/P152	709	Deep Seal Floor Drains Trap Premium	52	EA	$35.00	2,000		
S	P40	710	Elevator Pit Sump Pump				Not Included		
S	P40	711	Escalator Sump Pumps				Not Included		
		712	Indirect Drains	0	EA	$900.00	$0		
		713	Capped Outlets for Retail & Kitchen	22	EA	$1,500.00	$33,000		

Terminal/Concourse Building Building Area: 639,470 GSF

		Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
		714	Misc. Valves & Specialties	1	LS	$25,000.00	$25,000		
S	P42	715	Central Grease Interceptor (cast iron, direct bury -50 GPM)	5	EA	$10,000.00	$50,000		
		716	Solid/Sand Interceptors				Not Included		
		717	Sanitary Vent & Drainage Piping						
		718							
S/V	P219/P152		Below ground - 2" - 4" (Add service concession areas - Arrivals)	4,200	LF	$40.00	$168,000		
V	P152	719	Below ground - 5" - 6"	375	LF	$90.00	$34,000		
		720							
S/V	P219/A122		Aboveground - 1 1/2" - 4" (Add service concession areas - Arrivals)	17,590	LF	$35.00	$616,000		
		721	Aboveground - 6"	1,200	LF	$90.00	$108,000		
		722	Ejector Discharge & Vent (Galv)	350	LF	$75.00	$26,000		
S	P219	723	Cleanouts	1	Allow	$60,000.00	$60,000		
S	P219		Add to service concession Areas Arrivals - Cleanouts	10	EA	$650.00	$7,000		
		724	Fresh Air Inlets	32	EA	$500.00	$16,000		
		725							
		726	**Subtotal: Sanitary Drainage**					$1,398,000	
		727							
		728	**Storm Drainage**						
		729	Storm Drainage Equipment						
		730	Roof Drains (6"- 8")	68	EA	$750.00	$51,000		
		731	Area Drains (4")	13	EA	$700.00	$9,000		
S	P41	732	Oil-Water Separator for Loading Dock Drainage (200 GPM)				w/ Landside Estimate		
S	P41	733	Loading Dock Area Drains				w/ Landside Estimate		
S	P41	734	Trench Drain at Loading Dock				w/ Landside Estimate		
		735	Overflow Drains				Not Included		
		736	Syphonic Roof Drain System				Not Included		
		737	Storm Drainage Piping						
		738	Below ground - 4" - 6"	1,300	LF	$60.00	$78,000		
		739	Below ground - 8" -12"	2,810	LF	$85.00	$239,000		
		740	Aboveground - 4"	230	LF	$70.00	$16,000		
		741	Aboveground - 6"	3,730	LF	$90.00	$336,000		
		742	Aboveground - 8"	2,720	LF	$150.00	$408,000		
		743	Insulation for Horizontal Piping	100	LF	$24.00	$2,000		
		744	Expansion Joints	1	LS	$10,000.00	$10,000		
		745	Cleanouts	1	LS	$60,000.00	$60,000		
		746	Overflow Drainage Piping				Not Included		
		747	Stainless Steel Piping				Not Included		
		748							
		749	**Subtotal: Storm Drainage**					$1,209,000	
		750							
		751	**Natural Gas Piping**						
		752	Duplex Gas Meters - XXX CFH (Furnish)				By Con Ed		
		753	Duplex Gas Meters - Firm (Install) & Headers	1	EA	$10,000.00	$10,000		

Terminal/Concourse Building Building Area: 639,470 GSF

		Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
		754	Gas Regulators	1	LS	$25,000.00	$25,000		
		755	Gas Booster System				Not Included		
		756	Natural Gas Piping (3"-4"- HW Heaters, Infrared Heaters & Concession Areas)	4,400	LF	$70.00	$308,000		
S	P44	757	Gas Valved Outlets for Concession Areas	14	EA	$1,500.00	$21,000		
		758	Gas Valved Outlets for Infrared Heaters	31	EA	$1,500.00	$47,000		
		759	Gas Valved Outlets for Hot Water Heaters	6	EA	$1,500.00	$9,000		
		760	Misc. Valves & Specialties	1	LS	$50,000.00	$50,000		
		761	X-Ray Testing	1	LS	$15,000.00	$15,000		
		762							
		763	**Subtotal: Natural Gas Piping**					$485,000	
		764							
		765	**Equipment Hook-ups**						
		766	Refrigerator/Dishwasher/Ice Maker Rough-ins & Connections (At Pantry, Break R	1	ALW	$25,000.00	$25,000		
		767	Washer/Gas Dryer Rough-ins & Connections				Not Included		
		768							
		769	**Subtotal: Equipment Hook-ups**					$25,000	
		770							
		771	**Site Utilities (up to 5' outside of building)**						
		772	Fire Service Lines To Building				w/Site Utilities		
		773	Domestic Water Lines To Building				w/Site Utilities		
		774	Sanitary Mains To Building				w/Site Utilities		
		775	Gas Lines To Building				w/Site Utilities		
		776	Storm Lines To Building				w/Site Utilities		
		777							
		778	**Subtotal: Site Utilities**						$0
		779							
		780	**Food Service Fit-Out**						
		781	Food Service Fit-Out			w/ Concession Areas Fit-Out Work			
		782	Hot Water Heater			w/ Concession Areas Fit-Out Work			
S	P42	783	Local Grease Interceptor (50 GPM)				Not Required		
		784	Floor Drains			w/ Concession Areas Fit-Out Work			
		785	Equipment Hook-ups			w/ Concession Areas Fit-Out Work			
		786	Plumbing Rough-ins & Connections			w/ Concession Areas Fit-Out Work			
		787							
		788	**Subtotal: Food Service Fit-Out**						$0
		789							
		790							
		791	**Miscellaneous**						
V	A87		Reduce North Concourse by 5040 SF - Building Plumbing (assumes toilet rooms s	(5,040)	GSF	$1.50	(8,000)		
		792	Independent (3rd party) Commissioning Agent				By Owner		
		793	Work with Owner Furnished Commissioning Agent				Included		
		794	Engineering, Layout & Shop Drawings				Included		
		795	As-Built Drawings, O&M Manuals & Warranty				Included		
		796	System Identification				Included		

Terminal/Concourse Building Building Area: 639,470 GSF

Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
797	Permits & Fees				Included		
798	Controlled Inspections				Included		
799	Controls & Control Wiring				Included		
800	Pressure Testing & Disinfection of Piping				Included		
801	Equipment Startup & Testing				Included		
802	Balancing of Domestic Water System				Included		
803	Core Drilling				Included		
804	Fire Stopping				Included		
805	Seismic Restraints & Vibration Isolation				Included		
806	Rigging, Hoisting & Aerial Lifts				Included		
807	Scaffolding				Included		
808	Temporary Heating				w/HVAC		
809	Temporary Utilities/Toilets				Included		
810	Standby Labor				Included		
811	Consumption Charges				w/ GC		
812	Trailer Hook-ups				Included		
813	Job Trailer (Shanty) - Tool / Equip Storage				Included		
814	Heat Tracing (Furnish) w/ Aluminum Jacketing						
815	Domestic Hot & Cold Water Piping				Included		
816	Heat Tracing (Furnish) w/ Insulation & Aluminum Jacketing						
817	Sanitary Drainage Piping				Included		
818	Drip Pans				Included		
819	Trenching/Excavation/Backfill				w/Foundations		
820	Concrete Equipment Pads				w/Concrete		
821	Painting				w/Painting		
822	Roof Work				w/Roofing		
823	Concession Areas Fit-out				Not Included		
824	Overtime				Not Included		
825							
826							
827	**Subtotal: Miscellaneous**					($8,000)	
828							$6,175,000
829	**PLUMBING**						
830							
831	**FIRE PROTECTION**						
832							
833	**Equipment & Accessories**						
834	Incoming Fire Service Lines up to 5' of building wall				w/ Site Utilities		
835	Double Check Detector Assembly at Service Entrance (8")				w/ Plumbing		
836	Electric Fire Pump (1000 GPM, 100 HP) w/ Controller & ATS (ATS - Furnish only)	2	EA	$125,000.00	$250,000		
837	Jockey Pump (10GPM, 2 HP) w/ Controller	2	EA	$7,500.00	$15,000		
838	Storage Tank				Not Included		

Terminal/Concourse Building — Building Area: 639,470 GSF

	Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
	839	Fire Extinguishers				w/Specialties		
	840							
	841	**Subtotal: Equipment & Accessories**					$265,000	
	842							
	843	***Fire Standpipe System***						
	844	Fire Standpipe Risers & Main Piping (6")	10,700	LF	$80.00	$856,000		
	845	Siamese Connections	36	EA	$1,800.00	$65,000		
	846	Fire Hose Racks/Cabinets	46	EA	$2,000.00	$92,000		
	847	Misc. Valves & Specialties	1	LS	$50,000.00	$50,000		
	848	Roof Manifold	3	EA	$2,500.00	$8,000		
	849							
	850	**Subtotal: Fire Standpipe System**					1,071,000	
	851							
	852							
	853	**Wet System Sprinkler Piping & Heads**						
	854	Sprinkler Main Piping - Risers & Horizontals from DCDA to All Zone Valves (4"-6")	8,700	LF	$80.00	$696,000		
	855	Arrival Level						
	856	SP Zone 1,2,4,5,6,7,8 & 9 240,740						
	857	Alarm Control Valve Assembly (ACV) (4")	8	EA	$4,500.00	$36,000		
S F47	858	Sprinkler Heads	2,410	EA	$350.00	844,000		
	859	Sprinkler Main Piping (4")	4,600	LF	$50.00	$230,000		
	860	Drain Piping (2")	800	LF	$35.00	$28,000		
	861	Sprinkler Branch Piping				Included		
	862	Misc. Valves & Specialties	1	LS	$40,000.00	$40,000		
	863	Departure Level						
	864	SP Zone 1,2,3,4,5,6 & 7 298,620						
	865	Alarm Control Valve Assembly (ACV) (4")	7	EA	$4,500.00	$32,000		
S F47	866	Sprinkler Heads	2,990	EA	$350.00	1,047,000		
	867	Sprinkler Main Piping (4")	4,600	LF	$50.00	$230,000		
	868	Drain Piping (2")	700	LF	$35.00	$25,000		
	869	Sprinkler Branch Piping				Included		
	870	Misc. Valves & Specialties	1	LS	$35,000.00	$35,000		
	871	539,360						
S F47		Sprinkler Heads	130	EA	$375.00	49,000		
V A87		Reduce North Concourse by 5040 SF - Building Fire Protection (wet system)	(5,040)	GSF	$5.00	(25,000)		
V A213		Delete SF @ North Floor	(5,690)	GSF	$5.00	(28,000)		
	872	**Subtotal: Wet System Sprinkler Piping & Heads**					$3,239,000	
	873							
	874	**Dry Systems**						
	875	Arrival Level						
	876	DSP Zone 1,2,3,4 & 5 71,320						
S P46	877	Dry Valve Assembly w/ Air Compressor (DVA) (4")	5	EA	$14,000.00	70,000		

Terminal/Concourse Building — Building Area: 639,470 GSF

		Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
S	P46	878	Sprinkler Heads	920	EA	$385.00	354,000		
S	P46	879	Sprinkler Main Piping (4")	3,300	LF	$60.00	198,000		
		880	Drain Piping (2")	500	LF	$35.00	$18,000		
		881	Sprinkler Branch Piping				Included		
		882	Galvanized Pipe				Not Included		
		883	Misc. Valves & Specialties	1	LS	$25,000.00	$25,000		
		884	Departure Level						
		885	DSP Zone 4 & 5 (Skycap areas) 1800						
S	P46	886	Dry Valve Assembly w/ Air Compressor (DVA) (4")	2	EA	$14,000.00	28,000		
S	P46	887	Sprinkler Heads	30	EA	$385.00	12,000		
S	P46	888	Sprinkler Main Piping (4")	600	LF	$60.00	36,000		
		889	Drain Piping (2")	200	LF	$35.00	$7,000		
		890	Sprinkler Branch Piping				Included		
		891	Galvanized Pipe				Not Included		
		892	Misc. Valves & Specialties	1	LS	$10,000.00	$10,000		
		893							
		894	**Subtotal: Dry Systems** 73,120					$758,000	
		895							
		896	**PreAction Systems**						
		897	Arrival Level						
		898	Preaction SP Zone 1 29350						
S	P46	899	Preaction Valve Assembly w/ Air Compressor (PVA Z-3) (4")	1	EA	$16,500.00	17,000		
S	P46	900	Preaction Panel	1	EA	$5,000.00	5,000		
S	P46	901	Sprinkler Heads	320	EA	$385.00	123,000		
S	P46	902	Sprinkler Main Piping (4")	500	LF	$60.00	30,000		
		903	Drain Piping (2")	100	LF	$35.00	$4,000		
		904	Sprinkler Branch Piping				Included		
		905	Misc. Valves & Specialties	1	LS	$10,000.00	$10,000		
		906							
		907	**Subtotal: PreAction Systems**					$189,000	
		908							
		909	**Deluge Systems**						
S	F48	910	Departure Level						
S	F48	911	Deluge SP Zone 1, 3 & 3-1 9,200						
S	F48	912	Deluge Valve Assembly (DLV) (4")	3	EA	$12,500.00	$38,000		
S	F48	913	Alarm Panel	3	EA	$5,000.00	$15,000		
S	F48	914	Sprinkler Heads	103	EA	$385.00	$40,000		
S	F48	915	Sprinkler Main Piping (4")	1,030	LF	$60.00	$62,000		
S	F48	916	Drain Piping (2")	150	LF	$35.00	$5,000		
S	F48	917	Sprinkler Branch Piping				Included		
S	F48	918	Misc. Valves & Specialties	1	LS	$15,000.00	$15,000		
		919							

JetBlue Terminal 5
JFK Airport New York, New York
60% CD Estimate
April 20, 2005

Terminal/Concourse Building

Building Area: 639,470 GSF

Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
920	**Subtotal: Deluge Systems**						
921						$175,000	
922	**Specialty Systems**						
923	Halon (FM-200), etc.						
924	Kitchen Hood Fire Suppression System (Ansul)				Not Included w/ Concession Areas Fit-Out Work		
925							
926	**Subtotal: Specialty Systems**						
927						$0	
928	**Miscellaneous**						
929	Independent (3rd party) Commissioning Agent				By Owner		
930	Work with Owner Furnished Commissioning Agent				Included		
931	Sprinkler Work Above and Below Ductwork Over 48" in Width				Included		
932	Hydraulic Calculations, Layout & Shop Drawings				Included		
933	As-Built Drawings, O&M Manuals & Warranty				Included		
934	System Identification				Included		
935	Permits & Fees				Included		
936	Controlled Inspections				Included		
937	Controls & Control Wiring				Included		
938	Pressure Testing & Flushing of Piping				Included		
939	Equipment Startup & Testing				Included		
940	Balancing for Fire Pumps				Included		
941	Core Drilling				Included		
942	Fire Stopping				Included		
943	Seismic Restraints & Vibration Isolation				Included		
944	Rigging, Hoisting & Aerial Lifts				Included		
945	Scaffolding				Included		
946	Job Trailers (Shanty) - Tool / Equip Storage				Included		
947	Heat Tracing (Furnish) w/Insulation & Aluminum Jacketing				Included		
948	Drip Pans				Included		
949	Attic Stock				Included		
950	Temporary Standpipe system				Included		
951	Temporary Fire Protection				Use Permanent System		
952	Standby Labor & Fire Watch				Use Permanent System		
953	Detectors (Heat & Smoke)				Not Included		
954	Fire Alarm & Control Wiring				w/Electrical		
955	Trenching/Excavation/Backfill				w/Electrical		
956	Concrete Equipment Pads				w/Foundations		
957	Painting				w/Concrete		
958	Roof Work				w/Painting		
959	Concession Areas Fit-out				w/Roofing		
960	Overtime				Not Included		
961					Not Included		
962	**Subtotal: Miscellaneous**						$0

Terminal/Concourse Building

Building Area: 639,470 GSF

		Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
		963							
		964	**FIRE PROTECTION**						
		965							$5,697,000
		966	**H.V.A.C.**						
		967	**Heating & Cooling Plant**						
		968							
		969	**Heating Plant**						
		970	Hot Water Meters (Energy)	2	EA	$20,000.00	$40,000		
		971	Retail Tenant Hot Water Meters (BTU)				w/ Retail Tenant Fitout		
V	H150	972	Hot Water Pumps [P-3 & 4] (560 gpm, 15 HP EA)	(2)	EA	$10,000.00	(20,000)		
V	H150	973	Variable Frequency Drive, 480 volt	(2)	EA	$5,000.00	(10,000)		
		974	Hot Water Plate Frame Heat Exchanger [HX-1 & 2]	1	EA	$90,000.00	$90,000		
		975	Glycol Hot Water Pumps [P-5 & 6] (1960 gpm, 100 HP EA)	2	EA	$25,000.00	$50,000		
		976	Variable Frequency Drive, 480 volt	2	EA	$15,000.00	$30,000		
		977	Glycol Feed System	1	EA	$15,000.00	$15,000		
		978	Glycol Storage Vessels [GSV-1 to 4]	4	EA	$2,000.00	$8,000		
		979	Chemical Pot Feeder	1	EA	$5,000.00	$5,000		
		980	Expansion Tanks	1	EA	$5,000.00	$5,000		
		981	Air Separators	1	EA	$5,000.00	$5,000		
		982	Glycol	17,300	GAL	$10.00	$173,000		
		983	Water Treatment System				Not Included		
		984	Filtration System				Not Included		
		985							
		986	**Subtotal: Heating Plant**					$391,000	
		987							
		988							
		989	**Heating Equipment**						
S	H25/H67	990	HW Cabinet Unit Heater w/ Integral Controls (Entrances)	16	EA	$3,500.00	$56,000		
V	H149	991	HW Cabinet Unit Heater w/ Integral Controls (Stair Towers)	(20)	EA	$3,500.00	($70,000)		
		992	Air Curtain w/ HW Coil (Baggage Areas)	12	EA	$7,500.00	$90,000		
S	H24	993	Finned Tube Radiation w/ Standard Enclosure - Al/Cu (Allowance)	2,600	LF	$100.00	$260,000		
S	H24	994	Thermostatic Radiator Control Valve (1 per 25 LF)				Not Required		
			Add Solenoid Valves Tied into BMS	35	EA	$70.00	$2,000		
		995	Gas Fired Infra-Red Heaters (Baggage Areas)	31	EA	$5,000.00	$155,000		
		996	HW Radiant Heating Panels (Concession Areas)	8	EA	$4,000.00	$32,000		
S	H26	997	Horizontal HW Unit Heaters (Loading Dock)				Not Required		
V	H149	998	Horizontal HW Unit Heaters (MER's, Baggage Areas, etc)	34	EA	$1,500.00	$51,000		
		999	ENERGY RECOVERY SYSTEM - pumps ,piping coils, etc						
		1000	Toilet Exhaust System				Not Included		
		1001	General Exhaust System				Not Included		
		1002	Radiant Floor Conditioning System				Not Included		
		1003	Snow Melting System				Not Included		
V	H145		Finned Tube Radiation w/ Standard Enclosure - Al/Cu (Allowance)	(2,800)	LF	100	(280,000)		

Terminal/Concourse Building

Building Area: 639,470 GSF

		Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
V	H145		Glycol Hot Water Piping (Secondary Mains & Branches)						
V	H145		1-1/2" - 4"	(2,550)	LF	75	(191,000)		
V	H145		Piping Insulation	(2,550)	LF	15	(38,000)		
V	H145		Thermostatic Radiator Control Valve (1 per 25 LF) - Hold Rooms	(85)	EA	100	(9,000)		
V	H147		Electric Unit Heaters	20	EA	1500	30,000		
		1004							
		1005	**Subtotal: Heating Equipment**						
		1006						$88,000	
		1007							
		1008	Cooling Plant						
		1009	Main Chilled Water Meters (Energy)	2	EA	$20,000.00	$40,000		
		1010	Retail Tenant Chilled Water Meters (BTU)				w/ Retail Tenant Fitout		
		1011	Chilled Water Pumps [P-1 & 2] (2300 gpm, 100 HP EA)	2	EA	$25,000.00	$50,000		
		1012	Variable Frequency Drive, 480 volt	2	EA	$15,000.00	$30,000		
		1013	Chilled Water Plate Frame Heat Exchanger				Not Included		
		1014	Chilled Water Sand Filtration System				Not Included		
		1015	Water Treatment System				Not Included		
		1016	Filtration System				Not Included		
		1017							
		1018	**Subtotal: Cooling Plant**						
		1019						$120,000	
		1020							
		1021	Piping Distribution						
		1022							
		1023	Hot Water Piping (Mains & Risers)						
		1024	8"	200	LF	$195.00	$39,000		
		1025	Piping Insulation	200	LF	$50.00	$10,000		
		1026	Valving & Misc. specialities	1	LS	$75,000.00	$75,000		
		1027	Glycol Hot Water Piping (Mains & Risers)						
		1028	12"	200	LF	$195.00	$39,000		
		1029	8" - 10"	1,900	LF	$195.00	$371,000		
		1030	6"	2,400	LF	$98.00	$235,000		
		1031	Piping Insulation	4,500	LF	$35.00	$158,000		
		1032	Valving & Misc. specialities	1	LS	$75,000.00	$75,000		
		1033	Glycol Hot Water Piping (Secondary Mains & Branches)						
V	H147/H149	1034	1-1/2" - 4"	9,930	LF	$75.00	$745,000		
		1035							
V	H147/H149		Piping Insulation	9,930	LF	$15.00	$149,000		
		1036	Valved Outlets for Retail Units	50	EA	$500.00	$25,000		
		1037	Valving & Misc. specialities	1	LS	$50,000.00	$50,000		
		1038	Chilled Water Piping (Mains & Risers)						
		1039	16"	300	LF	$275.00	$83,000		
		1040	14"	600	LF	$235.00	$141,000		

JetBlue Terminal 5
JFK Airport New York, New York
60% CD Estimate
April 20, 2005

Terminal/Concourse Building Building Area: 639,470 GSF

		Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
		1041	8" - 12"	3,100	LF	$195.00	$605,000		
		1042	6"	650	LF	$98.00	$64,000		
		1043	Piping Insulation	4,650	LF	$40.00	$186,000		
		1044	Valving & Misc. specialities	1	LS	$150,000.00	$150,000		
		1045	Chilled Water Piping (Secondary Mains & Branches)						
V	H147/H149	1046	1-1/2" - 4"	5,000	LF	$75.00	$375,000		
		1047							
V	H147/H149		Piping Insulation	5,000	LF	$30.00	$150,000		
		1048	Valved Outlets for Retail Units	50	EA	$500.00	$25,000		
		1049	Valving & Misc. specialities	1	LS	$50,000.00	$50,000		
		1050	Gylcol Condenser Water Piping						
		1051	3" - 4"	2,000	LF	$75.00	$150,000		
		1052	Piping Insulation	1,800	LF	$65.00	$117,000		
		1053	Piping Insulation (Foam Glass w/ SS Jacket)	200	LF	$80.00	$16,000		
		1054	Valving & Misc. specialities	1	LS	$50,000.00	$50,000		
		1055	Glycol	1,100	GAL	$10.00	$11,000		
		1056	Condensate Drain Line						
S	H30/H31	1057	1" - 2-1/2" (Allow)	905	LF	$40.00	$36,000		
S	H30/H31	1058	Piping Insulation	905	LF	$12.00	$11,000		
		1059							
		1060	**Subtotal: Piping Distribution**					$4,191,000	
		1061							
		1062							
		1063	**Air Distribution**						
		1064							
		1065	Air Handling Unit [AHU-1] [Departures]	29,995	CFM	$5.00	$150,000		
		1066	Supply Fan				Included		
		1067	Variable Frequency Drive (75 HP)	1	EA	$15,000.00	$15,000		
		1068	Air to Air Heat Exchanger				Not Included		
		1069	Copper Tube/Aluminum Fins				Included		
		1070	Hot Water Pre-Heating Coil				Not Included		
		1071	Hot Water Heating Coil				Included		
		1072	Chilled Water Cooling Coil				Included		
		1073	Pre & Final Filters				Included		
		1074	Carbon Filters				Not Included		
		1966	Sound Traps	59,990	CFM	$0.25	$15,000		
		1076	Humidification				Not Included		
		1077	Return Fan	59,990	CFM	$0.75	$45,000		
		1078	Variable Frequency Drive (60 HP)	1	EA	$15,000.00	$15,000		
		1079	Galvanized Ductwork	44,800	LBS	$8.50	$381,000		
		1080	Acoustic Lining & Thermal Insulation	18,200	SF	$3.50	$64,000		
		1081	Volume Dampers				Included		
		1082	VAV Boxes	0	EA	$1,500.00	$0		

Terminal/Concourse Building — Building Area: 639,470 GSF

	Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
	1083	Reheat Coils	6	EA	$1,500.00	$9,000		
	1084	Air Flow Measuring Station	6	EA	$500.00	$3,000		
	1085	Motorized Dampers	36	SF	$95.00	$3,000		
	1086	Fire Smoke Dampers	0	SF	$350.00	$0		
	1087	Fire Dampers	73	SF	$120.00	$9,000		
	1088	Grilles Registers & Diffusers	26	EA	$175.00	$5,000		
	1089	Jet Nozzle Diffusers	0	EA	$200.00	$0		
	1090	Linear Diffusers	412	LF	$100.00	$41,000		
	1091							
	1092	Air Handling Unit [AHU-2] [Arrivals]	13,000	CFM	$5.00	$65,000		
	1093	Supply Fan				Included		
	1094	Variable Frequency Drive (30 HP)	1	EA	$7,500.00	$8,000		
	1095	Air to Air Heat Exchanger				Not Included		
	1096	Copper Tube/Aluminum Fins				Included		
	1097	Hot Water Pre-Heating Coil				Not Included		
	1098	Hot Water Heating Coil				Included		
	1099	Chilled Water Cooling Coil				Included		
	1100	Pre & Final Filters				Included		
	1101	Carbon Filters				Not Included		
	1966	Sound Traps	26,000	CFM	$0.25	$7,000		
	1103	Humidification				Not Included		
	1104	Return Fan	30,000	CFM	$0.75	$23,000		
	1105	Variable Frequency Drive (40 HP)	1	EA	$10,000.00	$10,000		
	1106	Galvanized Ductwork	19,100	LBS	$8.50	$162,000		
	1107	Acoustic Lining & Thermal Insulation	8,900	SF	$3.50	$31,000		
	1108	Volume Dampers				Included		
	1109	VAV Boxes	20	EA	$1,500.00	$30,000		
S	H32	Add HW Coils for VAV Boxes	20	EA	$1,000.00	$20,000		
	1110	Reheat Coils	0	EA	$1,500.00	$0		
	1111	Air Flow Measuring Station	0	EA	$500.00	$0		
	1112	Motorized Dampers	0	SF	$95.00	$0		
S	H34	1113 Fire Smoke Dampers				w/ Below		
	1114	Fire Dampers	32	SF	$120.00	$4,000		
	1115	Grilles Registers & Diffusers	52	EA	$175.00	$9,000		
	1116	Jet Nozzle Diffusers	0	EA	$200.00	$0		
	1117	Linear Diffusers	0	LF	$100.00	$0		
	1118							
	1119	Air Handling Unit [AHU-3] [Departures]	16,000	CFM	$5.00	$80,000		
	1120	Supply Fan				Included		
	1121	Variable Frequency Drive (40 HP)	1	EA	$10,000.00	$10,000		
	1122	Air to Air Heat Exchanger				Not Included		
	1123	Copper Tube/Aluminum Fins				Included		
	1124	Hot Water Pre-Heating Coil				Not Included		

Terminal/Concourse Building

Building Area: 639,470 GSF

Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
1125	Hot Water Heating Coil				Included		
1126	Chilled Water Cooling Coil				Included		
1127	Pre & Final Filters				Included		
1128	Carbon Filters				Not Included		
1966	Sound Traps	32,000	CFM	$0.25	$8,000		
1130	Humidification				Not Included		
1131	Return Fan	50,000	CFM	$0.75	$38,000		
1132	Variable Frequency Drive (50 HP)	1	EA	$10,000.00	$10,000		
1133	Galvanized Ductwork	34,200	LBS	$8.50	$291,000		
1134	Acoustic Lining & Thermal Insulation	14,200	SF	$3.50	$50,000		
1135	Volume Dampers				Included		
1136	VAV Boxes	0	EA	$1,500.00	$0		
1137	Reheat Coils	4	EA	$1,500.00	$6,000		
1138	Air Flow Measuring Station	4	EA	$500.00	$2,000		
1139	Motorized Dampers	19	SF	$95.00	$2,000		
1140	Fire Smoke Dampers	0	SF	$350.00	$0		
1141	Fire Dampers	39	SF	$120.00	$5,000		
1142	Grilles Registers & Diffusers	37	EA	$175.00	$6,000		
1143	Jet Nozzle Diffusers	0	EA	$200.00	$0		
1144	Linear Diffusers	492	LF	$100.00	$49,000		
1145							
1146	Air Handling Unit [AHU-4] [Departures]	29,995	CFM	$5.00	$150,000		
1147	Supply Fan				Included		
1148	Variable Frequency Drive (75 HP)	1	EA	$15,000.00	$15,000		
1149	Air to Air Heat Exchanger				Not Included		
1150	Copper Tube/Aluminum Fins				Included		
1151	Hot Water Pre-Heating Coil				Not Included		
1152	Hot Water Heating Coil				Included		
1153	Chilled Water Cooling Coil				Included		
1154	Pre & Final Filters				Included		
1155	Carbon Filters				Not Included		
1966	Sound Traps	59,990	CFM	$0.25	$15,000		
1157	Humidification				Not Included		
1158	Return Fan	59,990	CFM	$0.75	$45,000		
1159	Variable Frequency Drive (60 HP)	1	EA	$15,000.00	$15,000		
1160	Galvanized Ductwork	45,500	LBS	$8.50	$387,000		
1161	Acoustic Lining & Thermal Insulation	18,000	SF	$3.50	$63,000		
1162	Volume Dampers				Included		
1163	VAV Boxes	0	EA	$1,500.00	$0		
1164	Reheat Coils	4	EA	$1,500.00	$6,000		
1165	Air Flow Measuring Station	4	EA	$500.00	$2,000		
1166	Motorized Dampers	36	SF	$95.00	$3,000		
1167	Fire Smoke Dampers	0	SF	$350.00	$0		

Terminal/Concourse Building

Building Area: 639,470 GSF

Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
1168	Fire Dampers	73	SF	$120.00	$9,000		
1169	Grilles Registers & Diffusers	45	EA	$175.00	$8,000		
1170	Jet Nozzle Diffusers	0	EA	$200.00	$0		
1171	Linear Diffusers	500	LF	$100.00	$50,000		
1172							
1173	Air Handling Unit [AHU-5] [Departures]	23,000	CFM	$5.00	$115,000		
1174	Supply Fan				Included		
1175	Variable Frequency Drive (50 HP)	1	EA	$10,000.00	$10,000		
1176	Air to Air Heat Exchanger				Not Included		
1177	Copper Tube/Aluminum Fins				Included		
1178	Hot Water Pre-Heating Coil				Not Included		
1179	Hot Water Heating Coil				Included		
1180	Chilled Water Cooling Coil				Included		
1181	Pre & Final Filters				Included		
1182	Carbon Filters				Not Included		
1966	Sound Traps	46,000	CFM	$0.25	$12,000		
1184	Humidification				Not Included		
1185	Return Fan	50,000	CFM	$0.75	$38,000		
1186	Variable Frequency Drive (50 HP)	1	EA	$10,000.00	$10,000		
1187	Galvanized Ductwork	58,500	LBS	$8.50	$497,000		
1188	Acoustic Lining & Thermal Insulation	23,200	SF	$3.50	$81,000		
1189	Volume Dampers				Included		
1190	VAV Boxes	0	EA	$1,500.00	$0		
1191	Reheat Coils	4	EA	$1,500.00	$6,000		
1192	Air Flow Measuring Station	4	EA	$500.00	$2,000		
1193	Motorized Dampers	28	SF	$95.00	$3,000		
1194	Fire Smoke Dampers	0	SF	$350.00	$0		
1195	Fire Dampers	56	SF	$120.00	$7,000		
1196	Grilles Registers & Diffusers	4	EA	$175.00	$1,000		
1197	Jet Nozzle Diffusers	0	EA	$200.00	$0		
1198	Linear Diffusers	632	LF	$100.00	$63,000		
1199							
1200	Air Handling Unit [AHU-6] [Departures]	25,000	CFM	$5.00	$125,000		
1201	Supply Fan				Included		
1202	Variable Frequency Drive (60 HP)	1	EA	$15,000.00	$15,000		
1203	Air to Air Heat Exchanger				Not Included		
1204	Copper Tube/Aluminum Fins				Included		
1205	Hot Water Pre-Heating Coil				Not Included		
1206	Hot Water Heating Coil				Included		
1207	Chilled Water Cooling Coil				Included		
1208	Pre & Final Filters				Included		
1209	Carbon Filters				Not Included		
1966	Sound Traps	50,000	CFM	$0.25	$13,000		

Terminal/Concourse Building Building Area: 639,470 GSF

Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
1211	Humidification				Not Included		
1212	Return Fan	50,000	CFM	$0.75	$38,000		
1213	Variable Frequency Drive (50 HP)	1	EA	$10,000.00	$10,000		
1214	Galvanized Ductwork	38,800	LBS	$8.50	$330,000		
1215	Acoustic Lining & Thermal Insulation	15,800	SF	$3.50	$55,000		
1216	Volume Dampers				Included		
1217	VAV Boxes	0	EA	$1,500.00	$0		
1218	Reheat Coils	4	EA	$1,500.00	$6,000		
1219	Air Flow Measuring Station	4	EA	$500.00	$2,000		
1220	Motorized Dampers	30	SF	$95.00	$3,000		
1221	Fire Smoke Dampers	0	SF	$350.00	$0		
1222	Fire Dampers	61	SF	$120.00	$7,000		
1223	Grilles Registers & Diffusers	2	EA	$175.00	$0		
1224	Jet Nozzle Diffusers	0	EA	$200.00	$0		
1225	Linear Diffusers	444	LF	$100.00	$44,000		
1226							
1227	Air Handling Unit [AHU-7] [Departures]	24,000	CFM	$5.00	$120,000		
1228	Supply Fan				Included		
1229	Variable Frequency Drive (60 HP)	1	EA	$15,000.00	$15,000		
1230	Air to Air Heat Exchanger				Not Included		
1231	Copper Tube/Aluminum Fins				Included		
1232	Hot Water Pre-Heating Coil				Not Included		
1233	Hot Water Heating Coil				Included		
1234	Chilled Water Cooling Coil				Included		
1235	Pre & Final Filters				Included		
1236	Carbon Filters				Not Included		
1966	Sound Traps	48,000	CFM	$0.25	$12,000		
1238	Humidification				Not Included		
1239	Return Fan	48,200	CFM	$0.75	$36,000		
1240	Variable Frequency Drive (50 HP)	1	EA	$10,000.00	$10,000		
1241	Galvanized Ductwork	39,000	LBS	$8.50	$332,000		
1242	Acoustic Lining & Thermal Insulation	15,500	SF	$3.50	$54,000		
1243	Volume Dampers				Included		
1244	VAV Boxes	0	EA	$1,500.00	$0		
1245	Reheat Coils	1	EA	$1,500.00	$2,000		
1246	Air Flow Measuring Station	1	EA	$500.00	$1,000		
1247	Motorized Dampers	29	SF	$95.00	$3,000		
1248	Fire Smoke Dampers	0	SF	$350.00	$0		
1249	Fire Dampers	58	SF	$120.00	$7,000		
1250	Grilles Registers & Diffusers	2	EA	$175.00	$0		
1251	Jet Nozzle Diffusers	0	EA	$200.00	$0		
1252	Linear Diffusers	364	LF	$100.00	$36,000		

Terminal/Concourse Building Building Area: 639,470 GSF

Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
1253							
1254	Air Handling Unit [AHU-8] [Departures]	15,000	CFM	$5.00	$75,000		
1255	Supply Fan				Included		
1256	Variable Frequency Drive (40 HP)	1	EA	$10,000.00	$10,000		
1257	Air to Air Heat Exchanger				Not Included		
1258	Copper Tube/Aluminum Fins				Included		
1259	Hot Water Pre-Heating Coil				Not Included		
1260	Hot Water Heating Coil				Included		
1261	Chilled Water Cooling Coil				Included		
1262	Pre & Final Filters				Included		
1263	Carbon Filters				Not Included		
1966	Sound Traps	30,000	CFM	$0.25	$8,000		
1265	Humidification				Not Included		
1266	Return Fan	28,400	CFM	$0.75	$21,000		
1267	Variable Frequency Drive (30 HP)	1	EA	$7,500.00	$8,000		
1268	Galvanized Ductwork	31,700	LBS	$8.50	$269,000		
1269	Acoustic Lining & Thermal Insulation	12,800	SF	$3.50	$45,000		
1270	Volume Dampers				Included		
1271	VAV Boxes	0	EA	$1,500.00	$0		
1272	Reheat Coils	4	EA	$1,500.00	$6,000		
1273	Air Flow Measuring Station	4	EA	$500.00	$2,000		
1274	Motorized Dampers	18	SF	$95.00	$2,000		
1275	Fire Smoke Dampers	0	SF	$350.00	$0		
1276	Fire Dampers	36	SF	$120.00	$4,000		
1277	Grilles Registers & Diffusers	0	EA	$175.00	$0		
1278	Jet Nozzle Diffusers	0	EA	$200.00	$0		
1279	Linear Diffusers	274	LF	$100.00	$27,000		
1280							
1281	Air Handling Unit [AHU-9] [Arrivals]	22,000	CFM	$5.00	$110,000		
1282	Supply Fan				Included		
1283	Variable Frequency Drive (50 HP)	1	EA	$10,000.00	$10,000		
1284	Air to Air Heat Exchanger				Not Included		
1285	Copper Tube/Aluminum Fins				Included		
1286	Hot Water Pre-Heating Coil				Not Included		
1287	Hot Water Heating Coil				Included		
1288	Chilled Water Cooling Coil				Included		
1289	Pre & Final Filters				Included		
1290	Carbon Filters				Not Included		
1966	Sound Traps	44,000	CFM	$0.25	$11,000		
1292	Humidification				Not Included		
1293	Return Fan	41,600	CFM	$0.75	$31,000		
1294	Variable Frequency Drive (50 HP)	1	EA	$10,000.00	$10,000		
1295	Galvanized Ductwork	35,900	LBS	$8.50	$305,000		

Terminal/Concourse Building

Building Area: 639,470 GSF

	Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
		1296 Acoustic Lining & Thermal Insulation	15,500	SF	$3.50	$54,000		
		1297 Volume Dampers				Included		
		1298 VAV Boxes	0	EA	$1,500.00	$0		
		1299 Reheat Coils	0	EA	$1,500.00	$0		
		1300 Air Flow Measuring Station	0	EA	$500.00	$0		
		1301 Motorized Dampers	0	SF	$95.00	$0		
S	H34	1302 Fire Smoke Dampers				w/ Below		
		1303 Fire Dampers	53	SF	$120.00	$6,000		
		1304 Grilles Registers & Diffusers	32	EA	$175.00	$6,000		
		1305 Jet Nozzle Diffusers	0	EA	$200.00	$0		
		1306 Linear Diffusers	0	LF	$100.00	$0		
		1307						
		1308 Air Handling Unit [AHU-10] [Arrivals]	18,000	CFM	$5.00	$90,000		
		1309 Supply Fan				Included		
		1310 Variable Frequency Drive (40 HP)	1	EA	$10,000.00	$10,000		
		1311 Air to Air Heat Exchanger				Not Included		
		1312 Copper Tube/Aluminum Fins				Included		
		1313 Hot Water Pre-Heating Coil				Not Included		
		1314 Hot Water Heating Coil				Included		
		1315 Chilled Water Cooling Coil				Included		
		1316 Pre & Final Filters				Included		
		1317 Carbon Filters				Not Included		
		1966 Sound Traps	36,000	CFM	$0.25	$9,000		
		1319 Humidification				Not Included		
		1320 Return Fan	24,600	CFM	$0.75	$18,000		
		1321 Variable Frequency Drive (30 HP)	1	EA	$7,500.00	$8,000		
		1322 Galvanized Ductwork	28,000	LBS	$8.50	$238,000		
		1323 Acoustic Lining & Thermal Insulation	14,900	SF	$3.50	$52,000		
		1324 Volume Dampers				Included		
		1325 VAV Boxes	15	EA	$1,500.00	$23,000		
S	H32	Add HW Coils for VAV Boxes	15	EA	$1,000.00	$15,000		
		1326 Reheat Coils	0	EA	$1,500.00	$0		
		1327 Air Flow Measuring Station	0	EA	$500.00	$0		
		1328 Motorized Dampers	0	SF	$95.00	$0		
S	H34	1329 Fire Smoke Dampers				w/ Below		
		1330 Fire Dampers	44	SF	$120.00	$5,000		
		1331 Grilles Registers & Diffusers	72	EA	$175.00	$13,000		
		1332 Jet Nozzle Diffusers	0	EA	$200.00	$0		
		1333 Linear Diffusers	0	LF	$100.00	$0		
		1334						
		1335 Air Handling Unit [AHU-11] [Departures]	12,000	CFM	$5.00	$60,000		
		1336 Supply Fan				Included		

Terminal/Concourse Building — **Building Area:** 639,470 GSF

		Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
		1337	Variable Frequency Drive (30 HP)	1	EA	$7,500.00	$8,000		
		1338	Air to Air Heat Exchanger				Not Included		
		1339	Copper Tube/Aluminum Fins				Included		
		1340	Hot Water Pre-Heating Coil				Not Included		
		1341	Hot Water Heating Coil				Included		
		1342	Chilled Water Cooling Coil				Included		
		1343	Pre & Final Filters				Included		
		1344	Carbon Filters				Not Included		
		1345	Sound Traps	24,000	CFM	$0.25	$6,000		
		1346	Humidification				Not Included		
		1347	Return Fan	19,400	CFM	$0.75	$15,000		
		1348	Variable Frequency Drive (25 HP)	1	EA	$7,500.00	$8,000		
		1349	Galvanized Ductwork	17,600	LBS	$8.50	$150,000		
		1350	Acoustic Lining & Thermal Insulation	11,733	SF	$3.50	$41,000		
		1351	Volume Dampers				Included		
		1352	VAV Boxes	14	EA	$1,500.00	$21,000		
S	H32		Add HW Coils for VAV Boxes	14	EA	$1,000.00	$14,000		
		1353	Reheat Coils	0	EA	$1,500.00	$0		
		1354	Air Flow Measuring Station	0	EA	$500.00	$0		
		1355	Motorized Dampers	0	SF	$95.00	$0		
		1356	Fire Smoke Dampers	0	SF	$350.00	$0		
		1357	Fire Dampers	29	SF	$120.00	$3,000		
		1358	Grilles Registers & Diffusers	48	EA	$175.00	$8,000		
		1359	Jet Nozzle Diffusers	0	EA	$200.00	$0		
		1360	Linear Diffusers	0	LF	$100.00	$0		
		1361							
		1362	Air Handling Unit [AHU-12] [Arrivals]	20,000	CFM	$5.00	$100,000		
		1363	Supply Fan				Included		
		1364	Variable Frequency Drive (50 HP)	1	EA	$10,000.00	$10,000		
		1365	Air to Air Heat Exchanger				Not Included		
		1366	Copper Tube/Aluminum Fins				Included		
		1367	Hot Water Pre-Heating Coil				Not Included		
		1368	Hot Water Heating Coil				Included		
		1369	Chilled Water Cooling Coil				Included		
		1370	Pre & Final Filters				Included		
		1371	Carbon Filters				Not Included		
		1966	Sound Traps	40,000	CFM	$0.25	$10,000		
		1373	Humidification				Not Included		
		1374	Return Fan	36,200	CFM	$0.75	$27,000		
		1375	Variable Frequency Drive (40 HP)	1	EA	$10,000.00	$10,000		
		1376	Galvanized Ductwork	41,000	LBS	$8.50	$349,000		
		1377	Acoustic Lining & Thermal Insulation	17,200	SF	$3.50	$60,000		
		1378	Volume Dampers				Included		

Terminal/Concourse Building

Building Area: 639,470 GSF

	Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
	1379	VAV Boxes	0	EA	$1,500.00	$0		
	1380	Reheat Coils	0	EA	$1,500.00	$0		
	1381	Air Flow Measuring Station	0	EA	$500.00	$0		
	1382	Motorized Dampers	0	SF	$95.00	$0		
S	H34	1383 Fire Smoke Dampers				w/ Below		
	1384	Fire Dampers	48	SF	$120.00	$6,000		
	1385	Grilles Registers & Diffusers	0	EA	$175.00	$0		
	1386	Jet Nozzle Diffusers	0	EA	$200.00	$0		
	1387	Linear Diffusers	252	LF	$100.00	$25,000		
	1388							
	1389	Air Handling Unit [AHU-13] [Departures]	22,000	CFM	$5.00	$110,000		
	1390	Supply Fan				Included		
	1391	Variable Frequency Drive (50 HP)	1	EA	$10,000.00	$10,000		
	1392	Air to Air Heat Exchanger				Not Included		
	1393	Copper Tube/Aluminum Fins				Included		
	1394	Hot Water Pre-Heating Coil				Not Included		
	1395	Hot Water Heating Coil				Included		
	1396	Chilled Water Cooling Coil				Included		
	1397	Pre & Final Filters				Included		
	1398	Carbon Filters				Not Included		
	1966	Sound Traps	44,000	CFM	$0.25	$11,000		
	1400	Humidification				Not Included		
	1401	Return Fan	42,800	CFM	$0.75	$32,000		
	1402	Variable Frequency Drive (50 HP)	1	EA	$10,000.00	$10,000		
	1403	Galvanized Ductwork	34,500	LBS	$8.50	$293,000		
	1404	Acoustic Lining & Thermal Insulation	13,800	SF	$3.50	$48,000		
	1405	Volume Dampers				Included		
	1406	VAV Boxes	0	EA	$1,500.00	$0		
	1407	Reheat Coils	4	EA	$1,500.00	$6,000		
	1408	Air Flow Measuring Station	4	EA	$500.00	$2,000		
	1409	Motorized Dampers	27	SF	$95.00	$3,000		
	1410	Fire Smoke Dampers	0	SF	$350.00	$0		
	1411	Fire Dampers	53	SF	$120.00	$6,000		
	1412	Grilles Registers & Diffusers	0	EA	$175.00	$0		
	1413	Jet Nozzle Diffusers	10	EA	$200.00	$2,000		
	1414	Linear Diffusers	348	LF	$100.00	$35,000		
	1415							
	1416	Air Handling Unit [AHU-14] [Departures]	20,000	CFM	$5.00	$100,000		
	1417	Supply Fan				Included		
	1418	Variable Frequency Drive (50 HP)	1	EA	$10,000.00	$10,000		
	1419	Air to Air Heat Exchanger				Not Included		
	1420	Copper Tube/Aluminum Fins				Included		
	1421	Hot Water Pre-Heating Coil				Not Included		

Terminal/Concourse Building Building Area: 639,470 GSF

Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
1422	Hot Water Heating Coil				Included		
1423	Chilled Water Cooling Coil				Included		
1424	Pre & Final Filters				Included		
1425	Carbon Filters				Included		
1966	Sound Traps				Not Included		
1427	Humidification	40,000	CFM	$0.25	$10,000		
1428	Return Fan				Not Included		
1429	Variable Frequency Drive (60 HP)	59,990	CFM	$0.75	$45,000		
1430	Galvanized Ductwork	1	EA	$15,000.00	$15,000		
1431	Acoustic Lining & Thermal Insulation	31,100	LBS	$8.50	$264,000		
1432	Volume Dampers	13,200	SF	$3.50	$46,000		
1433	VAV Boxes				Included		
1434	Reheat Coils	0	EA	$1,500.00	$0		
1435	Air Flow Measuring Station	0	EA	$1,500.00	$0		
1436	Motorized Dampers	0	EA	$500.00	$0		
1437	Fire Smoke Dampers	0	SF	$95.00	$0		
1438	Fire Dampers	0	SF	$350.00	$0		
1439	Grilles Registers & Diffusers	48	SF	$120.00	$6,000		
1440	Jet Nozzle Diffusers	0	EA	$175.00	$0		
1441	Linear Diffusers	31	EA	$200.00	$6,000		
1442		108	LF	$100.00	$11,000		
1443	Air Handling Unit [AHU-15] [Arrivals]	29,995	CFM	$5.00	$150,000		
1444	Supply Fan				Included		
1445	Variable Frequency Drive (75 HP)	1	EA	$15,000.00	$15,000		
1446	Air to Air Heat Exchanger				Not Included		
1447	Copper Tube/Aluminum Fins				Included		
1448	Hot Water Pre-Heating Coil				Not Included		
1449	Hot Water Heating Coil				Included		
1450	Chilled Water Cooling Coil				Included		
1451	Pre & Final Filters				Included		
1452	Carbon Filters				Not Included		
1966	Sound Traps	59,990	CFM	$0.25	$15,000		
1454	Humidification				Not Included		
1455	Return Fan	59,990	CFM	$0.75	$45,000		
1456	Variable Frequency Drive (60 HP)	1	EA	$15,000.00	$15,000		
1457	Galvanized Ductwork	35,900	LBS	$8.50	$305,000		
1458	Acoustic Lining & Thermal Insulation	15,500	SF	$3.50	$54,000		
1459	Volume Dampers				Included		
1460	VAV Boxes	15	EA	$1,500.00	$23,000		
S H32	Add HW Coils for VAV Boxes	15	EA	$1,000.00	$15,000		
1461	Reheat Coils	0	EA	$1,500.00	$0		
1462	Air Flow Measuring Station	0	EA	$500.00	$0		
1463	Motorized Dampers	0	SF	$95.00	$0		

Terminal/Concourse Building Building Area: 639,470 GSF

		Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
S	H34	1464	*Fire Smoke Dampers*				w/ Below		
		1465	Fire Dampers	73	SF	$120.00	$9,000		
		1466	Grilles Registers & Diffusers	120	EA	$175.00	$21,000		
		1467	Jet Nozzle Diffusers	0	EA	$200.00	$0		
		1468	Linear Diffusers	0	LF	$100.00	$0		
		1469							
		1470	Air Handling Unit [AHU-16] [Arrivals]	23,000	CFM	$5.00	$115,000		
		1471	Supply Fan				Included		
		1472	Variable Frequency Drive (50 HP)	1	EA	$10,000.00	$10,000		
		1473	Air to Air Heat Exchanger				Not Included		
		1474	*Copper Tube/Aluminum Fins*				Included		
		1475	Hot Water Pre-Heating Coil				Not Included		
		1476	Hot Water Heating Coil				Included		
		1477	Chilled Water Cooling Coil				Included		
		1478	Pre & Final Filters				Included		
		1479	Carbon Filters				Not Included		
		1966	Sound Traps	46,000	CFM	$0.25	$12,000		
		1481	*Humidification*				Not Included		
		1482	Return Fan	38,400	CFM	$0.75	$29,000		
		1483	Variable Frequency Drive (40 HP)	1	EA	$10,000.00	$10,000		
		1484	Galvanized Ductwork	35,000	LBS	$8.50	$298,000		
		1485	Acoustic Lining & Thermal Insulation	23,300	SF	$3.50	$82,000		
		1486	Volume Dampers				Included		
		1487	VAV Boxes	16	EA	$1,500.00	$24,000		
S	H32		Add HW Coils for VAV Boxes	16	EA	$1,000.00	$16,000		
		1488	Reheat Coils	0	EA	$1,500.00	$0		
		1489	Air Flow Measuring Station	0	EA	$500.00	$0		
		1490	Motorized Dampers	0	SF	$95.00	$0		
S	H34	1491	Fire Smoke Dampers				w/ Below		
		1492	Fire Dampers	56	SF	$120.00	$7,000		
		1493	Grilles Registers & Diffusers	92	EA	$175.00	$16,000		
		1494	Jet Nozzle Diffusers	0	EA	$200.00	$0		
		1495	Linear Diffusers	0	LF	$100.00	$0		
		1496							
		1497	Air Handling Unit [AHU-17] [Departures]	24,000	CFM	$5.00	$120,000		
		1498	Supply Fan				Included		
		1499	Variable Frequency Drive (60 HP)	1	EA	$15,000.00	$15,000		
		1500	Air to Air Heat Exchanger				Not Included		
		1501	Copper Tube/Aluminum Fins				Included		
		1502	Hot Water Pre-Heating Coil				Not Included		
		1503	Hot Water Heating Coil				Included		
		1504	Chilled Water Cooling Coil				Included		
		1505	Pre & Final Filters				Included		

Terminal/Concourse Building — Building Area: 639,470 GSF

Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
1506	Carbon Filters				Not Included		
1966	Sound Traps	48,000	CFM	$0.25	$12,000		
1508	Humidification				Not Included		
1509	Return Fan	40,000	CFM	$0.75	$30,000		
1510	Variable Frequency Drive (40 HP)	1	EA	$10,000.00	$10,000		
1511	Galvanized Ductwork	14,200	LBS	$8.50	$121,000		
1512	Acoustic Lining & Thermal Insulation	6,200	SF	$3.50	$22,000		
1513	Volume Dampers				Included		
1514	VAV Boxes	0	EA	$1,500.00	$0		
1515	Reheat Coils	0	EA	$1,500.00	$0		
1516	Air Flow Measuring Station	0	EA	$500.00	$0		
1517	Motorized Dampers	0	SF	$95.00	$0		
1518	Fire Smoke Dampers	0	SF	$350.00	$0		
1519	Fire Dampers	58	SF	$120.00	$7,000		
1520	Grilles Registers & Diffusers	31	EA	$175.00	$5,000		
1521	Jet Nozzle Diffusers	0	EA	$200.00	$0		
1522	Linear Diffusers	0	LF	$100.00	$0		
1523							
1524	Air Handling Unit [AHU-18] [Arrivals]	29,995	CFM	$5.00	$150,000		
1525	Supply Fan				Included		
1526	Variable Frequency Drive (75 HP)	1	EA	$15,000.00	$15,000		
1527	Air to Air Heat Exchanger				Not Included		
1528	Copper Tube/Aluminum Fins				Included		
1529	Hot Water Pre-Heating Coil				Not Included		
1530	Hot Water Heating Coil				Included		
1531	Chilled Water Cooling Coil				Included		
1532	Pre & Final Filters				Included		
1533	Carbon Filters				Not Included		
1966	Sound Traps	59,990	CFM	$0.25	$15,000		
1535	Humidification				Not Included		
1536	Return Fan	59,990	CFM	$0.75	$45,000		
1537	Variable Frequency Drive (60 HP)	1	EA	$15,000.00	$15,000		
1538	Galvanized Ductwork	23,800	LBS	$8.50	$202,000		
1539	Acoustic Lining & Thermal Insulation	9,100	SF	$3.50	$32,000		
1540	Volume Dampers				Included		
1541	VAV Boxes	0	EA	$1,500.00	$0		
1542	Reheat Coils	0	EA	$1,500.00	$0		
1543	Air Flow Measuring Station	0	EA	$500.00	$0		
1544	Motorized Dampers	0	SF	$95.00	$0		
S H34	1545 Fire Smoke Dampers				w/ Below		
1546	Fire Dampers	73	SF	$120.00	$9,000		
1547	Grilles Registers & Diffusers	11	EA	$175.00	$2,000		

Terminal/Concourse Building Building Area: 639,470 GSF

	Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
	1548	Jet Nozzle Diffusers	0	EA	$200.00	$0		
	1549	Linear Diffusers	0	LF	$100.00	$0		
	1550							
	1551	Air Handling Unit [AHU-19] [Arrivals]	21,000	CFM	$5.00	$105,000		
	1552	Supply Fan				Included		
	1553	Variable Frequency Drive (50 HP)	1	EA	$10,000.00	$10,000		
	1554	Air to Air Heat Exchanger				Not Included		
	1555	Copper Tube/Aluminum Fins				Included		
	1556	Hot Water Pre-Heating Coil				Not Included		
	1557	Hot Water Heating Coil				Included		
	1558	Chilled Water Cooling Coil				Included		
	1559	Pre & Final Filters				Included		
	1560	Carbon Filters				Not Included		
	1966	Sound Traps	42,000	CFM	$0.25	$11,000		
	1562	Humidification				Not Included		
	1563	Return Fan	52,200	CFM	$0.75	$39,000		
	1564	Variable Frequency Drive (60 HP)	1	EA	$15,000.00	$15,000		
	1565	Galvanized Ductwork	32,200	LBS	$8.50	$274,000		
	1566	Acoustic Lining & Thermal Insulation	12,700	SF	$3.50	$44,000		
	1567	Volume Dampers				Included		
	1568	VAV Boxes	0	EA	$1,500.00	$0		
	1569	Reheat Coils	0	EA	$1,500.00	$0		
	1570	Air Flow Measuring Station	0	EA	$500.00	$0		
	1571	Motorized Dampers	18	SF	$95.00	$2,000		
S	H34	1572 Fire Smoke Dampers				w/ Below		
	1573	Fire Dampers	51	SF	$120.00	$6,000		
	1574	Grilles Registers & Diffusers	29	EA	$175.00	$5,000		
	1575	Jet Nozzle Diffusers	0	EA	$200.00	$0		
	1576	Linear Diffusers	0	LF	$100.00	$0		
	1577							
	1578	Air Handling Unit [AHU-20] [Departures]	27,000	CFM	$5.00	$135,000		
	1579	Supply Fan				Included		
	1580	Variable Frequency Drive (60 HP)	1	EA	$15,000.00	$15,000		
	1581	Air to Air Heat Exchanger				Not Included		
	1582	Copper Tube/Aluminum Fins				Included		
	1583	Hot Water Pre-Heating Coil				Not Included		
	1584	Hot Water Heating Coil				Included		
	1585	Chilled Water Cooling Coil				Included		
	1586	Pre & Final Filters				Included		
	1587	Carbon Filters				Not Included		
	1966	Sound Traps	54,000	CFM	$0.25	$14,000		
	1589	Humidification				Not Included		
	1590	Return Fan	59,990	CFM	$0.75	$45,000		

Terminal/Concourse Building Building Area: 639,470 GSF

Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
1591	Variable Frequency Drive (60 HP)	1	EA	$15,000.00	$15,000		
1592	Galvanized Ductwork	25,600	LBS	$8.50	$218,000		
1593	Acoustic Lining & Thermal Insulation	12,100	SF	$3.50	$42,000		
1594	Volume Dampers				Included		
1595	VAV Boxes	0	EA	$1,500.00	$0		
1596	Reheat Coils	0	EA	$1,500.00	$0		
1597	Air Flow Measuring Station	0	EA	$500.00	$0		
1598	Motorized Dampers	0	SF	$95.00	$0		
1599	Fire Smoke Dampers	0	SF	$350.00	$0		
1600	Fire Dampers	65	SF	$120.00	$8,000		
1601	Grilles Registers & Diffusers	53	EA	$175.00	$9,000		
1602	Jet Nozzle Diffusers	0	EA	$200.00	$0		
1603	Linear Diffusers	0	LF	$100.00	$0		
1604							
1605	Air Handling Unit [AHU-21] [Departures]	15,000	CFM	$5.00	$75,000		
1606	Supply Fan				Included		
1607	Variable Frequency Drive (40 HP)	1	EA	$10,000.00	$10,000		
1608	Air to Air Heat Exchanger				Not Included		
1609	Copper Tube/Aluminum Fins				Included		
1610	Hot Water Pre-Heating Coil				Not Included		
1611	Hot Water Heating Coil				Included		
1612	Chilled Water Cooling Coil				Included		
1613	Pre & Final Filters				Included		
1614	Carbon Filters				Not Included		
1966	Sound Traps	30,000	CFM	$0.25	$8,000		
1616	Humidification				Not Included		
1617	Return Fan	28,000	CFM	$0.75	$21,000		
1618	Variable Frequency Drive (30 HP)	1	EA	$10,000.00	$10,000		
1619	Galvanized Ductwork	22,900	LBS	$8.50	$195,000		
1620	Acoustic Lining & Thermal Insulation	8,600	SF	$3.50	$30,000		
1621	Volume Dampers				Included		
1622	VAV Boxes	0	EA	$1,500.00	$0		
1623	Reheat Coils	0	EA	$1,500.00	$0		
1624	Air Flow Measuring Station	0	EA	$500.00	$0		
1625	Motorized Dampers	0	SF	$95.00	$0		
1626	Fire Smoke Dampers	0	SF	$350.00	$0		
1627	Fire Dampers	36	SF	$120.00	$4,000		
1628	Grilles Registers & Diffusers	0	EA	$175.00	$0		
1629	Jet Nozzle Diffusers	18	EA	$200.00	$4,000		
1630	Linear Diffusers	0	LF	$100.00	$0		
1631							
1632	Air Handling Unit [AHU-22] [Departures]	14,000	CFM	$5.00	$70,000		

Terminal/Concourse Building

Building Area: 639,470 GSF

Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
1633	Supply Fan				Included		
1634	Variable Frequency Drive (40 HP)	1	EA	$10,000.00	$10,000		
1635	Air to Air Heat Exchanger				Not Included		
1636	Copper Tube/Aluminum Fins				Included		
1637	Hot Water Pre-Heating Coil				Not Included		
1638	Hot Water Heating Coil				Included		
1639	Chilled Water Cooling Coil				Included		
1640	Pre & Final Filters				Included		
1641	Carbon Filters				Not Included		
1966	Sound Traps	28,000	CFM	$0.25	$7,000		
1643	Humidification				Not Included		
1644	Return Fan	27,400	CFM	$0.75	$21,000		
1645	Variable Frequency Drive (30 HP)	1	EA	$7,500.00	$8,000		
1646	Galvanized Ductwork	22,400	LBS	$8.50	$190,000		
1647	Acoustic Lining & Thermal Insulation	13,600	SF	$3.50	$48,000		
1648	Volume Dampers				Included		
1649	VAV Boxes	0	EA	$1,500.00	$0		
1650	Reheat Coils	0	EA	$1,500.00	$0		
1651	Air Flow Measuring Station	0	EA	$500.00	$0		
1652	Motorized Dampers	0	SF	$95.00	$0		
1653	Fire Smoke Dampers	0	SF	$350.00	$0		
1654	Fire Dampers	34	SF	$120.00	$4,000		
1655	Grilles Registers & Diffusers	0	EA	$175.00	$0		
1656	Jet Nozzle Diffusers	26	EA	$200.00	$5,000		
1657	Linear Diffusers	0	LF	$100.00	$0		
1658							
1659	Air Handling Unit [AHU-23] [Departures]	29,995	CFM	$5.00	$150,000		
1660	Supply Fan				Included		
1661	Variable Frequency Drive (75 HP)	1	EA	$15,000.00	$15,000		
1662	Air to Air Heat Exchanger				Not Included		
1663	Copper Tube/Aluminum Fins				Included		
1664	Hot Water Pre-Heating Coil				Not Included		
1665	Hot Water Heating Coil				Included		
1666	Chilled Water Cooling Coil				Included		
1667	Pre & Final Filters				Included		
1668	Carbon Filters				Not Included		
1966	Sound Traps	59,990	CFM	$0.25	$15,000		
1670	Humidification				Not Included		
1671	Return Fan	40,400	CFM	$0.75	$30,000		
1672	Variable Frequency Drive (50 HP)	1	EA	$10,000.00	$10,000		
1673	Galvanized Ductwork	30,800	LBS	$8.50	$262,000		
1674	Acoustic Lining & Thermal Insulation	11,600	SF	$3.50	$41,000		
1675	Volume Dampers				Included		

Terminal/Concourse Building Building Area: 639,470 GSF

	Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
	1676	VAV Boxes	4	EA	$1,500.00	$6,000		
S	H32	Add HW Coils for VAV Boxes	4	EA	$1,000.00	$4,000		
	1677	Reheat Coils	0	EA	$1,500.00	$0		
	1678	Air Flow Measuring Station	0	EA	$500.00	$0		
	1679	Motorized Dampers	0	SF	$95.00	$0		
	1680	Fire Smoke Dampers	0	SF	$350.00	$0		
	1681	Fire Dampers	73	SF	$120.00	$9,000		
	1682	Grilles Registers & Diffusers	120	EA	$175.00	$21,000		
	1683	Jet Nozzle Diffusers	0	EA	$200.00	$0		
	1684	Linear Diffusers	0	LF	$100.00	$0		
	1685							
	1686	Air Handling Unit [AHU-24] [Arrivals]	28,000	CFM	$5.00	$140,000		
	1687	Supply Fan				Included		
	1688	*Variable Frequency Drive (75 HP)*	1	EA	$15,000.00	$15,000		
	1689	Air to Air Heat Exchanger				Not Included		
	1690	Copper Tube/Aluminum Fins				Included		
	1691	Hot Water Pre-Heating Coil				*Not Included*		
	1692	Hot Water Heating Coil				Included		
	1693	Chilled Water Cooling Coil				Included		
	1694	Pre & Final Filters				Included		
	1695	Carbon Filters				Not Included		
	1966	Sound Traps	56,000	CFM	$0.25	$14,000		
	1697	Humidification				Not Included		
	1698	Return Fan	58,400	CFM	$0.75	$44,000		
	1699	Variable Frequency Drive (60 HP)	1	EA	$15,000.00	$15,000		
	1700	Galvanized Ductwork	40,000	LBS	$8.50	$340,000		
	1701	Acoustic Lining & Thermal Insulation	17,400	SF	$3.50	$61,000		
	1702	Volume Dampers				Included		
	1703	VAV Boxes	0	EA	$1,500.00	$0		
	1704	Reheat Coils	0	EA	$1,500.00	$0		
	1705	Air Flow Measuring Station	0	EA	$500.00	$0		
	1706	Motorized Dampers	0	SF	$95.00	$0		
S	H34	1707 Fire Smoke Dampers				w/ Below		
	1708	Fire Dampers	68	SF	$120.00	$8,000		
	1709	Grilles Registers & Diffusers	28	EA	$175.00	$5,000		
	1710	Jet Nozzle Diffusers	0	EA	$200.00	$0		
	1711	Linear Diffusers	56	LF	$100.00	$6,000		
	1712							
	1713	Air Handling Unit [AHU-25] [Arrivals]	23,000	CFM	$5.00	$115,000		
	1714	Supply Fan				Included		
	1715	*Variable Frequency Drive (50 HP)*	1	EA	$10,000.00	$10,000		
	1716	Air to Air Heat Exchanger				Not Included		
	1717	Copper Tube/Aluminum Fins				Included		

JetBlue Terminal 5
JFK Airport New York, New York
60% CD Estimate
April 20, 2005

Terminal/Concourse Building — Building Area: 639,470 GSF

	Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
	1718	Hot Water Pre-Heating Coil				Not Included		
	1719	Hot Water Heating Coil				Included		
	1720	Chilled Water Cooling Coil				Included		
	1721	Pre & Final Filters				Included		
	1722	Carbon Filters				Not Included		
	1966	Sound Traps	46,000	CFM	$0.25	$12,000		
	1724	Humidification				Not Included		
	1725	Return Fan	59,990	CFM	$0.75	$45,000		
	1726	Variable Frequency Drive (60 HP)	1	EA	$15,000.00	$15,000		
	1727	Galvanized Ductwork	42,100	LBS	$8.50	$358,000		
	1728	Acoustic Lining & Thermal Insulation	17,600	SF	$3.50	$62,000		
	1729	Volume Dampers				Included		
	1730	VAV Boxes	0	EA	$1,500.00	$0		
	1731	Reheat Coils	1	EA	$1,500.00	$2,000		
	1732	Air Flow Measuring Station	0	EA	$500.00	$0		
	1733	Motorized Dampers	16	SF	$95.00	$2,000		
S	H34 1734	Fire Smoke Dampers				w/ Below		
	1735	Fire Dampers	56	SF	$120.00	$7,000		
	1736	Grilles Registers & Diffusers	24	EA	$175.00	$4,000		
	1737	Jet Nozzle Diffusers	0	EA	$200.00	$0		
	1738	Linear Diffusers	0	LF	$100.00	$0		
	1739							
	1740	Air Handling Unit [AHU-26] [Arrivals]	29,995	CFM	$5.00	$150,000		
	1741	Supply Fan				Included		
	1742	Variable Frequency Drive (75 HP)	1	EA	$15,000.00	$15,000		
	1743	Air to Air Heat Exchanger				Not Included		
	1744	Copper Tube/Aluminum Fins				Included		
	1745	Hot Water Pre-Heating Coil				Not Included		
	1746	Hot Water Heating Coil				Included		
	1747	Chilled Water Cooling Coil				Included		
	1748	Pre & Final Filters				Included		
	1749	Carbon Filters				Not Included		
	1750	Sound Traps	59,990	CFM	$0.25	$15,000		
	1751	Humidification				Not Included		
	1752	Return Fan	59,990	CFM	$0.75	$45,000		
	1753	Variable Frequency Drive (60 HP)	1	EA	$15,000.00	$15,000		
	1754	Galvanized Ductwork	27,800	LBS	$8.50	$236,000		
	1755	Acoustic Lining & Thermal Insulation	10,700	SF	$3.50	$37,000		
	1756	Volume Dampers				Included		
	1757	VAV Boxes	0	EA	$1,500.00	$0		
	1758	Reheat Coils	0	EA	$1,500.00	$0		
	1759	Air Flow Measuring Station	0	EA	$500.00	$0		
	1760	Motorized Dampers	0	SF	$95.00	$0		

Terminal/Concourse Building

Building Area: 639,470 GSF

	Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
S	H34	1761 Fire Smoke Dampers						
		1762 Fire Dampers				w/ Below		
		1763 Grilles Registers & Diffusers	73	SF	$120.00	$9,000		
		1764 Jet Nozzle Diffusers	12	EA	$175.00	$2,000		
		1765 Linear Diffusers	0	EA	$200.00	$0		
		1766	0	LF	$100.00	$0		
		1767 Air Handling Unit [AHU-27] [Departures]	23,000	CFM	$5.00	$115,000		
		1768 Supply Fan				Included		
		1769 Variable Frequency Drive (60 HP)	1	EA	$15,000.00	$15,000		
		1770 Air to Air Heat Exchanger				Not Included		
		1771 Copper Tube/Aluminum Fins				Included		
		1772 Hot Water Pre-Heating Coil				Not Included		
		1773 Hot Water Heating Coil				Included		
		1774 Chilled Water Cooling Coil				Included		
		1775 Pre & Final Filters				Included		
		1776 Carbon Filters				Not Included		
		1966 Sound Traps	46,000	CFM	$0.25	$12,000		
		1778 Humidification				Not Included		
		1779 Return Fan	40,000	CFM	$0.75	$30,000		
		1780 Variable Frequency Drive (40 HP)	1	EA	$10,000.00	$10,000		
		1781 Galvanized Ductwork	14,100	LBS	$8.50	$120,000		
		1782 Acoustic Lining & Thermal Insulation	6,200	SF	$3.50	$22,000		
		1783 Volume Dampers				Included		
		1784 VAV Boxes	0	EA	$1,500.00	$0		
		1785 Reheat Coils	0	EA	$1,500.00	$0		
		1786 Air Flow Measuring Station	0	EA	$500.00	$0		
		1787 Motorized Dampers	0	SF	$95.00	$0		
		1788 Fire Smoke Dampers	0	SF	$350.00	$0		
		1789 Fire Dampers	56	SF	$120.00	$7,000		
		1790 Grilles Registers & Diffusers	0	EA	$175.00	$0		
		1791 Jet Nozzle Diffusers	30	EA	$200.00	$6,000		
		1792 Linear Diffusers	0	LF	$100.00	$0		
		1793						
		1794 Air Handling Unit [AHU-28] [Arrivals]	29,995	CFM	$5.00	$150,000		
		1795 Supply Fan				Included		
		1796 Variable Frequency Drive (75 HP)	1	EA	$15,000.00	$15,000		
		1797 Air to Air Heat Exchanger				Not Included		
		1798 Copper Tube/Aluminum Fins				Included		
		1799 Hot Water Pre-Heating Coil				Not Included		
		1800 Hot Water Heating Coil				Included		
		1801 Chilled Water Cooling Coil				Included		
		1802 Pre & Final Filters				Included		
		1803 Carbon Filters				Not Included		

Terminal/Concourse Building

Building Area: 639,470 GSF

	Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
		1966 Sound Traps	59,990	CFM	$0.25	$15,000		
		1805 Humidification				Not Included		
		1806 Return Fan	29,995	CFM	$0.75	$22,000		
		1807 Variable Frequency Drive (20 HP)	1	EA	$7,500.00	$8,000		
		1808 Galvanized Ductwork	39,500	LBS	$8.50	$336,000		
		1809 Acoustic Lining & Thermal Insulation	26,300	SF	$3.50	$92,000		
		1810 Volume Dampers				Included		
		1811 VAV Boxes	18	EA	$1,500.00	$27,000		
S	H32	Add HW Coils for VAV Boxes	18	EA	$1,000.00	$18,000		
		1812 Reheat Coils	0	EA	$1,500.00	$0		
		1813 Air Flow Measuring Station	0	EA	$500.00	$0		
		1814 Motorized Dampers	0	SF	$95.00	$0		
S	H34	1815 Fire Smoke Dampers				w/ Below		
		1816 Fire Dampers	73	SF	$120.00	$9,000		
		1817 Grilles Registers & Diffusers	120	EA	$175.00	$21,000		
		1818 Jet Nozzle Diffusers	0	EA	$200.00	$0		
		1819 Linear Diffusers	0	LF	$100.00	$0		
		1820						
		1821 Air Handling Unit [AHU-29] [Departures]	29,995	CFM	$5.00	$150,000		
		1822 Supply Fan				Included		
		1823 Variable Frequency Drive (75 HP)	1	EA	$15,000.00	$15,000		
		1824 Air to Air Heat Exchanger				Not Included		
		1825 Copper Tube/Aluminum Fins				Included		
		1826 Hot Water Pre-Heating Coil				Not Included		
		1827 Hot Water Heating Coil				Included		
		1828 Chilled Water Cooling Coil				Included		
		1829 Pre & Final Filters				Included		
		1830 Carbon Filters				Not Included		
		1966 Sound Traps	59,990	CFM	$0.25	$15,000		
		1832 Humidification				Not Included		
		1833 Return Fan	59,990	CFM	$0.75	$45,000		
		1834 Variable Frequency Drive (60 HP)	1	EA	$15,000.00	$15,000		
		1835 Galvanized Ductwork	30,500	LBS	$8.50	$259,000		
		1836 Acoustic Lining & Thermal Insulation	12,700	SF	$3.50	$44,000		
		1837 Volume Dampers				Included		
		1838 VAV Boxes	0	EA	$1,500.00	$0		
		1839 Reheat Coils	0	EA	$1,500.00	$0		
		1840 Air Flow Measuring Station	0	EA	$500.00	$0		
		1841 Motorized Dampers	0	SF	$95.00	$0		
		1842 Fire Smoke Dampers	0	SF	$350.00	$0		
		1843 Fire Dampers	73	SF	$120.00	$9,000		
		1844 Grilles Registers & Diffusers	0	EA	$175.00	$0		

Terminal/Concourse Building

Building Area: 639,470 GSF

Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
1845	Jet Nozzle Diffusers	24	EA	$200.00	$5,000		
1846	Linear Diffusers	112	LF	$100.00	$11,000		
1847							
1848	Air Handling Unit [AHU-30] [Departures]	25,000	CFM	$5.00	$125,000		
1849	Supply Fan				Included		
1850	Variable Frequency Drive (60 HP)	1	EA	$15,000.00	$15,000		
1851	Air to Air Heat Exchanger				Not Included		
1852	Copper Tube/Aluminum Fins				Included		
1853	Hot Water Pre-Heating Coil				Not Included		
1854	Hot Water Heating Coil				Included		
1855	Chilled Water Cooling Coil				Included		
1856	Pre & Final Filters				Included		
1857	Carbon Filters				Not Included		
1966	Sound Traps	50,000	CFM	$0.25	$13,000		
1859	Humidification				Not Included		
1860	Return Fan	48,200	CFM	$0.75	$36,000		
1861	Variable Frequency Drive (50 HP)	1	EA	$10,000.00	$10,000		
1862	Galvanized Ductwork	34,600	LBS	$8.50	$294,000		
1863	Acoustic Lining & Thermal Insulation	14,300	SF	$3.50	$50,000		
1864	Volume Dampers				Included		
1865	VAV Boxes	0	EA	$1,500.00	$0		
1866	Reheat Coils	2	EA	$1,500.00	$3,000		
1867	Air Flow Measuring Station	2	EA	$500.00	$1,000		
1868	Motorized Dampers	30	SF	$95.00	$3,000		
1869	Fire Smoke Dampers	0	SF	$350.00	$0		
1870	Fire Dampers	61	SF	$120.00	$7,000		
1871	Grilles Registers & Diffusers	2	EA	$175.00	$0		
1872	Jet Nozzle Diffusers	0	EA	$200.00	$0		
1873	Linear Diffusers	380	LF	$100.00	$38,000		
1874							
1875	Air Handling Unit [AHU-31] [Departures]	18,000	CFM	$5.00	$90,000		
1876	Supply Fan				Included		
1877	Variable Frequency Drive (40 HP)	1	EA	$10,000.00	$10,000		
1878	Air to Air Heat Exchanger				Not Included		
1879	Copper Tube/Aluminum Fins				Included		
1880	Hot Water Pre-Heating Coil				Not Included		
1881	Hot Water Heating Coil				Included		
1882	Chilled Water Cooling Coil				Included		
1883	Pre & Final Filters				Included		
1884	Carbon Filters				Not Included		
1966	Sound Traps	36,000	CFM	$0.25	$9,000		
1886	Humidification				Not Included		
1887	Return Fan	34,600	CFM	$0.75	$26,000		

Terminal/Concourse Building

Building Area: 639,470 GSF

	Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
	1888	Variable Frequency Drive (40 HP)	1	EA	$10,000.00	$10,000		
	1889	Galvanized Ductwork	27,300	LBS	$8.50	$232,000		
	1890	Acoustic Lining & Thermal Insulation	11,100	SF	$3.50	$39,000		
	1891	Volume Dampers				Included		
	1892	VAV Boxes	0	EA	$1,500.00	$0		
	1893	Reheat Coils	4	EA	$1,500.00	$6,000		
	1894	Air Flow Measuring Station	4	EA	$500.00	$2,000		
	1895	Motorized Dampers	22	SF	$95.00	$2,000		
	1896	Fire Smoke Dampers	0	SF	$350.00	$0		
	1897	Fire Dampers	44	SF	$120.00	$5,000		
	1898	Grilles Registers & Diffusers	0	EA	$175.00	$0		
	1899	Jet Nozzle Diffusers	0	EA	$200.00	$0		
	1900	*Linear Diffusers*	268	LF	$100.00	$27,000		
	1901							
	1902	Air Handling Unit [AHU-32] [Arrivals]	24,000	CFM	$5.00	$120,000		
	1903	Supply Fan				Included		
	1904	Variable Frequency Drive (60 HP)	1	EA	$15,000.00	$15,000		
	1905	Air to Air Heat Exchanger				Not Included		
	1906	*Copper Tube/Aluminum Fins*				Included		
	1907	Hot Water Pre-Heating Coil				Not Included		
	1908	Hot Water Heating Coil				Included		
	1909	Chilled Water Cooling Coil				Included		
	1910	Pre & Final Filters				Included		
	1911	Carbon Filters				Not Included		
	1966	*Sound Traps*	48,000	CFM	$0.25	$12,000		
	1913	Humidification				Not Included		
	1914	Return Fan	49,600	CFM	$0.75	$37,000		
	1915	Variable Frequency Drive (50 HP)	1	EA	$10,000.00	$10,000		
	1916	Galvanized Ductwork	33,000	LBS	$8.50	$281,000		
	1917	Acoustic Lining & Thermal Insulation	22,000	SF	$3.50	$77,000		
	1918	Volume Dampers				Included		
	1919	VAV Boxes	30	EA	$1,500.00	$45,000		
S	H32	Add HW Coils for VAV Boxes	30	EA	$1,000.00	$30,000		
	1920	Reheat Coils	0	EA	$1,500.00	$0		
	1921	Air Flow Measuring Station	0	EA	$500.00	$0		
	1922	Motorized Dampers	0	SF	$95.00	$0		
S	H34	1923 Fire Smoke Dampers				w/ Below		
	1924	Fire Dampers	58	SF	$120.00	$7,000		
	1925	Grilles Registers & Diffusers	96	EA	$175.00	$17,000		
	1926	Jet Nozzle Diffusers	0	EA	$200.00	$0		
	1927	Linear Diffusers	0	LF	$100.00	$0		
	1928							

Terminal/Concourse Building Building Area: 639,470 GSF

	Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
	1929	Air Handling Unit [AHU-33] [Arrivals]	27,000	CFM	$5.00	$135,000		
	1930	Supply Fan				Included		
	1931	Variable Frequency Drive (60 HP)	1	EA	$15,000.00	$15,000		
	1932	Air to Air Heat Exchanger				Not Included		
	1933	Copper Tube/Aluminum Fins				Included		
	1934	Hot Water Pre-Heating Coil				Not Included		
	1935	Hot Water Heating Coil				Included		
	1936	Chilled Water Cooling Coil				Included		
	1937	Pre & Final Filters				Included		
	1938	Carbon Filters				Not Included		
	1966	Sound Traps	54,000	CFM	$0.25	$14,000		
	1940	Humidification				Not Included		
	1941	Return Fan	51,400	CFM	$0.75	$39,000		
	1942	Variable Frequency Drive (60 HP)	1	EA	$15,000.00	$15,000		
	1943	Galvanized Ductwork	34,300	LBS	$8.50	$292,000		
	1944	Acoustic Lining & Thermal Insulation	15,100	SF	$3.50	$53,000		
	1945	Volume Dampers				Included		
	1946	VAV Boxes	0	EA	$1,500.00	$0		
	1947	Reheat Coils	0	EA	$1,500.00	$0		
	1948	Air Flow Measuring Station	0	EA	$500.00	$0		
	1949	Motorized Dampers	0	SF	$95.00	$0		
S	H34 1950	Fire Smoke Dampers				w/ Below		
	1951	Fire Dampers	65	SF	$120.00	$8,000		
	1952	Grilles Registers & Diffusers	34	EA	$175.00	$6,000		
	1953	Jet Nozzle Diffusers	0	EA	$200.00	$0		
	1954	Linear Diffusers	24	LF	$100.00	$2,000		
	1955							
	1956	Air Handling Unit [AHU-34] [Departures]	20,000	CFM	$5.00	$100,000		
	1957	Supply Fan				Included		
	1958	Variable Frequency Drive (50 HP)	1	EA	$10,000.00	$10,000		
	1959	Air to Air Heat Exchanger				Not Included		
	1960	Copper Tube/Aluminum Fins				Included		
	1961	Hot Water Pre-Heating Coil				Not Included		
	1962	Hot Water Heating Coil				Included		
	1963	Chilled Water Cooling Coil				Included		
	1964	Pre & Final Filters				Included		
	1965	Carbon Filters				Not Included		
	1966	Sound Traps	40,000	CFM	$0.25	$10,000		
	1967	Humidification				Not Included		
	1968	Return Fan	27,400	CFM	$0.75	$21,000		
	1969	Variable Frequency Drive (30 HP)	1	EA	$7,500.00	$8,000		
	1970	Galvanized Ductwork	28,000	LBS	$8.50	$238,000		
	1971	Acoustic Lining & Thermal Insulation	18,200	SF	$3.50	$64,000		

Terminal/Concourse Building — Building Area: 639,470 GSF

	Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
	1972	Volume Dampers				Included		
	1973	VAV Boxes	19	EA	$1,500.00	$29,000		
S	H32	Add HW Coils for VAV Boxes	19	EA	$1,000.00	$19,000		
	1974	Reheat Coils	0	EA	$1,500.00	$0		
	1975	Air Flow Measuring Station	0	EA	$500.00	$0		
	1976	Motorized Dampers	0	SF	$95.00	$0		
	1977	Fire Smoke Dampers	0	SF	$350.00	$0		
	1978	Fire Dampers	48	SF	$120.00	$6,000		
	1979	Grilles Registers & Diffusers	80	EA	$175.00	$14,000		
	1980	Jet Nozzle Diffusers	0	EA	$200.00	$0		
	1981	Linear Diffusers	0	LF	$100.00	$0		
	1982							
	1983	Air Handling Unit [AHU-35] [Departures]	21,000	CFM	$5.00	$105,000		
	1984	Supply Fan				Included		
	1985	Variable Frequency Drive (50 HP)	1	EA	$10,000.00	$10,000		
	1986	Air to Air Heat Exchanger				Not Included		
	1987	Copper Tube/Aluminum Fins				Included		
	1988	Hot Water Pre-Heating Coil				Not Included		
	1989	Hot Water Heating Coil				Included		
	1990	Chilled Water Cooling Coil				Included		
	1991	Pre & Final Filters				Included		
	1992	Carbon Filters				Not Included		
	1993	Sound Traps	42,000	CFM	$0.25	$11,000		
	1994	Humidification				Not Included		
	1995	Return Fan	41,400	CFM	$0.75	$31,000		
	1996	Variable Frequency Drive (50 HP)	1	EA	$10,000.00	$10,000		
	1997	Galvanized Ductwork	36,200	LBS	$8.50	$308,000		
	1998	Acoustic Lining & Thermal Insulation	14,400	SF	$3.50	$50,000		
	1999	Volume Dampers				Included		
	2000	VAV Boxes	0	EA	$1,500.00	$0		
	2001	Reheat Coils	4	EA	$1,500.00	$6,000		
	2002	Air Flow Measuring Station	4	EA	$500.00	$2,000		
	2003	Motorized Dampers	25	SF	$95.00	$2,000		
	2004	Fire Smoke Dampers	0	SF	$350.00	$0		
	2005	Fire Dampers	51	SF	$120.00	$6,000		
	2006	Grilles Registers & Diffusers	0	EA	$175.00	$0		
	2007	Jet Nozzle Diffusers	0	EA	$200.00	$0		
	2008	Linear Diffusers	228	LF	$100.00	$23,000		
	2009							
	2010	Air Handling Unit [AHU-36] [Arrivals]	22,000	CFM	$5.00	$110,000		
	2011	Supply Fan				Included		
	2012	Variable Frequency Drive (50 HP)	1	EA	$10,000.00	$10,000		

Terminal/Concourse Building Building Area: 639,470 GSF

	Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
	2013	Air to Air Heat Exchanger				Not Included		
	2014	Copper Tube/Aluminum Fins				Included		
	2015	Hot Water Pre-Heating Coil				Not Included		
	2016	Hot Water Heating Coil				Included		
	2017	Chilled Water Cooling Coil				Included		
	2018	Pre & Final Filters				Included		
	2019	Carbon Filters				Not Included		
	2020	Sound Traps	44,000	CFM	$0.25	$11,000		
	2021	Humidification				Not Included		
	2022	Return Fan	38,800	CFM	$0.75	$29,000		
	2023	Variable Frequency Drive (40 HP)	1	EA	$15,000.00	$15,000		
	2024	Galvanized Ductwork	32,000	LBS	$8.50	$272,000		
	2025	Acoustic Lining & Thermal Insulation	13,200	SF	$3.50	$46,000		
	2026	Volume Dampers				Included		
	2027	VAV Boxes	0	EA	$1,500.00	$0		
	2028	Reheat Coils	0	EA	$1,500.00	$0		
	2029	Air Flow Measuring Station	0	EA	$500.00	$0		
	2030	Motorized Dampers	0	SF	$95.00	$0		
S	H34	2031 Fire Smoke Dampers				w/ Below		
	2032	Fire Dampers	53	SF	$120.00	$6,000		
	2033	Grilles Registers & Diffusers	0	EA	$175.00	$0		
	2034	Jet Nozzle Diffusers	0	EA	$200.00	$0		
	2035	Linear Diffusers	220	LF	$100.00	$22,000		
	2036							
	2037	Air Handling Unit [AHU-37] [Arrivals]	20,000	CFM	$5.00	$100,000		
	2038	Supply Fan				Included		
	2039	Variable Frequency Drive (50 HP)	1	EA	$10,000.00	$10,000		
	2040	Air to Air Heat Exchanger				Not Included		
	2041	Copper Tube/Aluminum Fins				Included		
	2042	Hot Water Pre-Heating Coil				Not Included		
	2043	Hot Water Heating Coil				Included		
	2044	Chilled Water Cooling Coil				Included		
	2045	Pre & Final Filters				Included		
	2046	Carbon Filters				Not Included		
	2047	Sound Traps	40,000	CFM	$0.25	$10,000		
	2048	Humidification				Not Included		
	2049	Return Fan	35,800	CFM	$0.75	$27,000		
	2050	Variable Frequency Drive (40 HP)	1	EA	$10,000.00	$10,000		
	2051	Galvanized Ductwork	27,400	LBS	$8.50	$233,000		
	2052	Acoustic Lining & Thermal Insulation	18,200	SF	$3.50	$64,000		
	2053	Volume Dampers				Included		
	2054	VAV Boxes	29	EA	$1,500.00	$44,000		
S	H32	Add HW Coils for VAV Boxes	39	EA	$1,000.00	$39,000		

Terminal/Concourse Building — Building Area: 639,470 GSF

		Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
		2055	Reheat Coils	0	EA	$1,500.00	$0		
		2056	Air Flow Measuring Station	0	EA	$500.00	$0		
		2057	Motorized Dampers	0	SF	$95.00	$0		
S	H34	2058	Fire Smoke Dampers				w/ Below		
		2059	Fire Dampers	48	SF	$120.00	$6,000		
		2060	Grilles Registers & Diffusers	80	EA	$175.00	$14,000		
		2061	Jet Nozzle Diffusers	0	EA	$200.00	$0		
		2062	Linear Diffusers	32	LF	$100.00	$3,000		
		2063							
		2064	Air Handling Unit [AHU-39] [Ramp Control]	8,000	CFM	$4.00	$32,000		
		2065	Supply Fan				Included		
		2066	Variable Frequency Drive (20 HP)	1	EA	$7,500.00	$8,000		
		2067	Air to Air Heat Exchanger				Not Included		
		2068	Copper Tube/Aluminum Fins				Included		
		2069	Hot Water Pre-Heating Coil				Not Included		
		2070	Hot Water Heating Coil				Included		
		2071	Chilled Water Cooling Coil				Included		
		2072	Pre & Final Filters				Included		
		2073	Carbon Filters				Not Included		
		2074	Sound Traps	16,000	CFM	$0.25	$4,000		
		2075	Humidification				Not Included		
		2076	Return Fan	6,000	CFM	$1.00	$6,000		
		2077	Variable Frequency Drive (5 HP)	1	EA	$2,500.00	$3,000		
		2078	Galvanized Ductwork	8,300	LBS	$8.50	$71,000		
		2079	Acoustic Lining & Thermal Insulation	5,533	SF	$3.50	$19,000		
		2080	Volume Dampers				Included		
		2081	VAV Boxes	0	EA	$1,500.00	$0		
		2082	Reheat Coils	0	EA	$1,500.00	$0		
		2083	Air Flow Measuring Station	0	EA	$500.00	$0		
		2084	Motorized Dampers	0	SF	$95.00	$0		
		2085	Fire Smoke Dampers	0	SF	$350.00	$0		
		2086	Fire Dampers	19	SF	$120.00	$2,000		
		2087	Grilles Registers & Diffusers	16	EA	$175.00	$3,000		
		2088	Jet Nozzle Diffusers	0	EA	$200.00	$0		
		2089	Linear Diffusers	72	LF	$100.00	$7,000		
		2090	Louvers	18	SF	$80.00	$1,000		
S	H34		Fire Smoke Dampers (Shown on drawings)	1,157	SF	$350.00	405,000		
S	H34		Fire Smoke Dampers (Not shown on drawings)	1,157	SF	$350.00	405,000		
S	H218		Add AHU Ductwork & VAV's Serving Telecom Closets.						
S	H218		Galvanized Ductwork	1,200	LBS	$8.50	$10,000		
S	H218		Acoustic Lining & Thermal Insulation	800	SF	$3.50	$3,000		
S	H218		Volume Dampers				Included		

Terminal/Concourse Building Building Area: 639,470 GSF

	Rank		Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
S	H218		VAV Boxes	8	EA	$1,500.00	$12,000		
S	H218		Fire Smoke Dampers	48	SF	$350.00	$17,000		
S	H218		Fire Dampers	0	SF	$120.00	$0		
S	H218		Grilles Registers & Diffusers	8	EA	$0.00	$0		
V	H129		Delete Sound Traps	(232,995)	CFM	$0.25	(58,000)		
V	H130		Fire Dampers (areas where roof is higher than 20')	(1,000)	SF	$120.00	(120,000)		
V	H131B		Delete all Linear Diffusers						
V	H131B		Grilles Registers & Diffusers	(1,268)	EA	$175.00	(222,000)		
V	H131B		Jet Nozzle Diffusers	(139)	EA	$200.00	(28,000)		
V	H131B		Linear Diffusers	(5,218)	LF	$100.00	(522,000)		
V	H131B		Galvanized Ductwork (plenums)	(23,481)	LBS	$8.50	(200,000)		
V	H131B		Grilles Registers & Diffusers(shown)	1,440	EA	$175.00	252,000		
V	H131B		Grilles Registers & Diffusers (allowance)	500	EA	$175.00	88,000		
V	H131B		Galvanized Ductwork (allowance for additional diffusers)	12,500	LBS	$8.50	106,000		
V	H131B		Jet Nozzle Diffusers	139	EA	$200.00	28,000		
V	H131B		Linear Diffusers	0	LF	$100.00	0		
V	H131B		Galvanized Ductwork (plenums)	0	LBS	$8.50	0		
V	H131B		Galvanized Ductwork (For 86 diffusers in the center of the Hold Rooms)	8,600	LBS	$8.50	73,000		
V	H131B		Ductwork Insulation	5,700	SF	$3.50	20,000		
V	H131B		Architectural Return Air Openings (14 Sq. Ft. per structural bay) (tape & paint only - no grille)				No Impact		
V	H131B		Architectural Return Air Openings (5 Sq. Ft. per structural bay) (tape & paint only - no grille)				No Impact		
V	H139		AHU Ductwork & VAV's Serving Telecom Closet						
V	H139		Galvanized Ductwork				Not Required		
V	H139		Acoustic Lining & Thermal Insulation				Not Required		
V	H139		Volume Dampers				Not Required		
V	H139		VAV Boxes				Not Required		
V	H139		Fire Smoke Dampers				Not Required		
V	H139		Fire Dampers				Not Required		
V	H139		Grilles Registers & Diffusers				Not Required		
		2091							
		2092	**Fan Coil Units**						
		2093							
V	H147	2094	Fan Coil Units [FCU-XX-XX] [Custom AHU - 4 Pipe - 1000 CFM each]	(20)	EA	$3,500.00	(70,000)		
V	H147	2095	Galvanized Ductwork				Not Included		
V	H147	2096	Acoustic Lining & Thermal Insulation				Not Included		
V	H147	2097	Motorized Dampers				Not Included		
V	H147	2098	Fire Smoke Dampers				Not Included		
V	H147	2099	Volume Dampers				Not Included		
V	H147	2100	Registers, Grilles & Diffusers				Not Included		
V	H147	2101	Linear Diffusers				Not Included		
		2102							
		2103	**Heating & Ventilating Units**						

Terminal/Concourse Building Building Area: 639,470 GSF

		Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
S	H36	2104	H&V Units [F-1.01, 1.04 & 1.07] (Electrical substations) (21,600 cfm each) Use FA	64,800	CFM	$1.25	$81,000		
		2105	Galvanized Ductwork	18,900	LBS	$8.50	$161,000		
		2106	Ductwork Insulation	12,600	SF	$3.50	$44,000		
		2107	Registers (10'x4')	3	EA	$2,000.00	$6,000		
		2108	Back Draft Dampers	138	SF	$80.00	$11,000		
		2109	Fire Dampers	420	SF	$120.00	$50,000		
		2110	Fire Smoke Dampers				Not Included		
		2111	Louvers	300	SF	$80.00	$24,000		
		2112							
		2113	H&V Units [F-1.03 & 1.06] (South MER/Main EM Switch Rm) (2,000 cfm each)	4,000	CFM	$2.50	$10,000		
		2114	Galvanized Ductwork	1,700	LBS	$8.50	$14,000		
		2115	Ductwork Insulation	1,100	SF	$3.50	$4,000		
		2116	Registers	8	EA	$150.00	$1,000		
		2117	Back Draft Dampers	32	SF	$80.00	$3,000		
		2118	Fire Dampers	72	SF	$120.00	$9,000		
		2119	Fire Smoke Dampers				Not Included		
		2120	Louvers	72	SF	$80.00	$6,000		
		2121							
		2122	**Subtotal: Air Distribution**					$21,139,000	
		2123							
		2124							
		2125	**Supplemental A/C Systems**						
		2126							
		2127	Dry Coolers [DAC-1 & 2] (40 tons each)	2	EA	$20,000.00	$40,000		
		2128	Pump Package [PP-1] (204 GPM, 10 HP)	1	EA	$25,000.00	$25,000		
		2129	Glycol Feed System	1	EA	$15,000.00	$15,000		
		2130	Chemical Pot Feeder	1	EA	$5,000.00	$5,000		
		2131	Expansion Tanks	1	EA	$5,000.00	$5,000		
		2132	Air Separators	1	EA	$5,000.00	$5,000		
		2133							
V	H133	2134	Data Center						
V	H133	2135	Dual Coil Chilled Water/Water-Cooled AC Unit (4 @ 15 TONS EACH)	3	EA	$35,000.00	$105,000		
V	H133	2136	Electric Re-heat				Included		
V	H133	2137	Humidification				Included		
V	H133	2138	Galvanized Ductwork				Not Included		
V	H133	2139	Ductwork Insulation				Not Included		
V	H133	2140	Registers, Grilles & Diffusers				Not Included		
V	H133	2141	Volume Dampers				Not Included		
V	H133	2142	Fire Dampers				Not Included		
V	H133	2143	Fire Smoke Dampers				Not Included		
		2144							
		2145	Telecom Closets						

Terminal/Concourse Building

Building Area: 639,470 GSF

		Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
2146			Water-Cooled AC Unit (8 @ 3 TONS EACH)	8	EA	$18,000.00	$144,000		
2147			Electric Re-heat				Included		
2148			Humidification				Included		
2149			Galvanized Ductwork	800	LBS	$8.50	$7,000		
2150			Ductwork Insulation	500	SF	$3.50	$2,000		
2151			Registers, Grilles & Diffusers	16	EA	$200.00	$3,000		
2152			Volume Dampers				Not Included		
2153			Fire Dampers				Not Included		
2154			Fire Smoke Dampers				Not Included		
2155									
2156			Control Center						
2157			Split System Air-Cooled AC Unit (2 @ 5 TONS EACH) (allowance)	2	EA	$20,000.00	$40,000		
2158			Galvanized Ductwork				Not Included		
2159			Ductwork Insulation				Not Included		
2160			Registers, Grilles & Diffusers				Not Included		
2161			Volume Dampers				Not Included		
2162			Fire Dampers				Not Included		
2163			Fire Smoke Dampers				Not Included		
2164									
2165			Control Center UPS Room						
2166			Split System Air-Cooled AC Unit (1 @ 5 TONS EACH) (allowance)	1	EA	$20,000.00	$20,000		
2167			Galvanized Ductwork				Not Included		
2168			Ductwork Insulation				Not Included		
2169			Registers, Grilles & Diffusers				Not Included		
2170			Volume Dampers				Not Included		
2171			Fire Dampers				Not Included		
2172			Fire Smoke Dampers				Not Included		
2173									
2174			Elevator Machine Rooms						
2175	S	H27	Split System Air-Cooled AC Unit (4 @ 3 TONS EACH) (allowance)	(4)	EA	$15,000.00	(60,000)		
2176			Galvanized Ductwork				Not Included		
2177			Ductwork Insulation				Not Included		
2178			Registers, Grilles & Diffusers				Not Included		
2179			Volume Dampers				Not Included		
2180			Fire Dampers				Not Included		
2181			Fire Smoke Dampers				Not Included		
2182									
2183			Electrical Substations						
2184							Not Included		
2185			**Subtotal: Supplemental AC Systems**						
2186								$356,000	
2187									

Terminal/Concourse Building — Building Area: 639,470 GSF

	Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
	2188	**Ventilation**						
	2189							
S	H27	Transfer Fans (1 per elevator bank & 1 per EMR - 8 @ 1500 cfm)	8	EA	$2,250.00	$18,000		
S	H27	Motor Starters [.5HP]				Included		
S	H27	Galvanized Ductwork	800	LBS	$8.50	$7,000		
S	H27	Acoustic Lining & Thermal Insulation				Not Included		
S	H27	Motorized Dampers				Not Included		
S	H27	Fire Smoke Dampers (3 SF per Fan)	24	SF	$350.00	$8,000		
S	H27	Fire Dampers				Not Included		
S	H27	Volume Dampers				Not Included		
S	H27	Registers	8	EA	$100.00	$1,000		
S	H27	Local Thermostatic Controls	8	EA	$400.00	$3,000		
	2190	Transfer Fans [TF-XX] [Electrical Closets] (8 @ 400 cfm)	8	EA	$1,500.00	$12,000		
	2191	Motor Starters [.5HP]				Included		
	2192	Galvanized Ductwork	800	LBS	$8.50	$7,000		
	2193	Acoustic Lining & Thermal Insulation				Not Included		
	2194	Motorized Dampers				Not Included		
	2195	Fire Smoke Dampers				Not Included		
	2196	Fire Dampers				Not Included		
	2197	Volume Dampers				Not Included		
	2198	Registers, Grilles & Diffusers	16	EA	$100.00	$2,000		
	2199							
	2200	Transfer Fans [TF-XX] [Copy Rooms] (6 @ 400 cfm)	6	EA	$1,500.00	$9,000		
	2201	Motor Starters [.5HP]				Included		
	2202	Galvanized Ductwork	600	LBS	$8.50	$5,000		
	2203	Acoustic Lining & Thermal Insulation				Not Included		
	2204	Motorized Dampers				Not Included		
	2205	Fire Smoke Dampers				Not Included		
	2206	Fire Dampers				Not Included		
	2207	Volume Dampers				Not Included		
	2208	Registers, Grilles & Diffusers	12	EA	$100.00	$1,000		
	2209							
	2210	Exhaust Fans [F-1.02, 1.05 & 1.08] [Electrical Sub-Station] (4000 cfm each)	12,000	CFM	$1.25	$15,000		
	2211	Motor Starters [1HP]	3	EA	$750.00	$2,000		
	2212	Galvanized Ductwork	3,000	LBS	$8.50	$26,000		
	2213	Acoustic Lining & Thermal Insulation				Not Included		
	2214	Transfer Grilles	96	SF	$25.00	$2,000		
	2215	Motorized Dampers	7	SF	$8.50	$60		
	2216	Fire Smoke Dampers				Not Included		
	2217	Fire Dampers	120	SF	$120.00	$14,000		
	2218	Volume Dampers				Not Included		
	2219	Registers, Grilles & Diffusers				Not Included		

Terminal/Concourse Building Building Area: 639,470 GSF

Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
2220	Exhaust Louver	24	SF	$80.00	$2,000		
2221							
2222	Exhaust Fans [EF-1.08 thru 1.19] [12 @ 4000 cfm each] (Outbound Baggage)	48,000	CFM	$1.25	$60,000		
2223	Motor Starters [2HP]	12	EA	$750.00	$9,000		
2224	Galvanized Ductwork	8,400	LBS	$8.50	$71,000		
2225	Acoustic Lining & Thermal Insulation				Not Included		
2226	Motorized Dampers				Not Included		
2227	Fire Smoke Dampers				Not Included		
2228	Back Draft Dampers	144	SF	$50.00	$7,000		
2229	Fire Dampers	144	SF	$120.00	$17,000		
2230	Volume Dampers				Included		
2231	Registers, Grilles & Diffusers	24	EA	$150.00	$4,000		
2232	Exhaust Louver	144	SF	$80.00	$12,000		
2233							
2234	Exhaust Fan[EF-1.29 thru 1.35] [7 @ 4500 cfm each] (Inbound Baggage)	31,500	CFM	$1.25	$39,000		
2235	Motor Starters [2HP]	7	EA	$750.00	$5,000		
2236	Galvanized Ductwork	700	LBS	$8.50	$6,000		
2237	Acoustic Lining & Thermal Insulation				Not Included		
2238	Motorized Dampers				Not Included		
2239	Fire Smoke Dampers				Not Included		
2240	Back Draft Dampers	84	SF	$50.00	$4,000		
2241	Fire Dampers	84	SF	$120.00	$10,000		
2242	Volume Dampers				Included		
2243	Registers, Grilles & Diffusers				Not Included		
2244	Exhaust Louver	84	SF	$80.00	$7,000		
2245							
2246	Exhaust Fans [EF-1.01 thru 1.07] [Arrivals Level East - Aircraft Work Areas] (397	7	EA	$1,500.00	$11,000		
2247	Motor Starters				Included		
2248	Galvanized Ductwork	2,600	LBS	$8.50	$22,000		
2249	Acoustic Lining & Thermal Insulation				Not Included		
2250	Motorized Dampers				Not Included		
2251	Fire Smoke Dampers				Not Included		
2252	Back Draft Dampers	8	SF	$50.00	$400		
2253	Fire Dampers	8	SF	$120.00	$1,000		
2254	Volume Dampers				Included		
2255	Registers, Grilles & Diffusers	8	EA	$8.50	$100		
2256	Exhaust Louver	7	EA	$500.00	$4,000		
2257							
2258	Exhaust Fans [EF-1.20 thru 1.28] [Arrivals Level South - Maintenance Areas] (95	9	EA	$1,500.00	$14,000		
2259	Motor Starters				Included		
2260	Galvanized Ductwork	8,000	LBS	$8.50	$68,000		
2261	Acoustic Lining & Thermal Insulation				Not Included		

Terminal/Concourse Building — **Building Area:** 639,470 GSF

		Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
		2262	Motorized Dampers				Not Included		
		2263	Fire Smoke Dampers				Not Included		
		2264	Back Draft Dampers	42	SF	$50.00	$2,000		
		2265	Fire Dampers	42	SF	$120.00	$5,000		
		2266	Volume Dampers				Included		
		2267	Registers, Grilles & Diffusers	26	EA	$150.00	$4,000		
		2268	Exhaust Louver	42	SF	$80.00	$3,000		
		2269							
V	A122		Exhaust Fans [EF-1.39] [Locker room] (1100 cfm)	(1)	EA	$1,500.00	(2,000)		
V	A122		Motor Starters				Included		
V	A122		Galvanized Ductwork	(500)	LBS	$8.50	(4,000)		
V	A122		Acoustic Lining & Thermal Insulation				Not Included		
V	A122		Motorized Dampers				Not Included		
V	A122		Fire Smoke Dampers				Not Included		
V	A122		Back Draft Dampers	(2)	SF	$50.00	(100)		
V	A122		Fire Dampers	(2)	SF	$120.00	(200)		
V	A122		Volume Dampers				Included		
V	A122		Registers, Grilles & Diffusers	6	EA	$150.00	1,000		
V	A122		Exhaust Louver	(2)	SF	$80.00	(200)		
		2270	Exhaust Fans [EF-1.36 thru 1.41] [Arrivals Level North - Ramp Support Areas] (4E	6	EA	$1,500.00	$9,000		
		2271	Motor Starters				Included		
		2272	Galvanized Ductwork	4,800	LBS	$8.50	$41,000		
		2273	Acoustic Lining & Thermal Insulation				Not Included		
		2274	Motorized Dampers				Not Included		
		2275	Fire Smoke Dampers				Not Included		
		2276	Back Draft Dampers	18	SF	$50.00	$1,000		
		2277	Fire Dampers	18	SF	$120.00	$2,000		
		2278	Volume Dampers				Included		
		2279	Registers, Grilles & Diffusers	22	EA	$150.00	$3,000		
		2280	Exhaust Louver	18	SF	$80.00	$1,000		
		2281							
		2282	Exhaust Fans [EF-R.01 thru R.07, R.09 thru R.11 and R.13 thru R.17] [Concourse	24,675	CFM	$4.00	$99,000		
		2283	Motor Starters	15	EA	$750.00	$11,000		
		2284	Galvanized Ductwork	9,000	LBS	$8.50	$77,000		
		2285	Acoustic Lining & Thermal Insulation				Not Included		
		2286	Motorized Dampers				Not Included		
		2287	Fire Smoke Dampers				Not Included		
		2288	Back Draft Dampers	34	SF	$50.00	$2,000		
		2289	Fire Dampers	34	SF	$120.00	$4,000		
		2290	Volume Dampers				Included		
		2291	Registers, Grilles & Diffusers	90	EA	$150.00	$14,000		
		2292	Exhaust Louver				Not Included		

Terminal/Concourse Building Building Area: 639,470 GSF

	Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
2293								
2294		Exhaust Fans [EF-R.08 and R.12]	2	EA	$2,500.00	$5,000		
2295		Motor Starters	2	EA	$750.00	$2,000		
2296		Galvanized Ductwork	200	LBS	$8.50	$2,000		
2297		Acoustic Lining & Thermal Insulation				Not Included		
2298		Motorized Dampers				Not Included		
2299		Fire Smoke Dampers				Not Included		
2300		Back Draft Dampers	2	SF	$50.00	$100		
2301		Fire Dampers	2	SF	$120.00	$200		
2302		Volume Dampers				Included		
2303		Registers, Grilles & Diffusers	2	EA	$150.00	$300		
2304		Exhaust Louver				Not Included		
2305								
2306		Smoke Exhaust Fans [SP-1 thru 14]	208,000	CFM	$1.00	$208,000		
2307		Motor Starters	14	EA	$750.00	$11,000		
2308		Galvanized Ductwork	4,200	LBS	$8.50	$36,000		
2309		Acoustic Lining & Thermal Insulation				Not Included		
2310		Motorized Dampers	88	SF	$95.00	$8,000		
2311		Fire Smoke Dampers				Not Included		
2312		Back Draft Dampers				Not Included		
2313		Fire Dampers				Not Included		
2314		Volume Dampers				Not Included		
2315		Registers, Grilles & Diffusers				Not Included		
2316		Exhaust Louver				Not Included		
2317								
2318		Man Cooler Fans [MC-1 thru 48] (3890 cfm each)	186,720	CFM	$1.25	$233,000		
2319		Motor Starters	48	EA	$750.00	$36,000		
2320		Galvanized Ductwork				Not Included		
2321		Acoustic Lining & Thermal Insulation				Not Included		
2322		Motorized Dampers				Not Included		
2323		Fire Smoke Dampers				Not Included		
2324		Back Draft Dampers				Not Included		
2325		Fire Dampers				Not Included		
2326		Volume Dampers				Not Included		
2327		Registers, Grilles & Diffusers				Not Included		
2328		Exhaust Louver				Not Included		
2329								
	S E50	Add 2 Ventless Dryers	2	EA	$1,000.00	$2,000		
2330		Dishwasher Exhaust				Not Included		
2331		Stair Pressurization Fans				Not Included		
2332								
2333		**Subtotal: Ventilation**					$1,321,660	

Terminal/Concourse Building Building Area: 639,470 GSF

		Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
		2334							
		2335							
		2336	**Concession Exhaust**						
		2337	Exhaust Fan[EF-XX]				Not Included		
		2338	Motor Starters				Not Included		
		2339	Electrostatic Precipitator (Scrubber)				Not Included		
		2340	Black Iron Kitchen Exhaust Ductwork				Not Included		
		2341	Calcium Silicate Insulation				Not Included		
		2342	GWB Fire Rated Enclosure				Not Included		
		2343	Motorized Dampers				Not Included		
		2344	Fire Smoke Dampers				Not Included		
		2345	Volume Dampers				Not Included		
		2346	Registers, Grilles & Diffusers				Not Included		
		2347	Exhaust Louver				Not Included		
		2348							
		2349	**Subtotal: Concession Exhaust**					$0	
		2350							
		2351							
		2352	**Equipment Connections**						
		2353							
S	H32	2354	VAV Piping Connection	190	EA	$250.00	$48,000		
S	H33		Add 3 KW Duct Mounted Humidifer in Duct serving Data Center	1	EA	$500.00	$1,000		
V	H147	2355	FCU Piping Connection	(20)	EA	$500.00	(10,000)		
		2356	*Cabinet / Unit Heater Piping Connection*				Included w/ Units		
		2357	AHU Connection	38	EA	$10,000.00	$380,000		
		2358	Dry Cooler Connection	2	EA	$10,000.00	$20,000		
		2359	Data Center AC Unit Connection	4	EA	$10,000.00	$40,000		
		2360	Telecom Closet AC Unit Connection	8	EA	$5,000.00	$40,000		
		2361	Heat Exchanger Connection	1	EA	$10,000.00	$10,000		
		2362	*Pump Connection - 16" Piping to Pump*	2	EA	$7,500.00	$15,000		
		2363	Pump Connection - 12" Piping to Pump	2	EA	$7,500.00	$15,000		
S		2364	Baseboard Heater Connection	(100)	EA	$100.00	(10,000)		
		2365							
		2366	**Subtotal: Equipment Connections**					$549,000	
		2367							
		2368							
		2369	**Emergency Generator System**						
		2370							
		2371	Emergency Generators				w/ Electrical		
		2372	Exhaust Flue and Muffler (install only)	1	LS	$10,000.00	$10,000		
		2373	Galvanized Ductwork				w/ Electrical		
		2374	Insulation				w/ Electrical		

Terminal/Concourse Building — **Building Area:** 639,470 GSF

	Rank		Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
		2375	Motorized Dampers				w/ Electrical		
		2376	Fire/Fire Smoke Dampers				w/ Electrical		
		2377	Radiator Intake & Exhaust Sound Traps				w/ Electrical		
		2378	Intake & Exhaust Louvers				w/ Electrical		
		2379							
		2380	**Subtotal: Emergency Generator System**					$10,000	
		2381							
		2382							
		2383	**Fuel Oil System for Generators**						
		2384					w/ Electrical		
		2385	**Subtotal: Fuel Oil System for Generators**					$0	
		2386							
		2387							
		2388	**Temporary Heating & Cooling Programs**						
		2389					w/ General Conditions		
		2390	**Subtotal: Temporary Heating & Cooling Programs**					$0	
		2391							
		2392							
		2393	***Automatic Temperature Controls***						
		2394	DDC Temperature Control System						
		2395	Engineering & Layout	1	LS	$200,000.00	$200,000		
		2396	Control Panels	1	LS	$500,000.00	$500,000		
		2397	Trunk Cabling	1	LS	$300,000.00	$300,000		
		2398	Computer Equipment & Programming	1	LS	$150,000.00	$150,000		
S	H28	2399	Control Points (allowance)						
		2400	BMS	4,000	Points	$800.00	$3,200,000		
S	H28	2401	Lighting Controls	1	EA	$50,000.00	$50,000		
S	H28	2402	Fire Alarm (Secondary Annunciation)	1	EA	$50,000.00	$50,000		
S	H28	2403	Power Management	1	EA	$50,000.00	$50,000		
S	H28	2404	Ramp Services	1	EA	$50,000.00	$50,000		
S	H28	2405	Terminal Information	1	EA	$50,000.00	$50,000		
S	H28	2406	Retail Metering	1	EA	$50,000.00	$50,000		
S	H28	2407	Transport Management (Verticle & Horizontal)	1	EA	$50,000.00	$50,000		
S	H28	2408	Baggage Handling Systems	1	EA	$50,000.00	$50,000		
		2409							
S	H24		Add Solenoid Valves Tied into BMS	35	Points	$800.00	$28,000		
S	H29		BMS for Energy Meter Connections @ Retail	100	Points	$400.00	$40,000		
S	H32		Add HW Coils to VAVs	190	Points	$200.00	$38,000		
S	H33		Add 3 KW Duct Mounted Humidifier in Duct Serving Data Center	4	Points	$800.00	$3,000		
		2410	**Subtotal: Automatic Temperature Controls**					$4,859,000	
		2411							
		2412	**Testing & Balancing**						
		2413	Building	639,470	SF	$0.15	$96,000		

Terminal/Concourse Building Building Area: 639,470 GSF

		Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
		2414							
		2415	**Subtotal: Testing & Balancing**					$96,000	
		2416							
		2417	**Seismic & Vibration Isolation**						
		2418	Building	639,470	SF	$0.25	$160,000		
		2419							
		2420	**Subtotal: Seismic & Vibration Isolation**					$160,000	
		2421							
		2422	**Miscellaneous**						
V	A87		Reduce North Concourse by 5040 SF - Building HVAC	(5,040)	GSF	$30.00	(151,000)		
V	A213		Delete SF @ North Floor	(5,690)	GSF	$20.00	(114,000)		
		2423	Independent (3rd party) Commissioning Agent				By Owner		
		2424	Work with Owner Furnished Commissioning Agent				Included		
		2425	Barometric Relief Vents For Elevator Shafts				Included		
		2426	Barometric Relief Vents For Stairs				Included		
		2427	Breaching/Flue for (6) Domestic Hot Water Heaters				Included		
		2428	Engineering & Layout				Included		
		2429	As-Built Drawings & O&M Manuals				Included		
		2430	System Identification				Included		
		2431	Scaffolding (for pipe/duct/devices controlled by this trade)				Included		
		2432	Rigging & Hoisting				Included		
		2433	Core Drilling				Included		
		2434	Firestopping				Included		
		2435	Startup & Test				Included		
		2436	Warranty				Included		
		2437	Misc specialities (gauges, thermometers, etc)				Included		
		2438	Shanty - Tool / Equip Storage				Included		
		2439	Temporary Services				Included		
		2440	Heat Tracing - Chilled Water - Furnish Only				Included		
		2441	Factory Testing of one new AHU				Included		
		2442	Permits & Fees				Included		
		2443	Controlled Inspections				Included		
		2444	Mockups				Not Included		
		2445	Fire Alarm/Life Safety				w/Electrical		
		2446	Motor Control Centers				w/Electrical		
		2447	Overtime				Not Included		
		2448	Painting of Ductwork/Piping				w/Painting		
		2449	Trenching/Excavation/Backfill				w/Foundations		
		2450	Concrete Pad Work				w/Concrete		
		2451	Roof Work				w/Roofing		
		2452	Domestic Cold Water Make-up Piping				w/Plumbing		
		2453							

Terminal/Concourse Building Building Area: 639,470 GSF

Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
2454	**Subtotal: Miscellaneous**					($265,000)	
2455							
2456							
2457	**H.V.A.C.**						$33,015,660
2458							
2459	**ELECTRICAL**						
2460							
2461							
2462	**Service & Power Distribution**						
2463							
2464	**North Side**						
2465	Incoming Service						
2466	Feeder #1 : 5KV Cables				with Site Work		
2467	Feeder #2: 5KV Cables				with Site Work		
2468	Feeder #3: 5KV Cables				with Site Work		
2469	Feeder #4: 5KV Cables				with Site Work		
2470	Feeder #5: 5KV Cables				with Site Work		
2471	Spot Network						
2472	Metering						
2473	Current Transformers	5	EA	$2,500.00	$12,500		
2474	Totalizing Meter	1	EA	$5,000.00	$5,000		
2475	Wire & Connectcions				Included		
2476	HV Switches with Key Interlock	5	EA	$50,000.00	$250,000		
2477	Feeder to T1-N: 1 Set - 3#500 + 4/0G - 4"C	15	LF	$107.00	$1,600		
2478	1333KVA Transformer-T1-N	1	EA	$150,000.00	$150,000		
2479	Load Side Feeder: 5 Sets - 4#500 + 1#500G - 4"C	15	LF	$631.25	$9,500		
2480	Network Protectors/Disconnect Switch	1	EA	$27,000.00	$27,000		
2481	*Feeder to Collector Bus: 5 Sets - 4#500 + 1#500G - 4"C*	25	LF	$631.25	$15,800		
2482	Feeder to T2-N: 1 Set - 3#500 + 4/0G - 4"C	15	LF	$107.00	$1,600		
2483	1333KVA Transformer-T2-N	1	EA	$150,000.00	$150,000		
2484	Load Side Feeder: 5 Sets - 4#500 + 1#500G - 4"C	15	LF	$631.25	$9,500		
2485	Network Protectors/Disconnect Switch	1	EA	$27,000.00	$27,000		
2486	*Feeder to Collector Bus: 5 Sets - 4#500 + 1#500G - 4"C*	25	LF	$631.25	$15,800		
2487	Feeder to T3-N: 1 Set - 3#500 + 4/0G - 4"C	15	LF	$107.00	$1,600		
2488	1333KVA Transformer-T3-N	1	EA	$150,000.00	$150,000		
2489	Load Side Feeder: 5 Sets - 4#500 + 1#500G - 4"C	15	LF	$631.25	$9,500		
2490	Network Protectors/Disconnect Switch	1	EA	$27,000.00	$27,000		
2491	Feeder to Collector Bus: 5 Sets - 4#500 + 1#500G - 4"C	25	LF	$631.25	$15,800		
2492	Feeder to T4-N: 1 Set - 3#500 + 4/0G - 4"C	15	LF	$107.00	$1,600		
2493	1333KVA Transformer-T4-N	1	EA	$150,000.00	$150,000		
2494	Load Side Feeder: 5 Sets - 4#500 + 1#500G - 4"C	15	LF	$631.25	$9,500		
2495	Network Protectors/Disconnect Switch	1	EA	$27,000.00	$27,000		
2496	Feeder to Collector Bus: 5 Sets - 4#500 + 1#500G - 4"C	25	LF	$631.25	$15,800		

JetBlue Terminal 5
JFK Airport New York, New York
60% CD Estimate
April 20, 2005

Terminal/Concourse Building **Building Area:** 639,470 GSF

Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
2497	Feeder to T5-N: 1 Set - 3#500 + 4/0G - 4"C	15	LF	$107.00	$1,600		
2498	1333KVA Transformer-T5-N	1	EA	$150,000.00	$150,000		
2499	Load Side Feeder: 5 Sets - 4#500 + 1#500G - 4"C	15	LF	$631.25	$9,500		
2500	Network Protectors/Disconnect Switch	1	EA	$27,000.00	$27,000		
2501	Feeder to Collector Bus: 5 Sets - 4#500 + 1#500G - 4"C	25	LF	$631.25	$15,800		
2502	Collector Bus (5000A, 480V, 3P)	5	EA	$75,000.00	$375,000		
2503	Busway #1	20	LF	$2,000.00	$40,000		
2504	Main Fuse	3	EA	$500.00	$1,500		
2505	Tap Box				Included		
2506	Bus Elbow				Included		
2507	Bus Stab Connection				Included		
2508	Feeder to Switchgear - SWGR-N-1				Included		
2509	Busway #2	20	LF	$2,000.00	$40,000		
2510	Main Fuse	3	EA	$500.00	$1,500		
2511	Tap Box				Included		
2512	Bus Elbow				Included		
2513	Bus Stab Connection				Included		
2514	Feeder to Switchgear - SWGR-N-2				Included		
2515							
2516	Switchgear - SWGR-N-1 (5000A, 480V)	1	EA	$250,000.00	$250,000		
2517	Line Side Tap Feeder #1: P40B	25	LF	$16.00	$400		
2518	30 A Fuse Switch				with Switchgear		
2519	Normal Feeder to ATS-N-3: P70B	15	LF	$24.30	$400		
2520	ATS-N-3 (60A, 4P) [EC-N??]				with EMPS		
2521	Feeder to Emergency Power Generation: P70B				with EMPS		
2522	Feeder to Transformer T-21-N: P40D	10	LF	$16.00	$200		
2523	15 KVA- T-21-N [EC-N??]	1	EA	$1,650.00	$2,000		
2524	Feeder to CU Bus	10	LF	$16.00	$200		
2525	Bus Duct (3P, 4W, CU)	1	EA	$2,500.00	$2,500		
2526	3P Fused Cutout Boxes				with Line Side Feeder		
2527	Load Side Circuit to FACP	4	EA	$1,000.00	$4,000		
2528	Line Side Tap Feeder #2: P95B	50	LF	$27.20	$1,400		
2529	800 A Fuse Switch				with Switchgear		
2530	Feeder to Fire Pump Controller: P95B	250	LF	$27.20	with EMPS		
2531	Fire Pump Controller (FBO)	1	LS	$5,000.00	$5,000		
2532	Connection from ATS to Fire Pump	1	EA	$3,000.00	$3,000		
2533	4000 A Tiebreaker				with Switchgear		
2534	Horizontal Bus between SWGR-N-1 & SWGR-N-2	15	LF	$2,000.00	$30,000		
2535	Transient Voltage Surge Suppressor				Included		
2536	Feeder to RET-PP-N2-1: P285D-X3	400	LF	$289.80	$115,900		
2537	RET-PP-N2-1 (800A) [EC-N2-1]	1	EA	$12,000.00	$12,000		
2538	Feeder to T29-N: P230B	15	LF	$59.25	$900		
2539	112.5 KVA Transformer-T29-N [EC-N2-1]	1	EA	$8,438.00	$8,400		
2540	Feeder to RET-LV-N1-1: P380G	15	LF	$126.25	$1,900		

Terminal/Concourse Building Building Area: 639,470 GSF

Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
2541	RET-LV-N1-1 (400A) [EC-N2-1]	1	EA	$6,000.00	$6,000		
2542	Feeder to M-PP-N1-1: P285D-X3	250	LF	$289.80	$72,500		
2543	M-PP-N1-1 (1000A) [EC-N1-2]	1	EA	$15,000.00	$15,000		
2544	Feeder to M-PP-N2-1: P285D-X3	50	LF	$289.80	$14,500		
2545	M-PP-N2-1 (1000A) [EC-N2-3]	1	EA	$15,000.00	$15,000		
2546	Feeder to M-PP-N1-2: P230D-X2	50	LF	$66.00	$3,300		
2547	M-PP-N1-2 (1000A) [EC-N2-3]	1	EA	$15,000.00	$15,000		
2548	Feeder to G-PP-N1-1: P230D-X2	100	LF	$132.00	$13,200		
2549	G-PP-N1-1 (1000A) [EC-N??]	1	EA	$15,000.00	$15,000		
2550	Feeder to DP-N1-1: P285D-X3	375	LF	$289.80	$108,700		
2551	DP-N1-1 (800A, 480V) [EC-N1-1]	1	EA	$16,000.00	$16,000		
2552	Feeder : P110D	15	LF	$39.45	$600		
2553	LP-N1-1 (225A)	1	EA	$3,375.00	$3,400		
2554	Feeder : P110D	15	LF	$39.45	$600		
2555	LP-N1-2 (225A)	1	EA	$3,375.00	$3,400		
2556	Feeder : P110D	15	LF	$39.45	$600		
2557	PP-N1-1 (225A)	1	EA	$3,375.00	$3,400		
2558	Feeder to T22-N: P150B	15	LF	$37.20	$600		
2559	75 KVA Transformer-T22-N	1	EA	$5,625.00	$5,600		
2560	Feeder : P230D	10	LF	$66.00	$700		
2561	Feeder : P40D	15	LF	$16.00	$200		
2562	RP-N1-1 (225A)	1	EA	$3,375.00	$3,400		
2563	Feeder : P40D	15	LF	$16.00	$200		
2564	RP-N1-2 (225A)	1	EA	$3,375.00	$3,400		
2565	Feeder : P40D	15	LF	$16.00	$200		
2566	RP-N1-3 (225A)	1	EA	$3,375.00	$3,400		
2567	Feeder to DP-N1-2: P285D-X3	250	LF	$289.80	$72,500		
2568	DP-N1-2 (800A, 480V) [EC-N1-2]	1	EA	$16,000.00	$16,000		
2569	Feeder : P110D	15	LF	$39.45	$600		
2570	LP-N1-3 (225A)	1	EA	$3,375.00	$3,400		
2571	Feeder : P110D	15	LF	$39.45	$600		
2572	LP-N1-4 (225A)	1	EA	$3,375.00	$3,400		
2573	Feeder : P110D	15	LF	$39.45	$600		
2574	PP-N1-2 (225A)	1	EA	$3,375.00	$3,400		
2575	Feeder to T23-N: P150B	15	LF	$37.20	$600		
2576	75 KVA Transformer-T23-N	1	EA	$5,625.00	$5,600		
2577	Feeder : P230D	10	LF	$66.00	$700		
2578	Feeder : P40D	15	LF	$16.00	$200		
2579	RP-N1-4 (225A)	1	EA	$3,375.00	$3,400		
2580	Feeder : P40D	15	LF	$16.00	$200		
2581	RP-N1-5 (225A)	1	EA	$3,375.00	$3,400		
2582	Feeder : P40D	15	LF	$16.00	$200		
2583	RP-N1-6 (225A)	1	EA	$3,375.00	$3,400		
2584	Feeder to DP-N2-1: P285D-X3	400	LF	$289.80	$115,900		

Terminal/Concourse Building Building Area: 639,470 GSF

Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
2585	DP-N2-1 (800A, 480V) [EC-N2-1]	1	EA	$16,000.00	$16,000		
2586	Feeder : P110D	15	LF	$39.45	$600		
2587	LP-N2-1 (225A)	1	EA	$3,375.00	$3,400		
2588	Feeder : P110D	15	LF	$39.45	$600		
2589	LP-N2-2 (225A)	1	EA	$3,375.00	$3,400		
2590	Feeder : P110D	15	LF	$39.45	$600		
2591	PP-N2-1 (225A)	1	EA	$3,375.00	$3,400		
2592	Feeder to T26-N: P150B	15	LF	$37.20	$600		
2593	75 KVA Transformer-T26N	1	EA	$5,625.00	$5,600		
2594	Feeder : P230D	10	LF	$66.00	$700		
2595	Feeder : P40D	15	LF	$16.00	$200		
2596	RP-N2-1 (225A)	1	EA	$3,375.00	$3,400		
2597	Feeder : P40D	15	LF	$16.00	$200		
2598	RP-N2-2 (225A)	1	EA	$3,375.00	$3,400		
2599	Feeder : P40D	15	LF	$16.00	$200		
2600	RP-N2-3 (225A)	1	EA	$3,375.00	$3,400		
2601	Feeder to ATS-N-1: P380D-X3	30	LF	$358.05	$10,700		
2602	ATS-N-1 [RM I-8Q12]				with EPS		
2603							
2604	Switchboard - EM-LSL-N (1000A, 480V)	1	EA	$150,000.00	$150,000		
2605	Feeder from ATS-N-1: P380D-X3	30	LF	$120.00	$3,600		
2606	Disconnect Switch - PDP-MCP-1				Included		
2607	Disconnect Switch - PDP-MCP-2				Included		
2608	Feeder to LSL-MPP-N2-1: P285-X3	400	LF	$120.00	$48,000		
2609	LSL-MPP-N2-1 [EC-N2-1]	1	EA	$5,000.00	$5,000		
2610	Feeder to LSL-MPP-N2-2: P285-X3	400	LF	$120.00	$48,000		
2611	LSL-MPP-N2-2 [EC-N2-2]	1	EA	$5,000.00	$5,000		
2612	Feeder to T7-N: P95B	350	LF	$100.00	$35,000		
2613	30 KVA Transformer-T7-N [EC-N1-1]	1	EA	$5,000.00	$5,000		
2614	Feeder to LSL-RP-N1-1: P95D	15	LF	$100.00	$1,500		
2615	LSL-RP-N1-1 [EC-N1-1]	1	EA	$5,000.00	$5,000		
2616	Feeder to LSL-LP-N1-1: P110D	15	LF	$40.00	$600		
2617	LSL-LP-N1-1 [EC-N1-1]	1	EA	$5,000.00	$5,000		
2618	Feeder to T8-N: P95B	250	LF	$100.00	$25,000		
2619	30 KVA Transformer-T8-N [EC-N1-2]	1	EA	$5,000.00	$5,000		
2620	Feeder to LSL-RP-N1-2: P95D	15	LF	$100.00	$1,500		
2621	LSL-RP-N1-2 [EC-N1-2]	1	EA	$5,000.00	$5,000		
2622	Feeder to LSL-LP-N1-2: P110D	15	LF	$40.00	$600		
2623	LSL-LP-N1-2 [EC-N1-2]	1	EA	$5,000.00	$5,000		
2624	Feeder to T9-N: P95B	150	LF	$100.00	$15,000		
2625	30 KVA Transformer-T9-N [EC-N1-3]	1	EA	$5,000.00	$5,000		
2626	Feeder to LSL-RP-N1-3: P95D	15	LF	$100.00	$1,500		
2627	LSL-RP-N1-3 [EC-N1-3]	1	EA	$5,000.00	$5,000		
2628	Feeder to LSL-LP-N1-3: P110D	15	LF	$40.00	$600		

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Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
2629	LSL-LP-N1-3 [EC-N1-3]	1	EA	$5,000.00	$5,000		
2630	Feeder to T10-N: P95B	100	LF	$100.00	$10,000		
2631	30 KVA Transformer-T10-N [EC-N1-4]	1	EA	$5,000.00	$5,000		
2632	Feeder to LSL-RP-N1-4: P95D	15	LF	$100.00	$1,500		
2633	LSL-RP-N1-4 [EC-N1-4]	1	EA	$5,000.00	$5,000		
2634	Feeder to LSL-LP-N1-4	15	LF	$40.00	$600		
2635	LSL-LP-N1-4 [EC-N1-4]	1	EA	$5,000.00	$5,000		
2636	Feeder to T11-N: P95B	400	LF	$100.00	$40,000		
2637	30 KVA Transformer-T11-N [EC-N2-1]	1	EA	$5,000.00	$5,000		
2638	Feeder to LSL-RP-N2-1	15	LF	$100.00	$1,500		
2639	LSL-RP-N2-1 [EC-N2-1]	1	EA	$5,000.00	$5,000		
2640	Feeder to LSL-LP-N2-1: P110D	15	LF	$40.00	$600		
2641	LSL-LP-N2-1 [EC-N2-1]	1	EA	$5,000.00	$5,000		
2642	Feeder to T12-N: P95B	400	LF	$100.00	$40,000		
2643	30 KVA Transformer-T12-N [EC-N2-2]	1	EA	$5,000.00	$5,000		
2644	Feeder to LSL-RP-N2-2	15	LF	$100.00	$1,500		
2645	LSL-RP-N2-2 [EC-N2-2]	1	EA	$5,000.00	$5,000		
2646	Feeder to LSL-LP-N2-2: P110D	15	LF	$40.00	$600		
2647	LSL-LP-N2-2 [EC-N2-2]	1	EA	$5,000.00	$5,000		
2648	Feeder to T13-N: P95B	100	LF	$100.00	$10,000		
2649	30 KVA Transformer-T13-N [EC-N2-3]	1	EA	$5,000.00	$5,000		
2650	Feeder to LSL-RP-N2-3	15	LF	$100.00	$1,500		
2651	LSL-RP-N2-3 [EC-N2-3]	1	EA	$5,000.00	$5,000		
2652	Feeder to LSL-LP-N2-3: P110D	15	LF	$40.00	$600		
2653	LSL-LP-N2-3 [EC-N2-3]	1	EA	$5,000.00	$5,000		
2654							
2655	Switchgear - SWGR-N-2 (5000A, 480V)	1	EA	$250,000.00	$250,000		
2656	4000 A Tiebreaker				with SWGR-N-1		
2657	Horizontal Bus between SWGR-N-1 & SWGR-N-2				with SWGR-N-1		
2658	Transient Voltage Surge Suppressor				Included		
2659	Feeder to RET-PP-N1-1: P230D-X2	100	LF	$132.00	$13,200		
2660	RET-PP-N2-1 (400 A) [EC-N1-4]	1	EA	$6,000.00	$6,000		
2661	Feeder to T30-N: P230B	15	LF	$59.25	$900		
2662	112.5 KVA Transformer-T30-N [EC-N1-4]	1	EA	$8,438.00	$8,400		
2663	Feeder to RET-LV-N1-1: P380G	15	LF	$126.25	$1,900		
2664	RET-LV-N1-1 (400 A) [EC-N1-4]	1	EA	$6,000.00	$6,000		
2665	Feeder to M-PP-N1-3: P285D-X3	100	LF	$289.80	$29,000		
2666	M-PP-N1-3 (1200 A) [EC-N??]	1	EA	$18,000.00	$18,000		
2667	Feeder to M-PP-N2-3: P285D-X3	400	LF	$289.80	$115,900		
2668	M-PP-N2-3 (800 A) [EC-N2-1]	1	EA	$12,000.00	$12,000		
2669	Feeder to M-PP-N2-2: P285D-X3	400	LF	$289.80	$115,900		
2670	M-PP-N2-2 (1000 A) [EC-N2-2]	1	EA	$15,000.00	$15,000		
2671	Feeder to G-PP-N1-2: P285D-X3	75	LF	$289.80	$21,700		
2672	G-PP-N1-2 (800 A) [EC-N??]	1	EA	$12,000.00	$12,000		

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Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
2673	Feeder to DP-N2-3: P285D-X3	50	LF	$289.80	$14,500		
2674	DP-N2-3 (800A, 480V) [EC-N2-3]	1	EA	$16,000.00	$16,000		
2675	Feeder : P110D	15	LF	$39.45	$600		
2676	LP-N2-5 (225A)	1	EA	$3,375.00	$3,400		
2677	Feeder : P110D	15	LF	$39.45	$600		
2678	LP-N2-6 (225A)	1	EA	$3,375.00	$3,400		
2679	Feeder : P110D	15	LF	$39.45	$600		
2680	PP-N2-3 (225A)	1	EA	$3,375.00	$3,400		
2681	Feeder to T28-N: P150B	15	LF	$37.20	$600		
2682	75 KVA Transformer-T28N	1	EA	$5,625.00	$5,600		
2683	Feeder : P230D	10	LF	$66.00	$700		
2684	Feeder : P40D	15	LF	$16.00	$200		
2685	RP-N2-7 (225A)	1	EA	$3,375.00	$3,400		
2686	Feeder : P40D	15	LF	$16.00	$200		
2687	RP-N2-8 (225A)	1	EA	$3,375.00	$3,400		
2688	Feeder : P40D	15	LF	$16.00	$200		
2689	RP-N2-9 (225A)	1	EA	$3,375.00	$3,400		
2690	Feeder to DP-N2-2: P380D-X3	400	LF	$358.05	$143,200		
2691	DP-N2-2 (800A, 480V) [EC-N2-2]	1	EA	$16,000.00	$16,000		
2692	Feeder : P110D	15	LF	$39.45	$600		
2693	LP-N2-4 (225A)	1	EA	$3,375.00	$3,400		
2694	Feeder : P110D	15	LF	$39.45	$600		
2695	PP-N2-2 (225A)	1	EA	$3,375.00	$3,400		
2696	Feeder to T27-N: P150B	15	LF	$37.20	$600		
2697	75 KVA Transformer-T27N	1	EA	$5,625.00	$5,600		
2698	Feeder : P230D	10	LF	$66.00	$700		
2699	Feeder : P40D	15	LF	$16.00	$200		
2700	RP-N2-4 (225A)	1	EA	$3,375.00	$3,400		
2701	Feeder : P40D	15	LF	$16.00	$200		
2702	RP-N2-5 (225A)	1	EA	$3,375.00	$3,400		
2703	Feeder : P40D	15	LF	$16.00	$200		
2704	RP-N2-6 (225A)	1	EA	$3,375.00	$3,400		
2705	Feeder to DP-N1-4: P285D-X3	100	LF	$289.80	$29,000		
2706	DP-N1-4 (800A, 480V) [EC-N1-4]	1	EA	$5,625.00	$5,600		
2707	Feeder : P110D	15	LF	$39.45	$600		
2708	LP-N1-7 (225A)	1	EA	$3,375.00	$3,400		
2709	Feeder : P110D	15	LF	$39.45	$600		
2710	LP-N1-8 (225A)	1	EA	$3,375.00	$3,400		
2711	Feeder : P110D	15	LF	$39.45	$600		
2712	PP-N1-4 (225A)	1	EA	$3,375.00	$3,400		
2713	Feeder to T24-N: P150B	15	LF	$37.20	$600		
2714	75 KVA Transformer-T24-N	1	EA	$5,625.00	$5,600		
2715	Feeder : P230D	10	LF	$66.00	$700		
2716	Feeder : P40D	15	LF	$16.00	$200		

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Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
2717	RP-N1-10 (225A)	1	EA	$3,375.00	$3,400		
2718	Feeder : P40D	15	LF	$16.00	$200		
2719	RP-N1-11 (225A)	1	EA	$3,375.00	$3,400		
2720	Feeder : P40D	15	LF	$16.00	$200		
2721	RP-N1-12 (225A)	1	EA	$3,375.00	$3,400		
2722	Feeder to DP-N1-3: P285D-X3	150	LF	$289.80	$43,500		
2723	DP-N1-3 (800A, 480V) [EC-N1-3]	1	EA	$16,000.00	$16,000		
2724	Feeder : P110D	15	LF	$39.45	$600		
2725	LP-N1-5 (225A)	1	EA	$3,375.00	$3,400		
2726	Feeder : P110D	15	LF	$39.45	$600		
2727	LP-N1-6 (225A)	1	EA	$5,000.00	$5,000		
2728	Feeder : P110D	15	LF	$39.45	$600		
2729	PP-N1-3 (225A)	1	EA	$3,375.00	$3,400		
2730	Feeder to T24-N: P150B	15	LF	$37.20	$600		
2731	75 KVA Transformer-T24-N	1	EA	$3,375.00	$3,400		
2732	Feeder : P230D	10	LF	$66.00	$700		
2733	Feeder : P40D	15	LF	$16.00	$200		
2734	RP-N1-7 (225A)	1	EA	$3,375.00	$3,400		
2735	Feeder : P40D	15	LF	$16.00	$200		
2736	RP-N1-8 (225A)	1	EA	$3,375.00	$3,400		
2737	Feeder : P40D	15	LF	$16.00	$200		
2738	RP-N1-9 (225A)	1	EA	$3,375.00	$3,400		
2739	Feeder to ATS-N-2: P380D-X3	30	LF	$358.05	$10,700		
2740	ATS-N-2 (1000 A, 4P) [EC-N??]			Included with Emergency Power System			
2741							
2742	Switchboard - EM-EL-N (1000A, 480V)	1	EA	$150,000.00	$150,000		
2743	Feeder from ATS-N-2: P380D-X3	75	LF	$120.00	$9,000		
2744	Feeder to PP-GEN: P110D	100	LF	$40.00	$4,000		
2745	PP-GEN [EC-N??]	1	EA	$5,000.00	$5,000		
2746	Feeder to EL-LP-N2-3: P230D	50	LF	$40.00	$2,000		
2747	EL-LP-N2-3 [EC-N2-3]	1	EA	$5,000.00	$5,000		
2748	Feeder to T20-N: P70B	15	LF	$40.00	$600		
2749	30KVA Transformer - T20-N	1	EA	$5,000.00	$5,000		
2750	Feeder to EL-RP-N2-3: P95D	15	LF	$40.00	$600		
2751	EL-RP-N2-3	1	EA	$5,000.00	$5,000		
2752	Feeder to IT-N2-2: P70D	15	LF	$40.00	$600		
2753	IT-N2-2 [EC-N??]	1	EA	$5,000.00	$5,000		
2754	Feeder to T31-N: P95B	100	LF	$40.00	$4,000		
2755	30KVA Transformer - T31-N [EC-N??]	1	EA	$5,000.00	$5,000		
2756	Feeder to PP-RAMP-1: P95D	15	LF	$40.00	$600		
2757	PP-RAMP-1	1	EA	$5,000.00	$5,000		
2758	Feeder to EL-LP-N2-2: P110D	400	LF	$40.00	$16,000		
2759	EL-LP-N2-2 [EC-N2-2]	1	EA	$5,000.00	$5,000		
2760	Feeder to T19-N: P70B	15	LF	$40.00	$600		

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Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
2761	30KVA Transformer - T19-N	1	EA	$5,000.00	$5,000		
2762	Feeder to EL-RP-N2-2: P95D	15	LF	$40.00	$600		
2763	EL-RP-N2-2	1	EA	$5,000.00	$5,000		
2764	Feeder to IT-N2-1: P70D	15	LF	$40.00	$600		
2765	IT-N2-1 [EC-N??]	1	EA	$5,000.00	$5,000		
2766	Feeder to EL-LP-N2-1: 110D	400	LF	$40.00	$16,000		
2767	EL-LP-N2-1 [EC-N2-1]	1	EA	$5,000.00	$5,000		
2768	Feeder to T18-N: P70B	15	LF	$40.00	$600		
2769	30KVA Transformer - T18-N	1	EA	$5,000.00	$5,000		
2770	Feeder to EL-RP-N2-1: P95D	15	LF	$40.00	$600		
2771	EL-RP-N2-1	1	EA	$5,000.00	$5,000		
2772	Feeder to EL-LP-N1-4: 110D	100	LF	$40.00	$4,000		
2773	EL-LP-N1-4 [EC-N1-4]	1	EA	$5,000.00	$5,000		
2774	Feeder to T17-N: P70B	15	LF	$40.00	$600		
2775	30KVA Transformer - T17-N	1	EA	$5,000.00	$5,000		
2776	Feeder to EL-RP-N1-4: P95D	15	LF	$40.00	$600		
2777	EL-RP-N1-4	1	EA	$5,000.00	$5,000		
2778	Feeder to EL-LP-N1-3: 110D	150	LF	$40.00	$6,000		
2779	EL-LP-N1-3 [EC-N1-3]	1	EA	$5,000.00	$5,000		
2780	Feeder to T16-N: P70B	15	LF	$40.00	$600		
2781	30KVA Transformer - T16-N	1	EA	$5,000.00	$5,000		
2782	Feeder to EL-RP-N1-3: P95D	15	LF	$40.00	$600		
2783	EL-RP-N1-3	1	EA	$5,000.00	$5,000		
2784	Feeder to IT-N1-1: P70D	15	LF	$40.00	$600		
2785	IT-N1-1 [EC-N??]	1	EA	$5,000.00	$5,000		
2786	Feeder to EL-LP-N1-2: 110D	250	LF	$40.00	$10,000		
2787	EL-LP-N1-2 [EC-N1-2]	1	EA	$5,000.00	$5,000		
2788	Feeder to T15-N: P70B	15	LF	$40.00	$600		
2789	30KVA Transformer - T15-N	1	EA	$5,000.00	$5,000		
2790	Feeder to EL-RP-N1-2: P95D	15	LF	$40.00	$600		
2791	EL-RP-N1-2	1	EA	$5,000.00	$5,000		
2792	Feeder to EL-LP-N1-1: 110D	350	LF	$40.00	$14,000		
2793	EL-LP-N1-1 [EC-N1-1]	1	EA	$5,000.00	$5,000		
2794	Feeder to T14-N: P70B	15	LF	$40.00	$600		
2795	30KVA Transformer - T14-N	1	EA	$5,000.00	$5,000		
2796	Feeder to EL-RP-N1-1: P95D	15	LF	$40.00	$600		
2797	EL-RP-N1-1	1	EA	$5,000.00	$5,000		
2798							
2799	**South Side**						
2800	Incoming Service						
2801	Feeder #1 : 5KV Cables						with Site Work
2802	Feeder #2: 5KV Cables						with Site Work
2803	Feeder #3: 5KV Cables						with Site Work
2804	Feeder #4: 5KV Cables						with Site Work

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Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
2805	Feeder #5: 5KV Cables				with Site Work		
2806	Spot Network						
2807	Metering						
2808	Current Transformers	5	EA	$2,500.00	$12,500		
2809	Totalizing Meter	1	EA	$5,000.00	$5,000		
2810	Wire & Connectcions				Included		
2811	HV Switches with Key Interlock	5	EA	$50,000.00	$250,000		
2812	Feeder to T1-S: 1 Set - 3#500 + 4/0G - 4"C	15	LF	$107.00	$1,600		
2813	1333KVA Transformer-T1-S	1	EA	$150,000.00	$150,000		
2814	Load Side Feeder: 5 Sets - 4#500 + 1#500G - 4"C	15	LF	$631.25	$9,500		
2815	Network Protectors/Disconnect Switch	1	EA	$27,000.00	$27,000		
2816	Feeder to Collector Bus: 5 Sets - 4#500 + 1#500G - 4"C	25	LF	$631.25	$15,800		
2817	Feeder to T2-S: 1 Set - 3#500 + 4/0G - 4"C	15	LF	$107.00	$1,600		
2818	1333KVA Transformer-T2-S	1	EA	$150,000.00	$150,000		
2819	Load Side Feeder: 5 Sets - 4#500 + 1#500G - 4"C	15	LF	$631.25	$9,500		
2820	Network Protectors/Disconnect Switch	1	EA	$27,000.00	$27,000		
2821	Feeder to Collector Bus: 5 Sets - 4#500 + 1#500G - 4"C	25	LF	$631.25	$15,800		
2822	Feeder to T3-S: 1 Set - 3#500 + 4/0G - 4"C	15	LF	$107.00	$1,600		
2823	1333KVA Transformer-T3-S	1	EA	$150,000.00	$150,000		
2824	Load Side Feeder: 5 Sets - 4#500 + 1#500G - 4"C	15	LF	$631.25	$9,500		
2825	Network Protectors/Disconnect Switch	1	EA	$27,000.00	$27,000		
2826	Feeder to Collector Bus: 5 Sets - 4#500 + 1#500G - 4"C	25	LF	$631.25	$15,800		
2827	Feeder to T4-S: 1 Set - 3#500 + 4/0G - 4"C	15	LF	$107.00	$1,600		
2828	1333KVA Transformer-T4-S	1	EA	$150,000.00	$150,000		
2829	Load Side Feeder: 5 Sets - 4#500 + 1#500G - 4"C	15	LF	$631.25	$9,500		
2830	Network Protectors/Disconnect Switch	1	EA	$27,000.00	$27,000		
2831	Feeder to Collector Bus: 5 Sets - 4#500 + 1#500G - 4"C	25	LF	$631.25	$15,800		
2832	Feeder to T5-S: 1 Set - 3#500 + 4/0G - 4"C	15	LF	$107.00	$1,600		
2833	1333KVA Transformer-T5-S	1	EA	$150,000.00	$150,000		
2834	Load Side Feeder: 5 Sets - 4#500 + 1#500G - 4"C	15	LF	$631.25	$9,500		
2835	Network Protectors/Disconnect Switch	1	EA	$27,000.00	$27,000		
2836	Feeder to Collector Bus: 5 Sets - 4#500 + 1#500G - 4"C	25	LF	$631.25	$15,800		
2837	Collector Bus (5000A, 480V, 3P)	5	EA	$75,000.00	$375,000		
2838	Busway #1	20	LF	$2,000.00	$40,000		
2839	Main Fuse	3	EA	$500.00	$1,500		
2840	Tap Box				Included		
2841	Bus Elbow				Included		
2842	Bus Stab Connection				Included		
2843	Feeder to Switchgear - SWGR-N-1				Included		
2844	Busway #2	20	LF	$2,000.00	$40,000		
2845	Main Fuse	3	EA	$500.00	$1,500		
2846	Tap Box				Included		
2847	Bus Elbow				Included		
2848	Bus Stab Connection				Included		

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Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
2849	Feeder to Switchgear - SWGR-N-1				Included		
2850							
2851	Switchgear - SWGR-S-1 (5000A, 480V)	1	EA	$250,000.00	$250,000		
2852	Line Side Tap Feeder #1: P40B	25	LF	$16.00	$400		
2853	30 A Fuse Switch				with Switchgear		
2854	Normal Feeder to ATS-S-3: P70B	15	LF	$24.30	$400		
2855	ATS-N-3 (60A, 4P) [EC-N??]				with EMPS		
2856	Feeder from Emergency Power Generation: P70B				with EMPS		
2857	Feeder to Transformer T-21-N: P40D	10	LF	$16.00	$200		
2858	15 KVA- T-21-S [EC-N??]	1	EA	$1,650.00	$2,000		
2859	Feeder to CU Bus	10	LF	$16.00	$200		
2860	Bus Duct (3P, 4W, CU)	1	EA	$2,500.00	$2,500		
2861	3P Fused Cutout Boxes				with Line Side Feeder		
2862	Load Side Circuit to FACP	4	EA	$1,000.00	$4,000		
2863	Line Side Tap Feeder #2: P95B	50	LF	$27.20	$1,400		
2864	800 A Fuse Switch				with Switchgear		
2865	Feeder to Fire Pump Controller: P95B	250	LF	$27.20	with EMPS		
2866	Fire Pump Controller (FBO)	1	LS	$5,000.00	$5,000		
2867	Connection from ATS to Fire Pump	1	EA	$3,000.00	$3,000		
2868	4000 A Tiebreaker				with Switchgear		
2869	Horizontal Bus between SWGR-N-1 & SWGR-N-2	15	LF	$2,000.00	$30,000		
2870	Transient Voltage Surge Suppressor				Included		
2871	Feeder to RET-PP-S1-1: P230D-X2	300	LF	$138.50	$41,600		
2872	RET-PP-S1-1 (800 A) [EC-S1-2]	1	EA	$12,000.00	$12,000		
2873	Feeder to T23-S: P230B	15	LF	$59.25	$900		
2874	75 KVA Transformer-T23-S	1	EA	$8,250.00	$8,300		
2875	Feeder to RET-LV-S1-1: P380G	15	LF	$126.25	$1,900		
2876	RET-LV-S1-1 (400 A)	1	EA	$6,000.00	$6,000		
2877	Feeder to M-PP-S1-3: P310D-X3	200	LF	$312.00	$62,400		
2878	M-PP-S1-3 (600 A) [EC-S1-3]	1	EA	$9,000.00	$9,000		
2879	Feeder to DP-S2-1: P310D-X3	300	LF	$312.00	$93,600		
2880	DP-S2-1 (800A, 277/480V) [EC-S2-1]	1	EA	$16,000.00	$16,000		
2881	Feeder : P110D	15	LF	$39.45	$600		
2882	LP-S2-1 (225 A)	1	EA	$3,375.00	$3,400		
2883	Feeder : P110D	15	LF	$39.45	$600		
2884	LP-S2-2 (225 A)	1	EA	$3,375.00	$3,400		
2885	Feeder : P110D	15	LF	$39.45	$600		
2886	PP-S2-1 (225 A)	1	EA	$3,375.00	$3,400		
2887	Feeder to T20-S: P150B	15	LF	$37.20	$600		
2888	75 KVA Transformer-T20S	1	EA	$5,625.00	$5,600		
2889	Feeder : P230D	10	LF	$66.00	$700		
2890	Feeder : P40D	15	LF	$16.00	$200		
2891	RP-S2-1 (225A)	1	EA	$3,375.00	$3,400		
2892	Feeder : P40D	15	LF	$16.00	$200		

Terminal/Concourse Building Building Area: 639,470 GSF

Rank	Building System	Quantity	Unit	Unit Cost	Estimate	*Intermediate Totals*	Current System Totals
2893	RP-S2-2 (225A)	1	EA	$3,375.00	$3,400		
2894	Feeder : P40D	15	LF	$16.00	$200		
2895	RP-S2-3 (225A)	1	EA	$3,375.00	$3,400		
2896	Feeder to DP-S1-1: P310D-X3	400	LF	$302.40	$121,000		
2897	DP-S1-1 (800A, 277/480V) [EC-S1-1]	1	EA	$16,000.00	$16,000		
2898	Feeder : P110D	15	LF	$39.45	$600		
2899	LP-S1-1 (225 A)	1	EA	$3,375.00	$3,400		
2900	Feeder : P110D	15	LF	$39.45	$600		
2901	LP-S1-2 (225 A)	1	EA	$3,375.00	$3,400		
2902	Feeder : P110D	15	LF	$39.45	$600		
2903	PP-S1-1 (225 A)	1	EA	$3,375.00	$3,400		
2904	Feeder to T17-S: P150B	1	EA	$37.20	$0		
2905	75 KVA Transformer-T17-S	1	EA	$5,625.00	$5,600		
2906	Feeder : P230D	10	LF	$66.00	$700		
2907	Feeder : P40D	15	LF	$16.00	$200		
2908	RP-S1-1 (225A)	1	EA	$3,375.00	$3,400		
2909	Feeder : P40D	15	LF	$16.00	$200		
2910	RP-S1-2 (225A)	1	EA	$3,375.00	$3,400		
2911	Feeder : P40D	15	LF	$16.00	$200		
2912	RP-S1-3 (225A)	1	EA	$3,375.00	$3,400		
2913	Feeder to G-PP-S1-1: P310D-X3	100	LF	$302.40	$30,200		
2914	G-PP-S1-1 (1000 A) [EC-S??]	1	EA	$15,000.00	$15,000		
2915	Feeder to M-PP-S2-1: P230D-X2	270	LF	$132.00	$35,600		
2916	M-PP-S2-1 (800 A) [EC-S2-1]	1	EA	$12,000.00	$12,000		
2917	Feeder to M-PP-S1-1: P380G-X3	400	LF	$378.75	$151,500		
2918	M-PP-S1-1 (1600 A) [EC-S1-1]	1	EA	$24,000.00	$24,000		
2919	Feeder to M-PP-S2-3: P285G-X3	40	LF	$378.75	$15,200		
2920	M-PP-S2-3 (800 A) [EC-S2-2]	1	EA	$12,000.00	$12,000		
2921	Feeder to ATS-S-1: P380D-X3	25	LF	$358.05	$9,000		
2922	ATS-S-1 (1000 A, 4P) [EC-S??]			Included with Emergency Power System			
2923							
2924	Switchboard - EM-LSL-S (1000A, 480V)	1	EA	$150,000.00	$150,000		
2925	Feeder from ATS-S-1: P380D-X3	100	LF	$302.40	$30,200		
2926	Feeder to PDP-MCP-4 thru 6: P380D-X3	100	LF	$120.00	$12,000		
2927	Disconnect Switch - PDP-MCP-4				Included		
2928	Disconnect Switch - PDP-MCP-5				Included		
2929	Disconnect Switch - PDP-MCP-6				Included		
2930	Feeder to LSL-MPP-S2-1: P310D-X3	270	LF	$120.00	$32,400		
2931	LSL-MPP-S2-1 [EC-S2-1]	1	EA	$5,000.00	$5,000		
2932	Feeder to LSL-MPP-S2-2: P310D-X3	40	LF	$120.00	$4,800		
2933	LSL-MPP-S2-2 [EC-S2-2]	1	EA	$5,000.00	$5,000		
2934	Feeder to T6-S: P95B	400	LF	$100.00	$40,000		
2935	30 KVA Transformer-T6-S [EC-S1-1]	1	EA	$5,000.00	$5,000		
2936	Feeder to LSL-RP-S1-1: P95D	15	LF	$100.00	$1,500		

Terminal/Concourse Building Building Area: 639,470 GSF

Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
2937	LSL-RP-S1-1 [EC-S1-1]	1	EA	$5,000.00	$5,000		
2938	Feeder to LSL-LP-S1-1: P110D	15	LF	$40.00	$600		
2939	LSL-LP-S1-1 [EC-S1-1]	1	EA	$5,000.00	$5,000		
2940	Feeder to T7-S: P95B	290	LF	$100.00	$29,000		
2941	30 KVA Transformer-T7-S [EC-S1-2]	1	EA	$5,000.00	$5,000		
2942	Feeder to LSL-RP-S1-2: P95D	15	LF	$100.00	$1,500		
2943	LSL-RP-S1-2 [EC-S1-2]	1	EA	$5,000.00	$5,000		
2944	Feeder to LSL-LP-S1-2: P110D	15	LF	$40.00	$600		
2945	LSL-LP-S1-2 [EC-S1-2]	1	EA	$5,000.00	$5,000		
2946	Feeder to T8-S: P95B	175	LF	$100.00	$17,500		
2947	30 KVA Transformer-T8-S [EC-S1-3]	1	EA	$5,000.00	$5,000		
2948	Feeder to LSL-RP-S1-3: P95D	15	LF	$100.00	$1,500		
2949	LSL-RP-S1-3 [EC-S1-3]	1	EA	$5,000.00	$5,000		
2950	Feeder to LSL-LP-S1-3: P110D	15	LF	$40.00	$600		
2951	LSL-LP-S1-3 [EC-S1-3]	1	EA	$5,000.00	$5,000		
2952	Feeder to T9-S: P95B	270	LF	$100.00	$27,000		
2953	30 KVA Transformer-T9-S [EC-S2-1]	1	EA	$5,000.00	$5,000		
2954	Feeder to LSL-RP-S2-1: P95D	15	LF	$100.00	$1,500		
2955	LSL-RP-S2-1 [EC-S2-1]	1	EA	$5,000.00	$5,000		
2956	Feeder to LSL-LP-S2-1	15	LF	$40.00	$600		
2957	LSL-LP-S2-1 [EC-S2-1]	1	EA	$5,000.00	$5,000		
2958	Feeder to T10-S: P95B	40	LF	$100.00	$4,000		
2959	30 KVA Transformer-T10-S [EC-S2-2]	1	EA	$5,000.00	$5,000		
2960	Feeder to LSL-RP-S2-2: P95B	15	LF	$100.00	$1,500		
2961	LSL-RP-S2-2 [EC-S2-2]	1	EA	$5,000.00	$5,000		
2962	Feeder to LSL-LP-S2-2: P110D	15	LF	$40.00	$600		
2963	LSL-LP-S2-2 [EC-S2-2]	1	EA	$5,000.00	$5,000		
2964							
2965	Switchgear - SWGR-S-2 (5000A, 480V)	1	EA	$250,000.00	$250,000		
2966	Feeder to M-PP-S1-4: P310D-X3	100	LF	$302.40	$30,200		
2967	M-PP-S1-4 (800 A) [EC-S???]	1	EA	$12,000.00	$12,000		
2968	Feeder to RET-PP-S2-1: P310D-X3	100	LF	$302.40	$30,200		
2969	RET-PP-S2-1 (800 A) [Retail Closet-3-10C11]	1	EA	$12,000.00	$12,000		
2970	Feeder to T22-S: P380B	15	LF	$99.20	$1,500		
2971	75 KVA Transformer-T22-S	1	EA	$8,250.00	$8,300		
2972	Feeder to RET-LV-S2-1	15	LF	$126.25	$1,900		
2973	RET-LV-S2-1 (400 A)	1	EA	$6,000.00	$6,000		
2974	Feeder to M-PP-S2-2: P230D-X2	40	LF	$132.00	$5,300		
2975	M-PP-S2-2 (1000 A) [EC-S2-2]	1	EA	$15,000.00	$15,000		
2976	Feeder to M-PP-S1-2: P380G-X3	290	LF	$378.75	$109,800		
2977	M-PP-S1-2 (1200 A) [EC-S1-2]	1	EA	$18,000.00	$18,000		
2978	Feeder to DP-S1-3: P380G-X4	175	LF	$505.00	$88,400		
2979	DP-S1-3 (800A, 480V) [EC-S1-3]	1	EA	$16,000.00	$16,000		
2980	Feeder : P110D	15	LF	$39.45	$600		

Terminal/Concourse Building Building Area: 639,470 GSF

Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
2981	LP-S1-5 (225A)	1	EA	$3,375.00	$3,400		
2982	Feeder : P110D	15	LF	$39.45	$600		
2983	LP-S1-6 (225A)	1	EA	$3,375.00	$3,400		
2984	Feeder : P110D	15	LF	$39.45	$600		
2985	PP-S1-3 (225A)	1	EA	$3,375.00	$3,400		
2986	Feeder to T19-S: P150B	15	LF	$37.20	$600		
2987	75 KVA Transformer-T19-S	1	EA	$8,259.00	$8,300		
2988	Feeder : P230D	10	LF	$66.00	$700		
2989	Feeder : P40D	15	LF	$16.00	$200		
2990	RP-S1-7 (225A)	1	EA	$3,375.00	$3,400		
2991	Feeder : P40D	15	LF	$16.00	$200		
2992	RP-S1-8 (225A)	1	EA	$3,375.00	$3,400		
2993	Feeder : P40D	15	LF	$16.00	$200		
2994	RP-S1-10 (225A)	1	EA	$3,375.00	$3,400		
2995	Feeder to G-PP-S1-2: P380G-X4	100	LF	$505.00	$50,500		
2996	G-PP-S1-2 [EC-S???]	1	EA	$5,000.00	$5,000		
2997	Feeder to DP-2-2: P310D-X3	40	LF	$302.40	$12,100		
2998	DP-S2-2 (800A, 480V) [EC-S2-2]	1	EA	$16,000.00	$16,000		
2999	Feeder : P110D	15	LF	$39.45	$600		
3000	LP-S2-3 (225 A)	1	EA	$3,375.00	$3,400		
3001	Feeder : P110D	15	LF	$39.45	$600		
3002	LP-S2-4 (225A)	1	EA	$3,375.00	$3,400		
3003	Feeder : P110D	15	LF	$39.45	$600		
3004	PP-S2-2 (225 A)	1	EA	$3,375.00	$3,400		
3005	Feeder to T21-S: P150B	15	LF	$37.20	$600		
3006	75 KVA Transformer-T21S	1	EA	$8,350.00	$8,400		
3007	Feeder : P230D	10	LF	$66.00	$700		
3008	Feeder : P40D	15	LF	$16.00	$200		
3009	RP-S2-4 (225A)	1	EA	$3,375.00	$3,400		
3010	Feeder : P40D	15	LF	$16.00	$200		
3011	RP-S2-5 (225A)	1	EA	$3,375.00	$3,400		
3012	Feeder : P40D	15	LF	$16.00	$200		
3013	RP-S2-6 (225A)	1	EA	$3,375.00	$3,400		
3014	Feeder to DP-S1-2: P310D-X3	290	LF	$302.40	$87,700		
3015	DP-S1-2 (800A, 480V) [EC-S1-2]	1	EA	$16,000.00	$16,000		
3016	Feeder : P110D	15	LF	$39.45	$600		
3017	LP-S1-3 (225 A)	1	EA	$3,375.00	$3,400		
3018	Feeder : P110D	15	LF	$39.45	$600		
3019	LP-S1-4 (225 A)	1	EA	$3,375.00	$3,400		
3020	Feeder : P110D	15	LF	$39.45	$600		
3021	PP-S1-2 (225 A)	1	EA	$3,375.00	$3,400		
3022	Feeder to T18-S: P150B	15	LF	$37.20	$600		
3023	75 KVA Transformer-T18-S	1	EA	$8,250.00	$8,300		
3024	Feeder : P230D	10	LF	$66.00	$700		

Terminal/Concourse Building Building Area: 639,470 GSF

Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
3025	Feeder : P40D	15	LF	$16.00	$200		
3026	RP-S1-4 (225A)	1	EA	$3,375.00	$3,400		
3027	Feeder : P40D	15	LF	$16.00	$200		
3028	RP-S1-5 (225A)	1	EA	$3,375.00	$3,400		
3029	Feeder : P40D	15	LF	$16.00	$200		
3030	RP-S1-6 (225A)	1	EA	$3,375.00	$3,400		
3031	Feeder to ATS-S-2: P380D-X3	30	LF	$358.05	$10,700		
3032	ATS-S-2 (1000 A, 4P) [EC-S??]			Included with Emergency Power System			
3033							
3034	Switchboard - EM-EL-S (1000A, 480V)	1	EA	$150,000.00	$150,000		
3035	Feeder from ATS-S-2: P380D-X3	75	LF	$120.00	$9,000		
3036	Feeder to MCP-0S1: P110D	100	LF	$40.00	$4,000		
3037	MCP-0S1 [EC-S??]	1	EA	$5,000.00	$5,000		
3038	Feeder to EL-LP-S2-2: P110D	100	LF	$40.00	$4,000		
3039	EL-LP-S2-2 [EC-S2-2]	1	EA	$5,000.00	$5,000		
3040	Feeder to T15-S: P70B	15	LF	$40.00	$600		
3041	30KVA Transformer - T15-S	1	EA	$5,000.00	$5,000		
3042	Feeder to EL-RP-S2-2: P95D	15	LF	$40.00	$600		
3043	EL-RP-S2-2	1	EA	$5,000.00	$5,000		
3044	Feeder to IT-S2-1: P70D	15	LF	$40.00	$600		
3045	IT-S2-1 [EC-S??]	1	EA	$5,000.00	$5,000		
3046	Feeder to EL-LP-S2-1: P110D	270	LF	$40.00	$10,800		
3047	EL-LP-S2-1 [EC-S2-1]	1	EA	$5,000.00	$5,000		
3048	Feeder to T14-S: P70B	15	LF	$40.00	$600		
3049	30KVA Transformer - T14-S	1	EA	$5,000.00	$5,000		
3050	Feeder to EL-RP-S2-1: P95D	15	LF	$40.00	$600		
3051	EL-RP-S2-1	1	EA	$5,000.00	$5,000		
3052	Feeder to EL-LP-S1-3: 110D	175	LF	$40.00	$7,000		
3053	EL-LP-S1-3 [EC-S1-3]	1	EA	$5,000.00	$5,000		
3054	Feeder to T13-S: P70B	15	LF	$40.00	$600		
3055	30KVA Transformer - T13-S	1	EA	$5,000.00	$5,000		
3056	Feeder to EL-RP-S1-3: P95D	15	LF	$40.00	$600		
3057	EL-RP-S1-3	1	EA	$5,000.00	$5,000		
3058	Feeder to EL-LP-S1-2: 110D	290	LF	$40.00	$11,600		
3059	EL-LP-S1-2 [EC-S1-2]	1	EA	$5,000.00	$5,000		
3060	Feeder to T12-S: P70B	15	LF	$40.00	$600		
3061	30KVA Transformer - T12-S	1	EA	$5,000.00	$5,000		
3062	Feeder to EL-RP-S1-2: P95D	15	LF	$40.00	$600		
3063	EL-RP-S1-2	1	EA	$5,000.00	$5,000		
3064	Feeder to 80 KVA UPS: P175D	15	LF	$40.00	$600		
3065	80 KVA UPS [EC-S??]			with Security System			
3066	Feeder to EL-LP-S1-1: 110D	400	LF	$40.00	$16,000		
3067	EL-LP-S1-1 [EC-S1-1]	1	EA	$5,000.00	$5,000		
3068	Feeder to T11-S: P70B	15	LF	$40.00	$600		

Terminal/Concourse Building Building Area: 639,470 GSF

Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
3069	30KVA Transformer - T11-S	1	EA	$5,000.00	$5,000		
3070	Feeder to EL-RP-S1-1: P95D	15	LF	$40.00	$600		
3071	EL-RP-S1-1	1	EA	$5,000.00	$5,000		
3072	Feeder to IT-S1-1: P70D	15	LF	$40.00	$600		
3073	IT-S2-1 [EC-S??]	1	EA	$5,000.00	$5,000		
3074							
3075	**East Side**						
3076	Incoming Service						
3077	Feeder #1 : 5KV Cables				with Site Work		
3078	Feeder #2: 5KV Cables				with Site Work		
3079	Feeder #3: 5KV Cables				with Site Work		
3080	Feeder #4: 5KV Cables				with Site Work		
3081	Feeder #5: 5KV Cables				with Site Work		
3082	Spot Network						
3083	Metering						
3084	Current Transformers	5	EA	$2,500.00	$12,500		
3085	Totalizing Meter	1	EA	$5,000.00	$5,000		
3086	Wire & Connectcions				Included		
3087	HV Switches with Key Interlock	5	EA	$50,000.00	$250,000		
3088	Feeder to T1-E: 1 Set - 3#500 + 4/0G - 4"C	15	LF	$107.00	$1,600		
3089	1333KVA Transformer-T1-E	1	EA	$150,000.00	$150,000		
3090	Load Side Feeder: 5 Sets - 4#500 + 1#500G - 4"C	15	LF	$631.25	$9,500		
3091	Network Protectors/Disconnect Switch	1	EA	$27,000.00	$27,000		
3092	Feeder to Collector Bus: 5 Sets - 4#500 + 1#500G - 4"C	25	LF	$631.25	$15,800		
3093	Feeder to T2-E: 1 Set - 3#500 + 4/0G - 4"C	15	LF	$107.00	$1,600		
3094	1333KVA Transformer-T2-E	1	EA	$150,000.00	$150,000		
3095	Load Side Feeder: 5 Sets - 4#500 + 1#500G - 4"C	15	LF	$631.25	$9,500		
3096	Network Protectors/Disconnect Switch	1	EA	$27,000.00	$27,000		
3097	Feeder to Collector Bus: 5 Sets - 4#500 + 1#500G - 4"C	25	LF	$631.25	$15,800		
3098	Feeder to T3-E: 1 Set - 3#500 + 4/0G - 4"C	15	LF	$107.00	$1,600		
3099	1333KVA Transformer-T3-E	1	EA	$150,000.00	$150,000		
3100	Load Side Feeder: 5 Sets - 4#500 + 1#500G - 4"C	15	LF	$631.25	$9,500		
3101	Network Protectors/Disconnect Switch	1	EA	$27,000.00	$27,000		
3102	Feeder to Collector Bus: 5 Sets - 4#500 + 1#500G - 4"C	25	LF	$631.25	$15,800		
3103	Feeder to T4-E: 1 Set - 3#500 + 4/0G - 4"C	15	LF	$107.00	$1,600		
3104	1333KVA Transformer-T4-E	1	EA	$150,000.00	$150,000		
3105	Load Side Feeder: 5 Sets - 4#500 + 1#500G - 4"C	15	LF	$631.25	$9,500		
3106	Network Protectors/Disconnect Switch	1	EA	$27,000.00	$27,000		
3107	Feeder to Collector Bus: 5 Sets - 4#500 + 1#500G - 4"C	25	LF	$631.25	$15,800		
3108	Feeder to T5-E: 1 Set - 3#500 + 4/0G - 4"C	15	LF	$107.00	$1,600		
3109	1333KVA Transformer-T5-E	1	EA	$150,000.00	$150,000		
3110	Load Side Feeder: 5 Sets - 4#500 + 1#500G - 4"C	15	LF	$631.25	$9,500		
3111	Network Protectors/Disconnect Switch	1	EA	$27,000.00	$27,000		
3112	Feeder to Collector Bus: 5 Sets - 4#500 + 1#500G - 4"C	25	LF	$631.25	$15,800		

Terminal/Concourse Building — **Building Area:** 639,470 GSF

Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
3113	Collector Bus (5000A, 480V, 3P)	5	EA	$75,000.00	$375,000		
3114	Busway #1	20	LF	$2,000.00	$40,000		
3115	Main Fuse	3	EA	$500.00	$1,500		
3116	Tap Box				Included		
3117	Bus Elbow				Included		
3118	Bus Stab Connection				Included		
3119	Feeder to Switchgear - SWGR-N-1				Included		
3120	Busway #2	20	LF	$2,000.00	$40,000		
3121	Main Fuse	3	EA	$500.00	$1,500		
3122	Tap Box				Included		
3123	Bus Elbow				Included		
3124	Bus Stab Connection				Included		
3125	Feeder to Switchgear - SWGR-N-1				Included		
3126							
3127	Switchgear - SWGR-E-1 (5000A, 480V)	1	EA	$250,000.00	$250,000		
3128	Line Side Tap Feeder #1: P40B	25	LF	$16.00	$400		
3129	30 A Fuse Switch				with Switchgear		
3130	Normal Feeder to ATS-S-3: P70B	15	LF	$24.30	$400		
3131	ATS-E-3 (60A, 4P) [EC-N??]				with EMPS		
3132	Feeder from Emergency Power Generation: P70B				with EMPS		
3133	Feeder to Transformer T-21-N: P40D	10	LF	$16.00	$200		
3134	15 KVA- T-21-S [EC-N??]	1	EA	$1,650.00	$2,000		
3135	Feeder to CU Bus	10	LF	$16.00	$200		
3136	Bus Duct (3P, 4W, CU)	1	EA	$2,500.00	$2,500		
3137	3P Fused Cutout Boxes				with Line Side Feeder		
3138	Load Side Circuit to FACP	4	EA	$1,000.00	$4,000		
3139	4000 A Tiebreaker				with Switchgear		
3140	Horizontal Bus between SWGR-N-1 & SWGR-N-2	15	LF	$2,000.00	$30,000		
3141	Transient Voltage Surge Suppressor				Included		
3142	Feeder to RET-PP-E2-2: P310D-X3	450	LF	$302.40	$136,100		
3143	RET-PP-E2-2 [EC-E2-2]	1	EA	$5,000.00	$5,000		
3144	Feeder to T21-E: P230B	15	LF	$59.25	$900		
3145	15 KVA Transformer-T21-E	1	EA	$1,650.00	$1,700		
3146	Feeder to RET-LV-E2-2: P380G	15	LF	$126.25	$1,900		
3147	RET-LV-S1-1	1	EA	$5,000.00	$5,000		
3148	Feeder to M-PP-E1-2: P310D-X3	75	LF	$302.40	$22,700		
3149	M-PP-E1-2 [EC-E??]	1	EA	$5,000.00	$5,000		
3150	Feeder to M-PP-E2-1: P230D-X2	650	LF	$132.00	$85,800		
3151	M-PP-E2-1 [EC-E2-1]	1	EA	$5,000.00	$5,000		
3152	Feeder to G-PP-E1-1: P310D-X3	75	LF	$302.40	$22,700		
3153	G-PP-E1-1 [EC-E??]	1	EA	$5,000.00	$5,000		
3154	Feeder to DP-E1-1: P310D-X3	75	LF	$302.40	$22,700		
3155	DP-E1-1 (800A, 277/480V) [EC-E1-1]	1	EA	$16,000.00	$16,000		
3156	Feeder : P110D	15	LF	$39.45	$600		

Terminal/Concourse Building — Building Area: 639,470 GSF

Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
3157	LP-E1-1 (225 A)	1	EA	$3,375.00	$3,400		
3158	Feeder : P110D	15	LF	$39.45	$600		
3159	LP-E1-2 (225 A)	1	EA	$3,375.00	$3,400		
3160	Feeder : P110D	15	LF	$39.45	$600		
3161	PP-E1-1 (225 A)	1	EA	$3,375.00	$3,400		
3162	Feeder : P150D	15	LF	$41.45	$600		
3163	PP-WS-1 (225 A)	1	EA	$3,375.00	$3,400		
3164	Feeder to T16-E: P150B	15	LF	$37.20	$600		
3165	75 KVA Transformer-T16-E	1	EA	$8,250.00	$8,300		
3166	Feeder : P230D	10	LF	$66.00	$700		
3167	Feeder : P40D	15	LF	$16.00	$200		
3168	RP-E1-1 (225A)	1	EA	$3,375.00	$3,400		
3169	Feeder : P40D	15	LF	$16.00	$200		
3170	RP-E1-2 (225A)	1	EA	$3,375.00	$3,400		
3171	Feeder : P40D	15	LF	$16.00	$200		
3172	RP-E1-3 (225A)	1	EA	$3,375.00	$3,400		
3173	Feeder to DP-E2-2: P285D-X3	450	LF	$289.80	$130,400		
3174	DP-E2-2 (800A, 277/480V) [EC-E2-2]	1	EA	$16,000.00	$16,000		
3175	Feeder : P110D	15	LF	$39.45	$600		
3176	LP-E2-3 (225 A)	1	EA	$3,375.00	$3,400		
3177	Feeder : P110D	15	LF	$39.45	$600		
3178	PP-E2-2 (225 A)	1	EA	$3,375.00	$3,400		
3179	Feeder to T18-E: P150B	15	LF	$37.20	$600		
3180	75 KVA Transformer-T18-E	1	EA	$8,259.00	$8,300		
3181	Feeder : P230D	10	LF	$66.00	$700		
3182	Feeder : P40D	15	LF	$16.00	$200		
3183	RP-E2-4 (225A)	1	EA	$3,375.00	$3,400		
3184	Feeder : P40D	15	LF	$16.00	$200		
3185	RP-E2-5 (225A)	1	EA	$3,375.00	$3,400		
3186	Feeder to ATS-E-1: P285D-X3	30	LF	$289.80	$8,700		
3187	ATS-E-1 [EC-E??]	Included with Emergency Power System					
3188							
3189	Switchboard - EM-LSL-E (1000A, 480V)	1	EA	$150,000.00	$150,000		
3190	Feeder from ATS-E-1: P380D-X3	75	LF	$120.00	$9,000		
3191	Feeder to PDP-MCP-8: P380D-X3	75	LF	$120.00	$9,000		
3192	Disconnect Switch - PDP-MCP-8	1	EA	$5,000.00	$5,000		
3193	Feeder to LSL-MPP-E2-2: P230D-X2	40	LF	$80.00	$3,200		
3194	LSL-MPP-E2-2 [EC-E2-3]	1	EA	$5,000.00	$5,000		
3195	Feeder to LSL-MPP-E2-1: P230D-X2	425	LF	$80.00	$34,000		
3196	LSL-MPP-E2-1 [EC-E2-2]	1	EA	$5,000.00	$5,000		
3197	Feeder to T6-E: P95B	100	LF	$100.00	$10,000		
3198	30 KVA Transformer-T6-E [EC-E1-1]	1	EA	$5,000.00	$5,000		
3199	Feeder to LSL-RP-E1-1: P95D	15	LF	$100.00	$1,500		
3200	LSL-RP-E1-1 [EC-E1-1]	1	EA	$5,000.00	$5,000		

Terminal/Concourse Building

Building Area: 639,470 GSF

Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
3201	Feeder to LSL-LP-E1-1: P110D	15	LF	$40.00	$600		
3202	LSL-LP-E1-1 [EC-E1-1]	1	EA	$5,000.00	$5,000		
3203	Feeder to T8-E: P95B	650	LF	$100.00	$65,000		
3204	30 KVA Transformer-T8-E [EC-E2-1]	1	EA	$5,000.00	$5,000		
3205	Feeder to LSL-RP-E2-1: P95D	15	LF	$100.00	$1,500		
3206	LSL-RP-E2-1 [EC-E2-1]	1	EA	$5,000.00	$5,000		
3207	Feeder to LSL-LP-E2-1: P110D	15	LF	$40.00	$600		
3208	LSL-LP-E2-1 [EC-E2-1]	1	EA	$5,000.00	$5,000		
3209	Feeder to T10-E: P95B	40	LF	$100.00	$4,000		
3210	30 KVA Transformer-T10-E [EC-E2-3]	1	EA	$5,000.00	$5,000		
3211	Feeder to LSL-RP-E2-3: P95D	15	LF	$100.00	$1,500		
3212	LSL-RP-E2-3 [EC-E2-3]	1	EA	$5,000.00	$5,000		
3213	Feeder to LSL-LP-E2-3: P110D	15	LF	$40.00	$600		
3214	LSL-LP-E2-3 [EC-E2-3]	1	EA	$5,000.00	$5,000		
3215							
3216	Switchgear - SWGR-E-2 (5000A, 480V)	1	EA	$250,000.00	$250,000		
3217	Feeder to G-PP-E1-4: P310D-X4	100	LF	$406.20	$40,600		
3218	G-PP-E1-4 [EC-E??]	1	EA	$5,000.00	$5,000		
3219	Feeder to M-PP-E2-3: P230D-X2	40	LF	$132.00	$5,300		
3220	M-PP-E2-3 [EC-E2-3]	1	EA	$5,000.00	$5,000		
3221	Feeder to RET-PP-E2-1: P230D-X2	650	LF	$132.00	$85,800		
3222	RET-PP-E2-1 [EC-E2-1]	1	EA	$5,000.00	$5,000		
3223	Feeder to T20-E: P380B	15	LF	$99.20	$1,500		
3224	30 KVA Transformer-T20-E	1	EA	$3,300.00	$3,300		
3225	Feeder to RET-LV-E2-1	15	LF	$100.00	$1,500		
3226	RET-LV-E2-1	1	EA	$5,000.00	$5,000		
3227	Feeder to M-PP-E1-3: P285D-X3	100	LF	$96.60	$9,700		
3228	M-PP-E1-3 [EC-E??]	1	EA	$5,000.00	$5,000		
3229	Feeder to M-PP-E2-2: P310D-X4	40	LF	$101.55	$4,100		
3230	M-PP-E2-2 [EC-E2-3]	1	EA	$5,000.00	$5,000		
3231	Feeder to G-PP-E1-3: P285D	100	LF	$94.85	$9,500		
3232	G-PP-E1-3 [EC-E??]	1	EA	$5,000.00	$5,000		
3233	Feeder to G-PP-E1-2: P285D-X3	100	LF	$96.60	$9,700		
3234	G-PP-E1-2 [EC-E??]	1	EA	$5,000.00	$5,000		
3235	Feeder to DP-E2-3: P285D-X3	40	LF	$289.80	$11,600		
3236	DP-E2-3 (800A, 480V [EC-E2-3])	1	EA	$16,000.00	$16,000		
3237	Feeder : P110D	15	LF	$39.45	$600		
3238	LP-E2-5 (225 A)	1	EA	$13.00	$0		
3239	Feeder : P110D	15	LF	$39.45	$600		
3240	PP-E2-3 (225 A)	1	EA	$3,375.00	$3,400		
3241	Feeder to T19-E: P150B	15	LF	$37.20	$600		
3242	75 KVA Transformer-T19-E	1	EA	$8,250.00	$8,300		
3243	Feeder : P230D	10	LF	$66.00	$700		
3244	Feeder : P40D	15	LF	$16.00	$200		

Terminal/Concourse Building Building Area: 639,470 GSF

Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
3245	RP-E2-7 (225A)	1	EA	$3,375.00	$3,400		
3246	Feeder : P40D	15	LF	$16.00	$200		
3247	RP-E2-8 (225A)	1	EA	$3,375.00	$3,400		
3248	Feeder to DP-E2-1: P285D-X3	650	LF	$289.80	$188,400		
3249	DP-E2-1 (800A, 480V) [EC-E2-1]	1	EA	$16,000.00	$16,000		
3250	Feeder : P110D	15	LF	$39.45	$600		
3251	LP-E2-1	1	EA	$5,000.00	$5,000		
3252	Feeder : P110D	15	LF	$39.45	$600		
3253	PP-E2-1	1	EA	$5,000.00	$5,000		
3254	Feeder to T17-E: P150B	15	LF	$37.20	$600		
3255	75 KVA Transformer-T17-E	1	EA	$8,250.00	$8,300		
3256	Feeder : P230D	10	LF	$66.00	$700		
3257	Feeder : P40D	15	LF	$16.00	$200		
3258	RP-E2-1 (225A)	1	EA	$3,375.00	$3,400		
3259	Feeder : P40D	15	LF	$16.00	$200		
3260	RP-E2-2 (225A)	1	EA	$3,375.00	$3,400		
3261	Feeder to ATS-E-2: P285D-X3	30	LF	$289.80	$8,700		
3262	ATS-E-2 [EC-E??]			Included with Emergency Power System			
3263							
3264	Switchboard - EM-EL-E (1000A, 480V)				with Above		
3265	Feeder from ATS-E-2: P380D-X3	100	LF	$40.00	$4,000		
3266	Feeder to EL-LP-E2-3: P110D	40	LF	$40.00	$1,600		
3267	EL-LP-E2-3 [EC-E2-3]	1	EA	$5,000.00	$5,000		
3268	Feeder to T14-E: P70B	15	LF	$40.00	$600		
3269	30KVA Transformer - T14-E	1	EA	$5,000.00	$5,000		
3270	Feeder to EL-RP-E2-3: P95D	15	LF	$40.00	$600		
3271	EL-RP-E2-3	1	EA	$5,000.00	$5,000		
3272	Feeder to EL-LP-E2-2: P110D	450	LF	$40.00	$18,000		
3273	EL-LP-E2-2 [EC-E2-2]	1	EA	$5,000.00	$5,000		
3274	Feeder to T13-E: P70B	15	LF	$40.00	$600		
3275	30KVA Transformer - T13-E	1	EA	$5,000.00	$5,000		
3276	Feeder to EL-RP-E2-2: P95D	15	LF	$40.00	$600		
3277	EL-RP-E2-2	1	EA	$5,000.00	$5,000		
3278	Feeder to IT-E2-2: P70D	15	LF	$40.00	$600		
3279	IT-E2-2 [EC-E??]	1	EA	$5,000.00	$5,000		
3280	Feeder to EL-LP-E2-1: 110D	650	LF	$40.00	$26,000		
3281	EL-LP-E2-1 [EC-E2-1]	1	EA	$5,000.00	$5,000		
3282	Feeder to T12-E: P70B	15	LF	$40.00	$600		
3283	30KVA Transformer - T12-E	1	EA	$5,000.00	$5,000		
3284	Feeder to EL-RP-E2-1: P95D	15	LF	$40.00	$600		
3285	EL-RP-E2-1	1	EA	$5,000.00	$5,000		
3286	Feeder to IT-E2-1: P70D	15	LF	$40.00	$600		
3287	IT-E2-1 [EC-E??]	1	EA	$5,000.00	$5,000		
3288	Feeder to EL-LP-E1-1: 110D	100	LF	$40.00	$4,000		

Terminal/Concourse Building Building Area: 639,470 GSF

		Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
		3289	EL-LP-E1-1 [EC-E1-1]	1	EA	$5,000.00	$5,000		
		3290	Feeder to T11-E: P70B	15	LF	$40.00	$600		
		3291	30KVA Transformer - T11-E	1	EA	$5,000.00	$5,000		
		3292	Feeder to EL-RP-E1-12: P95D	15	LF	$40.00	$600		
		3293	EL-RP-E1-1	1	EA	$5,000.00	$5,000		
		3294	Feeder to IT-E1-1: P70D	15	LF	$40.00	$600		
		3295	IT-E1-1 [EC-E??]	1	EA	$5,000.00	$5,000		
V	E163		Delete K13 Requirement	(1)	LS	$29,000.00	(29,000)		
V	E165		Reduce quantity of Lighting panels	(1)	LS	$53,000.00	(53,000)		
		3296							
		3297	**Emergency Power System [E03.04]**						
V	E164	3298	750 KW Emergency Generator (180 V, 3PH), Diesel, Air-Cooled, Outc	1,000	KW	$675.00	675,000		
V	E164	3299	ATS Circuit Breaker - Factory Mounted with Enclosure				Included		
V	E164	3300	Fuel Oil Delivery System				Included		
V	E164	3301	Fuel Storage Integral to Skid				Included		
V	E164	3302	Muffler - Furnish Only				Included		
V	E164	3303	Installation				w/HVAC		
V	E164	3304	Diesel Fuel				Included		
V	E164	3305	Fused Disconnects				Included		
V	E164	3306	750 KW Emergency Generator (180 V, 3PH), Diesel, Air-Cooled, Outc	1,000	KW	$675.00	675,000		
V	E164	3307	ATS Circuit Breaker - Factory Mounted with Enclosure				Included		
V	E164	3308	Fuel Oil Delivery System				Included		
V	E164	3309	Fuel Storage Integral to Skid				Included		
V	E164		Muffler - Furnish Only				Included		
V	E164		Installation				w/HVAC		
V	E164		Diesel Fuel				Included		
V	E164		Fused Disconnects				Included		
V	E164		750 KW Emergency Generator (180 V, 3PH), Diesel, Air-Cooled, Outc	750	KW	$750.00	563,000		
V	E164		ATS Circuit Breaker - Factory Mounted with Enclosure				Included		
V	E164		Fuel Oil Delivery System				Included		
V	E164		Fuel Storage Integral to Skid				Included		
V	E164		Muffler - Furnish Only				Included		
V	E164		Installation				w/HVAC		
V	E164		Diesel Fuel				Included		
V	E164		Fused Disconnects				Included		
V	E164		Emergency Feeder to Fire Pump Controller - North:	150	LF	$86.00	13,000		
V	E164		Receive & Install Fire Pump ATS				w/Service & Distribution		
V	E164		Feeder to Fire Pump Controller - South:	150	LF	$86.00	13,000		
			Receive & Install Fire Pump ATS				w/Service & Distribution		
			Connection from ATS to Fire Pump	1	EA	$3,000.00	$3,000		
		3310	Feeder to ATS-N-3: P70B	150	LF	$24.30	$4,000		
		3311	ATS-N-3 (60A, 4P)	1	EA	$5,000.00	$5,000		
		3312	Feeder to ATS-S-3: P70B	150	LF	$24.30	$4,000		
		3313	ATS-S-3 (60A, 4P)	1	EA	$5,000.00	$5,000		

Terminal/Concourse Building

Building Area: 639,470 GSF

		Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
		3314	Feeder to ATS-E-3: P70B	150	LF	$24.30	$4,000		
		3315	ATS-E-3 (60A, 4P)	1	EA	$5,000.00	$5,000		
		3320	Normal Feeder to ATS-N-1				with SWGR-N-1		
		3321	Feeder to ATS-N-2: P380D	100	LF	$353.55	$35,400		
		3322	ATS-N-2 (1000A, 4P, w/Isolation Bypass Switch)	1	EA	$35,000.00	$35,000		
		3323	Normal Feeder to ATS-N-2				with SWGR-N-2		
		3325	ATS-S-1 (1000A, 4P, w/Isolation Bypass Switch)	1	EA	$35,000.00	$35,000		
		3326	Normal Feeder to ATS-S-1				with SWGR-S-1		
		3328	ATS-S-2 (1000A, 4P, w/Isolation Bypass Switch)	1	EA	$35,000.00	$35,000		
		3329	Normal Feeder to ATS-S-2				with SWGR-S-2		
		3331	ATS-E-1 (800A, 4P, w/Isolation Bypass Switch)	1	EA	$28,000.00	$28,000		
		3332	Normal Feeder to ATS-E-1				with SWGR-E-1		
		3334	ATS-E-2 (800A, 4P, w/Isolation Bypass Switch)	1	EA	$28,000.00	$28,000		
		3335	Normal Feeder to ATS-E-2				with SWGR-E-2		
		3336	ATS Contol Wiring						
V	E164	3326	Feeder to ATS-N-1:	5,650	LF	$15.50	$87,600		
V	E164	3327	Feeder to ATS-N-2:	100	LF	$475.00	47,500		
V	E164	3328	Feeder to ATS-S-1:	100	LF	$475.00	47,500		
V	E164	3329	Feeder to ATS-S-2:	150	LF	$475.00	71,300		
V	E164	3330	Feeder to ATS-E-1:	150	LF	$475.00	71,300		
V	E164	3331	Feeder to ATS-E-2:	150	LF	$353.00	53,000		
V	E164	3332	Fire Alarm Fuse cutouts (North & South)	150	LF	$353.00	53,000		
S	E53	3333	Add cost for 80 kva UPS in MCR			with Service & Distribution			
		3334		1	LS	$100,000.00	$100,000		
		3335							
		3336	ATS Contol Wiring						
		3337		5,650	LF	$15.50	$87,600		
		3338							
		3339	**Subtotal: Service & Power Distribution**						
		3340						$15,741,400	
		3341	**Lighting**						
S	E54A/B	3342	FA Wall recessed Floodlight	69	EA	$1,080.00	$75,000		
S	E54A/B	3343	FAA Striplight Behind Glass	482	LF	$36.00	$17,000		
S	E54A/B	3344	FAB Recessed 5" D. Downlight/Wallwasher	137	EA	$246.24	$34,000		
S	E54A/B	3345	FAC Cove Mounted Stiplight	w/Tube	LF	w/Tube	w/Tube		
S	E54A/B	3346	FAD Cove Mounted Stiplight	w/Tube	EA	w/Tube	w/Tube		
S	E54A/B	3347	FAE Recessed downlight	w/Air Train	EA	w/Air Train	w/Air Train		
S	E54A/B	3348	FAF Recessed Downlight	w/Links	LF	w/Links	w/Links		
S	E54A/B	3349	FAG Spotlight	5	EA	$1,584.00	$8,000		
S	E54A/B	3350	FAH Linear Pendant Uplight	w/Air Train	EA	w/Air Train	w/Air Train		
S	E54A/B	3351	FAJ Recessed Downlight	187	EA	$633.60	$118,000		
S	E54A/B	3352	FB Pole Mounted Floodlight	37	EA	$2,016.00	$75,000		
S	E54A/B	3353	Poles	37	EA	$1,728.00	$64,000		
S	E54A/B	3354	FC Semi-Recessed LED	125	EA	$276.48	$35,000		

Terminal/Concourse Building Building Area: 639,470 GSF

	Rank	Building System			Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
S	E54A/B	3355	FD	Recessed 5" D. Downlight	929	EA	$218.88	$203,000		
S	E54A/B	3356	FE	Surface mounted Uplight	155	LF	$72.00	$11,000		
S	E54A/B	3357	FF	Surface mounted Striplight	537	LF	$79.20	$43,000		
S	E54A/B	3358	FG	Linear Cove Uplight	684	LF	$97.92	$67,000		
S	E54A/B	3359	FH	Wall mounted Uplight	40	EA	$815.04	$33,000		
S	E54A/B	3360	FJ	Strip Light in Cavity	205	LF	$74.88	$15,000		
S	E54A/B	3361	FK	Strip Light in Ceiling	575	LF	$108.00	$62,000		
S	E54A/B	3362	FL	Recessed Linear Wallwasher	28	LF	$133.92	$4,000		
S	E54A/B	3363	FM	Recessed 5" D. Adjustable Downlight	43	EA	$540.00	$23,000		
S	E54A/B	3364	FN	Pendant Uplight/Downlight	32	EA	$1,944.00	$62,000		
S	E54A/B	3365		Rods	2,100	LF	$216.00	$454,000		
S	E54A/B	3366	FP	Cove Mounted Uplight	65	LF	$234.72	$15,000		
S	E54A/B	3367	FQ	Floor Mounted Cylindrical Pole	45	EA	$4,320.00	$194,000		
S	E54A/B	3368		Poles	45	EA	$2,160.00	$97,000		
S	E54A/B	3369	FR	Recessed Uplight	40	EA	$669.60	$27,000		
S	E54A/B	3370	FS	Cove Mounted Striplight	1,152	LF	$44.64	$51,000		
S	E54A/B	3371	FT	Cove Mounted Striplight	1,961	LF	$54.72	$107,000		
S	E54A/B	3372	FV	Semi Recessed Striplight	703	EA	$288.00	$202,000		
S	E54A/B	3373	FW	Recessed Downlight	409	EA	$360.00	$147,000		
S	E54A/B	3374	FX	Recessed Linear Downlight	1,184	EA	$419.04	$496,000		
S	E54A/B	3375	FY	Cove Mounted Striplight	770	LF	$54.00	$42,000		
S	E54A/B	3376	F1	2'x4' T5 Flourescent	524	EA	$264.96	$139,000		
S	E54A/B	3377	F2	4' T8 Flourscent	113	EA	$200.16	$23,000		
S	E54A/B	3378	AA	Turret Industrial	274	EA	$149.76	$41,000		
S	E54A/B	3379	AB	Enclosed Industrial	37	EA	$141.12	$5,000		
S	E54A/B	3380	AC	Lensed Troffer	15	EA	$108.00	$2,000		
S	E54A/B	3381	AD	Turret Industrial w/EM Backup	55	EA	$149.76	$8,000		
S	E54A/B	3382	AE	Turret Industrial	554	EA	$149.76	$83,000		
S	E54A/B	3383	AF	Enclosed Industrial	6	EA	$141.12	$1,000		
S	E54A/B	3384	---	Revolving Door Lighting	N/C	EA	N/C	N/C		
S	E54A/B	3385								
S	E54A/B	3386								
S	E54A/B	3387								
S	E54A/B	3388								
S	E54A/B	3389								
S	E54A/B	3390								
S	E54A/B	3391								
S	E54A/B	3392								
S	E54A/B	3393								
S	E54A/B	3394								
S	E54A/B	3395								
S	E54A/B	3396								
S	E54A/B	3397								
S	E54A/B	3398								

Terminal/Concourse Building Building Area: 639,470 GSF

Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
S	E54A/B 3399						
S	E54A/B 3400						
S	E54A/B 3401						
S	E54A/B 3402						
S	E54A/B 3403						
S	E54A/B 3404						
S	E54A/B 3405						
S	E54A/B 3406						
S	E54A/B 3407						
S	E54A/B 3408						
S	E54A/B 3409						
S	E54A/B 3410						
S	E54A/B 3411						
S	E54A/B 3412						
S	E54A/B 3413						
S	E54A/B 3414						
S	E54A/B 3415						
S	E54A/B 3416						
S	E54A/B 3417						
S	E54A/B 3418						
S	E54A/B 3419						
S	E54A/B 3420						
S	E54A/B 3421						
S	E54A/B 3422						
S	E54A/B 3423						
S	E54A/B 3424						
S	E54A/B 3425						
S	E54A/B 3426						
S	E54A/B 3427						
S	E54A/B 3428						
S	E54A/B 3429						
S	E54A/B 3430						
S	E54A/B 3431						
S	E54A/B 3432						
S	E54A/B 3433						
S	E54A/B 3434						
S	E54A/B 3435						
S	E54A/B 3436						
S	E54A/B 3437						
S	E54A/B 3438						
S	E54A/B 3439						
S	E54A/B 3440						
S	E54A/B 3441						
S	E54A/B 3442						

Terminal/Concourse Building Building Area: 639,470 GSF

	Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
S	E54A/B	3443						
S	E54A/B	3444						
S	E54A/B	3445						
S	E54A/B	3446						
S	E54A/B	3447						
S	E54A/B	3448						
S	E54A/B	3449						
S	E54A/B	3450						
S	E54A/B	3451						
S	E54A/B	3452						
S	E54A/B	3453						
S	E54A/B	3454						
S	E54A/B	3455						
S	E54A/B	3456						
S	E54A/B	3457						
S	E54A/B	3458						
S	E54A/B	3459						
S	E54A/B	3460						
S	E54A/B	3461						
S	E54A/B	3462						
S	E54A/B	3463						
S	E54A/B	3464						
S	E54A/B	3465						
S	E54A/B	3466						
S	E54A/B	3467						
S	E54A/B	3468						
S	E54A/B	3469						
S	E54A/B	3470						
S	E54A/B	3471						
S	E54A/B	3472						
S	E54A/B	3473						
S	E54A/B	3474						
S	E54A/B	3475						
S	E54A/B	3476						
S	E54A/B	3477						
S	E54A/B	3478						
S	E54A/B	3479						
S	E54A/B	3480						
S	E54A/B	3481						
S	E54A/B	3482						
S	E54A/B	3483						
S	E54A/B	3484						
S	E54A/B	3485						
S	E54A/B	3486						

Terminal/Concourse Building Building Area: 639,470 GSF

Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
S	E54A/B 3487						
S	E54A/B 3488						
S	E54A/B 3489						
S	E54A/B 3490						
S	E54A/B 3491						
S	E54A/B 3492						
S	E54A/B 3493						
S	E54A/B 3494						
S	E54A/B 3495						
S	E54A/B 3496						
S	E54A/B 3497						
S	E54A/B 3498						
S	E54A/B 3499						
S	E54A/B 3500						
S	E54A/B 3501						
S	E54A/B 3502						
S	E54A/B 3503						
S	E54A/B 3504						
S	E54A/B 3505						
S	E54A/B 3506						
S	E54A/B 3507						
S	E54A/B 3508						
S	E54A/B 3509						
S	E54A/B 3510						
S	E54A/B 3511						
S	E54A/B 3512						
S	E54A/B 3513						
S	E54A/B 3514						
S	E54A/B 3515						
S	E54A/B 3516						
S	E54A/B 3517						
S	E54A/B 3518						
S	E54A/B 3519						
S	E54A/B 3520						
S	E54A/B 3521						
S	E54A/B 3522						
S	E54A/B 3523						
S	E54A/B 3524						
S	E54A/B 3525						
S	E54A/B 3526						
S	E54A/B 3527						
S	E54A/B 3528						
S	E54A/B 3529						
S	E54A/B 3530						

Terminal/Concourse Building Building Area: 639,470 GSF

Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
S	E54A/B 3531						
S	E54A/B 3532						
S	E54A/B 3533						
S	E54A/B 3534						
S	E54A/B 3535						
S	E54A/B 3536						
S	E54A/B 3537						
S	E54A/B 3538						
S	E54A/B 3539						
S	E54A/B 3540						
S	E54A/B 3541						
S	E54A/B 3542						
S	E54A/B 3543						
S	E54A/B 3544						
S	E54A/B 3545						
S	E54A/B 3546						
S	E54A/B 3547						
S	E54A/B 3548						
S	E54A/B 3549						
S	E54A/B 3550						
S	E54A/B 3551						
S	E54A/B 3552						
S	E54A/B 3553						
S	E54A/B 3554						
S	E54A/B 3555						
S	E54A/B 3556						
S	E54A/B 3557						
S	E54A/B 3558						
S	E54A/B 3559						
S	E54A/B 3560						
S	E54A/B 3561						
S	E54A/B 3562						
S	E54A/B 3563						
S	E54A/B 3564						
S	E54A/B 3565						
S	E54A/B 3566						
S	E54A/B 3567						
S	E54A/B 3568						
S	E54A/B 3569						
S	E54A/B 3570						
S	E54A/B 3571						
S	E54A/B 3572						
S	E54A/B 3573						
S	E54A/B 3574						

Terminal/Concourse Building Building Area: 639,470 GSF

Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
S	E54A/B 3575						
S	E54A/B 3576						
S	E54A/B 3577						
S	E54A/B 3578						
S	E54A/B 3579						
S	E54A/B 3580						
S	E54A/B 3581						
S	E54A/B 3582						
S	E54A/B 3583						
S	E54A/B 3584						
S	E54A/B 3585						
S	E54A/B 3586						
S	E54A/B 3587						
S	E54A/B 3588						
S	E54A/B 3589						
S	E54A/B 3590						
S	E54A/B 3591						
S	E54A/B 3592						
S	E54A/B 3593						
S	E54A/B 3594						
S	E54A/B 3595						
S	E54A/B 3596						
S	E54A/B 3597						
S	E54A/B 3598						
S	E54A/B 3599						
S	E54A/B 3600						
S	E54A/B 3601						
S	E54A/B 3602						
S	E54A/B 3603						
S	E54A/B 3604						
S	E54A/B 3605						
S	E54A/B 3606						
S	E54A/B 3607						
S	E54A/B 3608						
S	E54A/B 3609						
S	E54A/B 3610						
S	E54A/B 3611						
S	E54A/B 3612						
S	E54A/B 3613						
S	E54A/B 3614						
S	E54A/B 3615						
S	E54A/B 3616						
S	E54A/B 3617						
S	E54A/B 3618						

Terminal/Concourse Building Building Area: 639,470 GSF

	Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
S	E54A/B	3619						
S	E54A/B	3620						
S	E54A/B	3621						
S	E54A/B	3622						
S	E54A/B	3623						
S	E54A/B	3624						
S	E54A/B	3625						
S	E54A/B	3626						
S	E54A/B	3627						
S	E54A/B	3628						
S	E54A/B	3629						
S	E54A/B	3630						
S	E54A/B	3631						
S	E54A/B	3632						
S	E54A/B	3633						
S	E54A/B	3634						
S	E54A/B	3635						
S	E54A/B	3636						
S	E54A/B	3637						
S	E54A/B	3638						
S	E54A/B	3639						
S	E54A/B	3640						
S	E54A/B	3641						
S	E54A/B	3642						
S	E54A/B	3643						
S	E54A/B	3644						
S	E54A/B	3645						
S	E54A/B	3646						
S	E54A/B	3647						
S	E54A/B	3648						
S	E54A/B	3649						
V	A96C	3650 Shorten Departure Canopy by 15' (6450 SF)						
V	A96C	3651 FC	(26)	EA	$276.48	(7,000)		
V	A96C	3652 FAJ	(32)	EA	$633.60	(20,000)		
V	A96C	3653 FF	(24)	LF	$79.20	(2,000)		
V	A96C	3654 Branch Wiring	(1,600)	LF	$12.00	(19,000)		
V	A96C	3655 Roadway Lighting (Cat No. Pollux PX 7400MH/15' pole)	8	EA	$10,000.00	80,000		
V	A96C	3656 RGS Conduit & Wire	640	LF	$100.00	64,000		
V	A87	3657 Reduce North Concourse by 5040 SF						
V	A87	3658 FV	(15)	EA	$288.00	(4,000)		
V	A87	3659 FW	(9)	EA	$360.00	(3,000)		
V	A87	3660 FS	(20)	LF	$44.64	(1,000)		
V	A87	3661 FT	(56)	LF	$54.72	(3,000)		

Terminal/Concourse Building Building Area: 639,470 GSF

		Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
V	A87	3662	Branch Wiring	(630)	LF	$11.00	(7,000)		
V	A87	3663	J-Boxes	(5)	EA	$50.00	0		
V	A213	3664	Delete SF @ North Floor	(5,690)	GSF	$2.50	(14,000)		
V	A96C	3665	Shorten Arrival Canopy by 15' (6450 SF)						
V	A96C	3666	FC	(88)	EA	$276.48	(24,000)		
V	A96C	3667	FAJ	(88)	EA	$633.60	(56,000)		
V	A96C	3668	FF	(32)	LF	$79.20	(3,000)		
V	A96C	3669	Branch Wiring	(5,200)	LF	$12.00	(62,000)		
V	A96C	3670	Roadway Lighting (Cat No. Pollux PX 7400MH/15' pole)	8	EA	$10,000.00	80,000		
V	A96C	3671	RGS Conduit & Wire	640	LF	$100.00	64,000		
V	A97B	3672							
V	A97B	3673							
V	A98D	3674	Delete Nose @ Arrivals & Departure Canopy (Option D)						
V	A98D	3675	Downlight Type DAC - 5 per 22 bays	110	EA	$285.00	31,000		
V	A98D	3676	Branch Wiring	2,750	LF	$12.00	33,000		
V	A98D	3677	Flood Lighting Type FLA740	22	EA	$3,000.00	66,000		
V	A98D	3678	Branch Wiring	1,100	LF	$100.00	110,000		
V	A98D	3679	Add Lighting & Branch Wiring	11,050	EA	$6.00	66,000		
V	A122	3680	Lighting & Branch Wiring	(1,325)	SF	$6.00	(8,000)		
S	E54	3681	**Conduit & Wiring for Fixtures Above**						
S	E54	3682	Fixture Wiring (3#12-3/4" EMT)	44,383	LF	$10.80	$479,000		
S	E54	3683	Junction Boxes	1,849	EA	$50.00	$92,000		
S	E54	3684	Branch Wiring	47,761	LF	$10.80	$516,000		
S	E54	3685	Homeruns (9#12-1" EMT)	8,925	LF	$14.30	$128,000		
		3686							
		3687	**Allowance for Lighting Not Shown**						
		3688	Departure Area						
		3689	Zone 6	17,814	SF	$10.00	$178,000		
		3690	Zone 7	3,390	SF	$10.00	$34,000		
		3691	Zone 8	4,942	SF	$10.00	$49,000		
		3692	Zone 11	8,321	SF	$10.00	$83,000		
		3693	Zone 12	3,000	SF	$10.00	$30,000		
		3694	Zone 13	4,000	SF	$10.00	$40,000		
		3695							
		3696	Arrival Area						
S	E54B	3697	Zone 6	5,250	SF	$5.00	$26,000		
S	E54B	3698	Zone 7	5,470	SF	$5.00	$27,000		
S	E54B	3699	Zone 8	14,304	SF	$5.00	$72,000		
S	E54B	3700	Zone 9	3,132	SF	$5.00	$16,000		
S	E54B	3701	Zone 10	31,226	SF	$5.00	$156,000		
S	E54B	3702	Zone 11	17,512	SF	$5.00	$88,000		
S	E54B	3703	Zone 12	10,406	SF	$5.00	$52,000		
S	E54B	3704	Zone 13	8,590	SF	$5.00	$43,000		

Terminal/Concourse Building — Building Area: 639,470 GSF

		Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
S	E54B	3705	Zone 14	820	SF	$5.00	$4,000		
S	E54B	3706	Zone 16	3,490	SF	$5.00	$17,000		
		3707							
		3708	***Miscellaneous***						
		3709	Exit Lights [Allow 1 per 1,000 SF]	620	EA	$350.00	$217,000		
V	A98D	3710	Exterior Building Lighting (FA)	(1)	ALLOW	$75,000.00	(75,000)		
S	E60	3711	Roof Top Air Handling Units [43 Total]						
S	E60	3712	Units w/Vestibules				w/ AHU's		
S	E60	3713	Cicuits Only				w/ AHU's		
		3714	Elevator Pit Lighting	7	ALLOW	$1,500.00	$11,000		
		3715	Site Lighting				with Sitework		
V	A91	3716	Retail Area Lighting [Bare Minimum]	64,420	SF	$1.50	$97,000		
V	A91		Retail Area Lighting [110V Circuit]	1,820	SF	$2.50	$5,000		
		3717	Spare Lamps & Accessories	620,977	SF	$0.15	$93,000		
		3718	Mock-ups & Samples	620,977	SF	$0.15	$93,000		
V	E162		Substitute Standard Lighting Fixtures ILO Custon	(1)	LS	$1,000,000.00	(1,000,000)		
V	A108B		Lighting Around Marketplace Clearstory	1	ALLOW	10,000.00	$10,000		
V	A215		Lighting @ Deleted Pop-Up Wall	1	ALLOW	9,000.00	$9,000		
V	A110B		Add Lighting for the Elimination of the Light Monitors	10,800	ALLOW	12.00	$130,000		
		3719							
		3720	**Subtotal: Lighting**					$5,164,000	
		3721							
		3722	**Lighting Control System Allowance**						
		3723	Lighting Control System (Drawing E03.10)	620,977	SF	$1.00	$621,000		
		3724	Lighting Control Realy Panels				Included		
		3725	Lighting Control Central Processor				Included		
		3726	Line Voltage Wiring				Included		
		3727	Low Voltage Wiring				Included		
		3728	Wall Controls				Included		
		3729	Photocells				Included		
		3730	Switches				Included		
		3731	BMS Interface				Included		
		3732	Occupancy Sensors (Drawing E08.03)				Included		
		3733	Power Packs				Included		
		3734	Spare Materials (Spec 16570 p.5)				Included		
		3735	Programming				Included		
		3736	Extended Warranty (10 Year) Spec 16570-p.4)				Included		
		3737	Commissioning (Drawing E03.10 Accept. Mfrt Note #3)				Included		
		3738	Digital Time Clocks				Not Included		
		3739	Dimming System				Not Included		
		3740							
		3741	**Subtotal: Lighting Control System Allowance**					$621,000	
		3742							

Terminal/Concourse Building — Building Area: 639,470 GSF

		Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
		3743	**Convenience Power**						
V	A87	3744	Wall Duplex Receptacles [1 per 250 sf]	2,478	EA	$175.00	$434,000		
		3745	Wall Double Duplex Receptacles				Included		
V	A87	3746	Ground Fault Receptacle [1 per 500 sf]	1,237	EA	$200.00	$247,000		
V	A87	3747	Floor Duplex Receptacles [1 per 1,500 sf]	411	EA	$275.00	$113,000		
		3748	Floor Double Duplex Receptacles				Included		
		3749	Unfused Disconnect Switches	41	EA	$1,000.00	$41,000		
		3750	Branch Conduit & Wire	208,000	LF	$10.80	$2,246,000		
S	E49		Add Operations Power for Jetway Bridge Areas						
S	E49		North Wing						
S	E49		Disconnect Switches (125 A)	6	EA	125	$800.00		
S	E49		Disconnect Switches (60 A)	6	EA	60	$400.00		
S	E49		Disconnect Switches (100 A)	6	EA	100	$600.00		
S/V	E49/E172		Conduit & Wiring to North Substation G-PP	4500	LF	25	$112,500.00		
S	E49		South Wing						
S	E49		Disconnect Switches (125 A)	8	EA	125	$1,000.00		
S	E49		Disconnect Switches (60 A)	8	EA	60	$500.00		
S	E49		Disconnect Switches (100 A)	8	EA	100	$800.00		
S/V	E49/E172		Conduit & Wiring to North Substation G-PP	6000	LF	25	$150,000.00		
S	E49		East Wing						
S	E49		Disconnect Switches (125 A)	11	EA	125	$1,400.00		
S	E49		Disconnect Switches (60 A)	11	EA	60	$700.00		
S	E49		Disconnect Switches (100 A)	11	EA	100	$1,100.00		
S/V	E49/E172		Conduit & Wiring to North Substation G-PP	7425	LF	25	$185,600.00		
S	E51		Add 110V Circuit for 50 Retail Tenant Areas for HVAC Meters	55000	SF	2.5	$137,500.00		
		3751							
		3752	**Subtotal: Convenience Power**					$3,673,900	
		3753							
		3754	**Equipment Connections**						
		3755	**HVAC System**						
		3756	Pumps						
		3757	Chilled Water P-1 & P-2 [2 @ 100 HP]	2	EA	$5,500.00	$11,000		
V	H150	3758	Hot Water P-3 & P-4 [2 @ 15 HP]				Not Required		
		3759	Glycol Hot Water P-5 & P-6 [2 @ 100 HP]	2	EA	$5,500.00	$11,000		
		3760	Glycol Feed Pumps	2	EA	$1,500.00	$3,000		
		3761							
		3762	Data Center Chilled Water System						
		3763	Drycooler DAC-1	1	EA	$3,500.00	$4,000		
		3764	Drycooler DAC-2	1	EA	$3,500.00	$4,000		
		3765	Pump Package [2 @ 10 HP]	2	EA	$3,500.00	$7,000		
		3766							
		3767	Air Condiitoning Units						
V	H133	3768	AC-1 thru 12	11	EA	$3,500.00	$39,000		
		3769							

Terminal/Concourse Building Building Area: 639,470 GSF

		Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
		3770	*Air Handling Units*	43	TOTAL				
		3771	Supply Fans	43	EA	$5,500.00	$237,000		
		3772	VFD's (Furnished by HVAC)	1,990	HP				
		3773	Return Fans	43	EA	$5,500.00	$237,000		
		3774	VFD's (Furnished by HVAC)	1,750	HP				
		3775							
		3776	*Airside equipment*						
		3777	Exhaust Fans	66	EA	$2,500.00	$165,000		
V	A122	3778	Smoke Purge Fans [14 @ 5 HP]	14	EA	$3,500.00	$49,000		
		3779	VAV's	189	EA	$1,500.00	$284,000		
		3780	Man Cooler Fans	46	EA	$2,500.00	$115,000		
		3781	Transfer Fans	25	EA	$2,500.00	$63,000		
S	H27		Delete AC Units serving Elevator Machine Rooms	8	EA	$2,500.00	20,000		
V	H139		Delete AHU Ductwork & VAV's serving Telecom Closet				Not Required		
		3782	Elevator Machine Room AC	3	EA	$2,500.00	$8,000		
		3783	Switchboard Room Ventilation	3	EA	$2,500.00	$8,000		
		3784	Gas Meter Room Ventilation	1	EA	$2,500.00	$3,000		
		3785	Fire Pump Room Ventilation	1	EA	$2,500.00	$3,000		
		3786	*Packaged Heat Transfer Module*	1	EA	$5,000.00	$5,000		
		3787	Toilet Exhaust Fans	17	EA	$2,500.00	$43,000		
		3788	Ventilation Air VAHU's	4	EA	$2,500.00	$10,000		
S	H34	3789	Fire Smoke Dampers [1 per 1000 SF]	(621)	EA	$550.00	(342,000)		
S	H34		Power for FSD's (Shown on drawings)	88	EA	$550.00	48,000		
S	H34		Power for FSD's (Not shown on drawings)	1	LS	$50,000.00	50,000		
		3790	*Stair Pressurization Fans*				Not Included		
		3791							
		3792	Waterside Equipment						
V	H147	3793	Fan Coil Units				Not Included		
V	H147		Electric Unit Heaters	20	EA	$2,000.00	$40,000		
		3794	Elevator Machine Room AC	3	EA	$1,500.00	$5,000		
		3795	*Packaged Heat Transfer Module*	1	EA	$5,000.00	$5,000		
V	H149/H26	3796	Unit & Cabinet Heaters	120	EA	$1,500.00	$180,000		
V	149	3797	Air Curtains	12	EA	$2,500.00	$30,000		
		3798	Condensate Pumps [Allow for 12]	12	EA	$1,500.00	$18,000		
S	H33		Add 3 KW Duct Mounted Humidifier in Duct Serving Data Cen	1	EA	$5,000.00	5,000		
		3799							
		3800	Plumbing System (Drawing P00.02)						
		3801	Domestic Water Coolers	47	EA	$750.00	$35,000		
		3802	Domestic Booster Duplex Pump #1 & #2	4	EA	$3,500.00	$14,000		
		3803	Domestic Hot Water Circulator Pump #1 thru #6	6	HP	$1,500.00	$9,000		
		3804	Sewage Ejector Duplex Pump #1 thru #7	14	EA	$2,500.00	$35,000		
		3805	Gas-Fired Hot Water Heater #1 thru #6	6	EA	$1,500.00	$9,000		
		3806	Electric Hot Water Heater #1 thru #2	2	EA	$2,500.00	$5,000		
		3807	Elevator Pit Sump Pumps	7	EA	$1,500.00	$11,000		

Terminal/Concourse Building — **Building Area:** 639,470 GSF

		Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
		3808	Plumbing Fixtures				Not Included		
S	P45		Potable Water Cabinets - Power Connections (per gate)	26	EA	$2,500.00	$65,000		
S	P45		Potable Water Cabinets - Heat Tracing (25 LF/Cabinet)	650	EA	$15.00	$10,000		
S	P37	3808	Plumbing Fixtures				Included		
S/V	122		Low Voltage per Fixture				Not Included		
S/V	122		120V Circuit (per 10 Fixtures)				Not Included		
S/V	122		15VA Transformer (Per 10 Fixtures)				Not Included		
		3809							
		3810	Fire Protection System						
		3811	Fire Pump #1 & #2				w/Service & Distribution		
		3812	Controller & ATS (Furnished by FP)				w/Service & Distribution		
		3813	Jockey Pump #1 thru #2	2	EA	$2,500.00	$5,000		
		3814	Dry Systems	9	EA	$2,500.00	$23,000		
		3815	Preaction Valve	1	EA	$2,500.00	$3,000		
		3816							
		3817	Vertical Transportation						
		3818	Elevators	7	EA	$2,500.00	$18,000		
		3819	From Panel to Controller				Included		
		3820	From Controller to Motor				By Elevator Subcontractor		
		3821	Controller Circuits	7	EA	$750.00	$5,000		
		3822	Cab Circuits to Controller	7	EA	$750.00	$5,000		
		3823	Escalators/Moving Walks	4	EA	$2,500.00	$10,000		
		3824							
		3825	Special Equipment						
		3826							
		3827	Projection Screens (Spec Section 11132)	20	EA	$2,500.00	$50,000		
		3828							
		3829	Pantry Appliances (Allowance for Spec Section 11451)	1	ALLOW	$50,000.00	$50,000		
		3830							
		3831	Trash Compactor	1	ALLOW	$10,000.00	$10,000		
		3832							
		3833	Dock Levelers @ SE Loading Dock Area	4	EA	$2,500.00	$10,000		
		3834							
		3835	PDP Panels [E00.35]						
		3836	PDP Panels				F/I with Baggage Handling System		
		3837	PDP Panel Line Side Power Wiring	24	EA	$10,000.00	$240,000		
		3838	PDP Panel Load Side Power Wiring				F/I with Baggage Handling System		
		3839							
		3840	Doors						
V	A111	3841	Motorized Overhead Doors	23	EA	$2,500.00	$58,000		
		3842	Revolving Doors	14	EA	$2,500.00	$35,000		
		3843	Motorized Gated Doors	25	EA	$2,500.00	$63,000		
S/V	A14/A216	3844	Motorized Sliding Glass Doors				Not Required		
		3845	TSA Equipment						

Terminal/Concourse Building Building Area: 639,470 GSF

	Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
	3846	X-Rays	20	EA	$1,500.00	$30,000		
	3847	Magnameters	20	EA	$1,500.00	$30,000		
	3848							
	3849	Terminal Signage [Drawing A14.1.1]	151	EA	$1,500.00	$227,000		
	3850	Jet Blue Lettering						
S	3851	Ventless Dryers	2	EA	$2,500.00	$5,000		
	3852							
	3853	**Subtotal: Equipment Connections**					$2,438,000	
	3854							
	3855	**Telecommunications**						
	3856	Telecommunication Backbone						
	3857	SW Manhole to MCR						
	3858	(4) 4" Conduits (Underslab)				with Sitework		
	3859	SEManhole to MCR						
	3860	(4) 4" Conduits (Underslab)				with Sitework		
	3861	Rm 1-10M09 (MCR/TR2)						
	3862	MCR to TR4 (Rm 3-12J11)						
	3863	(2) 4" Conduits	112	LF	$78.35	$9,000		
	3864	18" Cable Tray	620	LF	$80.00	$50,000		
	3865	MCR to TR9 (Rm 3-8K23)						
	3866	(2) 4" Conduits	112	LF	$78.35	$9,000		
	3867	18" Cable Tray	330	LF	$80.00	$26,000		
	3868	MCR to TR3 (Rm 1-8M17)						
	3869	18" Cable Tray	410	LF	$80.00	$33,000		
	3870	12" Cable Tray	100	LF	$65.00	$7,000		
	3871	MCR to TR1 (Rm 3-10I21)						
	3872	(2) 4" Conduits	112	LF	$78.35	$9,000		
	3873	18" Cable Tray	130	LF	$80.00	$10,000		
	3874	MCR to TR5 (Rm 1-6R25)						
	3875	(4) 4" Conduits	720	LF	$78.35	$56,000		
	3876	TR5 to TR6 (Rm 1-6R25)						
	3877	(4) 4" Conduits	800	LF	$78.35	$63,000		
	3878	TR6 to TR7 (Rm 3-3G16)						
	3879	(2) 4" Conduits	292	LF	$78.35	$23,000		
	3880	18" Cable Tray	146	LF	$80.00	$12,000		
	3881	TR7 to TR8 (Rm 1-1H10)						
	3882	(2) 4" Conduits	200	LF	$78.35	$16,000		
	3883	(2) 4" Conduits	220	LF	$78.35	$17,000		
	3884	(2) 4" Conduits	108	LF	$78.35	$8,000		
	3885	18" Cable Tray	210	LF	$80.00	$17,000		
	3886							
	3887	Telecommunication Cabling						
	3888	East Incoming Service (Copper)				By vendor		
	3889	West Incoming Service (Copper)				By vendor		

Terminal/Concourse Building

Building Area: 639,470 GSF

	Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
	3890	East Incoming Service (Fiber)				By vendor		
	3891	West Incoming Service (Fiber)				By vendor		
V	IT166	Substitute 12pr MM ILO 18pr MM	(1)	LS	$125,000.00	(125,000)		
V	IT167	Substitute cat 5e ILO Cat6	(1)	LS	$410,000.00	(410,000)		
	3892							
	3893	Main Communications Room (Rm1-10M09)						
	3894	800 Pair Building Entrance Protector				By vendor		
	3895	#3 Cat 3 Cross-Connect Cable from Vendor to 100 Block	50	EA	$18.00	$1,000		
	3896	#4 Copper from 110 Block to Fiber LAN Equip	50	EA	$18.00	$1,000		
	3897	#5 Cat 3 Cable from 110 Block to 110 Block	50	LF	$2.00	$100		
	3898	Cat 3 Terminations, Label & Test	75	EA	$156.70	$12,000		
	3899	#6 (25) 4-pair Cat 5e Cables from 110 Block to CU Patch	25	LF	$2.00	$100		
	3900	Cat 6 Terminations, Label & Test	75	EA	$156.70	$12,000		
	3901	#7 Cat 3 Cable ((1) 100 pair Backbone) from 110 Block t	186	LF	$156.70	$29,000		
	3902	Cat 3 Terminations, Label & Test	1,600	EA	$156.70	$251,000		
	3903	110 Block	2	EA	$185.00	$400		
	3904	Copper Patch Panel	2	EA	$1,000.00	$2,000		
	3905	LAN Equipment	1	EA	$4,000.00	$4,000		
	3906	#11 Cat -6 Cable from CU Patch Panel to LAN Equip	50	LF	$156.70	$8,000		
	3907	#12 (18) 2-strand Multimode Hybrid Fiber Cable from LAN	50	LF	$156.70	$8,000		
	3908	FO Terminations, Label & Test	27	EA	$156.70	$4,000		
	3909	#13 (18) 2-strand Single-Mode Hybrid Fiber Cable from LA	50	LF	$156.70	$8,000		
	3910	FO Terminations, Label & Test	27	EA	$156.70	$4,000		
	3911	#14 (18) 2-strand Multimode Hybrid Fiber Cable from LAN	50	LF	$156.70	$8,000		
	3912	FO Terminations, Label & Test	27	EA	$156.70	$4,000		
	3913	#15 (18) 2-strand Single-Mode Hybrid Fiber Cable from LA	50	LF	$156.70	$8,000		
	3914	FO Terminations, Label & Test	27	EA	$156.70	$4,000		
	3915	#16 (18) 2-strand Multimode Hybrid Fiber Cable from LAN	50	LF	$156.70	$8,000		
	3916	FO Terminations, Label & Test	27	EA	$156.70	$4,000		
	3917	#17 (18) 2-strand Single-Mode Hybrid Fiber Cable from LA	50	LF	$156.70	$8,000		
	3918	FO Terminations, Label & Test	27	EA	$156.70	$4,000		
	3919	#18 (1) 4-pair Cat 6 Cable from FO Patch Panel to Outlets	50	LF	$1.50	$100		
	3920	#19 (1) 36/36 Strand MM & SMFiber Optic Cables betwee	50	LF	$1.50	$100		
	3921	Fiber Optic Patch Panel (144 port)	3	EA	$3,000.00	$9,000		
	3922							
	3923	*Telecommunication Rooms*						
	3924	#8 (25) 4-pair Cat 5e Cables	25	LF	$2.00	$100		
	3925	Cat 6 Terminations, Label & Test	75	EA	$156.70	$12,000		
	3926	#22 (18) 2-strand Multimode Hybrid Fiber Cable from LAN	50	LF	$156.70	$8,000		
	3927	FO Terminations, Label & Test	1,600	EA	$156.70	$251,000		
	3928	#23 (18) 2-strand Single-Mode Hybrid Fiber Cable from LA	50	LF	$156.70	$8,000		
	3929	FO Terminations, Label & Test	1,600	EA	$156.70	$251,000		
	3930	#26 Cat -6 Cable from LAN Equip to CU Patch Panel	54	LF	$2.00	$100		
	3931	#24 (18) 2-strand Multimode Hybrid Fiber Cable from LAN	50	LF	$156.70	$8,000		

Terminal/Concourse Building Building Area: 639,470 GSF

Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
3932	FO Terminations, Label & Test	1,600	EA	$156.70	$251,000		
3933	#25 (18) 2-strand Single-Mode Hybrid Fiber Cable from L/	50	LF	$156.70	$8,000		
3934	Factory Terminated				By Vendor		
3935	#27 (1) 4-pair Cat 6 Cable from CU Patch Panel to Outlets						
3936	#28 (1) 2-strand Multimode Fiber from FO Patch Panel to Outlets		LF	$2.00	$0		
3937	#29 (1) 2-strand Single mode Fiber from FO Patch Panel to Outlets		LF	$2.00	$0		
3938	#20 (1) 2-strand Multimode Fiber from FO Patch Panel to Outlets		LF	$2.00	$0		
3939	#21 (1) 2-strand Single mode Fiber from FO Patch Panel to Outlets		LF	$2.00	$0		
3940	110 Block	1	EA	$185.00	$0		
3941	Fiber Optic Patch Panel (144 port)	2	EA	$3,000.00	$6,000		
3942	Copper Patch Panel	1	EA	$1,000.00	$1,000		
3943	LAN Equipment	8	EA	$4,000.00	$32,000		
3944	Horizontal Management (1 per Patch Panel)	24	EA	$90.00	$2,000		
3945	Patch Cords	24	EA	$35.00	$1,000		
3946							
3947	Telecommunication Room Layouts						
3948	Rm 1-10M09 (MCR/TR2)						
3949	SCS Cabinets (32"x32"x84")	4	ALLOW	$3,550.00	$14,000		
3950	Security Cabinets (32"x32"x84")	3	ALLOW	$3,550.00	$11,000		
3951	Network Cabinets (40"x32"x84")	3	ALLOW	$3,550.00	$11,000		
3952	IT Cabinets (40"x32"x84")	7	ALLOW	$3,550.00	$25,000		
3953	PA Cabinets (40"x32"x84")	3	ALLOW	$3,550.00	$11,000		
3954	BMS Cabinets (40"x32"x84")	1	ALLOW	$3,550.00	$4,000		
3955	Reserved Cabinets (32"x32"x84")				By Vendor		
3956	Waterfalls	21	ALLOW	$60.00	$1,000		
3957	18" Cable Tray	195	LF	$80.00	$16,000		
3958	90 Deg. Elbows	4	EA	$150.00	$1,000		
3959	Tees	12	EA	$12.00	$100		
3960	4" Sleeves	11	EA	$150.00	$2,000		
3961	Power strip (2 per Cabinet)	42	EA	$350.00	$15,000		
3962	Fixed Shelf (3 per Cabinet)	63	EA	$125.00	$8,000		
3963	TR4 (Rm 3-12J11)						
3964	SCS Cabinets (32"x32"x84")	2	ALLOW	$3,550.00	$7,000		
3965	Security Cabinets (32"x32"x84")	1	ALLOW	$3,550.00	$4,000		
3966	Network Cabinets (40"x32"x84")	1	ALLOW	$3,550.00	$4,000		
3967	Spare Cabinets (40"x32"x84")	1	ALLOW	$3,550.00	$4,000		
3968	Waterfalls	5	ALLOW	$60.00	$300		
3969	12" Cable Tray	90	LF	$65.00	$6,000		
3970	90 Deg. Elbows				Included		
3971	Tees				Included		
3972	Power strip (2 per Cabinet)	10	EA	$350.00	$4,000		
3973	Fixed Shelf (3 per Cabinet)	15	EA	$125.00	$2,000		
3974	TR9 (Rm 3-8K23)						
3975	SCS Cabinets (32"x32"x84")	2	ALLOW	$3,550.00	$7,000		

Terminal/Concourse Building Building Area: 639,470 GSF

Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
3976	Security Cabinets (32"x32"x84")	1	ALLOW	$3,550.00	$4,000		
3977	Network Cabinets (40"x32"x84")	1	ALLOW	$3,550.00	$4,000		
3978	Spare Cabinets (40"x32"x84")	1	ALLOW	$3,550.00	$4,000		
3979	Waterfalls	5	ALLOW	$60.00	$300		
3980	12" Cable Tray	80	LF	$54.00	$4,000		
3981	90 Deg. Elbows				Included		
3982	Tees				Included		
3983	4" Sleeves	8	EA	$150.00	$1,000		
3984	Power strip (2 per Cabinet)	10	EA	$350.00	$4,000		
3985	Fixed Shelf (3 per Cabinet)	15	EA	$125.00	$2,000		
3986	TR3 (Rm 1-8M17)						
3987	SCS Cabinets (32"x32"x84")	2	ALLOW	$3,550.00	$7,000		
3988	Security Cabinets (32"x32"x84")	1	ALLOW	$3,550.00	$4,000		
3989	Network Cabinets (40"x32"x84")	1	ALLOW	$3,550.00	$4,000		
3990	Spare Cabinets (40"x32"x84")	1	ALLOW	$3,550.00	$4,000		
3991	Waterfalls	5	ALLOW	$60.00	$300		
3992	12" Cable Tray	100	LF	$65.00	$7,000		
3993	90 Deg. Elbows				Included		
3994	Tees				Included		
3995	4" Sleeves	12	EA	$150.00	$2,000		
3996	Power strip (2 per Cabinet)	10	EA	$350.00	$4,000		
3997	Fixed Shelf (3 per Cabinet)	15	EA	$125.00	$2,000		
3998	TR1 (Rm 3-10I21)						
3999	SCS Cabinets (32"x32"x84")	2	ALLOW	$3,550.00	$7,000		
4000	Security Cabinets (32"x32"x84")	1	ALLOW	$3,550.00	$4,000		
4001	Network Cabinets (40"x32"x84")	1	ALLOW	$3,550.00	$4,000		
4002	Spare Cabinets (40"x32"x84")	1	ALLOW	$3,550.00	$4,000		
4003	Waterfalls	5	ALLOW	$60.00	$300		
4004	12" Cable Tray	80	LF	$65.00	$5,000		
4005	90 Deg. Elbows				Included		
4006	Tees				Included		
4007	Power strip (2 per Cabinet)	10	EA	$350.00	$4,000		
4008	Fixed Shelf (3 per Cabinet)	15	EA	$125.00	$2,000		
4009	TR5 (Rm 1-6R25)						
4010	SCS Cabinets (32"x32"x84")	2	ALLOW	$3,550.00	$7,000		
4011	Security Cabinets (32"x32"x84")	1	ALLOW	$3,550.00	$4,000		
4012	Network Cabinets (40"x32"x84")	1	ALLOW	$3,550.00	$4,000		
4013	Spare Cabinets (40"x32"x84")	1	ALLOW	$3,550.00	$4,000		
4014	Waterfalls	5	ALLOW	$60.00	$300		
4015	12" Cable Tray	130	LF	$65.00	$8,000		
4016	90 Deg. Elbows				Included		
4017	Tees				Included		
4018	Power strip (2 per Cabinet)	10	EA	$350.00	$4,000		
4019	Fixed Shelf (3 per Cabinet)	15	EA	$125.00	$2,000		

Terminal/Concourse Building Building Area: 639,470 GSF

Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
4020	TR6 (Rm 1-6R25)						
4021	SCS Cabinets (32"x32"x84")	2	ALLOW	$3,550.00	$7,000		
4022	Security Cabinets (32"x32"x84")	1	ALLOW	$3,550.00	$4,000		
4023	Network Cabinets (40"x32"x84")	1	ALLOW	$3,550.00	$4,000		
4024	Spare Cabinets (40"x32"x84")	1	ALLOW	$3,550.00	$4,000		
4025	Waterfalls	5	ALLOW	$60.00	$300		
4026	12" Cable Tray	100	LF	$65.00	$7,000		
4027	90 Deg. Elbows				Included		
4028	Tees				Included		
4029	4" Sleeves	5	EA	$150.00	$1,000		
4030	Power strip (2 per Cabinet)	10	EA	$350.00	$4,000		
4031	Fixed Shelf (3 per Cabinet)	15	EA	$125.00	$2,000		
4032	TR7 (Rm 3-3G16)						
4033	SCS Cabinets (32"x32"x84")	2	ALLOW	$3,550.00	$7,000		
4034	Security Cabinets (32"x32"x84")	1	ALLOW	$3,550.00	$4,000		
4035	Network Cabinets (40"x32"x84")	1	ALLOW	$3,550.00	$4,000		
4036	Spare Cabinets (40"x32"x84")	1	ALLOW	$3,550.00	$4,000		
4037	Waterfalls	5	ALLOW	$60.00	$300		
4038	12" Cable Tray	60	LF	$65.00	$4,000		
4039	90 Deg. Elbows				Included		
4040	Tees				Included		
4041	4" Sleeves	5	EA	$150.00	$1,000		
4042	Power strip (2 per Cabinet)	10	EA	$350.00	$4,000		
4043	Fixed Shelf (3 per Cabinet)	15	EA	$125.00	$2,000		
4044	TR8 (Rm 1-1H10)						
4045	SCS Cabinets (32"x32"x84")	2	ALLOW	$3,550.00	$7,000		
4046	Security Cabinets (32"x32"x84")	1	ALLOW	$3,550.00	$4,000		
4047	Network Cabinets (40"x32"x84")	1	ALLOW	$3,550.00	$4,000		
4048	Spare Cabinets (40"x32"x84")	1	ALLOW	$3,550.00	$4,000		
4049	Waterfalls	5	ALLOW	$60.00	$300		
4050	4" Sleeves	6	EA	$150.00	$1,000		
4051	12" Cable Tray	100	LF	$65.00	$7,000		
4052	90 Deg. Elbows				Included		
4053	Tees				Included		
4054	Power strip (2 per Cabinet)	10	EA	$350.00	$4,000		
4055	Fixed Shelf (3 per Cabinet)	15	EA	$125.00	$2,000		
4056							
4057	Outlets (Zones 1-16)						
4058	TR-1						
4059	Phone	62	EA	$400.00	$25,000		
4060	Default Data	133	EA	$400.00	$53,000		
4061	Public Phone	21	EA	$400.00	$8,000		
V IT159 4062	Access Point				Not Included		
4063	Passenger Processing	26	EA	$400.00	$10,000		

Terminal/Concourse Building

Building Area: 639,470 GSF

	Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
	4064	Kiosk	18	EA	$400.00	$7,000		
	4065	CCTV	31	EA	$400.00	$12,000		
	4066	ACAMS	47	EA	$400.00	$19,000		
	4067	Intercom	23	EA	$400.00	$9,000		
	4068	BIDS	4	EA	$400.00	$2,000		
	4069	RIDS	0	EA	$400.00	$0		
	4070	GIDS	0	EA	$400.00	$0		
	4071	FIDS	2	EA	$400.00	$1,000		
	4072	ATM	4	EA	$400.00	$2,000		
	4073	TV/CATV	0	EA	$400.00	$0		
	4074	Terminations	371	EA	$400.00	$148,000		
S	IT64 4075	Patch Cords (1 per Outlet)				w/ Owner		
	4076	MCR/TR-2						
	4077	Phone	10	EA	$400.00	$4,000		
	4078	Default Data	45	EA	$400.00	$18,000		
	4079	Public Phone	22	EA	$400.00	$9,000		
V	IT159 4062	Access Point				Not Included		
	4081	Passenger Processing	0	EA	$400.00	$0		
	4082	Kiosk	0	EA	$400.00	$0		
	4083	CCTV	4	EA	$400.00	$2,000		
	4084	ACAMS	5	EA	$400.00	$2,000		
	4085	Intercom	2	EA	$400.00	$1,000		
	4086	BIDS	8	EA	$400.00	$3,000		
	4087	RIDS	0	EA	$400.00	$0		
	4088	GIDS	0	EA	$400.00	$0		
	4089	FIDS	11	EA	$400.00	$4,000		
	4090	ATM	4	EA	$400.00	$2,000		
	4091	TV/CATV	0	EA	$400.00	$0		
	4092	Terminations	111	EA	$400.00	$44,000		
S	IT64 4093	Patch Cords (1 per Outlet)				w/ Owner		
	4094	TR-3						
	4095	Phone	35	EA	$400.00	$14,000		
	4096	Default Data	270	EA	$400.00	$108,000		
	4097	Public Phone	0	EA	$400.00	$0		
V	IT159 4098	Access Point				Not Included		
	4099	Passenger Processing	0	EA	$400.00	$0		
	4100	Kiosk	0	EA	$400.00	$0		
	4101	CCTV	3	EA	$400.00	$1,000		
	4102	ACAMS	16	EA	$400.00	$6,000		
	4103	Intercom	6	EA	$400.00	$2,000		
	4104	BIDS	6	EA	$400.00	$2,000		
	4105	RIDS	0	EA	$400.00	$0		
	4106	GIDS	0	EA	$400.00	$0		
	4107	FIDS	0	EA	$400.00	$0		

Terminal/Concourse Building Building Area: 639,470 GSF

	Rank	Building System		Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
	4108		ATM	2	EA	$400.00	$1,000		
	4109		TV/CATV	0	EA	$400.00	$0		
	4110		Terminations	338	EA	$400.00	$135,000		
S	IT64	4111	Patch Cords (1 per Outlet)				w/ Owner		
	4112	TR-4							
	4113		Phone	44	EA	$400.00	$18,000		
	4114		Default Data	152	EA	$400.00	$61,000		
	4115		Public Phone	12	EA	$400.00	$5,000		
V	IT159	4116	Access Point				Not Included		
	4117		Passenger Processing	0	EA	$400.00	$0		
	4118		Kiosk	0	EA	$400.00	$0		
	4119		CCTV	29	EA	$400.00	$12,000		
	4120		ACAMS	28	EA	$400.00	$11,000		
	4121		Intercom	15	EA	$400.00	$6,000		
	4122		BIDS	0	EA	$400.00	$0		
	4123		RIDS	0	EA	$400.00	$0		
	4124		GIDS	0	EA	$400.00	$0		
	4125		FIDS	6	EA	$400.00	$2,000		
	4126		ATM	0	EA	$400.00	$0		
	4127		TV/CATV	0	EA	$400.00	$0		
	4128		Terminations	286	EA	$400.00	$114,000		
S	IT64	4129	Patch Cords (1 per Outlet)				w/ Owner		
	4130	TR-5							
	4131		Phone	54	EA	$400.00	$22,000		
	4132		Default Data	169	EA	$400.00	$68,000		
	4133		Public Phone	14	EA	$400.00	$6,000		
V	IT159	4134	Access Point				Not Included		
	4135		Passenger Processing	0	EA	$400.00	$0		
	4136		Kiosk	0	EA	$400.00	$0		
	4137		CCTV	16	EA	$400.00	$6,000		
	4138		ACAMS	18	EA	$400.00	$7,000		
	4139		Intercom	10	EA	$400.00	$4,000		
	4140		BIDS	0	EA	$400.00	$0		
	4141		RIDS	0	EA	$400.00	$0		
	4142		GIDS	0	EA	$400.00	$0		
	4143		FIDS	0	EA	$400.00	$0		
	4144		ATM	6	EA	$400.00	$2,000		
	4145		TV/CATV	0	EA	$400.00	$0		
	4146		Terminations	287	EA	$400.00	$115,000		
S	IT64	4147	Patch Cords (1 per Outlet)				w/ Owner		
	4148	TR-6							
	4149		Phone	19	EA	$400.00	$8,000		
	4150		Default Data	51	EA	$400.00	$20,000		
	4151		Public Phone	10	EA	$400.00	$4,000		

Terminal/Concourse Building Building Area: 639,470 GSF

		Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
V	IT159	4152	Access Point				Not Included		
		4153	Passenger Processing	0	EA	$400.00	$0		
		4154	Kiosk	0	EA	$400.00	$0		
		4155	CCTV	17	EA	$400.00	$7,000		
		4156	ACAMS	16	EA	$400.00	$6,000		
		4157	Intercom	15	EA	$400.00	$6,000		
		4158	BIDS	0	EA	$400.00	$0		
		4159	RIDS	0	EA	$400.00	$0		
		4160	GIDS	0	EA	$400.00	$0		
		4161	FIDS	4	EA	$400.00	$2,000		
		4162	ATM	1	EA	$400.00	$400		
		4163	TV/CATV	0	EA	$400.00	$0		
		4164	Terminations	133	EA	$400.00	$53,000		
S	IT64	4165	Patch Cords (1 per Outlet)				w/ Owner		
		4166	TR-7						
		4167	Phone	15	EA	$400.00	$6,000		
		4168	Default Data	31	EA	$400.00	$12,000		
		4169	Public Phone	8	EA	$400.00	$3,000		
V	IT159	4170	Access Point				Not Included		
		4171	Passenger Processing	0	EA	$400.00	$0		
		4172	Kiosk	0	EA	$400.00	$0		
		4173	CCTV	17	EA	$400.00	$7,000		
		4174	ACAMS	20	EA	$400.00	$8,000		
		4175	Intercom	22	EA	$400.00	$9,000		
		4176	BIDS	0	EA	$400.00	$0		
		4177	RIDS	0	EA	$400.00	$0		
		4178	GIDS	0	EA	$400.00	$0		
		4179	FIDS	6	EA	$400.00	$2,000		
		4180	ATM	1	EA	$400.00	$400		
		4181	TV/CATV	0	EA	$400.00	$0		
		4182	Terminations	120	EA	$400.00	$48,000		
S	IT64	4183	Patch Cords (1 per Outlet)				w/ Owner		
		4184	TR-8				$0		
		4185	Phone	29	EA	$400.00	$12,000		
		4186	Default Data	89	EA	$400.00	$36,000		
		4187	Public Phone	8	EA	$400.00	$3,000		
V	IT159	4188	Access Point				Not Included		
		4189	Passenger Processing	0	EA	$400.00	$0		
		4190	Kiosk	0	EA	$400.00	$0		
		4191	CCTV	17	EA	$400.00	$7,000		
		4192	ACAMS	19	EA	$400.00	$8,000		
		4193	Intercom	15	EA	$400.00	$6,000		
		4194	BIDS	0	EA	$400.00	$0		
		4195	RIDS	0	EA	$400.00	$0		

Terminal/Concourse Building

Building Area: 639,470 GSF

	Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
4196		GIDS	0	EA	$400.00	$0		
4197		FIDS	5	EA	$400.00	$2,000		
4198		ATM	1	EA	$400.00	$400		
4199		TV/CATV	0	EA	$400.00	$0		
4200		Terminations	183	EA	$400.00	$73,000		
S	IT64	4201 Patch Cords (1 per Outlet)				w/ Owner		
4202		TR-9						
4203		Phone	38	EA	$400.00	$15,000		
4204		Default Data	76	EA	$400.00	$30,000		
4205		Public Phone	26	EA	$400.00	$10,000		
V	IT159	4206 Access Point				Not Included		
4207		Passenger Processing	34	EA	$400.00	$14,000		
4208		Kiosk	18	EA	$400.00	$7,000		
4209		CCTV	17	EA	$400.00	$7,000		
4210		ACAMS	24	EA	$400.00	$10,000		
4211		Intercom	12	EA	$400.00	$5,000		
4212		BIDS	0	EA	$400.00	$0		
4213		RIDS	0	EA	$400.00	$0		
4214		GIDS	0	EA	$400.00	$0		
4215		FIDS	10	EA	$400.00	$4,000		
4216		ATM	2	EA	$400.00	$1,000		
4217		TV/CATV	0	EA	$400.00	$0		
4218		*Terminations*	257	EA	$400.00	$103,000		
S	IT64	4219 Patch Cords (1 per Outlet)				w/ Owner		
4220								
4221		Miscellaneous						
4222		IT Pullboxes (Dwg E07.04 - 07.10)	1	ALLOW	$20,000.00	$20,000		
4223		Additional Hardware (Missing Scope)	1	ALLOW	$100,000.00	$100,000		
4224		Label, Terminate, Testing & Commissioning	1	LS	$100,000.00	$100,000		
4225		Horizontal Cabling				Included		
4226		Firestopping	1	LS	$22,500.00	$23,000		
4227		Frame Openings				With Drywall		
4228		3/"4" Plywood				With Drywall		
4229		A/V System				Not Included		
4230		Cable TV				Not Included		
4231		Wireless Infrastructure				Not Included		
4232		Grounding & Bonding Diagram				with Grounding		
4233		Telecommunication Backbone						
4234		SW Manhole to MCR						
4235		(4) 4" Conduits (Underslab)				with Sitework		
4236		SEManhole to MCR						
4237		(4) 4" Conduits (Underslab)				with Sitework		
4238								
4239								

Terminal/Concourse Building Building Area: 639,470 GSF

		Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
		4240	**Subtotal: Telecommunications**					$3,357,700	
		4241							
V	A87	4242	**Fire Alarm System**	617,937	SF	$4.75	$2,935,000		
		4243	Fire Alarm Fused Cut Out			with Service & Power Distibution			
		4244	Feeders to Fused Cut Out			with Service & Power Distibution			
		4245	FACP with Interface Panel to Port Authority (including Modem/Dialer)	1	EA		Included		
		4246	Fan Control Box	1	EA		Included		
		4247	Purge Control Panel	1	EA		Included		
		4248	Interface Panel				Included		
		4249	FAAP	1	EA		Included		
		4250	DGP with LCD	9	EA		Included		
		4251	Fan Shut Down Relays	10	EA		Included		
		4252	Manual Fire Alarm Stations	89	EA		Included		
		4253	Horns				Not Shown		
		4254	Multi-tone Horn	2	EA		Included		
		4255	Strobes	149	EA		Included		
		4256	Horn/Strobes	353	EA		Included		
		4257	Heat Detectors	16	EA		Included		
		4258	Smoke Detectors	262	EA		Included		
		4259	Smoke/Heat Detectors				Not Shown		
		4260	Combo Magnetic Door Holder/Smoke Detector				Not Shown		
		4261	Duct Smoke Detectors [Allowance - Not Shown]	125	EA		$0		
		4262	Elevator Recall Smoke Detectors	9	EA		Included		
		4263	Door Release	10	EA		Included		
		4264	Water Flows Switch	29	EA		Included		
		4265	Tamper Switches	29	EA		Included		
		4266	Monitoring Modules	18	EA		Included		
		4267	Addressable Monitoring/Control Modules	18	EA		Included		
		4268	J-Boxes	41	EA		Included		
		4269	Conduit - EMT	56,600	LF		Included		
		4270	Data Cabling	58,650	LF		Included		
		4271	Programming & Commissioning				Included		
		4272	Warranty for (1) year				Included		
		4273	Training (8 hours)				Included		
		4274	Connections to Satellite Fuel Farm				Not Included		
		4275	Baggage Handling System Requirements (Spec Section 14520-p.214)			with Baggage Handling System			
		4276	Offsite Tie-ins for Central Supervisory Fire Alarm Board						
		4277	Centrex Pairs				with Verizon		
		4278	UDAC Panel				Not Included		
		4279	Terminations				Not Included		
		4280							
		4281							
		4282	**Subtotal: Fire Alarm System**					$2,935,000	
		4283							

Terminal/Concourse Building Building Area: 639,470 GSF

Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
4284	**Security System**						
4285	Card Access	1	ALLOW	$1,000,000.00	$1,000,000		
4286	Card Reader				Included		
4287	Card Reader with Pinpad				Included		
4288	*Elevator Card Readers with Keypad (FBO)*				Included		
4289	Magnetic Contact				Included		
4290	Request to Exit				Included		
4291	Audio/Visual				Included		
4292	Motion Detector Request to Exit				Included		
4293	Remote Door Release				Included		
4294	Intercom Door Station				Included		
4295	Intercom Master Station				Included		
4296	Panic Button				Included		
4297	Lock Power Supply				Included		
4298	Glass Break Detector				Included		
4299	Alarm Monitoring Panel	5	EA		Included		
4300	Access Control Panel	1	EA		Included		
4301	Backboxes						
4302							
4303	CCTV						
4304	Fixed CCTV (ceiling or wall mounted)	47	EA	$1,000.00	$47,000		
4305	Fixed CCTV (pole mounted)	20	EA	$1,000.00	$20,000		
4306	Fixed CCTV (Elevator)	7	EA	$1,000.00	$7,000		
4307	PTZ CCTV	7	EA	$1,500.00	$11,000		
4308	Camera Power Supply	20	EA	$750.00	$15,000		
4309	Digital Video Recorder (16 Input)	9	EA	$25,000.00	$225,000		
4310	CCTV Monitor	1	EA	$2,000.00	$2,000		
4311	CCTV Camera Keyboard Controller	1	EA	$20,000.00	$20,000		
4312	Power Video Data Integrator (16 port)	9	EA	$25,000.00	$225,000		
4313	Conduit & Wire	31,200	LF	$4.00	$125,000		
4314							
4315	Central Command Workstations [Z03.02]						
4316	Workstations						
4317	Corporate Security ACAM Workstation (Rm 1-12M07)	1	EA	$50,000.00	$50,000		
4318	Security Command Center ACAM Workstation (Rm 1-8I20)	1	EA	$50,000.00	$50,000		
4319	ID Control Processing Workstation (Rm 1-13C08)	1	EA	$50,000.00	$50,000		
4320	Corporate Security Video Management Workstation (Rm 1-12M07)	1	EA	$50,000.00	$50,000		
4321	Security Command Center Video Management Workstation (Rm 1-81	1	EA	$50,000.00	$50,000		
4322	Ramp Control Room Video Management Workstation (Rm 5-8T15)	1	EA	$50,000.00	$50,000		
4323	Servers						
4324	Digital Video Management Server	1	EA	$35,000.00	$35,000		
4325	Access Control Alrm Monitoring Server	1	EA	$35,000.00	$35,000		
4326	PANYNJ/JetBlue Cardholder Database Server	1	EA	$35,000.00	$35,000		
4327	Miscellaneous						

Terminal/Concourse Building — Building Area: 639,470 GSF

	Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
	4328	Software and Programming	1	LS	$100,000.00	$100,000		
	4329	Engineering	1	LS	$100,000.00	$100,000		
	4330	Training	1	LS	$25,000.00	$25,000		
	4331	Baggage Handling Roll-up Doors	14	EA	$2,500.00	$35,000		
	4332	TSA Areas, as shown on Security Floor Plan Drawings				Not Included		
	4333	Baggage Handling Zones (as identified on Z Dwgs)				with TSA		
	4334	JetBlue/Security VLAN				with TSA		
	4335	Hand Baggage X-ray Screening				with TSA		
	4336	Magnetometer				with TSA		
	4337	Maintenance for One Year				Included		
	4338	Maintenance for Three Year or Five Year Options				Not Included		
	4339							
	4340	UPS System - 80kVA, 3P, Static, Reverse Transfer (Spec Section 16264)	1	ALLOW	$400,000.00	$400,000		
	4341	Output Isolation Transformer				Included		
	4342	Static Transfer Switch				Included		
	4343	Battery Power Pack				Included		
	4344	Monitoring & Control				Included		
	4345	Ethernet Network Management Capabilities				Included		
	4346	Training				Included		
	4347	Factory Testing				Included		
	4348	3 Year Special Warranty				Included		
	4349	Service Personel (Spec 16264 - p.23)				Not Included		
	4350	*Maintenance Contract (Spec 16264 - p.24)*				Not Included		
	4351							
	4352	**Subtotal: Security System**					$2,762,000	
	4353							
	4354	**Information Systems**						
S	IT62 4355	FIDS/BIDS/GIDS/RIDS Allowance	620,977	SF	$8.75	$5,434,000		
	4356	Infastructure				Included w/ Telcomm		
S	IT61 4357	Allowance for 130 GIDS (5 per Gate)	1	LS	$300,000.00	$300,000		
	4358	Public Address System: Spec Section 16770 (IED System)						
	4359	PABX Interface	1	ALLOW	$10,000.00	$10,000		
	4360	FIDS Interface	1	ALLOW	$10,000.00	$10,000		
	4361	Fire Alarm System Interface	1	ALLOW	$10,000.00	$10,000		
	4362	Visual Paging Interface	1	ALLOW	$10,000.00	$10,000		
	4363	*Main Communications Room*						
	4364	PA Head End Server, CPU, Harddrive	1	LS	$25,000.00	$25,000		
	4365	Courtesy Announcement System	1	LS	$25,000.00	$25,000		
	4366	Digital Record Playback System	1	LS	$25,000.00	$25,000		
	4367	Ambient Noise Analysis System	1	LS	$25,000.00	$25,000		
	4368	Amplifiers (200 W)	35	EA	$1,998.00	$70,000		
	4369	Devices						
	4370	Type A: 4" Cieling Mounted, Atlas FAP42T	470	EA	$150.00	$71,000		
	4371	Type B: 8" Cieling Mounted, Atlas FAP82T	260	EA	$150.00	$39,000		

Terminal/Concourse Building Building Area: 639,470 GSF

Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
4372	Type C: Short Column Wall Mounted, Penton MCS80T	95	EA	$150.00	$14,000		
4373	Type D: Wall Mounted, Duran Intellivox 2b	8	EA	$150.00	$1,000		
4374	Type E: Wall Mounted, Duran Intellivox 6c	4	EA	$150.00	$1,000		
4375	Type F: Wall Mounted Horn, Atlas AP-20	180	EA	$150.00	$27,000		
4376	Desk Mounted Microphone	12	EA	$100.00	$1,000		
4377	Wall Mounted Microphone	27	EA	$100.00	$3,000		
4378	Cieiling Mounted Ambient Noise Sensing Microphone	34	EA	$100.00	$3,000		
4379	Conduit & Wire (12 AWG Homeruns to Telcomm Closet)	54,500	LF	$10.00	$545,000		
4380	Sleeves & Link Seal	1	LS	$5,000.00	$5,000		
4381	Supports	1	LS	$5,000.00	$5,000		
4382							
4384	**Subtotal: Information Systems**					$6,659,000	
4385							
4386	**Grounding System**						
4387	Service: North						
4388	HV Ground Bar (Wall-mounted)	1	EA	$2,500.00	$3,000		
4389	Exothermic to Building Structural Steel Column	1	EA	$1,500.00	$2,000		
4390	Grounding Ring Connection	1	EA	$1,500.00	$2,000		
4391	Cold Water Pipe	1	EA	$1,500.00	$2,000		
4392	Feeder to Collector Bus Room	75	LF	$60.00	$5,000		
4393	Feeder to Emergency Generator Room	75	LF	$60.00	$5,000		
4394	Collector Bus Ground Bar (Wall-mounted)	1	EA	$2,500.00	$3,000		
4395	Exothermic to Building Structural Steel Column	1	EA	$1,500.00	$2,000		
4396	Grounding Ring Connection	1	EA	$1,500.00	$2,000		
4397	Feeder to Collector Bus Room	75	LF	$60.00	$5,000		
4398	LV Ground Bar (Wall-mounted)	3	EA	$2,500.00	$8,000		
4399	Feeder to Equipment Ground Bus	75	LF	$60.00	$5,000		
4400	Equipment Ground Bus	1	EA	$1,500.00	$2,000		
4401	Exothermic to Building Structural Steel Column	1	EA	$1,500.00	$2,000		
4402	Grounding Ring Connection	1	EA	$1,500.00	$2,000		
4403	Feeder to Outdoor Generator	100	LF	$60.00	$6,000		
4404	Service: East						
4405	HV Ground Bar (Wall-mounted)	1	EA	$2,500.00	$3,000		
4406	Exothermic to Building Structural Steel Column	1	EA	$1,500.00	$2,000		
4407	Grounding Ring Connection	1	EA	$1,500.00	$2,000		
4408	Cold Water Pipe	1	EA	$1,500.00	$2,000		
4409	Feeder to Collector Bus Room	75	LF	$60.00	$5,000		
4410	Feeder to Emergency Generator Room	75	LF	$60.00	$5,000		
4411	Collector Bus Ground Bar (Wall-mounted)	1	EA	$2,500.00	$3,000		
4412	Exothermic to Building Structural Steel Column	1	EA	$1,500.00	$2,000		
4413	Grounding Ring Connection	1	EA	$1,500.00	$2,000		
4414	Feeder to Collector Bus Room	75	LF	$60.00	$5,000		
4415	LV Ground Bar (Wall-mounted)	3	EA	$2,500.00	$8,000		
4416	Feeder to Equipment Ground Bus	75	LF	$60.00	$5,000		

Terminal/Concourse Building Building Area: 639,470 GSF

	Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
	4417	Equipment Ground Bus	1	EA	$1,500.00	$2,000		
	4418	Exothermic to Building Structural Steel Column	1	EA	$1,500.00	$2,000		
	4419	Grounding Ring Connection	1	EA	$1,500.00	$2,000		
	4420	Feeder to Outdoor Generator	100	LF	$60.00	$6,000		
	4421	Service: South						
	4422	HV Ground Bar (Wall-mounted)	1	EA	$2,500.00	$3,000		
	4423	Exothermic to Building Structural Steel Column	1	EA	$1,500.00	$2,000		
	4424	Grounding Ring Connection	1	EA	$1,500.00	$2,000		
	4425	Cold Water Pipe	1	EA	$1,500.00	$2,000		
	4426	Feeder to Collector Bus Room	75	LF	$60.00	$5,000		
	4427	Feeder to Emergency Generator Room	75	LF	$60.00	$5,000		
	4428	Collector Bus Ground Bar (Wall-mounted)	1	EA	$2,500.00	$3,000		
	4429	Exothermic to Building Structural Steel Column	1	EA	$1,500.00	$2,000		
	4430	Grounding Ring Connection	1	EA	$1,500.00	$2,000		
	4431	Feeder to Collector Bus Room	75	LF	$60.00	$5,000		
	4432	LV Ground Bar (Wall-mounted)	3	EA	$2,500.00	$8,000		
	4433	Feeder to Equipment Ground Bus	75	LF	$60.00	$5,000		
	4434	Equipment Ground Bus	1	EA	$1,500.00	$2,000		
	4435	Exothermic to Building Structural Steel Column	1	EA	$1,500.00	$2,000		
	4436	Grounding Ring Connection	1	EA	$1,500.00	$2,000		
	4437	Feeder to Outdoor Generator	100	LF	$60.00	$6,000		
	4438	Emergency Switchgear	1	EA	$2,500.00	$3,000		
	4439	Exothermic to Building Structural Steel Column	1	LS	$1,500.00	$2,000		
	4440	Grounding Ring Connection	1	LS	$1,500.00	$2,000		
	4441	Outdoor Generator Ground Bar (Wall-mounted)	1	EA	$2,500.00	$3,000		
	4442	Equipment Ground Bus	1	LS	$1,500.00	$2,000		
	4443	Grounding at Foundation Columns (2" PVC)	400	LF	$2.00	$1,000		
	4444	Building Grounding Ring (Elec Power Floor Plans)	4,696	LF	$50.00	$235,000		
	4445	Ground Test Well-3/4" Copper, 10' Deep (Every 500' around Ground I	9	EA	$1,500.00	$14,000		
	4446	Ground Connection to Equipment Ground Busbar (Elec Power Floor F	1	EA	$1,500.00	$2,000		
	4447	Telecommunications Grounding (Dwg. T01.04)	1	LS	$75,000.00	$75,000		
	4448							
	4449	**Subtotal: Grounding Systems**					$507,000	
	4450							
	4451	**Lightning Protection System**						
V	E161 4452	Lightening Arrestors			with Service & Power Distribution			
V	E161 4453	Flashing (Dwg E08.02-Detail #6)				with Roofing		
V	E161 4454	Inspections & Certifications (LPI System, UL Master Label & LPI Forms)				Included		
V	E161 4455	Add Lightning Protection System - ESE System	1	LS	$200,000.00	$200,000		
V	E161 4456	Copper Conductor	2,200	LF		Included		
V	E161 4457	Ionizing Preventor	6	EA		Included		
V	E161 4458	Aluminum Mast (20' w/base)	6	EA		Included		
V	E161 4459	Corrosion Resist Bonding Plate	14	EA		Included		
V	E161 4460	Copper Parallel Clamp	32	EA		Included		

Terminal/Concourse Building — Building Area: 639,470 GSF

		Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
V	E161	4461	Copper Fastener	200	EA		Included		
V	E161	4462	Copperweld Ground Rod	36	EA		Included		
V	E161	4463	Ground Rod Connection	36	EA		Included		
V	E161	4464	Bonding Conductor Connection to Building Steel	66	EA	$1,200.00	$79,000		
V	E161	4465	Lightning Protection Down Cables	76	EA	$1,200.00	$91,000		
V	E161	4466	1" PVC Conduit with Stub-outs to Lower Roof	380	LF	$8.00	$3,000		
V	E161	4467	1" PVC Conduit with Stub-outs to Concrete Slab	15,580	LF	$8.00	$125,000		
V	E161	4468	Thru-wall Connector (Including Sleeves & Seals)	76	EA	$20.00	$2,000		
V	E161	4469	JB's	9	EA	$150.00	$1,000		
V	E161	4470	Lightening Arrestors			with Service & Power Distribution			
V	E161	4471	Flashing (Dwg E08.02-Detail #6)				with Roofing		
V	E161	4472	Guarantee ($10 million insurance coverage)				Included		
V	E161	4473							
V	E161	4474							
V	E161	4475							
V	E161	4476							
V	E161	4477							
V	E161	4478							
V	E161	4479							
V	E161	4480	Subtotal: Lightning Protection Systems					501,000	
		4481							
		4482	**Temporary Power & Light**						
		4483	Temp Power & Light	620,977	GSF	$2.00	$1,242,000		
		4484	Power Consumption	36	MONTHS	$45,653.00	$1,644,000		
		4485							
		4486	**Subtotal: Temporary Power & Light**					$2,886,000	
		4487							
V	E189	4488	**Power Monitoring System**						
V	E189	4489	Powering Monitoring & Control				Not Included		
V	E189	4490	Ethernet Gates				Not Included		
V	E189	4491	Feeder Meters				Not Included		
V	E189	4492	Generator Contacts				Not Included		
V	E189	4493	ATS Contacts				Not Included		
V	E189	4494	UPS Contacts				Not Included		
V	E189	4495	Fire Pump Contacts				Not Included		
V	E189	4496	Network Transformer Contacts				Not Included		
V	E189	4497	Network Protector Contacts				Not Included		
V	E189	4498	Microprocessor Monitoring Unit				Not Included		
V	E189	4499	Mod Bus				Not Included		
V	E189	4500	Conduit & Wiring (3#18 - 3/4"C)				Not Included		
V	E189	4501	Two Year Warranty				Not Included		
V	E189	4502	10% Spare Parts (Spec 16215 p. 4)				Not Included		
V	E189	4503	Extra Materials (Spec 16215 p.5)				Not Included		
V	E189	4504	Software & Programming				Not Included		

Terminal/Concourse Building — Building Area: 639,470 GSF

		Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
V	E189	4505	Testing & Inspection				Not Included		
V	E189	4506	*Training - Including 1 yr On-site Assistance & 2 yr Telephone Support*				Not Included		
V	E189	4507	Interface to BMS				with Building Management System		
V	E189	4508							
V	E189	4509	**Subtotal: Power Monitoring System**					$0	
		4510							
		4511	**Retail Power Submetering System**						
		4512	Head End System	1	LS	$75,000.00	$75,000		
		4513	BMS Interface				with Building Management System		
		4514	Retail 480/208 Volt Submetering Stations	50	EA	$2,500.00	$125,000		
		4515	Current Transformers				*Included*		
		4516	Conduit & Wiring				Included		
		4517							
		4518	**Subtotal: Retail Power Submetering System**					$200,000	
		4519							
		4520	**Miscellaneous**						
		4521	Seismic Requirements (Spec 16072)	1	LS	$150,000.00	$150,000		
		4522	Factory Testing	1	LS	$100,000.00	$100,000		
		4523	Core Drilling	1	LS	$50,000.00	$50,000		
		4524	Testing & Commissioning Systems	1	LS	$250,000.00	$250,000		
		4525	Heat Tracing (Installation of)	1	ALLOW	$100,000.00	$100,000		
S	E52		Add Heat Tracing at Gutter [599 LF @ 8W/LF]	500	LF	$15.00	$8,000		
		4526	Fire Stopping	1	LS	$100,000.00	$100,000		
		4527	Filing & Inspections	1	LS	$100,000.00	$100,000		
		4528	Shop Drawings & Submittals	1	LS	$100,000.00	$100,000		
		4529	Engineering/Coordination	1	LS	$150,000.00	$150,000		
		4530	Electrical Identification per PA Requirements	1	LS	$25,000.00	$25,000		
		4531	Short Circuit Coordination Study	1	ALLOW	$125,000.00	$125,000		
		4532	Expansion Joint Requirement [E00.02 Note #14]	1	ALLOW	$250,000.00	$250,000		
		4533	Spare Parts				*Included with Above Respective Systems*		
		4534	Cleaning				Included with Above Respective Systems		
		4535	Sleeves for Electrical Install				Included with Above Respective Systems		
		4536	Clock System				Not Included		
		4537	Miscellanous Symbols Dwg.E00.02				Not Shown		
		4538	Asbestos Abatement				Not Included		
		4539	Excavation & Backfill				Not Included		
		4540	Rigging/Hoisting				Included with Equipment		
		4541	Relocations & Demoliton				Not Included		
		4542	Maintenance				Not Included		
		4543							
		4544	**Subtotal: Miscellaneous**					$1,508,000	
		4545							
		4546	**ELECTRICAL**						$48,954,000

Terminal/Concourse Building Building Area: 639,470 GSF

Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
4547							
4548	**DEMOLITION & ABATEMENT**						
4549							
4550	**Asbestos Abetment(Removal of Roofing Included)**	1	LS	$2,500,000.00	$2,500,000		
4551	Asbestos Revoval for Items not Shown	1	Allow	$500,000.00	$500,000		
4552	**Flight Wing 1**						
4553	**Flight Wing 1 Basement**						
4554	Floor tile						
4555	Ceiling tile						
4556	Pipe insulation						
4557	Flight Wing 1 Basement						
4558							
4559	**Flight Wing 1 Apron Level**						
4560	Pipe insulation						
4561							
4562	**Flight Wing 1 Passenger Level**						
4563	Floor tile						
4564	Pipe insulation						
4565							
4566	**Flight Wing 1/Connetro Roof**						
4567	Roofing on FW 1						
4568	Roofing on FW 1 Connector						
4569							
4570	**Flight Wing 2**						
4571	**Flight Wing 2 Apron Level**						
4572	Ceiling Tile						
4573	Pipe insulation						
4574	Floor tile						
4575	**Flight Wing 2 Passenger Level**						
4576	Ceiling Tile						
4577	Pipe insulation						
4578	**Flight Wing 2 Upper Level**						
4579	Ceiling Tile						
4580	Floor tile						
4581	**Flight Wing 2 Roof**						
4582	Roofing						
4583							
4584	**Baggage Handling Building**						
4585	Roofing						
4586							
4587	***Building 296 (All Levels)***						
4588	Pipe insulation						
4589	Floor tile						

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Terminal/Concourse Building Building Area: 639,470 GSF

Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
4590	Roof						
4591	**Subtotal: Abatement**					$3,000,000	
4592							
4593	**Demolition**	1	LS	$3,000,000.00	$3,000,000		
4594	***Flight Wing 1***						
4595	**Electric**						
4596	Fire Alarm disconnect and verifications						
4597	Retain the service of Building fire Alarm for permanent disconnect of the system						
4598	Verification of power feed cable routes						
4599	Disconnect electric equipment and fixtures						
4600	Heat tracing						
4601	*Remove lamps store them and return them to the facility engineer.*						
4602	Remove light fixture ballasts stored in 55 Galloon steel drums						
4603	Full time electrician for the duration of demo						
4604	**Plumbing**						
4605	Disconnect domestic water service						
4606	Disconnect fire protection service						
4607	**Flight Wing 1 Basement**						
4608	*Demo non-structural elements*						
4609	Provide temporary light						
4610	Disposal of demolished material						
4611	**Flight Wing 1 Apron and upper level, and Tunnel**						
4612	Remove structural and non-structural elements except for Apron slab						
4613	Disposal of demolished material						
4614	Remove transformers						
4615	**CMU Work**						
4616	Provide temporary infill wall						
4617	**Carpentry**						
4618	Provide temporary enclosures at Apron level slab opening						
4619	Provide temporary wall enclosures						
4620	**Plastering/Painting and Patching**						
4621	Paint all temporary enclosures						
4622	*Paint and patch at T5 cut off*						
4623							
4624	**Flight Wing 2**						
4625							
4626	**Electric**						
4627	Fire Alarm disconnect and verifications						
4628	Retain the service of Building fire Alarm for permanent disconnect of the system						
4629	Verification of power feed cable routes						
4630	Disconnect electric equipment and fixtures						
4631	Remove lamps store them and return them to the facility engineer.						

Terminal/Concourse Building Building Area: 639,470 GSF

Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
4632	Remove light fixture ballasts stored in 55 Galloon steel drums						
4633	Full time electrician for the duration of demo						
4634							
4635	**Plumbing**						
4636	Disconnect domestic water service						
4637	Disconnect fire protection service						
4638	**Demolition Flight Wing 2**						
4639	Remove structural and non-structural elements except for Apron slab						
4640	Disposal of demolished material						
4641	Remove transformers						
4642							
4643	**Baggage Handling Building**						
4644	**Electric**						
4645	Fire Alarm disconnect and verifications						
4646	Retain the service of Building fire Alarm for permanent disconnect of the system						
4647	Verification of power feed cable routes						
4648	Disconnect electric equipment and fixtures						
4649	Heat tracing						
4650	Remove lamps store them and return them to the facility engineer.						
4651	Remove light fixture ballasts stored in 55 Galloon steel drums						
4652	Full time electrician for the duration of demo						
4653	**Plumbing**						
4654	Disconnect domestic water service						
4655	Disconnect fire protection service						
4656	**Demolition**						
4657	Remove structural and non-structural elements except for Apron slab						
4658	Disposal of demolished material						
4659	Remove transformers						
4660	**Building 296 (All Levels)**						
4661	**Electric**						
4662	Fire Alarm disconnect and verifications						
4663	Retain the service of Building fire Alarm for permanent disconnect of the system						
4664	Verification of power feed cable routes						
4665	Disconnect electric equipment and fixtures						
4666	Remove lamps store them and return them to the facility engineer.						
4667	Remove light fixture ballasts stored in 55 Galloon steel drums						
4668	Full time electrician for the duration of demo						
4669	**Plumbing**						
4670	Disconnect domestic water service						
4671	Disconnect fire protection service						
4672	**Demolition**						
4673	Remove structural and non-structural elements except for Apron slab						

Terminal/Concourse Building Building Area: 639,470 GSF

		Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
		4674	Disposal of demolished material						
		4675	Demolish all light towers including the footings						
		4676	Demolish blast fence						
		4677	Remove transformers						
		4678	**Building 1164 and CMU building**						
		4679	**Electric**						
		4680	Fire Alarm disconnect and verifications						
		4681	Retain the service of Building fire Alarm for permanent disconnect of the system						
		4682	Verification of power feed cable routes						
		4683	Disconnect electric equipment and fixtures						
		4684	Remove lamps store them and return them to the facility engineer.						
		4685	Remove light fixture ballasts stored in 55 Galloon steel drums						
		4686	Full time electrician for the duration of demo						
		4687	**Plumbing**						
		4688	Disconnect domestic water service						
		4689	Disconnect fire protection service						
		4690	**Demolition**						
		4691	Remove structural and non-structural elements except for Apron slab						
		4692	Disposal of demolished material						
		4693	Remove transformers						
		4694							
		4695	**Fuel Hydrant System**						
		4696							
		4697	Drain and Flush the system						
		4698	Cat and cap including excavation and backfill						
		4699	Remove and salvage equipment						
		4700	Slurry fill the hydrant fuel piping						
		4701	Electric power and control disconnect						
		4702							
		4703	***Subtotal: Demolition***					3,000,000.00	
		4704							
		4705							
		4706	**DEMOLITION & ABATEMENT**						$6,000,000
		4707							
		4708	**SITE WORK**						
		4709							
S	S3		**Building Sitework**						
S	S3								
S	S3		Departures Sidewalk 6"	475	CY	600.00	$285,000		
S	S3		Concrete curb 6"	870	LF	25.00	$21,800		
S	S3		Arrivals Sidewalk 6"	488	CY	600.00	$292,800		
S	S3		Concrete curb 6"	740	LF	25.00	$18,500		
V	EF179		Asphalt Island	46,770	SF	4.00	$187,100		

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Terminal/Concourse Building Building Area: 639,470 GSF

		Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
V	EF179		Asphalt Curb	5,325	LF	20.00	$106,500		
S	S3		**Subtotal: Building Sitework**					$911,700	
		4710	See "Airside" and "Landside"						
		4711							
		4712	**SITE WORK**						$911,700
		4713							
		4714	**SITE UTILITIES**						
		4715							
		4716	See "Airside" and "Landside"						
		4717							
		4718	**SITE UTILITIES**						$0
		4719							
		4720	**FUELING SYSTEMS**						
		4721							
		4722	See "Airside" and "Landside"						
		4723							
		4724	**FUELING SYSTEMS**						$0
		4725							
		4726	**TOTAL DIRECT COST**				$201,955,160	$201,955,160	$201,955,160

Fixed Bridges / Links Building Area: 18,635 GSF

	Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
	1	**EXCAVATIONS AND FOUNDATIONS**						
	2							
	3	**Earthwork**						
	4	Mobilize	1	LS	25,000.00	$25,000		
	5	Excavation						
	6	Pile cap excavation	3,912	CY	40.00	$156,000		
	7	Grade beam excavation	1,661	CY	40.00	$66,000		
	8	Carting				INCLUDED		
	9	Underslab utilities	24	CY	40.00	$1,000		
	10	General backfill	3,436	CY	20.00	$69,000		
	11	Dewatering	1	LS	25,000.00	$25,000		
	12	Grading	19,500	SF	0.75	$15,000		
	13	Line & grade surveys	1	LS	30,000.00	$30,000		
S	EF1	14 Contaminated Soil Disposal Premiums	2,771	Tons	26.50	$73,000		
	15							
	16	**Subtotal: Earthwork**					460,000	
	17							
	18	**Piles**						
	19	Production Monotube piles - 8"x14"	9,200	LF	44.00	$405,000		
	20	Concrete for piles	275	CY	400.00	$110,000		
	21	Reinforcing steel for piles	12	TON	3,000.00	$36,000		
	22	Removal of underground obstructions				INCLUDED		
	23	Rem				NOT INCLUDED		
	24	Fusion bonded epoxy coating, upper 15'-0"				INCLUDED		
	25	Load Test				INCLUDED W/TERMINAL		
	26	Pile Dynamic Analysis				INCLUDED W/TERMINAL		
	27							
	28	**Subtotal: Piles**					551,000	
	29							
	30	**Foundations**						
	31	Concrete for pile caps	1,551	CY	400.00	$620,000		
	32	Reinforcing steel for pile caps	54	TON	3,000.00	$162,000		
	33	Concrete of pedestal	110	CY	600.00	$66,000		
	34	Reinforcing steel for pedestal	8	TON	3,000.00	$24,000		
	35	Concrete slab & walls for sump pits				NOT REQUIRED		
	36	Concrete slab & walls for elevator/escalator pits				NOT REQUIRED		
	37	Reinforcing steel for pits				NOT REQUIRED		
	38	Concrete for grade beams	400	CY	550.00	$220,000		
	39	Reinforcing steel for grade beams	40	TON	3,000.00	$120,000		
	40	Concrete utility encasement	8	CY	600.00	$5,000		

Fixed Bridges / Links Building Area: 18,635 GSF

		Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
		41	Crane pad				NOT INCLUDED		
		42	Winter concreting				NOT INCLUDED		
		43	Foundation drainage system				NOT INCLUDED		
		44							
		45	**Subtotal: Foundations**					1,217,000	
		46							
		47	**Slab-on-grade**						
		48	Concrete for 10" S.O.G.	630	CY	600.00	$378,000		
		49	Reinforcing steel for 10" S.O.G.	61	TON	3,000.00	$183,000		
		50	Concrete for 12" S.O.G.				NOT REQUIRED		
		51	Reinforcing steel for 12" S.O.G.				NOT REQUIRED		
		52	Moisture barrier	19,500	SF	1.75	$34,000		
S	EF2		Concrete curb and island	317	CY	600.00	$190,000		
S	EF2		Reinforcing steel for curb and island	21	TON	3,000.00	$63,000		
		53							
		54	**Subtotal: Slab-on-grade**					848,000	
		55							
		56	**EXCAVATIONS AND FOUNDATIONS**						**$3,076,000**
		57							
		58	**STRUCTURAL FRAME**						
		59							
		78	**Concrete Fill on Deck**						
		79							
		80	Concrete fill on metal deck - Assume 5 1/2"	154	CY	450.00	$69,000		
		81	Steel Reinforcemnet				Not Included		
		82							
		83	**Subtotal: Concrete Fill on Deck**					$69,000	
		84							
		78	**Metal Deck & Studs**						
		79							
		66	Metal floor deck - fixed boarding bridges	9,100	SF	3.50	$32,000		
		67	Metal roof deck - fixed boarding bridges	11,160	SF	3.50	$39,000		
		82							
		83	**Subtotal: Metal Deck & Studs**					$71,000	
		84							
		60	**Steel Superstructure**						
		61							
		62	*Arrivals, Boarding & Roof Levels*						
V	A87	63	Structural steel framing - girders, beams and columns	253	TNS	4,000.00	$1,012,000		
V	A87	64	Structural steel framing connections	25	TNS	4,000.00	$100,000		

Fixed Bridges / Links Building Area: 18,635 GSF

		Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
		65	Galvanized Steel	22	TNS	1,200.00	$26,000		
		68							
		69	**Subtotal: Steel Superstructure**					$1,138,000	
		70							
		71	**Spray On Fireproofing**						
		72							
		73	Spray Fireproofing on structural steel	21,684	SF	2.40	$52,000		
		74	Spray Fireproofing on metal roof deck				Not required		
		75							
		76	**Subtotal: Spray On Fireproofing**					$52,000	
		77							
		85	**STRUCTURAL FRAME**						**$1,330,000**
		86							
		87	**ROOFING AND WATERPROOFING**						
		88							
		89	**Rough Carpentry**						
		90							
		91	Allowance for rough carpentry	26,110	SF	1.50	$39,000		
		92							
		93	**Subtotal: Rough Carpentry**					$39,000	
		94							
		95	**Roof**						
		96							
V	A87	97	EPDM roofing and insulation - fixed boarding bridges	26,614	SF	13.00	$346,000		
		98	Scuppers	27	EA	300.00	$8,000		
		99	**Subtotal: Roof**					$354,000	
		100							
		101	**ROOFING AND WATERPROOFING**						**$393,000**
		102							
		103	**EXTERIOR WALL**						
		104							
		105	**Walls**						
		106							
		107	*Boarding level - fixed bridges*						
S/V	I3/A101/A	108	M-2 Zinc Interlocking Flat Panels	25,719	SF	50.00	$1,286,000		
		109	Exterior metal pan soffit with 1/2" metal furring	11,160	SF	24.00	$268,000		
S	A13	110	Exterior GWB sheathing; 5/8" thick; incl. stud framing and ice/water shield				Included		
		111	Rigid insulation board; 2" thick				Included		
		112	Metal stud framing	17,146	SF	8.00	$137,000		
		113	Polystyrene soffit insulation	11,160	SF	4.00	$45,000		
		114							

Fixed Bridges / Links Building Area: 18,635 GSF

Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
115	**Subtotal: Walls**					$1,736,000	
116							
117	**Windows**						
118							
119	*Boarding level - fixed bridges*						
120							
121	**Subtotal: Windows**					$0	
122							
123	**Exterior Doors and Vestibules**						
124							
125	Pair, hollow metal doors, fixed bridges & stairs	20	EA	3,200.00	$64,000		
126	Single oversize hollow metal doors, PLB	13	EA	1,500.00	$20,000		
127							
128	**Subtotal: Exterior Doors and Vestibules**					$84,000	
129							
130	**Exterior Stairs**						
131							
132	Structural Steel Framing	134	TNS	4,000.00	$536,000		
133	Structural Steel Connections (10%)	13	TNS	4,000.00	$52,000		
134	Galvanized Steel	147	TNS	1,200.00	$176,000		
135	3/16" Galv. Diamond Plate Stairs w/ structural supports	1,100	LFR	460.00	$506,000		
136	3/16" Galv. Diamond Plate Landings w/ L2x2x1/4 supports	4,000	SF	55.00	$220,000		
137	Galv. Steel Railing w/ Mesh	4,000	LF	90.00	$360,000		
138	Metal Roof Deck	14,950	SF	3.50	$52,000		
139							
140	**Subtotal: Exterior Stairs**					$1,902,000	
141							
142	**EXTERIOR WALL**						**$3,722,000**
143							
144	**INTERIOR PARTITIONS & FINISHES**						
145							
146	**Partitions**						
147							
148	GWB wall sheeting	18,148	SF	4.00	$73,000		
149	Final cleaning	11,160	SF	0.50	$6,000		
150	OSHA protection	11,160	SF	0.50	$6,000		
151	Protection of finished work	11,160	SF	0.50	$6,000		
152							
153	**Subtotal: Partitions**					$91,000	
154							
155	**Doors, Frames & Hardware**						

Fixed Bridges / Links Building Area: 18,635 GSF

	Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
156								
157		Single HM door and frame	13	EA	1,500.00	$20,000		
158								
159		**Subtotal: Doors, Frames & Hardware**					$20,000	
160								
161		**Floor Finishes**						
162								
163		Carpet	1,011	SY	35.00	$35,000		
164		Vinyl base	1,892	LF	1.50	$3,000		
165								
166		**Subtotal: Floor Finishes**					$38,000	
167								
168		**Wall Finishes**						
169								
170		Paint	18,148	SF	1.20	$22,000		
171								
172		**Subtotal: Wall Finishes**					$22,000	
173								
174		**Ceiling Finishes**						
175								
176	V A87	GWB suspended ceiling and paint	9,604	SF	10.00	$96,000		
177								
178		**Subtotal: Ceiling Finishes**					$96,000	
179								
180		**Miscellaneous Metals**						
181								
182		Steel pipe handrail	1,488	LF	100.00	$149,000		
183								
184		**Subtotal: Miscellaneous Metals**					$149,000	
185								
186		**INTERIOR PARTITIONS & FINISHES**						$416,000
187								
188		**VERTICAL TRANSPORTATION**						
189								
190		**Elevators**						
191								
192		N/A						
193								
194		**Subtotal: Elevators**					$0	
195								
196		**VERTICAL TRANSPORTATION**						$0

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Fixed Bridges / Links

Building Area: 18,635 GSF

Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
197							
198	**SPECIAL EQUIPMENT**						
199							
200	**Specialities**						
201							
202	Signage - static	26	EA	250.00	$7,000		
203							
204	**Subtotal: Specialities**					$7,000	
205							
206							
207	**SPECIALITIES**						$7,000
208							
209	**EQUIPMENT & FURNISHINGS**						
210							
211	**Furnishings**						
212							
213	Excluded						
214							
215	**Subtotal: Furnishings**					$0	
216							
217	**Artwork**						
218							
219	Excluded						
220							
221	**Subtotal: Artwork**					$0	
222							
223	**EQUIPMENT & FURNISHINGS**						$0
224							
225	**BAGGAGE HANDLING SYSTEM**						
226							
227	**BHS**						
228							
229	N/A						
230							
231	**Subtotal: BHS**					$0	
232							
233	**BAGGAGE HANDLING SYSTEM**						$0
234							
235	**SPECIAL CONSTRUCTION**						
236							

Fixed Bridges / Links Building Area: 18,635 GSF

Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
237	**Passenger Boarding bridges**						
238	N/A						
239							
240	**Subtotal: Passenger boarding bridges**					$0	
241							
242	**SPECIAL CONSTRUCTION**						$0
243							
244	**PLUMBING**						
245							
246	**Fixtures and Specialties (Based on Plumbing Dwgs)**				Not Included		
247							
248							
249	**Subtotal: Fixtures & Specialties**					$0	
250							
251	**Domestic Water Distribution**						
252	Domestic Water System Equipment				Not Included		
253	Domestic Cold Water System				Not Included		
254	Domestic Hot Water System				Not Included		
255	Domestic Water Piping (Hot & Cold)				Not Included		
256							
257							
258	**Subtotal: Domestic Water Distribution**					$0	
259							
260	**Sanitary Drainage**						
261	Sanitary Drainage Equipment				Not Included		
262	Sanitary Vent & Drainage Piping				Not Included		
263							
264	**Subtotal: Sanitary Drainage**					$0	
265							
266	**Storm Drainage**						
267	Storm Drainage Equipment						
268	Roof Drains (6"- 8")	35	EA	$750.00	$26,000		
269	Area Drains (4")				Not Included		
270	Overflow Drains				Not Included		
271	Syphonic Roof Drain System				Not Included		
272	Storm Drainage Piping						
273	Below ground - 4" - 6"	350	LF	$60.00	$21,000		
274	Below ground - 8" -12"				Not Included		
275	Aboveground - 4"	1,750	LF	$70.00	$123,000		
276	Aboveground - 6"				Not Included		

Fixed Bridges / Links Building Area: 18,635 GSF

	Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
277		Aboveground - 8"				Not Included		
278		Insulation for Horizontal Piping				Not Included		
279		Expansion Joints				Not Included		
280		Cleanouts	1	LS	$10,000.00	$10,000		
281		Overflow Drainage Piping				Not Included		
282		Stainless Steel Piping				Not Included		
283								
284		**Subtotal: Storm Drainage**					$180,000	
285								
286		**Natural Gas Piping**				Not Included		
287								
288		**Subtotal: Natural Gas Piping**					$0	
289								
290		**Equipment Hook-ups**				Not Included		
291								
292		**Subtotal: Equipment Hook-ups**					$0	
293								
294		**Site Utilities (up to 5' outside of building)**						
295		Storm Lines To Building				w/Site Utilities		
296								
297		**Subtotal: Site Utilities**					$0	
298								
299		**Food Service Fit-Out**				Not Included		
300								
301		**Subtotal: Food Service Fit-Out**					$0	
302								
303								
304		**Miscellaneous**				Included w/ Building		
V	A87	Fixed Bridges Plumbing	504	GSF	$5.00	$3,000		
306								
307		**Subtotal: Miscellaneous**					$3,000	
308								
309		**PLUMBING**						**$183,000**
310								
311		**FIRE PROTECTION**						
312								
313		**Equipment & Accessories**				Not Included		
314								
315		**Subtotal: Equipment & Accessories**					$0	
316								
317		**Fire Standpipe System**				Not Included		
318								

Fixed Bridges / Links Building Area: 18,635 GSF

		Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
		319	**Subtotal: Fire Standpipe System**					$0	
		320							
		321							
		322	**Wet System Sprinkler Piping & Heads**						
V	F174	323	Sprinkler Heads	120	EA	$350.00	$42,000		
V	F174		Sprinkler Main Piping	1,300	LF	$50.00	$65,000		
		324	**Subtotal: Wet System Sprinkler Piping & Heads**					$107,000	
		325							
		326	**Dry Systems**						
		327	Departure Level						
		328	DSP Zone 1 (In SP Zone 7)						
S/V	F68/F174	329	Dry Valve Assembly w/ Air Compressor (DVA) (4")				Not Required		
S/V	F68/F174	330	Sprinkler Heads (10 per bridge)				Not Required		
S/V	F68/F174	331	Sprinkler Main Piping (4")				Not Required		
		332	Drain Piping (2")	100	LF	$35.00	$4,000		
		333	Sprinkler Branch Piping				Included		
		334	Galvanized Pipe				Not Included		
V	F174	335	Misc. Valves & Specialties				Not Required		
		336							
		337	DSP Zone 2 (In SP Zone 6)						
S/V	F68/F174	338	Dry Valve Assembly w/ Air Compressor (DVA) (4")				Not Required		
S/V	F68/F174	339	Sprinkler Heads (10 per bridge)				Not Required		
S/V	F68/F174	340	Sprinkler Main Piping (4")				Not Required		
		341	Drain Piping (2")	100	LF	$35.00	$4,000		
		342	Sprinkler Branch Piping				Included		
		343	Galvanized Pipe				Not Included		
V	F174	344	Misc. Valves & Specialties				Not Required		
		345							
		346	DSP Zone 3 (In SP Zone 1)						
S/V	F68/F174	347	Dry Valve Assembly w/ Air Compressor (DVA) (4")				Not Required		
S/V	F68/F174	348	Sprinkler Heads				Not Required		
S/V	F68/F174	349	Sprinkler Main Piping (4")				Not Required		
		350	Drain Piping (2")	100	LF	$35.00	$4,000		
		351	Sprinkler Branch Piping				Included		
		352	Galvanized Pipe				Not Included		
V	F174	353	Misc. Valves & Specialties				Not Required		
		354							
		355							
		356	**Subtotal: Dry Systems**					$12,000	
		357							
		358	**PreAction Systems**				Not Included		

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Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
359							
360	**Subtotal: PreAction Systems**					$0	
361							
362	**Deluge Systems**				Not Included		
363							
364	**Subtotal: Deluge Systems**					$0	
365							
366	**Specialty Systems**				Not Included		
367							
368	**Subtotal: Specialty Systems**					$0	
369							
370	**Miscellaneous**						
371	Independent (3rd party) Commissioning Agent				By Owner		
372	Work with Owner Furnished Commissioning Agent				Included		
373	Hydraulic Calculations, Layout & Shop Drawings				Included		
374	As-Built Drawings, O&M Manuals & Warranty				Included		
375	System Identification				Included		
376	Controlled Inspections				Included		
377	Controls & Control Wiring				Included		
378	Pressure Testing & Flushing of Piping				Included		
379	Equipment Startup & Testing				Included		
380	Core Drilling				Included		
381	Fire Stopping				Included		
382	Seismic Restraints & Vibration Isolation				Included		
383	Rigging, Hoisting & Aerial Lifts				Included		
384	Scaffolding				Included		
385	Job Trailers (Shanty) - Tool / Equip Storage				Included		
386	Heat Tracing (Furnish) w/Insulation & Aluminum Jacketing				Included		
387	Drip Pans				Included		
388	Attic Stock				Included		
389	Temporary Standpipe system				Use Permanent System		
390	Temporary Fire Protection				Use Permanent System		
391	Standby Labor & Fire Watch				Not Included		
392	Detectors (Heat & Smoke)				w/Electrical		
393	Fire Alarm & Control Wiring				w/Electrical		
394	Trenching/Excavation/Backfill				w/Foundations		
395	Concrete Equipment Pads				w/Concrete		
396	Painting				w/Painting		
397	Roof Work				w/Roofing		
398	Concession Areas Fit-out				Not Included		
399	Overtime				Not Included		
400							

Fixed Bridges / Links Building Area: 18,635 GSF

	Rank		Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
		401	**Subtotal: Miscellaneous**					$0	
		402							
		403	**FIRE PROTECTION**						$119,000
		404							
		405	**H.V.A.C.**						
		406							
		407	**H.V.A.C.**						
		408	**Heating & Cooling Plant**						
		409							
		410	**Heating Plant**				Not Included		
		411							
		412	**Subtotal: Heating Plant**					$0	
		413							
		414							
		415	**Heating Equipment**						
S	H67	416	HW Cabinet Unit Heater w/ Integral Controls (Stair Towers)				Deleted		
		417	Finned Tube Radiation w/ Standard Enclosure - Al/Cu (Allow	500	LF	$100.00	$50,000		
S	H24	418	Thermostatic Radiator Control Valve (1 per 25 LF)				Deleted		
S	H24		Add Solenoid Valves Tied into BMS				w/Building		
		419							
		420	**Subtotal: Heating Equipment**					$50,000	
		421							
		422							
		423	**Cooling Plant**				Not Included		
		424							
		425	**Subtotal: Cooling Plant**					$0	
		426							
		427							
		428	**Piping Distribution**						
		429							
		430	Hot Water Piping (Mains & Risers)				Not Included		
		431	Glycol Hot Water Piping (Mains & Risers)				Not Included		
		432	Glycol Hot Water Piping (Secondary Mains & Branches)				Not Included		
		433	1-1/2" - 4"	600	LF	$75.00	$45,000		
		434	Piping Insulation	600	LF	$15.00	$9,000		
		435	Chilled Water Piping (Mains & Risers)				Not Included		
		436	Chilled Water Piping (Secondary Mains & Branches)				Not Included		
		437	Gylcol Condenser Water Piping				Not Included		
		438	Condensate Drain Line				Not Included		
		439							
		440	**Subtotal: Piping Distribution**					$54,000	

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Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
441							
442							
443	Air Distribution						
444							
445							
446	Fan Coil Units				Not Included		
447							
448	**Heating & Ventilating Units**						
449							
450	**Subtotal: Air Distribution**					$0	
451							
452							
453	**Supplemental A/C Systems**				Not Included		
454							
455	**Subtotal: Supplemental AC Systems**					$0	
456							
457							
458	**Ventilation**						
459							
460	Aircraft Loading Walkway Fans [ALW 1 thru 24] (1500 cfm e	36,000	CFM	$1.50	$54,000		
461	Motor Starters	24	EA	$750.00	$18,000		
462	Galvanized Ductwork	7,200	LBS	$8.50	$61,000		
463	Acoustic Lining & Thermal Insulation				Not Included		
464	Motorized Dampers				Not Included		
465	Fire Smoke Dampers				Not Included		
466	Back Draft Dampers				Not Included		
467	Fire Dampers				Not Included		
468	Volume Dampers				Not Included		
469	Registers, Grilles & Diffusers	2	EA	$200.00	$400		
470	Exhaust Louver				Not Included		
471							
472	**Subtotal: Ventilation**					$133,400	
473							
474							
475	**Concession Exhaust**				Not Included		
476							
477	**Subtotal: Concession Exhaust**					$0	
478							
479							
480	**Equipment Connections**						
481							

Fixed Bridges / Links Building Area: 18,635 GSF

		Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
S	H24	482	Baseboard Heater Connection				Deleted		
		483							
		484	**Subtotal: Equipment Connections**					$0	
		485							
		486							
		487	**Emergency Generator System**				Not Included		
		488							
		489	***Subtotal: Emergency Generator System***					$0	
		490							
		491							
		492	**Fuel Oil System for Generators**						
		493					w/ Electrical		
		494	**Subtotal: Fuel Oil System for Generators**					$0	
		495							
		496							
		497	**Temporary Heating & Cooling Programs**						
		498					w/ General Conditions		
		499	**Subtotal: Temporary Heating & Cooling Programs**					$0	
		500							
		501							
		502	**Automatic Temperature Controls**				w/ Building		
		503	DDC Temperature Control System						
		504							
		505	**Subtotal: Automatic Temperature Controls**					$0	
		506							
		507	**Testing & Balancing**				w/ Building		
		508							
		509	**Subtotal: Testing & Balancing**					$0	
		510							
		511	**Seismic & Vibration Isolation**				w/ Building		
		512							
		513	**Subtotal: Seismic & Vibration Isolation**					$0	
		514							
		515	**Miscellaneous**				w/ Building		
V	A87		Fixed Bridges HVAC	504	GSF	$30.00	$15,000		
		517	**Subtotal: Miscellaneous**					$15,000	
		518							
		519	**H.V.A.C.**						**$252,400**
		520							
		521	**ELECTRICAL**						
		522							

Fixed Bridges / Links

Building Area: 18,635 GSF

		Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
		523	**Service & Power Distribution**						
		524							
		525	**Subtotal: Service & Power Distribution**				W/ Building	$0	
		526							
		527	**Lighting**						
V	A87		Fixed Bridges Lighting for Extend Fixed Links	504	GSF	$12.00	$6,000		
S	E69		Lighting & Branch Wiring						
S	E69		Zone 1						
S	E69		FAF	150	EA	$304.00	$46,000		
S	E69								
S	E69		Miscellaneous						
S	E69		Conduit & Wire	2,250	LF	$7.50	$17,000		
S	E69		Exit Lights	1	LS	$2,500.00	$3,000		
S	E69		Site Lighting				Not Included		
		529							
		530	**Subtotal: Lighting**					$72,000	
		531							
		532	**Lighting Controls**						
		533							
		534	**Subtotal: Lighting Controls**				Not Shown	$0	
		535							
		536	**Convenience Power**						
V	A87	537	Convenience Power	504	GSF	$8.00	$4,000		
		538	**Subtotal: Convenience Power**					$4,000	
		539							
		540	**Equipment Connections**						
		541	Equipment connections	18,635	GSF	$2.25	$42,000		
		542	**Subtotal: Equipment Connections**					$42,000	
		543							
		544	**Telecommunications**						
		545	PA System	18,635	GSF	$2.25	$42,000		
		546							
		547	**Subtotal: Telecommunications**					$42,000	
		548							
		549	**Fire Alarm System**						
V	A87	550	Fire Alarm System	19,139	GSF	$4.75	$91,000		
		551							
		552	**Subtotal: Fire Alarm System**					$91,000	
		553							
		554	**Security System**						
		555							

Fixed Bridges / Links Building Area: 18,635 GSF

Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
556	**Subtotal: Security System**				Not Shown	$0	
557							
558	**Grounding System**						
559					Not Shown		
560	**Subtotal: Grounding Systems**					$0	
561							
562	**Lightening Protection System**						
563					Not Shown		
564	**Subtotal: Lightening Protection Systems**					$0	
565							
566	**Temporary Power & Light**						
567					Not Shown		
568	**Subtotal: Temporary Power & Light**					$0	
569							
570	**Metering System**						
571					Not Shown		
572	**Subtotal: Metering System**					$0	
573							
574	**Miscellaneous**						
575					Not Shown		
576	**Subtotal: Miscellanous**					$0	
577							
578							
579	**ELECTRICAL**						$251,000
580							
581	**DEMOLITION**						
582							
583	Excluded						
584							
585	**DEMOLITION**						$0
586							
587	**SITE WORK**						
588							
589	See "Airside" and "Landside"						
590							
591	**SITE WORK**						$0
592							
593	**SITE UTILITIES**						
594							
595	See "Airside" and "Landside"						
596							

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Fixed Bridges / Links Building Area: 18,635 GSF

Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
597	**SITE UTILITIES**						$0
598							
599	**FUELING SYSTEMS**						
600							
601	See "Airside" and "Landside"						
602							
603	**FUELING SYSTEMS**						$0
604							
605							
606	**TOTAL DIRECT COST**				$9,749,400	$9,749,400	$9,749,400

Airside Civil Building Area: N/A GSF

	Rank		Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
	1		**DEMOLITION**						
	2								
	3		**Site Preparation**						
	4								
	5		Mob/Set up crushing machine	1	EA	30,000.00	$30,000		
	6		Sawcut apron for demolition	25,000	LF	5.00	$125,000		
	7		Breakup apron pavement 12-14"	630,000	SF	1.25	$788,000		
	8		Breakup Bldg slab/fnd #164,296,FW2	55,000	SF	1.50	$83,000		
	9		Load/Stockpile rubble incl 25%	32,600	CY	15.00	$489,000		
	10		Crush rubble for backfill and restockpile	32,600	CY	15.00	$489,000		
	11		Remove existing asphalt and subbase	15,600	CY	35.00	$546,000		
	12								
	13		FW1 DEMO						
	14								
	15		Break apron slab drop to basement for ramp	20,000	SF	2.00	$40,000		
	16		Install/Activate site dewatering	40	WD	10,000.00	$400,000		
	17		Break slab/caps at bldg perimeter (low headroom 12')	1,000	CY	600.00	$600,000		
	18		Break remaining apron slab drop to basement berm w	40,000	SF	5.00	$200,000		
	19		Remove basement slab/found as rqd for new construc	30,000	SF	3.00	$90,000		
	20		Waterproof areas of slab removal	30,000	SF	5.00	$150,000		
	21		Backfill Flt Wing #1 basement	25,000	CY	15.00	$375,000		
	22		Steel sheeting left in place (wall/footing removals) 10	2,000	SF	50.00	$100,000		
S		C212	Blast Fence Removal	1,500	LF	100.00	$150,000		
S		C212	Concrete Pads	5,000	SF	25.00	$125,000		
	24		**Subtotal: Site Preparation**					$4,780,000	
	25								
	26		**DEMOLITION**						$4,780,000
	27								
	28		**SITE WORK**						
	29								
	30		**Pavements**						
	31								
	32		**Temporary Pavement**						
	33		Place temp asphalt at hydrant removals 16/8"	2,600	SF	20.00	$52,000		
	34		Place select fill/temp asphalt	3,200	SF	25.00	$80,000		
	35		**Permanent Pavement**						
		C180A/C1	36 Asphalt Area 5 & 7 -8"/8"/8"						
S/V		80B		966,870	SF	10.00	$9,669,000		
		C180A/C1	37 Asphalt taxiway paving; 2"/6"/6"						
S/V		80B		53,262	SF	5.00	$266,000		
		C180A/C1	38 Concrete Area 9/10/11/2/3/6 - 17"/4"/6"						
S/V		80B		64,900	SF	18.75	$1,217,000		

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Airside Civil Building Area: N/A GSF

		Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
	C180A/C1		PCC - Building Perimeter - 10"/6"						
S/V	80B						Not Included		
	C180A/C1		PCC- Aprons - 15"/4"/6"						
S/V	80B			202,420	SF	15.75	$3,188,000		
	C180A/C1		Joints						
S/V	80B			1	LS	200,000.00	$200,000		
S	C180A		Throat	27,828	SF	28.75	$800,000		
S	C180A		Throat Utillities	1	LS	200,000.00	$200,000		
		39	Excavate to achieve proposed elevations	25,000	CY	20.00	$500,000		
S	EF1		Contaminated Soil Disposal Premiums	32,063	Tons	26.50	$850,000		
		40	Paving at Hold positions; incl lighting (max. 20' cable runs to existing source)	3	EA	75,000.00	$225,000		
		41	Apron restoration for utilities	5,000	SF	22.00	$110,000		
		42							
		43	*Airside Striping*						
		44	Taxilane continuous 4"	20,000	LF	5.00	$100,000		
		45	Centerline Striping	2,200	LF	20.00	$44,000		
		46							
		47	Apron lighting system (bank of floods at each gate fro	26	EA	15,000.00	$390,000		
S	C212	48	Aircraft Gate Configuration	27	LOC	3,000.00	$81,000		
S	C212	49	Jet Bridge Safety Zone	27	LOC	1,500.00	$40,500		
S	C212		Stop Bars	25	EA	1,000.00	$25,000		
S	C212		Deicing Area	1	LS	25,000.00	$25,000		
		50	**Subtotal Sitework Pavements**					$18,062,500	
		51							
		52	**Site Work**						
		53							
		54	**Operations security fence**						
		55							
		56	*Snow Melter Pit*						
S	C72	57	Construct housing	1	EA	70,000.00	$70,000		
S	C72	58	Components	1	EA	50,000.00	$50,000		
		59	Temporary roads	10,000	SY	4.50	$45,000		
		60	Dust/FOD control	400	WD	2,500.00	$1,000,000		
		61	Blastfence with foundation	440	LF	1,100.00	$484,000		
S	C212	62	Apron encapsulation fence	5,490	LF	75.00	$412,000		
		63	Temporary SIDA escorts	1	LS	10,000.00	$10,000		
S	C212	64	Guardrail	490	LF	35.00	$17,000		
		65	**Subtotal: Site Work**					$2,088,000	
		66							
		67	**SITE WORK**						$20,150,500
		68							

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Airside Civil Building Area: N/A GSF

		Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
		69	**SITE UTILITIES**						
		70							
		71	**Utility Corridor**						
		72							
		73	Excavate major utility corridor approx 25'w	10,000	CY	50.00	$500,000		
		74	10" Fire protection line @ concourse	1,600	LF	100.00	$160,000		
S	C213	75	Pipe Size Increase to 10"	2,100	LF	50.00	$105,000		
		76	**Subtotal Utility Corridor**					$765,000	
		77							
		78	**Site Thermal Distribution System (TDS)**						
		79							
		80	Fabricate/install/weld/test	1,100	LF	2,700.00	$2,970,000		
		81	Minor structures	5	EA	30,000.00	$150,000		
		82	Major vaults (see Landside)						
		83							
		84	**Subtotal Thermal Distribution System**					$3,120,000	
		85							
		86	**EROSION CONTROL**						
		87							
		88	Catchbasin Protection	15	EA	500.00	$8,000		
		89	F/I silt fence	1,600	LF	7.00	$11,000		
		90							
		91	**Subtotal: EROSION CONTROL**					$19,000	
		92							
		93	**Stormwater Drainage**						
V	E164	94	Relocate Utilities Due to Added Generators	1	LS	150,000.00	150,000		
		95	Designated Drainage Removals	2,500	LF	100.00	$250,000		
		96	Structure Removals	15	EA	2,500.00	$38,000		
		97	F/I aircraft type 2 MH/Castings	39	EA	10,000.00	$390,000		
		98	F/I 6-8" DIP	950	LF	200.00	$190,000		
		99	F/I RCP 18-48"	3,350	LF	200.00	$670,000		
		100	Local sumping	1	LS	50,000.00	$50,000		
		101	Removal of snow melter pits	5	EA	5,000.00	$25,000		
		102	F/I 8" temp FP line	850	LF	200.00	$170,000		
		103	Remove designated water lines	1,200	LF	150.00	$180,000		
		104	F/I temp HDPE piping	1,325	LF	150.00	$199,000		
		105	54-42" rcp; incl. excavation and dewatering	1,000	LF	450.00	$450,000		
		106	36-12" rcp; (within utility corridor excavation)	250	LF	450.00	$113,000		
S	C213		New Structures	10	EA	20,000.00	$200,000		
S	C213		New Piping	600	LF	150.00	$90,000		
S	C73	107	Stormceptors (aircraft loading)						
S	C73		STC 16000	1	EA	84,000.00	$84,000		

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		Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
S	C73		STC 11000	4	EA	51,000.00	$204,000		
S	C73		STC 7200	2	EA	48,000.00	$96,000		
S	C73		STC 4800	1	EA	28,000.00	$28,000		
S	C73		STC 2400	0	EA	18,000.00	$0		
S	C73		STC 900	3	EA	9,000.00	$27,000		
S	C73		STC 450i	4	EA	9,000.00	$36,000		
S	C73		Sheeting	1	LS	350,000	$350,000		
S	C73		Excavation	1	LS	235,000.00	$235,000		
S	C73		Sumping	1	LS	170,000.00	$170,000		
S	C73		Set Structure	1	LS	235,000.00	$235,000		
S	C73	108	Backfill	1	LS	210,000.00	$210,000		
		109	**Subtotal Stormwater Drainage**					$4,840,000	
		110							
		111	**Sanitary Drainage**						
		112							
V	C211	113	8/10" RCP (within utility corridor excavation)	2,000	LF	125.00	$250,000		
		114	4' diam manholes; incl. castings	7	EA	10,000.00	$70,000		
S	C213	115	6" PVC Laterals	1,120	LF	100.00	$112,000		
V	V183B		Provide Manifold & Larger Manholes for Sanitary Syst	1	LS	100,000.00	$100,000		
		116	**Subtotal Sanitary Drainage**					$532,000	
		117							
		118	**Electrical/Communications**						
		119							
		120	Remove cable (ductbank remains)	9,300	LF	30.00	$279,000		
		121	Ductbank Removal Complete (assumed)	1,000	LF	100.00	$100,000		
		122	F/I Encased 5KV	2,680	LF	350.00	$938,000		
		123	F/I Electrical MH	13	EA	15,000.00	$195,000		
		124	Communications Ductbanks	1,700	LF	200.00	$340,000		
		125	F/I Comms MH	5	EA	10,000.00	$50,000		
		126							
		127	Concrete encased 5kv	3,980	LF	350.00	$1,393,000		
		128	6' manholes	10	EA	20,000.00	$200,000		
		129	Elect/comms relocations	8,000	LF	100.00	$800,000		
		130	New UGE dwg cl-7	2,500	LF	350.00	$875,000		
		131	New communications dwg cl-8	1,500	LF	300.00	$450,000		
S	C213		480V System Ductbank (Bldg)	1,660	EA	300.00	$498,000		
S	C213		Structures Precast	7	EA	25,000.00	$175,000		
S	C213		Structures CIP	2	EA	35,000.00	$70,000		
S	C213		480V System Ductbank (Deicing)	890	EA	300.00	$267,000		
S	C213		Structures Precast	3	EA	25,000.00	$75,000		
S	C213		Distribution Panel	1	EA	70,000.00	$70,000		
S	C213		480V System Ductbank (Switchhouse)	410	EA	300.00	$123,000		

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Airside Civil

Building Area: N/A GSF

		Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
S	C213		Handholes	9	EA	5,000.00	$45,000		
S	C213		4 Luminaires /Poles (Highmast 60' - 70')	9	EA	100,000.00	$900,000		
S	C213		**Communications**						
S	C213		Communications Ductbank	660	LF	200.00	$132,000		
S	C213		Structures	2	EA	10,000.00	$20,000		
		132							
		133	**Subtotal Elec/Comms**					$7,995,000	
		134							
		135	**SITE UTILITIES**						$17,271,000
		136							
		137	**FUELING SYSTEMS**						
		138							
		139	**Hydrants and Gate Distribution System**						
		140							
		141	Excavate/Expose existing piping	6,000	CY	35.00	$210,000		
		142	Break vault roof,walls and backfill	80	EA	2,500.00	$200,000		
		143	Abate pipe end for cuts 15' centers	1,200	EA	675.00	$810,000		
		144	Cold Cut piping	1,200	EA	675.00	$810,000		
		145	Load/dispose piping regulated waste	18,000	LF	30.00	$540,000		
		146	Abatement Monitoring	1	LS	150,000.00	$150,000		
		147	Slurry piping to remain	5,000	LF	40.00	$200,000		
V	C184	148	Install/Weld/Test new system	10,600	LF	1,217.00	$12,900,000		
		149	Localized fuel removal removals as rqd at low point d	1	LS	100,000.00	$100,000		
		150	Pump controls, emergency shut-off system, cathodic	1	LS	2,000,000.00	$2,000,000		
		151	Minor structures (fuel pits)	34	EA	incl	$0		
		152	Valve Vaults	5	EA	100,000.00	$500,000		
		153							
		154	**Subtotal: Hydrants and Gate Distribution System**					$18,420,000	
		155							
		156	**FUELING SYSTEMS**						$18,420,000
		157							
		158							
		159	**TOTAL DIRECT COST**				$60,621,500	$60,621,500	$60,621,500

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Equipment

Building Area: 38,700 GSF

	Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
1		**BAGGAGE HANDLING SYSTEM**						
2								
3		**BHS**						
4								
5		*Inbound baggage system*						
6		Belt conveyor; incl. support structure	2,524	LF	1,030.00	$2,600,000		
7		Premium for metering conveyor	0	EA	2,500.00	$0		
8		Power turn	25	EA	20,000.00	$500,000		
9		Pusher	0	EA	15,500.00	$0		
10		Diverter	0	EA	10,300.00	$0		
11		Vertical sort/merge	0	EA	45,200.00	$0		
12		Tip chute	0	EA	1,900.00	$0		
13		Automatic ticket reader	0	EA	9,700.00	$0		
14		Manual encode station	0	EA	9,700.00	$0		
15		Incline device	1,050	LF	5,000.00	$5,250,000		
16		Flat plate device	0	LF	3,500.00	$0		
17		Platform/catwalk incl. Supports, steps and rails	8,779	SF	50.00	$439,000		
18		Engineering and commissioning	1	LS	216,000.00	$216,000		
19		*Outbound baggage system*						
20		Belt conveyor; incl. support structure	9,137	LF	1,030.00	$9,411,000		
21		Premium for metering conveyor	105	EA	2,500.00	$263,000		
22		Power turn	109	EA	20,000.00	$2,180,000		
23		Pusher	20	EA	15,500.00	$310,000		
24		Diverter	18	EA	10,300.00	$185,000		
25		Vertical sort/merge	4	EA	45,200.00	$181,000		
26		Tip chute	10	EA	1,900.00	$19,000		
27		Automatic ticket reader	2	EA	9,700.00	$19,000		
28		Manual encode station	2	EA	9,700.00	$19,000		
29		Incline device	0	LF	5,000.00	$0		
30		Flat plate device	1,765	LF	3,500.00	$6,178,000		
31		Platform/catwalk incl. Supports, steps and rails	20,846	SF	50.00	$1,042,000		
32		Engineering and commissioning	1	LS	670,000.00	$670,000		
33		*Micellaneous*						
34		Impact rail and post	869	LF	170.00	$148,000		
35		Fire/security door, incl. Curtain	43	EA	5,800.00	$249,000		
36	V H149	Add 2 Draft Curtains per Belt Conveyor	18	EA	$2,000.00	36,000		
37		**Subtotal: BHS**					$29,915,000	
38								
39		**BAGGAGE HANDLING SYSTEM**						**$29,915,000**
40								
41		**EQUIPMENT & FURNISHINGS**						

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Building Area: 38,700 GSF

Equipment

Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
42							
43	**Security Equipment**						
44							
45	Security equipment will be provided and installed by TSA in accordance with current regulations						
46	EDS & ETD Equipment				By TSA		
47	UPS or Em. Power for Screening Equipment				By TSA		
48	Hand baggage X-ray screening				By TSA		
49	Magnetometer				By TSA		
50							
51	**Subtotal: Security Equipment**					$0	
52							
53	**EQUIPMENT & FURNISHINGS**						$0
54							
55	**SPECIAL CONSTRUCTION**						
56							
57	**Passenger Boarding Bridges**						
58							
59	Apron drive boarding bridge; 2 section	13	EA	480,000.00	$6,240,000		
60	Apron drive boarding bridge; 3 section	13	EA	490,000.00	$6,370,000		
61	400Hz power converter, 90kVA	26	EA	40,000.00	$1,040,000		
62	PC air, 30 ton packaged unit	26	EA	60,000.00	$1,560,000		
63	Potable water service	26	EA	30,000.00	$780,000		
64							
65	**Subtotal: Passenger Boarding bridges**					$15,990,000	
66							
67	**SPECIAL CONSTRUCTION**						$15,990,000
68							
69	**TOTAL DIRECT COST**				$45,905,000	$45,905,000	$45,905,000
70							

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Roadways Building Area: N/A GSF

	Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
	1	**DEMOLITION**						
	2							
	3	**Site Preparation**						
	4							
	5	Remove existing concrete pavements for new roadways	146,000	SF	10.00	$1,460,000		
	6							
	7	**Subtotal: Site Preparation**					$1,460,000	
	8							
	9	**DEMOLITION**						$1,460,000
	10							
	11	**SITE WORK**						
	12							
	13	**Pavements (at-grade)**						
	14							
	15	Earth cut required for new roadway elevations	4,000	CY	50.00	$200,000		
S	EF1	Contaminated Soil Disposal Premiums	5,130	Tons	26.50	$136,000		
	16	Arrivals level Roadways; 4" with 4" base and 6" subbase; incl. non mountable curb)	117,000	SF	10.00	$1,170,000		
	17	Non-mountable curb	5,200	LF	22.00	$114,000		
	18	Asphalt paver shoulder and safety wall	10,400	SF	10.00	$104,000		
	19	Raised Median with curb	15,000	SF	10.00	$150,000		
	20	CIP concrete retaining wall; 3' - 7'high; incl. spread footing	2,000	LF	350.00	$700,000		
	21	Roadway Lighting (40 poles @ 150' spacing and 2" conduit)	3,000	LF	200.00	$600,000		
	22	Roadway Drainage (approx 34 structures - no pipe sizes given)	2,500	LF	100.00	$250,000		
	23							
	24	*Loading Dock*						
	25	Truck Loading Dock	29,000	SF	12.00	$348,000		
	26	Truckbay screenwall	240	LF	1,000.00	$240,000		
	27	OSHA protection	1	LS	100,000.00	100,000		
	28	Protection of finished work	1	LS	50,000.00	50,000		
	29							
	30	**Subtotal Pavements At Grade**					$4,162,000	
	31							
	32	**MSE Abutments/Retaining Walls**						
	33							
	34	Steel monotube piles; 180 ton	48	EA	4,200.00	$202,000		
	35	Rebar to piles	48,000	LB	1.50	$72,000		
	36	Pile load tests	1	EA	25,000.00	$25,000		
	37	Excavation/backfill	1,300	CY	100.00	$130,000		
	38	Abutment Concrete	710	CY	600.00	$426,000		
	39	Precast leveling pad	760	SF	100.00	$76,000		
	40	Precast panels	6,400	SF	70.00	$448,000		

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Roadways

Building Area: N/A GSF

		Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
		41	Select fill	700	CY	50.00	$35,000		
		42	Mass fill	4,500	CY	25.00	$113,000		
		43	Precast cap	760	LF	100.00	$76,000		
		44							
		45	**Subtotal MSE Abutments/Retaining Walls**					$1,603,000	
		46							
		47	**Departure Ramps**						
		48							
		49	Steel monotube piles; 180 ton	162	EA	4,200.00	$680,000		
		50	Rebar to piles	162,000	LB	1.50	$243,000		
		51	Pile load tests	1	EA	25,000.00	$25,000		
		52	Excavation/backfill	1,700	CY	100.00	$170,000		
		53	Footing concrete	470	CY	600.00	$282,000		
		54	Stem concrete	270	CY	1,000.00	$270,000		
		55	3'sq steel tube with precast jacket 16'h	8	EA	7,000.00	$56,000		
		56	Multirotational bearings	31	EA	5,000.00	$155,000		
		57	Structural steel framing - plate girders and cap beams	600	TNS	3,000.00	$1,800,000		
		58	Metal deck	27,000	SF	3.50	$95,000		
		59	Shearstuds (not shown)	10,000	EA	5.00	$50,000		
		60	Concrete fill on metal deck; 7"	27,000	SF	12.00	$324,000		
		61	Concrete sidewalk	8,500	SF	10.00	$85,000		
		62	Concrete overlay; 2"	27,000	SF	7.00	$189,000		
		63	Concrete barrier curb	1,420	LF	70.00	$99,000		
		64	Pipe railings	1,420	LF	50.00	$71,000		
		65							
		66	**Subtotal Departure Ramps**					$4,594,000	
		67							
		68	**Departure Roadways Elevated (Over Building)**						
		69							
		70	Mobilize	1	LS	25,000.00	$25,000		
		71	Excavation						
		72	Pile cap excavation	6,404	CY	40.00	$256,000		
		73	Grade beam excavation	1,155	CY	40.00	$46,000		
		74	Carting				INCLUDED		
		75	Underslab utilities	756	CY	40.00	$30,000		
		76	General backfill	4,472	CY	20.00	$89,000		
		77	Dewatering	1	LS	50,000.00	$50,000		
		78	Grading	59,714	SF	0.75	$45,000		
		79	Line & grade survey	1	LS	30,000.00	$30,000		
S	EF1	80	Contaminated Soil Disposal Premiums	4,929	Tons	26.50	$131,000		
		81							
		82	Production Monotube piles - 8"x14"	28,160	LF	44.00	$1,239,000		

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Roadways Building Area: N/A GSF

		Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
		83	Concrete for piles	845	CY	400.00	$338,000		
		84	Reinforcing steel for piles	37	TON	3,000.00	$111,000		
		85	Removal of underground obstructions				INCLUDED		
		86	Removal of damaged pile due to obstructions				NOT INCLUDED		
		87	Fusion bonded epoxy coating, upper 15'-0"				INCLUDED		
		88	Load Test				W/TERMINAL ESTIMATE		
		89	Pile Dynamic Analysis				W/TERMINAL ESTIMATE		
		90							
		91	Concrete for pile caps	2,767	CY	400.00	$1,107,000		
		92	Reinforcing steel for pile caps	102	TON	3,000.00	$306,000		
		93	Concrete for grade beams	338	CY	550.00	$186,000		
		94	Reinforcing steel for grade beams	36	TON	3,000.00	$108,000		
		95	Concrete utility encasement				NOT INCLUDED		
		96	Crane pad				NOT REQUIRED		
		97	Winter concreting				NOT INCLUDED		
		98	Foundation drainage system				NOT INCLUDED		
		99							
		100	Concrete for 12" S.O.G.	2,323	CY	400.00	$929,000		
		101	Reinforcing steel for 12" S.O.G.	157	TON	3,000.00	$471,000		
		102	Moisture barrier				NOT INCLUDED		
		103	CIP concrete columns (51) - 4' dia, 15' avg h	1,479	CY	1,000.00	$1,479,000		
S	S8		Sandblast Finish	9,615	SF	2.50	$24,000		
		104	Reinforcing Steel	95	TNS	3,000.00	$285,000		
		105	Multirotational Polyurethane Disc Bearings @ ea. Column	51	EA	5,000.00	$255,000		
		106	Precast Prestressed Capbeams - Approx. 90' long	17	PCS	50,000.00	$850,000		
		107	Precast Prestresses Box Beams	315	PCS	9,000.00	$2,835,000		
		108	Grout box beams	71,000	SF	2.00	$142,000		
		109	Membrane waterproofing	71,000	SF	8.00	$568,000		
S	S6	110	CIP concrete structural slab - 4"	875	CY	470.00	$411,000		
		111	Reinforcing Steel	110	TNS	3,000.00	$330,000		
S	S6	112	CIP concrete overlay - 4"	875	CY	470.00	$411,000		
		113	Reinforcing Steel	50	TNS	3,000.00	$150,000		
		114	Concrete sidewalk	25,000	SF	10.00	$250,000		
		115	Precast Concrete barrier w/ curb - 1 side	800	LF	70.00	$56,000		
		116	Transverse Expansion Joints (End Spans) - 12" total movement, X-cell	172	LF	1,500.00	$258,000		
		117	Transverse Expansion Joints (Interior Span)- Elastomeric Seal	86	LF	300.00	$26,000		
V	C186	118	Delete Phase 2 Stub	(11,300)	SF	122.50	($1,384,000)		
		119							
		120	**Subtotal Departures Roadways**					$12,443,000	
		121							
		122	**Overhead Signs/Guardrail**						
		123							

Roadways Building Area: N/A GSF

	Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
	124	55' span type	5	EA	150,000.00	$750,000		
	125	65' span type	1	EA	200,000.00	$200,000		
	126	40" span type	1	EA	150,000.00	$150,000		
	127	25" cant	3	EA	75,000.00	$225,000		
	128	Guardrail	2,400	LF	75.00	$180,000		
	129	Concrete foundations	70	CY	550.00	$39,000		
	130							
	131	**Subtotal OHD signs/guardrail**					$1,544,000	
	132							
	133	**Maintenance & Protection of Traffic (MPT)**						
	134							
	135	Impact attenuators	4	EA	40,000.00	$160,000		
	136	Roadway Striping	25,000	LF	3.00	$75,000		
	137	VMS Structures	16	EA	25,000.00	$400,000		
	138	Sign panels	20,000	SF	20.00	$400,000		
	139	Construction signs	100	EA	500.00	$50,000		
	140	MPT phases	10	WD	5,000.00	$50,000		
	141	Concrete barrier (approx 500lf/3phases)	1,600	LF	10.00	$16,000		
	142	Arrowboards (2ea/3 phases)	2	EA	10,000.00	$20,000		
	143							
	144	**Subtotal Maintenance & Protection of Traffic**					$1,171,000	
	145							
	146	**SITE WORK**						$25,517,000
	147							
	148	**SITE UTILITIES**						
	149							
	150	**Utility Corridor**						
	151							
	152	Excavation for utility corridor approx 25'w	5,000	CY	60.00	300,000		
S	EF1 153	Contaminated Soil Disposal Premiums	6,413	Tons	26.50	$170,000		
	154	**Subtotal Utility Corridor**					$470,000	
	155							
	156	**Gas**						
	157							
	158	Excavate/Remove existing 12" main	220	LF	150.00	33,000		
	159	HPG 12" - reroute	380	LF	150.00	57,000		
	160	Connections	3	EA	10,000.00	30,000		
	161	Trench excavation - see utility corridor						
	162							
	163	**Subtotal Gas**					$120,000	
	164							
	165	**Water System**						

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Roadways

Building Area: N/A GSF

		Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
		166							
		167	Remove existing lines	700	LF	250.00	175,000		
		168	LPW 10/16"	580	LF	250.00	145,000		
		169	HPW 30"	300	LF	500.00	150,000		
		170	Wet taps	5	EA	20,000.00	100,000		
		171	Cathodic protection	1	LS	100,000.00	100,000		
		172	Trench excavation - see utility corridor						
		173							
		174	**Subtotal Water System**						
		175						$670,000	
		176	**Triturator**						
		177							
		178	Sheeting/excavation for structure	1	EA	200,000.00	200,000		
		179	Construct housing approx 25x30	1	EA	400,000.00	400,000		
		180	Components	1	EA	400,000.00	400,000		
		181							
		182	**Subtotal Triturator**						
		183						$1,000,000	
		184	**Pump Station**						
		185							
S	EF7	186	Sheeting/Excavation for structure	2	EA	100,000.00	200,000		
S	EF7	187	Construct housing approx 20x20	2	EA	125,000.00	250,000		
S	EF7	188	Components	2	EA	100,000.00	200,000		
		189							
		190	**Subtotal Pump Station**						
		191						$650,000	
		192	**Electrical/Communications**						
		193							
S/V	214/C183	194	Concrete encased 5kv	1,990	LF	350.00	696,500		
S/V	214/C183	195	6' dia manholes	10	EA	20,000.00	200,000		
		196	Traffic intersection #42 (5 poles + loop detectors)	1	LS	250,000.00	250,000		
		197							
		198	**Subtotal Electrical/Communictions**						
		199						$1,146,500	
		200	**Thermal Distribution System (TDS)**						
		201							
		202	Fab/Inst/Weld/Test System (within utility corridor excavation)	1,100	LF	2,700.00	2,970,000		
		203	Minor structures	1	EA	30,000.00	30,000		
		204	Major structures	2	EA	100,000.00	200,000		
		205							
		206	**Subtotal TDS**						
		207						$3,200,000	

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Roadways

Building Area: N/A GSF

		Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
		208	**Sanitary**						
		209							
S	C211	210	8/10" RCP (within utility corridor excavation)	700	LF	125.00	87,500		
		211	4'diam manholes w/castings	5	EA	15,000.00	75,000		
		212	Dewatering approx 20 days	600	LF	300.00	180,000		
S	C21	213	Loading Dock Drainage	1	LS	48,000.00	48,000		
		214	**Subtotal Sanitary**					$390,500	
		215							
		216	**Stormwater Drainage**						
		217							
		218	48-30" rcp with excavation/backfilling	1,320	LF	250.00	330,000		
		219	24-18" rcp with excavation/backfilling	480	LF	150.00	72,000		
		220	Manholes w/castings	15	EA	10,000.00	150,000		
		221	Catch basins	2	EA	5,000.00	10,000		
		222	Existing drainage removals	840	LF	50.00	42,000		
		223							
		224	**Subtotal Stormwater Drainage**					$604,000	
		225							
		226	**SITE UTILITIES**						$8,251,000
		227							
		228	**FUELING SYSTEMS**						
		229							
		230	N/A						
		231							
		232	**FUELING SYSTEMS**						
		233							$0
		234							
		235	**TOTAL DIRECT COST**				$35,228,000	$35,228,000	$35,228,000

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Air Train Connector

Building Area: 23,225 GSF

		Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
						$	$	$	$
		1	**EXCAVATIONS AND FOUNDATIONS**						
		2							
		3	**Earthwork**						
		4	Mobilize	1	LS	25,000.00	$25,000		
		5	Support of excavation	7,200	CY	40.00	$288,000		
		6	Excavation for pile caps	1,731	CY	35.00	$61,000		
		7	General backfill	821	CY	20.00	$16,000		
S	EF1	8	Contaminated Soil Disposal Premiums	1,167	Tons	26.50	$31,000		
		9	Dewatering	1	LS	10,000.00	$10,000		
		10							
		11	**Subtotal: Earthwork**					$431,000	
		12							
S	EF78		**Piles**						
S	EF78		Production Monotube piles - 8"x14"	5,600	LF	44.00	$246,000		
S	EF78		Concrete for piles	168	CY	400.00	$67,000		
S	EF78		Reinforcing steel for piles	8	TON	3,000.00	$24,000		
S	EF78		Removal of underground obstructions				NOT INCLUDED		
S	EF78		Rei				NOT INCLUDED		
S	EF78		Fusion bonded epoxy coating, upper 15'-0"				INCLUDED		
S	EF78		Load Test				INCLUDED W/TERMINAL		
S	EF78		Pile Dynamic Analysis				INCLUDED W/TERMINAL		
S	EF78								
S	EF78		**Subtotal: Piles**					337,000	
		13	**Foundations**						
		14	Concrete for pile caps	910	CY	400.00	$364,000		
		15	Reinforcing steel for pile caps	43	TON	3,000.00	$129,000		
		16	Concrete for grade beams	10	CY	550.00	$6,000		
		17	Reinforcing steel for grade beams	2	TON	3,000.00	$6,000		
		18	Crane/hoist pads				NOT INCLUDED		
		19	Winter concreting				NOT INCLUDED		
		20	Foundation drainage system				NOT INCLUDED		
		21	Rigid insulation at perimeter				NOT REQUIRED		
		22							
		23	**Subtotal: Foundations**					$505,000	
		24							
		25	**Slab-On-Grade**						
		26	Concrete for S.O.G.	5	CY	400.00	$2,000		
		27		1	TON	3,000.00	$3,000		
		28							
		29	**Subtotal: Slab-On-Grade**					$5,000	
		30							

Air Train Connector

Building Area: 23,225 GSF

Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
				$	$	$	$
31	**Waterproofing**						
32	Waterproofing				NOT REQUIRED		
33							
34	**Subtotal: Waterproofing**					$0	
35							
36							
37	**EXCAVATIONS AND FOUNDATIONS**						$1,278,000
38							
39	**STRUCTURAL FRAME**						
40							
41	**Steel Superstructure**						
42							
43	Structural steel framing - girders & truss members	625	TNS	4,000.00	$2,500,000		
44	Structural steel framing - columns	0	TNS	4,000.00	$0		
45	Structural steel framing connections	63	TNS	4,000.00	$252,000		
46	Metal floor deck	8,125	SF	3.50	$28,000		
47	Metal sub-floor deck	15,300	SF	3.50	$54,000		
48	Metal roof deck	15,300	SF	3.50	$54,000		
49							
50	**Subtotal: Steel Superstructure**					$2,888,000	
51							
52	**Spray On Fireproofing**						
53							
54	Spray Fireproofing on structural steel - truss members				Not Required		
55	Intumescent Paint for Truss Steel	85,500	SF	12.00	$1,026,000		
56	Spray Fireproofing on metal roof deck			not required	Not Required		
57							
58	**Subtotal: Spray On Fireproofing**					$1,026,000	
59							
60	**Concrete Fill on Deck**						
61							
62	CIP Hammer Head Piers, (4) - 8' dia column w/ cap, Assun	1,199	CY	1,200.00	$1,439,000		
63	Reinforcing Steel	16	TNS	3,000.00	$48,000		
64	Column form with hammerhead - rental	1	EA	25,000.00	$25,000		
65	Concrete fill on metal floor deck, 4"	100	CY	450.00	$45,000		
66	Concrete fill on metal sub-floor deck, 5", Assume 25% of st	59	CY	450.00	$27,000		
67	Reinforcing Steel - Assume WWF	38,725	SF	0.85	$33,000		
S S8 68	Sandblast Finish	4,187	SF	2.50	$10,000		
69	**Subtotal: Concrete Fill on Deck**					$1,627,000	
70							
	Expansion Joints						

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	Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
					$	$	$	$
S	S7	Expansion Joints	70	LF	150.00	$10,500		
		Subtotal: Expansion Joints					$10,500	
	155							
	71	**STRUCTURAL FRAME**						**$5,551,500**
	72							
	73	**ROOFING AND WATERPROOFING**						
	74	**Rough Carpentry**						
	75							
	76	Allowance for rough carpentry	23,225	SF	1.50	$35,000		
	77							
	78	**Subtotal: Rough Carpentry**					$35,000	
	79							
	80	**Roof**						
	81							
	82	EPDM roofing and insulation	23,225	SF	13.00	$302,000		
	83	Parapet flashing and lining	1,370	LF	40.00	$55,000		
	84							
	85	**Subtotal: Roof**					$357,000	
	86							
	87							
	88							
	89	**ROOFING AND WATERPROOFING**						**$392,000**
	90							
	91	**EXTERIOR WALL**						
	92							
	93	**Walls**						
	94							
	95	*Pedestrian Bridge*						
	96	GL-6B Aluminum Curtain Wall	36,143	SF	110.00	$3,976,000		
	97	Allowance For frit	36,143	SF	5.00	$181,000		
	98					$0		
	99	HM Doors	2	EA	1,000.00	$2,000		
	100							
	101	**Subtotal: Walls**					$4,159,000	
	102							
	103	**Exterior Stairs**						
	104							
	105	Structural steel framing - truss stairs	795	LFR	300.00	$239,000		
	106	Galv. Steel Railing w/ Mesh	266	LF	350.00	$93,000		
	107							

Air Train Connector

Building Area: 23,225 GSF

		Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
						$	$	$	$
		108	**Subtotal: Exterior Stairs**					$332,000	
		109							
		110	**EXTERIOR WALL**						**$4,491,000**
		111							
		112	**INTERIOR PARTITIONS & FINISHES**						
		113							
		114	**Partitions**						
		115							
A	A80	116	GWB wall sheeting	2,000	SF	4.00	$8,000		
		117	Miscellaneous partitions	250	LF	240.00	$60,000		
		118	Column casings	120	LF	100.00	$12,000		
		119	Safety barriers and barricades	1	LS	50,000.00	$50,000		
		120	Final cleaning	23225	SF	0.50	$12,000		
		121	OSHA protection	23,225	SF	0.50	$12,000		
		122	Protection of finished work	23,225	SF	0.50	$12,000		
		123							
		124	**Subtotal: Partitions**					$166,000	
		125							
		126	**Doors, Frames & Hardware**						
		127							
		128	Set of 4 doors; 2 hr fire rated	1	EA	15,000.00	$15,000		
		129	Miscellaneous doors	4	EA	2,000.00	$8,000		
		130							
		131	**Subtotal: Doors, Frames & Hardware**					$23,000	
		132							
		133	**Interior Stairs**						
		134							
		135					None Shown		
		136	**Subtotal: Interior Stairs**					$0	
		137							
		138	**Floor Finishes**						
		139							
A	A80	140	Thin set epoxy terrazzo	12,200	SF	22.00	$268,000		
A	A80	141	Terrazzo base	1,000	LF	12.00	$12,000		
		142							
		143	**Subtotal: Floor Finishes**					$280,000	
		144							
		145	**Wall Finishes**						
		146							
A	A80	147	Laminate veneer				Not Required		
		148	Paint	5,000	SF	1.20	$6,000		
		149							

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	Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
					$	$	$	$
	150	**Subtotal: Wall Finishes**					$6,000	
	151							
	152	**Ceiling Finishes**						
	153							
A	A80 154	Acoustic ceiling planks				Not Required		
	155							
	156	**Subtotal: Ceiling Finishes**					$0	
	157							
	158	**Interior Glass & Glazing**						
	159							
	160	Glass balustrade	110	LF	500.00	$55,000		
	161							
	162	**Subtotal: Interior Glass & Glazing**					$55,000	
	163							
	164	**Millwork**						
	165							
	166	Not required						
	167							
	168	**Subtotal: Interior Millwork**					$0	
	169							
	170	**Specialties**						
	171							
	172	Signage - static	1	LS	4,000.00	$4,000		
	173							
	174	**Subtotal: Specialties**					$4,000	
	175							
	176	**INTERIOR PARTITIONS & FINISHES**						**$534,000**
	177							
	178	**VERTICAL TRANSPORTATION**						
	179							
	180	**Elevators**						
	181							
	182	Included with Building						
	183							
	184	**Subtotal: Elevators**					$0	
	185							
	186	**Escalators and Moving Walks**						
	187							
	188	Escalator, glass balustrade, 25.0' vertical travel (ESC5,6)	2	EA	135,000.00	270,000		
	189	Moving walk, glass balustrade, 150' travel; 56" wide	6	EA	290,000.00	1,740,000		
	190							
	191	**Subtotal: Escalators and Moving Walks**					$2,010,000	

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Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
				$	$	$	$
192							
193	**VERTICAL TRANSPORTATION**						$2,010,000
194							
195	**SPECIALITIES**						
196							
197	N/A						
198							
199	**SPECIALITIES**						$0
200							
201	**EQUIPMENT & FURNISHINGS**						
202							
203	**Furnishings**						
204							
205	Excluded						
206							
207	**Subtotal: Furnishings**					$0	
208							
209	**Artwork**						
210							
211	Excluded						
212							
213	**Subtotal: Artwork**					$0	
214							
215	**EQUIPMENT & FURNISHINGS**						$0
216							
217	**BAGGAGE HANDLING SYSTEM**						
218							
219	*Not required*						
220							
221	**BAGGAGE HANDLING SYSTEM**						$0
222							
223	**SPECIAL CONSTRUCTION**						
224							
225	N/A						
226							
227	**SPECIAL CONSTRUCTION**						$0
228							
229	**PLUMBING**						
230							
231	**Fixtures and Specialties (Based on Plumbing Dwgs)**				Not Included		
232							
233	**Subtotal: Fixtures & Specialties**					$0	

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Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
				$	$	$	$
234							
235	**Domestic Water Distribution**						
236	Domestic Water System Equipment				Not included		
237	Domestic Cold Water System				Not included		
238	Domestic Hot Water System				Not included		
239	Domestic Water Piping (Hot & Cold)				Not included		
240							
241	**Subtotal: Domestic Water Distribution**					$0	
242							
243	**Sanitary Drainage**						
244	Sanitary Drainage Equipment				Not included		
245	Sanitary Vent & Drainage Piping				Not included		
246							
247	**Subtotal: Sanitary Drainage**					$0	
248							
249	**Storm Drainage**						
250	Storm Drainage Equipment						
251	Roof Drains (6"- 8")	24	EA	$750.00	$18,000		
252	Area Drains (4")				Not Included		
253	Overflow Drains				Not Included		
254	Syphonic Roof Drain System				Not Included		
255	Storm Drainage Piping						
256	Below ground - 4" - 6"	240	LF	$60.00	$14,000		
257	Below ground - 8" -12"				Not Included		
258	Aboveground - 4"	1,800	LF	$70.00	$126,000		
259	Aboveground - 6"				Not Included		
260	Aboveground - 8"				Not Included		
261	Insulation for Horizontal Piping				Not Included		
262	Expansion Joints				Not Included		
263	Cleanouts	1	LS	$20,000.00	$20,000		
264	Overflow Drainage Piping				Not Included		
265	Stainless Steel Piping				Not Included		
266							
267	**Subtotal: Storm Drainage**					$178,000	
268							
269	**Natural Gas Piping**				Not Included		
270							
271	**Subtotal: Natural Gas Piping**					$0	
272							
273	**Equipment Hook-ups**				Not Included		
274							
275	**Subtotal: Equipment Hook-ups**					$0	

Air Train Connector Building Area: 23,225 GSF

	Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
					$	$	$	$
	276							
	277	**Site Utilities (up to 5' outside of building)**						
	278	Storm Lines To Building				w/Site Utilities		
	279							
	280	**Subtotal: Site Utilities**					$0	
	281							
	282	**Food Service Fit-Out**				Not Included		
	283							
	284	**Subtotal: Food Service Fit-Out**					$0	
	285							
	286	**Miscellaneous**				Included w/ Building		
	287							
	288	**Subtotal: Miscellaneous**					$0	
	289							
	290	**PLUMBING**						$178,000
	291							
	292	**FIRE PROTECTION**						
	293							
	294	**Equipment & Accessories**				Not Included		
	295							
	296	***Subtotal: Equipment & Accessories***					$0	
	297							
	298	**Fire Standpipe System**				Not Included		
	299							
	300	**Subtotal: Fire Standpipe System**					0	
	301							
	302	**Wet System Sprinkler Piping & Heads**						
	303							
V	F178	Sprinkler Heads (Allowance - 1 head per 130 sq. ft)	210	EA	$350.00	74,000		
V	F178	Sprinkler Main Piping (4") (Capped at end of Air Train (	900	LF	$50.00	45,000		
V	F178	Drain Piping (2")	50	LF	$35.00	2,000		
V	F178	Sprinkler Branch Piping				Included		
V	F178	Misc. Valves & Specialties	1	LS	$5,000.00	5,000		
	304	**Subtotal: Wet System Sprinkler Piping & Heads**					$126,000	
	305							
	306	**Dry Systems**						
	307	Departure Level						
	308	DSP						
	F82/F178							
S/V	309	Dry Valve Assembly w/ Air Compressor (DVA) (4")				Not Required		
	F82/F178							
S/V	310	Sprinkler Heads				Not Required		

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Building Area: 23,225 GSF

		Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
	F82/F17	311				$	$	$	$
S/V	8		Sprinkler Main Piping (4")				Not Required		
		312	Drain Piping (2")	100	LF	$35.00	$4,000		
		313	Sprinkler Branch Piping				Included		
		314	Galvanized Pipe				Not Included		
V	F178	315	Misc. Valves & *Specialties*				Not Required		
		316							
		317	**Subtotal: Dry Systems**					$4,000	
		318							
		319	**PreAction Systems**				Not Included		
		320							
		321	**Subtotal: PreAction Systems**					$0	
		322							
		323	**Deluge Systems**				Not Included		
		324							
		325	**Subtotal: Deluge Systems**					$0	
		326							
		327	**Specialty Systems**				Not Included		
		328							
		329	**Subtotal: Specialty Systems**					$0	
		330							
		331	**Miscellaneous**						
		332	Independent (3rd party) Commissioning Agent				By Owner		
		333	Work with Owner Furnished Commissioning Agent				Included		
		334	Hydraulic Calculations, Layout & Shop Drawings				Included		
		335	As-Built Drawings, O&M Manuals & Warranty				Included		
		336	System Identification				Included		
		337	Controlled Inspections				Included		
		338	Controls & Control Wiring				Included		
		339	Pressure Testing & Flushing of Piping				Included		
		340	Equipment Startup & Testing				Included		
		341	Core Drilling				Included		
		342	Fire Stopping				Included		
		343	Seismic Restraints & Vibration Isolation				Included		
		344	Rigging, Hoisting & Aerial Lifts				Included		
		345	Scaffolding				Included		
		346	Job Trailers (Shanty) - Tool / Equip Storage				Included		
		347	Heat Tracing (Furnish) w/Insulation & Aluminum Jacketing				Included		
		348	Drip Pans				Included		
		349	Attic Stock				Included		
		350	Temporary Standpipe system				Use Permanent System		
		351	Temporary Fire Protection				Use Permanent System		
		352	Standby Labor & Fire Watch				Not Included		

Air Train Connector Building Area: 23,225 GSF

		Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
						$	$	$	$
		353	Detectors (Heat & Smoke)				w/Electrical		
		354	Fire Alarm & Control Wiring				w/Electrical		
		355	Trenching/Excavation/Backfill				w/Foundations		
		356	Concrete Equipment Pads				w/Concrete		
		357	Painting				w/Painting		
		358	Roof Work				w/Roofing		
		359	Concession Areas Fit-out				Not Included		
		360	Overtime				Not Included		
		361							
		362	**Subtotal: Miscellaneous**					$0	
		363							
		364	**FIRE PROTECTION**						$130,000
		365							
		366	**H.V.A.C.**						
		367							
		368	**H.V.A.C.**						
		369	**Heating & Cooling Plant**						
		370							
		371	**Heating Plant**				Not Included		
		372							
		373	**Subtotal: Heating Plant**					$0	
		374							
		375							
		376	**Heating Equipment**				Not Included		
		377	**Packaged Heat Exchanger**						
V	H177	378	Hot Water Circulator Pumps (Duplex) (15 HP EA)				Not Required		
V	H177	379	Hot Water Circulator Pumps (Duplex) (15 HP EA)				Not Required		
V	H177	380	Variable Frequency Drive, 480 volt				Not Required		
V	H177	381	Plate Frame Heat Exchanger				Not Required		
V	H177	382	Glycol Feed System				Not Required		
V	H177	383	Chemical Pot Feeder				Not Required		
V	H177	384	Expansion Tanks				Not Required		
V	H177	385	Air Separators				Not Required		
		386							
		387	**Subtotal: Heating Equipment**					$0	
		388							
		389							
		390	**Cooling Plant**				Not Included		
		391							
		392	**Subtotal: Cooling Plant**					$0	
		393							
		394							
		395	**Piping Distribution**						

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Building Area: 23,225 GSF

Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
				$	$	$	$
396							
397	Hot Water Piping (Mains & Risers)				Not Included		
398	Glycol Hot Water Piping (Mains & Risers)				Not Included		
399	Glycol Hot Water Piping (Secondary Mains & Branches)				Not Included		
400	3" - 6"	2,800	LF	$85.00	$238,000		
401	Piping Insulation	2,800	LF	$15.00	$42,000		
402	Valving & Misc. specialities	1	LS	$10,000.00	$10,000		
403	Chilled Water Piping (Mains & Risers)				Not Included		
404	Chilled Water Piping (Secondary Mains & Branches)				Not Included		
405	4" - 6"	2,800	LF	$90.00	$252,000		
406	Piping Insulation	2,800	LF	$30.00	$84,000		
407	Valving & Misc. specialities	1	LS	$10,000.00	$10,000		
408	Gylcol Condenser Water Piping				Not Included		
409	Condensate Drain Line				Not Included		
410							
411	**Subtotal: Piping Distribution**					$636,000	
412							
413							
414	**Air Distribution**						
415							
416	Air Handling Unit [AHU-40, 41, 42 & 43] [Air Train] (16,000	64,000	CFM	$5.00	$320,000		
417	Supply Fan				Included		
418	Variable Frequency Drive (40 HP)	4	EA	$10,000.00	$40,000		
419	Air to Air Heat Exchanger				Not Included		
420	Copper Tube/Aluminum Fins				Included		
421	Hot Water Pre-Heating Coil				Not Included		
422	Hot Water Heating Coil				Included		
423	Chilled Water Cooling Coil				Included		
424	Pre & Final Filters				Included		
425	Carbon Filters	64,000	CFM	$0.85	$54,000		
426	Sound Traps	128,000	CFM	$0.25	$32,000		
427	Humidification				Not Included		
428	Return Fan	32,000	CFM	$0.75	$24,000		
429	Variable Frequency Drive (15 HP)	4	EA	$5,000.00	$20,000		
430	Galvanized Ductwork	42,800	LBS	$8.50	$364,000		
431	Acoustic Lining & Thermal Insulation	28,533	SF	$3.50	$100,000		
432	Volume Dampers				Included		
433	VAV Boxes	0	EA	$1,500.00	$0		
434	Reheat Coils	0	EA	$1,500.00	$0		
435	Air Flow Measuring Station	0	EA	$500.00	$0		
436	Motorized Dampers	0	SF	$95.00	$0		
437	Fire Smoke Dampers	0	SF	$350.00	$0		
438	Fire Dampers	71	SF	$120.00	$9,000		

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Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
				$	$	$	$
439	Grilles Registers & Diffusers	128	EA	$175.00	$22,000		
440	Jet Nozzle Diffusers	0	EA	$200.00	$0		
441	Linear Diffusers	0	LF	$100.00	$0		
442	Louvers				Not Included		
443							
444	Fan Coil Units				Not Included		
445							
446	**Heating & Ventilating Units**				Not Included		
447							
448	**Subtotal: Air Distribution**					$985,000	
449							
450	**Supplemental A/C Systems**				Not Included		
451							
452	**Subtotal: Supplemental AC Systems**					$0	
453							
454							
455	**Ventilation**				Not Included		
456							
457	**Subtotal: Ventilation**					$0	
458							
459							
460	**Concession Exhaust**				Not Included		
461							
462	**Subtotal: Concession Exhaust**					$0	
463							
464							
465	**Equipment Connections**						
466	AHU Connection	4	EA	$10,000.00	$40,000		
467	Heat Exchanger Connection	1	EA	$10,000.00	$10,000		
468							
469	**Subtotal: Equipment Connections**					$50,000	
470							
471							
472	**Emergency Generator System**				w/ Electrical		
473							
474	**Subtotal: Emergency Generator System**					$0	
475							
476							
477	**Fuel Oil System for Generators**						
478					w/ Electrical		
479	**Subtotal: Fuel Oil System for Generators**					$0	
480							

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Air Train Connector Building Area: 23,225 GSF

Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
				$	$	$	$
481							
482	**Temporary Heating & Cooling Programs**						
483				w/ General Conditions			
484	**Subtotal: Temporary Heating & Cooling Programs**					$0	
485							
486							
487	**Automatic Temperature Controls**				w/ Building		
488	DDC Temperature Control System						
489							
490	**Subtotal: Automatic Temperature Controls**					$0	
491							
492	**Testing & Balancing**						
493	Building	23,225	SF	$0.15	$3,000		
494							
495	**Subtotal: Testing & Balancing**					$3,000	
496							
497	**Seismic & Vibration Isolation**						
498	Building	23,225	SF	$0.25	$6,000		
499							
500	**Subtotal: Seismic & Vibration Isolation**					$6,000	
501							
502	**Miscellaneous**						
503	Independent (3rd party) Commissioning Agent				By Owner		
504	Work with Owner Furnished Commissioning Agent				Included		
505	Engineering & Layout				Included		
506	As-Built Drawings & O&M Manuals				Included		
507	System Identification				Included		
508	Scaffolding (for pipe/duct/devices controlled by this trade)				Included		
509	Rigging & Hoisting				Included		
510	Startup & Test				Included		
511	Warranty				Included		
512	Heat Tracing - Chilled Water - Furnish Only				Included		
513	Fire Alarm/Life Safety				w/Electrical		
514	Motor Control Centers				w/Electrical		
515	Overtime				Not Included		
516	Painting of Ductwork/Piping				w/Painting		
517	Roof Work				w/Roofing		
518							
519	**Subtotal: Miscellaneous**					$0	
520							
521	**H.V.A.C.**						**$1,680,000**
522							
523	**ELECTRICAL**						

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Building Area: 23,225 GSF

		Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
		524				$	$	$	$
		525	**Service & Power Distribution**						
		526	Service & Distribution	23,225	GSF	$18.50	$430,000		
		527							
		528	**Subtotal: Service & Power Distribution**						
		529						$430,000	
		530	**Lighting**						
		531							
S	E83		Lighting						
S	E83		FAE	132	EA	$1,089.00	$144,000		
S	E83		FAH	70	EA	$1,584.00	$111,000		
S	E83		Allowance for Lighting Not Shown						
S	E83		Zone 13	10,000	SF	$10.00	$100,000		
S	E83		Zone 15	417	SF	$10.00	$4,000		
S	E83								
S	E83		Miscellaneous						
S	E83		Conduit & Wire	3,030	LF	$7.50	$23,000		
S	E83		Exit Lights	1	LS	$5,000.00	$5,000		
S	E83		Site Lighting				Not Included		
		532							
		533	**Subtotal: Lighting**						
		534						$387,000	
		535	**Lighting Controls**						
		536							
		537	**Subtotal: Lighting Controls**				Not Shown		
		538						$0	
		539	**Convenience Power**						
		540							
		541	**Subtotal: Convenience Power**				Not Shown		
		542						$0	
		543	**Equipment Connections**						
		544	Equipment Connections	23,225	GSF	$0.25	$6,000		
		545							
		546	**Subtotal: Equipment Connections**						
		547						$6,000	
		548	**Telecommunications**						
		549	Telecom	23,225	GSF	$3.50	$81,000		
		550	Information Systems	23,225	GSF	$5.00	$116,000		
		551	PA System	23,225	GSF	$2.25	$52,000		
		552							
		553	**Subtotal: Telecommunications**						
		554						$249,000	

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Building Area: 23,225 GSF

Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
				$	$	$	$
555	**Fire Alarm System**						
556					Not Shown		
557	**Subtotal: Fire Alarm System**					$0	
558							
559	**Security System**						
560	CCTV & Access Control	23,225	GSF	$10.00	$232,000		
561							
562	**Subtotal: Security System**					$232,000	
563							
564	**Grounding System**						
565					Not Shown		
566	**Subtotal: Grounding Systems**					$0	
567							
568	**Lightening Protection System**						
569					Not Shown		
570	**Subtotal: Lightening Protection Systems**					$0	
571							
572	**Temporary Power & Light**						
573					Not Shown		
574	**Subtotal: Temporary Power & Light**					$0	
575							
576	**Metering System**						
577					Not Shown		
578	**Subtotal: Metering System**					$0	
579							
580	**Miscellaneous Systems**						
581					Not Shown		
582	**Subtotal: Miscellaneous Systems**					$0	
583							
584	**ELECTRICAL**						$1,304,000
585							
586	**DEMOLITION**						
587							
588	Excluded						
589							
590	**DEMOLITION**						
591							$0
592	**SITE WORK**						
593							
594	See "Landside Civils"						
595							
596	**SITE WORK**						
597							$0

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Building Area: 23,225 GSF

Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
				$	$	$	$
598	**SITE UTILITIES**						
599							
600	See "Landside Civils"						
601							
602	**SITE UTILITIES**						
603							$0
604	**FUELING SYSTEMS**						
605							
606	N/A						
607							
608	**FUELING SYSTEMS**						
609							$0
610							
611	**TOTAL DIRECT COST**				$17,548,500	$17,548,500	$17,548,500

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North& South Flight Tube

Building Area: 8,830 GSF

		Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
						$	$	$	$
		1	**EXCAVATIONS AND FOUNDATIONS**						
		2							
		3	**Earthwork**						
		4	Mobilize	1	LS	35,000.00	$35,000		
		5	Excavation						
V	A206	6	Pile caps	444	CY	40.00	$18,000		
		7	Trenching for grade beams	79	CY	40.00	$3,000		
		8	Elevator/escalator pits				NOT REQUIRED		
		9	Underslab utilities	52	CY	40.00	$2,000		
V	A206	10	General backfill	328	CY	20.00	$7,000		
S	EF1		Contaminated Soil Disposal Premiums	317	Tons	26.50	$8,000		
		11	Dewatering (local)	1	LS	50,000.00	$50,000		
		12	Grading	66	CY	15.00	$1,000		
		13	Line & grade surveys	1	LS	25,000.00	$25,000		
		14	Contaminated/Impaired Soil				NOT INCLUDED		
		15	Teamster	3	MO	15,014.00	$45,000		
		16	Master Mechanic	3	MO	23,286.00	$70,000		
		17	Maintenance Engineer	3	MO	17,618.00	$53,000		
		18	***Subtotal: Earthwork***					$317,000	
		19							
		20	**Piles**						
V	A206	21	Production Monotube piles - 8"x14"	2,320	LF	44.00	$102,000		
V	A206	22	Concrete for piles	73	CY	400.00	$29,000		
V	A206	23	Reinforcing steel piles	3	TON	3,000.00	$9,000		
		24	Removal of underground obstructions				INCLUDED		
		25	Removal of damaged piles due obstructions				NOT INCLUDED		
		26	Fusion bonded epoxy coating, upper 15'-0"				INCLUDED		
		27	Load Test - Compression				W/TERMINAL ESTIMATE		
		28	Load Test - Tension				W/TERMINAL ESTIMATE		
		29	Load Test - Laterial				W/TERMINAL ESTIMATE		
		30	Pile Dynamic Analysis (PDA)				W/TERMINAL ESTIMATE		
		31							
		32	**Subtotal: Piles**					$140,000	
		33							
		34	**Foundations**						
V	A206	35	Concrete for pile caps	180	CY	400.00	$72,000		
V	A206	36	Reinforcing steel for pile caps	4	TON	3,000.00	$12,000		
		37	Concrete for wing walls	57	CY	850.00	$48,000		
		38	Reinforcing steel for wing walls	3	TON	3,000.00	$9,000		
		39	Concrete for abutments	172	CY	1,000.00	$172,000		
		40	Reinforcing steel for abutments	4	TON	550.00	$2,000		
		41	Concrete for grade beams	15	CY	550.00	$8,000		

North& South Flight Tube

Building Area: 8,830 GSF

Rank		Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
					$	$	$	$
	42	Reinforcing steel for grade beams	1	TON	3,000.00	$3,000		
	43	Crane/hoist pads				NOT REQUIRED		
	44	Winter concreting				NOT INCLUDED		
	45	Foundation drainage system				NOT INCLUDED		
	46	Rigid insulation at perimeter				NOT REQUIRED		
	47							
	48	**Subtotal: Foundations**					$326,000	
	49							
	50	**Slab-On-Grade**						
	51	Concrete for 10" S.O.G.	55	CY	600.00	$33,000		
	52	Reinforcing steel for 10" S.O.G.	5	TON	3,000.00	$15,000		
	53	Moisture barrier	1,500	SF	1.75	$3,000		
	54							
	55	**Subtotal: Slab-On-Grade**					$51,000	
	56							
	57	**Waterproofing**						
	58							
	59	Waterproofing				NOT REQUIRED		
	60							
	61	**Subtotal: Waterproofing**					$0	
	62							
	63	**EXCAVATIONS AND FOUNDATIONS**						$834,000
	64							
	65	**STRUCTURAL FRAME**						
	66							
	67	**Concrete Fill on Deck**						
	68							
V	A206	69 Concrete fill on metal floor deck, 4" (tube only)	30	CY	500.00	$15,000		
V	A206	70 Reinforcing Steel - Assume WWF	1,409	SF	0.85	$1,000		
V	A206	71 Shot-Concrete cover for tube exterior, 1 3/4" thick, Wire Mesh and Lath	7,799	SF	40.00	$312,000		
	72							
	73	**Subtotal: Concrete Fill on Deck**					$328,000	
	74							
	75	**Concrete Substructures**						
	76							
V	A206	77 Pier Structures	21	CY	1,200.00	$25,000		
V	A206	78 Reinforcing Steel	1	TNS	3,000.00	$3,000		
		79 CIP Abutment Walls (East & West)				w/ Foundations		
S	S8	80 Sandblast Finish	1,568	SF	2.50	$3,920		
	81	**Subtotal: Concrete Substructure**					$31,920	
	82							
	83	**Metal Deck & Studs**						

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North& South Flight Tube

Building Area: 8,830 GSF

		Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
						$	$	$	$
		84	**North Tube**						
V	A206	85	Metal floor deck (tube only)	1,409	SF	3.50	$5,000		
		86	Metal roof deck (tube only)				Not Required		
		87	**South Tube**						
		88	Metal floor deck (tube only)				Not Required		
		89	Metal roof deck (tube only)				Not Required		
		90							
		91	**Subtotal: Metal Deck & Studs**					$5,000	
		92							
		93	**Steel Superstructure**						
		94	**North Tube**						
V	A206	95	Structural steel framing - tube framing	58	TNS	4,000.00	$232,000		
		96	Structural steel framing - internal framing				Included		
		97	Structural steel framing - tie-in framing (floor & roof)	9	TNS	4,000.00	$36,000		
		98	Structural steel framing - tie-in trusses	8	TNS	4,000.00	$32,000		
		99	Structural steel framing - columns	2	TNS	4,000.00	$8,000		
V	A206	100	Structural steel framing connections	8	TNS	4,000.00	$32,000		
		101							
		102	Premium for Bridge Bearings	1	ALLOW	20,000.00	$20,000		
		103	**South Tube**						
		104	Structural steel framing - tube framing				Not Required		
		105	Structural steel framing - internal framing				Not Required		
		106	Structural steel framing - tie-in framing (floor & roof)	9	TNS	4,000.00	$36,000		
		107	Structural steel framing - tie-in trusses	8	TNS	4,000.00	$32,000		
		108	Structural steel framing - columns	2	TNS	4,000.00	$8,000		
		109	Structural steel framing connections	2	TNS	4,000.00	$8,000		
		110							
		111	Premium for Bridge Bearings	1	ALLOW	20,000.00	$20,000		
		112							
		113							
		114	**Subtotal: Steel Superstructure**					$464,000	
		115							
		116	**Spray On Fireproofing**						
		117							
		118	Spray On Fireproofing - North Tube	24,100	SF	2.40	$58,000		
		119	Spray On Fireproofing - South Tube	3,600	SF	2.40	$9,000		
		120	**Subtotal: Spray On Fireproofing**					$67,000	
		121							
			Expansion Joints						
S	S7		Expansion Joints	60	LF	150.00	$9,000		

North& South Flight Tube

Building Area: 8,830 GSF

Rank			Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
						$	$	$	$
			Subtotal: Expansion Joints					$9,000	
		155							
		122	**STRUCTURAL FRAME**						$904,920
		123							
		124	**ROOFING AND WATERPROOFING**						
		125							
		126	**Rough Carpentry**						
		127							
		128	Allowance for rough carpentry	4,200	SF	1.50	$6,000		
		129							
		130	**Subtotal: Rough Carpentry**					$6,000	
		131							
		132	**Roof**						
		133							
A	A10	134	Standing seam metal roof and insulation	4,200	SF	45.00	$189,000		
		135	Parapet flashing and lining	375	LF	40.00	$15,000		
		136							
		137	**Subtotal: Roof**					$204,000	
		138							
		139	**ROOFING AND WATERPROOFING**						$210,000
		140							
		141	**EXTERIOR WALL**						
		142							
		143	**Walls**						
		144							
		145	*Flight Tube- North*						
	A13/A10	146	M-2 Zinc Interlocking Flat Panels						
S/V	1			1,754	SF	50.00	$88,000		
	A13/A10	147	Exterior GWB sheathing; 5/8" thick; incl. stud framing and ice/water shield						
S/V	1						Included		
	A13/A10	148	Rigid insulation board; 2" thick						
S/V	1						Included		
		149	M-3 Batten Seam Roof System	2,265	SF	28.00	$63,000		
		150	Exterior GWB sheathing; 5/8" thick; incl. stud framing and ice	2,265	SF	16.00	$36,000		
		151	Rigid insulation board; 2" thick	2,265	SF	3.00	$7,000		
S	A13	152	M-7 Flat Aluminum panel	4,008	SF	47.00	$188,000		
S	A13	153	Exterior GWB sheathing; 5/8" thick; incl. stud framing and ice/water shield				Included		
S	A13	154	Rigid insulation board; 2" thick				Included		
		155	Continuous aluminum louver; 3' 0" high	80	SF	85.00	$7,000		
		156							
		157	*Flight Tube- South*						

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North& South Flight Tube

Building Area: 8,830 GSF

		Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
						$	$	$	$
S/V	A13/A10 1	158	M-2 Zinc Interlocking Flat Panels						
S/V	A13/A10 1	159	Exterior GWB sheathing; 5/8" thick; incl. stud framing and ice/water shield	1,677	SF	50.00	$84,000		
S/V	A13/A10 1	160	Rigid insulation board; 2" thick				Included		
		161	M-3 Batten Seam Roof System				Included		
		162	Exterior GWB sheathing; 5/8" thick; incl. stud framing and ice	229	SF	28.00	$6,000		
		163	Rigid insulation board; 2" thick	229	SF	16.00	$4,000		
S	A13	164	M-7 Flat Aluminum panel	229	SF	3.00	$1,000		
S	A13	165	Exterior GWB sheathing; 5/8" thick; incl. stud framing and ice/water shield	3,934	SF	47.00	$185,000		
S	A13	166	Rigid insulation board; 2" thick				Included		
		167	Continuous aluminum louver; 3' 0" high				Included		
		168					Not Required		
		169	**Subtotal: Walls**						
		170						$669,000	
		171	**Windows**						
		172	*Flight Tube- North*						
		173	Aluminum Framed Curtain Wall- GL-2A	169	SF	110.00	$19,000		
		174	Fritted area- GL-2B	249	SF	115.00	$29,000		
		175	*Flight Tube- South*						
		176	Aluminum Framed Curtain Wall	269	SF	110.00	$30,000		
		177	Fritted area- GL-2B	311		115.00	$36,000		
		178							
		179	**Subtotal: Windows**						
		180						$114,000	
		181	**Exterior Doors and Vestibules**						
		182	*Flight Tube- North*						
		183	HM Doors 42	2	EA	1,000.00	$2,000		
		184	*Flight Tube- South*						
		185	HM Doors 42	2	EA	1,000.00	$2,000		
		186							
		187	**Subtotal: Exterior Doors and Vestibules**						
		188						$4,000	
		189	**Sealants**						
		190	Exterior wall sealants	13,867	SFCA	1.00	$14,000		
		191							
		192	**Subtotal: Sealants**						
		193						$14,000	
		194	**EXTERIOR WALL**						
		195							$801,000
		196	**INTERIOR PARTITIONS & FINISHES**						

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Building Area: 8,830 GSF

	Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
	197				$	$	$	$
	198	***Partitions***						
	199							
V	A206 200	Plaster	4,895	SF	10.00	$49,000		
	201	Final cleaning	8,830	SF	0.50	$4,000		
	202	Safety barriers and barricades	1	LS	100,000.00	$100,000		
	203	OSHA protection	8,830	SF	0.50	$4,000		
	204	Protection of finished work	8,830	SF	0.50	$4,000		
	205							
	206	**Subtotal: Partitions**					$161,000	
	207							
	208	**Doors, Frames & Hardware**						
	209							
	210	Miscellaneous doors	2	EA	2,000.00	$4,000		
	211							
	212	**Subtotal: Doors, Frames & Hardware**					$4,000	
	213							
	214	**Interior Stairs**						
	215							
	216	**Monumental Stair #5**						
	217	Metal pan stair and concrete fill	76	LFR	40.00	$3,000		
	218	Glass Handrail	82	LF	600.00	$49,000		
	219	Terrazzo Treads/Landings	140	SF	30.00	$4,000		
	220							
	221	**Monumental Stair #1**						
	222	Metal pan stair and concrete fill	76	LFR	40.00	$3,000		
	223	Glass Handrail	82	LF	600.00	$49,000		
	224	Terrazzo Treads/Landings	171	SF	30.00	$5,000		
	225							
	226	**Subtotal: Interior Stairs**					$113,000	
	227							
	228	**Floor Finishes**						
	229							
V	A206 230	Floor Allowance	1,406	SF	10.00	$14,000		
	231							
	232	**Subtotal: Floor Finishes**					$14,000	
	233							
	234	**Wall Finishes**						
	235							
	236	Circulation - porcelain panels (assumed at perimeter - 2' high)	1,000	SF	20.00	$20,000		
	237							
	238	***Subtotal: Wall Finishes***					$20,000	

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	Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
	239				$	$	$	$
	240	**Ceiling Finishes**						
	241							
V	A206 242	Ceiling Allowance						
	243					Not Required		
	244							
	245	**Subtotal: Ceiling Finishes**						
	246						$0	
	247	**Interior Glass & Glazing**						
	248							
	249	Interior Glass & Glazing						
	250				Not Require			
	251	**Subtotal: Interior Glass & Glazing**						
	252						$0	
	253	**Millwork**						
	254							
	255	Millwork						
	256				Not Require			
	257	**Subtotal: Interior Millwork**						
	258						$0	
	259	***Specialties***						
	260							
	261	Handrails at Ramps	600	LF	150.00	$90,000		
	262							
	263	**Subtotal: Specialties**						
	264						$90,000	
	265	**Historic Connector**						
	266							
	267	Historic Connector						
	268	Clean & Repair	5,000	SF	$22.00	$110,000		
	269							
	270	**Subtotal: Historic Connector**						
	271						$110,000	
	272	**INTERIOR PARTITIONS & FINISHES**						
	273							**$512,000**
	274	**VERTICAL TRANSPORTATION**						
	275							
	276	**Elevators**						
S	A21 277	2 stop holeless hydraulic, 2500# passenger, 19' travel (EL8)	1	EA	200,000.00	200,000		
	278							
	279	**Subtotal: Elevators**						
	280						$200,000	

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Building Area: 8,830 GSF

	Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
					$	$	$	$
	281	**Escalators and Moving Walks**						
	282							
V	A206 283	Moving Walks - East Direction; 148' travel; 40" wide				Not Required		
	284	Moving Walks - West Direction				Not Required		
	285	Historic Connector						
	286	Clean & Repair	150	LF	1,000.00	150,000		
	287							
	288	**Subtotal: Escalators and Moving Walks**					$150,000	
	289							
	290	**VERTICAL TRANSPORTATION**						$350,000
	291							
	292	**SPECIAL EQUIPMENT**						
	293							
	294	N/A			Not Required			
	295							
	296	**SPECIALITIES**						$0
	297							
	298	**EQUIPMENT & FURNISHINGS**						
	299							
	300	**Furnishings**						
	301							
	302	Excluded						
	303							
	304	**Subtotal: Furnishings**					$0	
	305							
	306	**Artwork**						
	307							
	308	Excluded						
	309							
	310	**Subtotal: Artwork**					$0	
	311							
	312	**EQUIPMENT & FURNISHINGS**						$0
	313							
	314	**BAGGAGE HANDLING SYSTEM**						
	315							
	316	N/A			Not Required			
	317							
	318	**BAGGAGE HANDLING SYSTEM**						$0
	319							
	320	**SPECIAL CONSTRUCTION**						
	321							
	322	N/A						

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	Rank		Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
		323				$	$	$	$
		324	**SPECIAL CONSTRUCTION**						$0
		325							
		326	**PLUMBING**						
		327							
		328	**Fixtures and Specialties (Based on Plumbing Dwgs)**				Not Included		
		329							
		330	**Subtotal: Fixtures & Specialties**					$0	
		331							
		332	**Domestic Water Distribution**				Not Included		
		333	Domestic Water System Equipment						
		334	Domestic Cold Water System						
		335	Domestic Hot Water System						
		336	Domestic Water Piping (Hot & Cold)						
		337							
		338	**Subtotal: Domestic Water Distribution**					$0	
		339							
		340	**Sanitary Drainage**				Not Included		
		341	Sanitary Drainage Equipment						
		342	Sanitary Vent & Drainage Piping						
		343							
		344	**Subtotal: Sanitary Drainage**					$0	
		345							
		346	**Storm Drainage**						
		347	Storm Drainage Equipment						
V	A206	348	Roof Drains (6"- 8")	13	EA	$750.00	$10,000		
		349	Area Drains (4")				Not Included		
		350	Overflow Drains				Not Included		
		351	Syphonic Roof Drain System				Not Included		
		352	Storm Drainage Piping						
V	A206	353	Below ground - 4" - 6"	130	LF	$60.00	$8,000		
		354	Below ground - 8" -12"				Not Included		
V	A206	355	Aboveground - 4"	650	LF	$70.00	$46,000		
		356	Aboveground - 6"				Not Included		
		357	Aboveground - 8"				Not Included		
		358	Insulation for Horizontal Piping				Not Included		
		359	Expansion Joints				Not Included		
V	A206	360	Cleanouts	1	LS	$5,000.00	$5,000		
		361	Overflow Drainage Piping				Not Included		
		362	Stainless Steel Piping				Not Included		
		363							
		364	**Subtotal: Storm Drainage**					$69,000	

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Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
365				$	$	$	$
366	**Natural Gas Piping**						
367					Not Included		
368	**Subtotal: Natural Gas Piping**						
369						$0	
370	**Equipment Hook-ups**						
371					Not Included		
372	**Subtotal: Equipment Hook-ups**						
373						$0	
374	**Site Utilities (up to 5' outside of building)**						
375	Storm Lines To Building						
376					w/Site Utilities		
377	**Subtotal: Site Utilities**						
378						$0	
379	**Food Service Fit-Out**						
380					Not Included		
381	**Subtotal: Food Service Fit-Out**						
382						$0	
383	**Miscellaneous**						
384	Historic Connector						
385	Clean & Repair	5,000	SF	$4.00	$20,000		
386							
387	**Subtotal: Miscellaneous**						
388						$20,000	
389	**PLUMBING**						
390							$89,000
391	**FIRE PROTECTION**						
392							
393	**Equipment & Accessories**						
394					Not Included		
395	**Subtotal: Equipment & Accessories**						
396						$0	
397	**Fire Standpipe System**						
398	Fire Standpipe Risers & Main Piping (6")	225	LF	$80.00	$18,000		
399	Siamese Connections				Not Included		
400	Fire Hose Racks/Cabinets	1	EA	$2,000.00	$2,000		
401	Misc. Valves & Specialties	1	LS	$5,000.00	$5,000		
402	Roof Manifold				Not Included		
403							
404	**Subtotal: Fire Standpipe System**						
405						25,000	
406							
407	**Wet System Sprinkler Piping & Heads**						

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Building Area: 8,830 GSF

	Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
					$	$	$	$
	408	Sprinkler Main Piping - Horizontal from Local Pipe (4"-6")	100	LF	$80.00	$8,000		
	409	Arrival Level						
	410	SP Zone XX						
V	A206 411	Alarm Control Valve Assembly (ACV) (4")				Not Required		
	412	Sprinkler Heads	120	EA	$375.00	$45,000		
	413	Sprinkler Main Piping (4")	250	LF	$50.00	$13,000		
	414	Drain Piping (2")	100	LF	$35.00	$4,000		
	415	Sprinkler Branch Piping				Included		
	416	Misc. Valves & Specialties	1	LS	$10,000.00	$10,000		
	417							
	418	**Subtotal: Wet System Sprinkler Piping & Heads**						
	419						$80,000	
	420	**Dry Systems**						
	421					Not Included		
	422	**Subtotal: Dry Systems**						
	423						$0	
	424	**PreAction Systems**						
	425					Not Included		
	426	**Subtotal: PreAction Systems**						
	427						$0	
	428	**Deluge Systems**						
	429					Not Included		
	430	**Subtotal: Deluge Systems**						
	431						$0	
	432	**Specialty Systems**						
	433					Not Included		
	434	**Subtotal: Specialty Systems**						
	435						$0	
	436	**Miscellaneous**						
	437	Independent (3rd party) Commissioning Agent				By Owner		
	438	Work with Owner Furnished Commissioning Agent				Included		
	439	Hydraulic Calculations, Layout & Shop Drawings				Included		
	440	As-Built Drawings, O&M Manuals & Warranty				Included		
	441	System Identification				Included		
	442	Controlled Inspections				Included		
	443	Controls & Control Wiring				Included		
	444	Pressure Testing & Flushing of Piping				Included		
	445	Equipment Startup & Testing				Included		
	446	Core Drilling				Included		
	447	Fire Stopping				Included		
	448	Seismic Restraints & Vibration Isolation				Included		
	449	Rigging, Hoisting & Aerial Lifts				Included		

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Building Area: 8,830 GSF

Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
				$	$	$	$
450	Scaffolding				Included		
451	Job Trailers (Shanty) - Tool / Equip Storage				Included		
452	Heat Tracing (Furnish) w/Insulation & Aluminum Jacketing				Included		
453	Drip Pans				Included		
454	Attic Stock				Included		
455	*Temporary Standpipe system*				Use Permanent System		
456	Temporary Fire Protection				Use Permanent System		
457	Standby Labor & Fire Watch				Not Included		
458	Detectors (Heat & Smoke)				w/Electrical		
459	Fire Alarm & Control Wiring				w/Electrical		
460	Trenching/Excavation/Backfill				w/Foundations		
461	Concrete Equipment Pads				w/Concrete		
462	Painting				w/Painting		
463	Roof Work				w/Roofing		
464	Concession Areas Fit-out				Not Included		
465	Overtime				Not Included		
466							
467	Historic Connector						
468	Clean & Repair	5,000	SF	$3.00	$15,000		
469	**Subtotal: Miscellaneous**					$15,000	
470							
471	**FIRE PROTECTION**						$120,000
472							
473	**H.V.A.C.**						
474							
475	**H.V.A.C.**						
476	**Heating & Cooling Plant**						
477							
478	**Heating Plant**				Not Included		
479							
480	**Subtotal: Heating Plant**					$0	
481							
482							
483	**Heating Equipment**						
484	HW Cabinet Unit Heater w/ Integral Controls	2	EA	$3,500.00	$7,000		
485							
486	**Subtotal: Heating Equipment**					$7,000	
487							
488							
489	**Cooling Plant**				Not Included		
490							
491	**Subtotal: Cooling Plant**					$0	
492							

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		Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
						$	$	$	$
		493							
		494	**Piping Distribution**						
		495							
		496	Hot Water Piping (Mains & Risers)				Not Included		
		497	Glycol Hot Water Piping (Mains & Risers)				Not Included		
V	A206	498	Glycol Hot Water Piping (Secondary Mains & Branches)				Not Required		
V	A206	499	1-1/2" - 4"				Not Required		
V	A206	500	Piping Insulation				Not Required		
V	A206	501	Valving & Misc. specialities				Not Required		
V	A206	502	Chilled Water Piping (Mains & Risers)				Not Required		
V	A206	503	Chilled Water Piping (Secondary Mains & Branches)				Not Required		
V	A206	504	1-1/2" - 4"				Not Required		
V	A206	505	Piping Insulation				Not Required		
V	A206	506	Valving & Misc. specialities				Not Required		
V	A206	507	Gylcol Condenser Water Piping				Not Included		
V	A206	508	Condensate Drain Line				Not Included		
		509							
		510	**Subtotal: Piping Distribution**					$0	
		511							
		512							
		513	**Air Distribution**						
		514							
V	A206	515	Air Handling Unit [AHU-38] [North Flight Tube]				Not Required		
V	A206	516	Supply Fan				Not Required		
V	A206	517	Variable Frequency Drive (25 HP)				Not Required		
V	A206	518	Air to Air Heat Exchanger				Not Required		
V	A206	519	Copper Tube/Aluminum Fins				Not Required		
V	A206	520	Hot Water Pre-Heating Coil				Not Required		
V	A206	521	Hot Water Heating Coil				Not Required		
V	A206	522	Chilled Water Cooling Coil				Not Required		
V	A206	523	Pre & Final Filters				Not Required		
V	A206	524	Carbon Filters				Not Required		
V	A206	525	Sound Traps				Not Required		
V	A206	526	Humidification				Not Required		
V	A206	527	Return Fan				Not Required		
V	A206	528	Variable Frequency Drive (10 HP)				Not Required		
V	A206	529	Galvanized Ductwork	9,800	LBS	$8.50	$83,000		
V	A206	530	Acoustic Lining & Thermal Insulation	6,533	SF	$3.50	$23,000		
V	A206	531	Volume Dampers				Not Required		
V	A206	532	VAV Boxes				Not Required		
V	A206	533	Reheat Coils				Not Required		
V	A206	534	Air Flow Measuring Station				Not Required		
V	A206	535	Motorized Dampers	16	SF	$95.00	$2,000		

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Building Area: 8,830 GSF

	Rank		Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
						$	$	$	$
V	A206	536	Fire Smoke Dampers	0	SF	$350.00	$0		
V	A206	537	Fire Dampers	24	SF	$120.00	$3,000		
V	A206	538	Grilles Registers & Diffusers	0	EA	$175.00	$0		
V	A206	539	Jet Nozzle Diffusers	0	EA	$200.00	$0		
V	A206	540	Linear Diffusers	240	LF	$100.00	$24,000		
V	A206	541	Louvers	64	SF	$80.00	$5,000		
V	A206	542	Connections to Existing Ductwork in Saarin Building	1	ALLOW	$10,000.00	$10,000		
		543	Fan Coil Units				Not Included		
		544							
		545	**Heating & Ventilating Units**				Not Included		
		546							
		547	**Subtotal: Air Distribution**					$150,000	
		548							
		549							
		550	**Supplemental A/C Systems**				Not Included		
		551							
		552	**Subtotal: Supplemental AC Systems**					$0	
		553							
		554							
		555	**Ventilation**				Not Included		
		556							
		557	**Subtotal: Ventilation**					$0	
		558							
		559							
		560	**Concession Exhaust**				Not Included		
		561							
		562	**Subtotal: Concession Exhaust**					$0	
		563							
		564							
		565	**Equipment Connections**						
		566							
V	A206	567	AHU Connection				Not Required		
		568							
		569	**Subtotal: Equipment Connections**					$0	
		570							
		571							
		572	**Emergency Generator System**				w/ Electrical		
		573							
		574	**Subtotal: Emergency Generator System**					$0	
		575							
		576							
		577	**Fuel Oil System for Generators**						
		578					w/ Electrical		

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Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
				$	$	$	$
579	**Subtotal: Fuel Oil System for Generators**					$0	
580							
581							
582	**Temporary Heating & Cooling Programs**						
583					w/ General Conditions		
584	**Subtotal: Temporary Heating & Cooling Programs**					$0	
585							
586							
587	**Automatic Temperature Controls**				w/ Building		
588	DDC Temperature Control System						
589							
590	**Subtotal: Automatic Temperature Controls**				-	$0	
591							
592	**Testing & Balancing**						
593	Building	8,830	SF	$0.15	$1,000		
594							
595	**Subtotal: Testing & Balancing**					$1,000	
596							
597	**Seismic & Vibration Isolation**						
598	Building	8,830	SF	$0.25	$2,000		
599							
600	**Subtotal: Seismic & Vibration Isolation**					$2,000	
601							
602	**Miscellaneous**						
603	Independent (3rd party) Commissioning Agent				By Owner		
604	Work with Owner Furnished Commissioning Agent				Included		
605	Engineering & Layout				Included		
606	As-Built Drawings & O&M Manuals				Included		
607	System Identification				Included		
608	Scaffolding (for pipe/duct/devices controlled by this trade)				Included		
609	Rigging & Hoisting				Included		
610	Startup & Test				Included		
611	Warranty				Included		
612	Heat Tracing - Chilled Water - Furnish Only				Included		
613	Factory Testing of one new AHU				Included		
614	Fire Alarm/Life Safety				w/Electrical		
615	Motor Control Centers				w/Electrical		
616	Overtime				Not Included		
617	Painting of Ductwork/Piping				w/Painting		
618	Roof Work				w/Roofing		
619	Historic Connector						
620	Clean & Repair	5,000	SF	$15.00	$75,000		
621							

JetBlue Terminal 5
JFK Airport New York, New York
60% CD Estimate
April 20, 2005

North& South Flight Tube

Building Area: 8,830 GSF

		Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
						$	$	$	$
		622	**Subtotal: Miscellaneous**					$75,000	
		623							$235,000
		624	**H.V.A.C.**						
		625							
		626	**ELECTRICAL**						
		627							
		628	**Service & Power Distribution**						
		629	Service & Distribution	1,406	GSF	$18.50	$26,000		
		630							
		631	**Subtotal: Service & Power Distribution**					$26,000	
		632							
		633	**Lighting**						
V	A206 E75/A20		Lighting - Allowance for New Area to Match Existing	1,406	GSF	$6.00	$8,000		
S/V	6 E75/A20		Zone 14						
S/V	6 E75/A20		FAC				Not Required		
S/V	6 E75/A20		FAD				Not Required		
S/V	6 E75/A20		Zone 15						
S/V	6 E75/A20		FAC				Not Required		
S/V	6 E75/A20		Allowance for Lighting Now Shown						
S/V	6 E75/A20		Zone 14				Not Required		
S/V	6 E75/A20		Zone 15				Not Required		
S/V	6 E75/A20		Miscellaneous						
S/V	6 E75/A20		Conduit & Wire				Not Required		
S/V	6 E75/A20		Exit Lights				Not Required		
S/V	6		Site Lighting				Not Included		
		634							
		635							
		636	**Subtotal: Lighting**					$8,000	
		637							
		638	**Lighting Controls**						
		639					Not Shown		

JetBlue Terminal 5
JFK Airport New York, New York
60% CD Estimate
April 20, 2005

North& South Flight Tube Building Area: 8,830 GSF

Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
				$	$	$	$
640	**Subtotal: Lighting Controls**					$0	
641							
642	**Convenience Power**						
643					Not Shown		
644	**Subtotal: Convenience Power**					$0	
645							
646	**Equipment Connections**						
647	Equipment Connections	8,830	GSF	$0.25	$2,000		
648							
649	**Subtotal: Equipment Connections**					$2,000	
650							
651	**Telecommunications**						
652	Telecom	8,830	GSF	$3.50	$31,000		
653	Information Systems	8,830	GSF	$5.00	$44,000		
654	PA System	8,830	GSF	$2.25	$20,000		
655							
656	**Subtotal: Telecommunications**					$95,000	
657							
658	**Fire Alarm System**						
659							
660	**Subtotal: Fire Alarm System**					$0	
661							
662	**Security System**						
663	CCTV & Access Control	8,830	GSF	$10.00	$88,000		
664							
665	**Subtotal: Security System**					$88,000	
666							
667	**Grounding System**						
668					Not Shown		
669	**Subtotal: Grounding Systems**					$0	
670							
671	**Lightening Protection System**						
672					Not Shown		
673	**Subtotal: Lightening Protection Systems**					$0	
674							
675	**Temporary Power & Light**						
676					Not Shown		
677	**Subtotal: Temporary Power & Light**					$0	
678							
679	**Metering System**						
680					Not Shown		
681	**Subtotal: Metering System**					$0	

JetBlue Terminal 5
JFK Airport New York, New York
60% CD Estimate
April 20, 2005

North& South Flight Tube Building Area: 8,830 GSF

	Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
					$	$	$	$
		Miscellaneous						
		Historic Connector						
		Clean & Repair	5,000	SF	$10.00	$50,000		
		Subtotal: Miscellaneous					$50,000	
		ELECTRICAL						$269,000
		DEMOLITION						
		Whole Building demolition						
V	A206	Demolish existing flight tube				w/ Terminal/Concourse		
		Subtotal: Whole Building Demolition					$0	
		DEMOLITION						$0
		SITE WORK						
		See "Landside Civils"						
		SITE WORK						$0
		SITE UTILITIES						
		See "Landside Civils"						
		SITE UTILITIES						$0
		FUELING SYSTEMS						
		N/A			Not Required			
		FUELING SYSTEMS						$0
		TOTAL DIRECT COST				$4,324,920	$4,324,920	$4,324,920

Section 1.2

Parking Garage

jetBlue AIRWAYS

JFK International Airport Terminal 5 Redevelopment

Parking Garage – Conceptual Estimate #5

November 7, 2005

Turner

THE PORT AUTHORITY OF NEW YORK AND NEW JERSEY
JOHN F. KENNEDY INTERNATIONAL AIRPORT

Stage 2 Construction Trade Cost Estimate

EXHIBIT 2.11 Part 2 of 2

TERMINAL 5 - PARKING GARAGE - COMPARISON OF TCCO ESTIMATES TO PA ESTIMATE

DIRECT COSTS ONLY

BUILDING SYSTEM	TCCO ESTIMATE #5 REVISED	PA ESTIMATE
HOISTING AND PROTECTION	0	0
CIVIL - SANITARY	W / Underground Utilities	262,300
CIVIL - WATER	W / Underground Utilties	1,052,500
CIVIL - STORM DRAINAGE	W / Underground Utilities	282,900
CIVIL - MISCELLANEOUS	W / Undergroung Utilities	88,750
EXCAVATIONS	1,065,500	W / TRADES
PILES	4,039,900	3,042,550
FOUNDATIONS	3,277,100	1,738,600
PRECAST CONCRETE STRUCTURE	16,294,000	15,743,300
STRUCTURAL CONCRETE	480,000	0
UNIT MASONRY	250,000	150,000
Metal Screen Wall	Not Included	2,377,200
MISCELLANEOUS METALS	1,610,000	1,012,000
WATERPROOFING / ROOFING	280,500	235,000
JOINT SEALERS	50,000	w/ TRADES

TERMINAL 5 - PARKING GARAGE - COMPARISON OF TCCO ESTIMATES TO PA ESTIMATE

DIRECT COSTS ONLY

BUILDING SYSTEM	TCCO ESTIMATE #5 REVISED	PA ESTIMATE
FIREPROOFING	5,000	w/ TRADES
DOORS & HARDWARE	60,000	200,000
ENTRANCE & STOREFRONT	1,216,000	1,325,000
ROUGH CARPENTRY	4,000	w / TRADES
PAINTING	279,500	300,000
SPECIALTIES	287,500	644,000
VERTICAL TRANSPORTATION	1,900,000	1,900,000
PLUMBING	1,400,000	1,043,150
FIRE PROTECTION	0	W / Above
HVAC	200,000	600,000
ELECTRICAL	6,423,800	7,315,000
DEMOLITION	In Excavation	In Excavation
SUBTOTAL - DIRECT COST	**39,122,800**	**39,312,250**
ALTERNATES		
ALT. #1 - TOLL BOOTHS	3,400,700	1,885,600
ALT. #2 - ROADWAYS	3,408,000	2,113,950
ALT. #3 - BRIDGE TO AIR TRAIN	345,900	400,000
ALT. #4 - EXTERIOR RAMPS	3,512,700	2,765,000
ALT. #5 - SITE PROTECTION (DIRECT COST)	403,200	NOT INCLUDED
ALT #6 - ASPHALT IN LIEU OF CONCRETE SOG	(1,003,000)	W / BASE

TERMINAL 5 - PARKING GARAGE - COMPARISON OF TCCO ESTIMATES TO PA ESTIMATE

DIRECT COSTS ONLY

BUILDING SYSTEM	TCCO ESTIMATE #5 REVISED	PA ESTIMATE
ALT #7 - ADD METAL PANEL	NOT INCLUDED	W / BASE
SUBTOTAL - DIRECT COST OF ALTERNATES	10,067,500	7,164,550
PA REQUIRED ALLOWANCES		
SIGNAGE - PA ALLOWANCE	700,000	W / TRADES
UNDERGROUND UTILITIES - PA ALLOWANCE - See note #2	6,200,000	2,000,000
LANDSCAPING - PA ALLOWANCE	500,000	1,500,000
EQUIPMENT, RCS - PA ALLOWANCE	1,200,000	1,200,000
ENTRANCE CANOPY & ROOF TOP SKYLIGHT - PA ALLOW.	400,000	W / TRADES
SUBTOTAL - DIRECT COST OF PA REQUIRED ALLOWANCES	9,000,000	4,700,000
TOTAL - DIRECT COST	**58,190,300**	**51,176,800**
PARKING GARAGE GSF	540,000 GSF	GSF
NUMBER OF PARKING SPACES	1,552 EACH	GSF

Note #1 : The above total indicates direct costs only. This total does not include any indirect costs (i.e. construction contingency, subcontractor bonds, payment and performance bond, general liabilitiy insurance, general conditions, fee, etc...). The indirect costs will be added at a later time.

Note #2: The "Underground Utility - PA Allowance" is based on the PANY/NJ estimate. The design team has looked at relocating underground utilities and also removing underground utilities. On November 2, 2005 Jetblue and the PA decided to remove most of the underground utilities from the foundation. For budgeting purposes the PA and Jetblue decided to keep the $6,200,000 allowance for this removal, but this price is not based drawings, but is only a JetBlue and PA allowance. ARUP developed sketches on the underground utilities and issued them on 9/14/05, but these sketches do not account for complete removals / relocations of underground utilities. TCCO recommends that drawings be issued on the removal and relocation of underground utilities, so that this allowance can be based on real information.

JFK Terminal 5 Parking Garage - Conceptual Estimate #5

Narrative

Estimate

T:\NY\Estimating\estfiles\13600\13627 Jet Blue Terminal 5\Garage\[Jet Blue Garage 051107 direct cost only.xls]NARRATIVE

Narrative

Estimate #5 Is based on ARUP sketches given to TCCO on October 25, 2005. This is a (6) six story, 540,000 GSF parking structure with 1,548 parking spaces. The design team requested that this estimate include underground utilities (as documented in qualifications), toll booths, toll plazas, exterior ramps, bridge to LRS, and roadwork. Please see qualifications for list of ARUP documents.

PARKING GARAGE - ESTIMATE #3 - REVISED

JFK Terminal 5 Parking Garage - Conceptual Estimate #5
BASE ESTIMATE - PARKING GARAGE

BUILDING SYSTEM	Current System Totals
HOISTING AND PROTECTION	$0
EXCAVATIONS	$1,065,500
PILES	$4,039,900
FOUNDATIONS	$3,277,100
PRECAST CONCRETE STRUCTURE	$16,294,000
STRUCTURAL CONCRETE	$480,000
UNIT MASONRY	$250,000
MISCELLANEOUS METALS	$1,610,000
WATERPROOFING / ROOFING	$280,500
JOINT SEALERS	$50,000
FIREPROOFING	$5,000
DOORS & HARDWARE	$60,000
ENTRANCE & STOREFRONT / INTERIOR GLAZING	$1,216,000
ROUGH CARPENTRY / DRYWALL / CEILINGS	$4,000
PAINTING	$279,500
SPECIALTIES	$287,500
VERTICAL TRANSPORTATION	$1,900,000
PLUMBING	1,400,000
FIRE PROTECTION	0
H.V.A.C.	$200,000
ELECTRICAL	$6,423,800
DEMOLITION	In Excavation
TOTAL: DIRECT COST	$39,122,800

BUILDING SYSTEM	Current System Totals

construction contingency, subcontractor bonds, payment and performance bond, general liability insurance, general conditions, fee, etc....). The indirect cost

	BUILDING SYSTEM	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals	G.S.F. CARS % of Total
1	**HOISTING AND PROTECTION**							
2	**Hoisting**							
3	Parking Garage							
4	Dual Cage Combination Personnel Hoist With 6000 Pound Capacit	Not Included			Not Included			
5	Base Mobilization	Not Included			Not Included			
6	Erect & Dismantle	Not Included			Not Included			
7	Rental	Not Included			Not Included			
8	Serve 9 Stops	Not Included			Not Included			
9	Standard Ties To Spandrel Beam	Not Included			Not Included			
10	Outside Double Doors	Not Included			Not Included			
11	Loading Dock W/ Overhead Protection & Ramp	Not Included			Not Included			
12	Base Fence Enclosure Around Hoist	Not Included			Not Included			
13	Engineered Drawings & Building Department Permits For Personn	Not Included			Not Included			
14	Maintenance	Not Included			Not Included			
15	Jumps	Not Included			Not Included			
16	Electrical Transformer	Not Included			Not Included			
17	Electrical Hook Ups	Not Included			Not Included			
18	Base Concrete Pads	Not Included			Not Included			
19	Hoist Labor	Not Included			Not Included			
20	*Operating Engineer*	Not Included			Not Included			
21								
22	**Subtotal: Hoisting**					$0		
23								
24	**Protection**							
25								
26	Sidewalk Bridge, out riggers at Air Train exposure	1,120	LF	150.00	See Add Alternate			
27	Lighting				Included			
28	Maintenance				Included			
29								
30	**Subtotal: Protection**					See Add Alternate		
31								
32	**HOISTING AND PROTECTION**						$0	0.00%
33								
34	**EXCAVATIONS**							
35								
36	**Site Preparation**							
37	Remove existing asphalt parking area Clear & Grub Site	103,000	SF	1.25	$128,800			
38	Erosion Control	1	LS	10,000.00	$10,000			
39	Silt Fence	2,400	LF	6.00	$14,400			
40	Miscellaneous Site Demo	1	LS	5,000.00	$5,000			
41								
42	***Subtotal: Site Preparation***					*$158,200*		
43								
44	**Site Fence**							
45	Site Fence - Chain Link With Mesh Screen	2,500	LF	$90	$225,000			
46	Gates	2	PR	$10,000	$20,000			
47								
48	**Subtotal: Site Fence**					$245,000		
49								
50	**Earthwork**							
51	Site Survey	20	Crew Days	1,500.00	$30,000			
52	Mobilize	1	LS	10,000.00	$10,000			
53	Layout	1	LS	*5,000.00*	*$5,000*			
54	Excavation - Column Footings							
55	Excavate and cart soil	250	CY	60.00	$15,000			
56	Backfill	63	CY	75.00	$4,700			
57	Excavation - Slab							
58	Excavate and cart soil	4,769	CY	60.00	$286,100			
59	Backfill	954	CY	75.00	$71,500			
60	**Excavation & Backfill - Understab Utilities**	2,500	LF	60.00	$150,000			
61	**Dewatering**	1	LS	50,000.00	$50,000			
62								
63	**Subtotal: Earthwork**					$622,300		
64								
65	**Pits**							
66	Elevator Pit excavation	4	LOC	10,000.00	$40,000		W / Precast Concrete Structure	
67	Sump Pits			Included above				
68								
69	***Subtotal: Pits***					*$40,000*		
70								
71								
72	**EXCAVATIONS**						$1,065,500	2.20%
73								
74	**PILES**							
75								
76	200 Ton Capacity Monotube Piles - 82 locations							
77	Average 70 LF, 18" Dia. - Total of 492 Piles	51,660	LF	60.00	$3,099,600			
78	Concrete for Piles	1,913	CY	400.00	$765,300			
79	Cut Excess Piles& Remove From Site	Included above		Included above	Included above			
80	*Index Piles*	*Included above*		*Included above*	*Included above*			
81	Static Load Tests	3	LS	25,000.00	$75,000			
82	Lateral Test	Included above		Included	Included above			
83	Dynamic Testing	Included above		Included	Included above			
84	Concrete Testing	Included above		Included	Included above			
85	Mobilization Of Rigs	1	LS	20,000.00	$20,000			
86	Layout & Resurvey	Included above		Included	Included above			
87	Splice For Piles	Included above			Included above			
88	Allowance for Underground Obstructions	1	LS	80,000.00	$80,000			
89								
90	**Subtotal: Piles**					$4,039,900		
91								
92	**PILES**						$4,039,900	8.35%

	BUILDING SYSTEM	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals	G.S.F. CARS % of Total
93								
94	**FOUNDATIONS**							
95								
96	**Foundations**							
####	Pile Caps	548	CY	1,050.00	$575,600			
####	Reinforcing Steel & Dowels For Pile Caps	Included above		Included above	Included above			
####								
####	**Subtotal: Foundations**					$575,600		
####								
####	**Pits**							
####	Elevator Pits	4	Each	10,000.00	$40,000			
####	Sump Pits	4	Each	Included				
####	Mechanical Pits	Not Included	Each	Not Included	Not Included			
####								
####	**Subtotal: Pits**					$40,000		
####								
####	**Slab-On-Grade**							
####	8" S.O.G. over Tie Beams (see above)	90,000	SF	22.00	$1,980,000			
####	Reinforcing At Slab	Included above	LBS	Included above	Included above			
####	Reinforced Wire Mesh	Included above		Included above	Included above			
####	6" Gravel Base	Included above		Included above	Included above			
####	Crane Pad and hoist pads	1	LS	20,000.00	$20,000			
####								
####	**Subtotal: Slab-On-Grade**					$2,000,000		
####								
####	**Waterproofing**							
####	Pit walls / slabs	8	EA	3,000.00	$24,000			
####	Slab waterproofing	90,000	SF	5.00	NOT REQUIRED			
####	Membrane / Sealer	425,000	SF	1.50	$637,500			
####								
####	**Subtotal: Waterproofing**					$661,500		
####								
####	**FOUNDATIONS**						$3,277,100	6.78%
####								
####	**PRECAST CONCRETE STRUCTURE**							
####								
####	Furnish and Install all Precast Parking Structure Components	450,000	GSF	33.00	$14,850,000			
####	Stairs	Included			Included			
####	Exterior façade - rustication, pigments	38,000	GSF	38.00	$1,444,000			
####	Pretopped Double Tees, Inverted Tee Girders	Included			Included			
####								
####	**Subtotal: Precast Concrete Structure**					$16,294,000		
####								
####	**PRECAST CONCRETE STRUCTURE**						$16,294,000	33.69%
####								
####	**STRUCTURAL CONCRETE**							
####								
####	**Cast In Place Concrete**							
####								
####	Provide pads and curbs	6	LEVELS	80,000.00	$480,000			
####								
####	**Subtotal: Cast in Place Concrete**					$480,000		
####								
####	**STRUCTURAL CONCRETE**						$480,000	0.99%
####								
####	**UNIT MASONRY**							
####								
####	**Interior Masonry Partitions**							
####	Parking Garage							
####	CMU partitions at Elevator Machine rooms, MEP rooms	6	LOCS	41,666.67	250,000			
####	Stair bulkheads - Excluded per PA / jetBlue Direction				EXCLUDED			
####								
####	**Subtotal: Interior Masonry Partitions**					$250,000		
####								
####	**UNIT MASONRY**						$250,000	0.52%
####								
####	**MISCELLANEOUS METALS**							
####								
####	Stair railings inside	720	LF	100.00	$72,000			
####	Misc. ladders	4	LS	2,500.00	$10,000			
####	Sill angles	15	FLRS	1,600.00	$24,000			
####	Smoke hole grating	4	EA	1,000.00	$4,000			
####	Miscellaneous Items	510,000	SF	1.00	$510,000			
####	Railing at structure exterior	9,800	LF	100.00	$980,000			
####	Miscll/ gratings	1	LS	10,000.00	$10,000			
####								
####	**Subtotal: Miscellaneous Iron**					$1,610,000		
####								
####								
####	**MISCELLANEOUS METALS**						$1,610,000	3.33%
####								
####	**WATERPROOFING / ROOFING**							
####								
####	**Roof**							
####	Parking Garage at Stair towers							
####	2 Ply Modified Bituminous Membrane	1,200	SF	25.00	$30,000			
####	Premium for flashings at steel supports and mech.	1	LS	3,000.00	$3,000			

BUILDING SYSTEM	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals	G.S.F. CARS % of Total
####							
#### Subtotal: Roof					$33,000		
####							
#### Waterproofing							
####							
#### Traffic Topping / Membrane at roof	90,000	SF	2.75	$247,500			
####							
#### Subtotal: Waterproofing					$247,500		
####							
#### WATERPROOFING / ROOFING						$280,500	0.58%
####							
#### JOINT SEALERS							
####							
#### Sealants							
#### Caulking at Doors and Installations	1	ALLOW	50,000.00	$50,000			
####							
####					$50,000		
#### JOINT SEALERS						$50,000	0.10%
####							
#### FIREPROOFING							
####							
#### Fireproofing	1	ALLOW	5,000.00	$5,000			
####							
####					$5,000		
#### FIREPROOFING						$5,000	0.01%
####							
#### DOORS & HARDWARE							
####							
#### Exterior Doors & Hardware							
#### Parking Garage							
#### HM Doors / Frames/ Hardware							
#### *Public Doors*							
#### Flush HM w/Vision Panel (3'-0" x 7'-0")	1	ALLOW	60,000.00	$60,000			
####							
#### Subtotal: Exterior Doors & Hardware					$60,000		
####							
#### DOORS & HARDWARE						$60,000	0.12%
####							
#### ENTRANCE & STOREFRONT / INTERIOR GLAZING							
####							
#### Entrances and Storefronts							
####							
#### *Curtain wall at elevator shaftway*	12,800	SF	95	$1,216,000			
####							
#### Subtotal:					$1,216,000		
####							
#### ENTRANCE & STOREFRONT / INTERIOR GLAZING						$1,216,000	2.51%
####							
#### ROUGH CARPENTRY / DRYWALL / CEILINGS							
####							
#### Doors & Hardware (Installation Only)							
####							
#### Exterior Doors & Hardware							
#### Parking Garage							
#### HM Doors (Install Only)							
#### Public Doors	1	LS	4,000.00	$4,000			
####							
#### Subtotal: Doors & Hardware (Install Only)					$4,000		
####							
#### OSHA Safety / Protection							
#### Perimeter Safety Protection	1	LS	44,800.00	See Add Alternate			
#### Temporary Rails @ Stairs	1	Allow	15,000.00	See Add Alternate			
#### Removable Protection @ Elevator Shafts	1	Allow	7,500.00	See Add Alternate			
#### Floor Slab Openings	1	Allow	12,000.00	See Add Alternate			
####							
#### Subtotal: OSHA Safety / Protection					See Add Alternate		
####							
####							
#### ROUGH CARPENTRY / DRYWALL / CEILINGS						$4,000	0.01%
####							
#### PAINTING							
####							
#### Miscellaneous Painting							
#### Ptd. Railings - stair and roof	720	LF	4.00	$2,900			
#### Railings at exterior	9,800	LF	4.00	$39,200			
#### Line Striping	1,678	LOC	65.00	$109,100			
#### Elevator Pit Ladders	4	EA	75.00	$300			
#### MEP Color Coding	1	LS	10,000.00	$10,000			
#### MEP Pipe & Hangers	1	LS	10,000.00	$10,000			
#### Switchgear and Panelboards	Not Included		Not Included	Not Included			
#### *MEP Factory Primed Equip. & Tanks*	Not Included		Not Included	Not Included			
#### Miscellaneous Painting	540,000	SF	0.20	$108,000			
####							
#### Subtotal: Miscellaneous Painting					$279,500		
####							
#### PAINTING						$279,500	0.58%
####							
#### SPECIALTIES							
####							
#### Building Identification	540,000	SF	0.50	270,000			
#### Misdl. Specialties	1	ALLOW	15,000.00	15,000			
####							
#### Subtotal: SPECIALTIES					$285,000		
####							

BUILDING SYSTEM	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals	G.S.F. CARS % of Total
####							
#### **Access Doors**							
#### Access Doors	1	ALLOW	2,500.00	$2,500			
####							
#### **Subtotal: Access Doors**					$2,500		
####							
#### **Parking Control Equipment**							
#### Parking Control Equipment				w / Alternate			
####							
#### **Subtotal: Parking Control Equipment**					w / Alternate		
####							
#### **SPECIALTIES**						$287,500	0.59%
####							
#### **VERTICAL TRANSPORTATION**							
####							
#### **Elevators**							
#### Parking Garage							
#### Traction elevators; 6000 lb, 350fpm							
#### Passenger Elevators - Glass Cabs							
#### Quantity		4	EA	475,000.00	$1,900,000		
#### Travel Distance		80	FT	-	Included		
#### Stops/Frames - Front		6	EA	-	Included		
#### 208V, 3 Phase	Included			Included	Included		
#### Openings - 3'x7'	Included			Included	Included		
#### Single Speed Side Opening Doors	Included			Included	Included		
#### Cab finishes - Base price includes - $10K Allow / CAB							
#### Controller	Included		EA	-	Included		
####							
#### **Subtotal: Elevators**					$1,900,000		
####							
#### **VERTICAL TRANSPORTATION**						$1,900,000	3.93%
####							
#### **PLUMBING**							
####							
#### Drainage	540,000		SF	$2.50	$1,350,000		
#### Sanitary and Potable Systems to accommodate employee needs	1		LS	$50,000.00	$50,000		
####							
#### Subtotal: Plumbing					$1,400,000		
####							
####							
#### **PLUMBING**						1,400,000	2.89%
####							
#### **FIRE PROTECTION**							
####							
#### Drypipe System	540,000		SF		Not Included		
####							
#### **Subtotal: Fire Protection**					$0		
####							
#### **FIRE PROTECTION**						0	0.00%
####							
#### **H.V.A.C.**							
####							
#### Ventilation at hoistways, electrical , generator rooms and EMR's	1		LS	$100,000.00	$100,000.00		
#### Heating at electrical substation and generator rooms	2		LOC	$7,000.00	$14,000.00		
#### HVAC units at tollbooths	8		LOC	$5,000.00	w / Toll Booths		
#### Condition Elevator cabs	4		EA	$15,000.00	$60,000.00		
#### Relocation of underground hot water and chilled water piping at foundations					W / Underground Utilities		
#### Miscellaneous	1		LS	$26,000.00	$26,000.00		
####							
#### **Subtotal: H.V.A.C.**					$200,000		
####							
#### **H.V.A.C.**						$200,000	0.41%
####							
#### **ELECTRICAL**							
####							
####							
#### Incoming Service							
#### 2 x 5Kv feeders from existing loop with duct bank - assume 200 LF	200		LF	1,875.00	$375,000.00		
#### Service & Distribution							
#### Substation, transformer, switchgear, grounding	1		LS	1,200,000.00	$1,200,000.00		
#### Distribution	1		LS	800,000.00	$800,000.00		
#### Emergency Power System							
#### Generator, Feeders, ATS	1		LS	380,000.00	$380,000.00		
#### Lighting							
#### *Exterior fluorescent lighting*	540,000		SF	3.00	$1,620,000.00		
#### Emergency lighting	1		LS	100,000.00	$100,000.00		
#### Lighting Controls	1		LS	100,000.00	$100,000.00		
#### Exterior Lighting	1		LS	100,000.00	$100,000.00		
#### Convenience Power	540,000		SF	0.12	$64,800.00		
#### Equipment Connections							
#### Elevators	4		EA	3,500.00	$14,000.00		
#### HVAC	10		EA	2,500.00	$25,000.00		
#### Telecommunications - Emergency phones	1		LS	450,000.00	$450,000.00		
#### Fire Alarm System	540,000		SF	1.25	$675,000.00		
#### Security System							
#### CCTV	1		LS	100,000.00	$100,000.00		
#### Lightning Protection System	540,000		SF	0.50	$270,000.00		
#### *Toll Plaza work*					W / Alt #1 - Toll Booths		
#### *Miscellaneous Electrical*	1		LS	150,000.00	*$150,000.00*		
####							
#### **Subtotal: Electric**					6,423,800		
####							
#### **ELECTRICAL**						$6,423,800	13.28%

Turner Construction Company
November 7, 2005
JFK Terminal 5 Parking Garage - Conceptual Estimate #5
BASE ESTIMATE - PARKING GARAGE

	BUILDING SYSTEM	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals	G.S.F. CARS % of Total
####								
####	**DEMOLITION**							
####	Demolition							
####				In Excavation				
####	Subtotal: Demolition					$0		
####								
####	**DEMOLITION**						In Excavation	
####								
####	***TOTAL: DIRECT COST***				**$39,122,800**	**$39,122,800**	**$39,122,800**	**80.89%**
####								
####								

Note: The above total indicates direct costs only. This total does not include any indirect costs (i.e. construction contingency, subcontractor bonds, payment and performance bond, general liability insurance, general conditions, fee, etc....). The indirect cost

ALTERNATE #1 - TOLL BOOTHS AND CANOPIES

Turner Construction Company

November 7, 2005

JFK Terminal 5 Parking Garage - Conceptual Estimate #5

ALTERNATE #1 - TOLL BOOTH CANOPY

Estimate

T:\NY\Estimating\estfiles\13600\13627 Jet Blue Terminal 5\Garage\[Jet Blue Garage 051107 direct cost only.xls]NARRATIVE

	BUILDING SYSTEM	Current System Totals
23	STRUCTURAL STEEL	214,688
24		
25		
34	UNIT MASONRY	$19,812
35		
45	MISCELLANEOUS METALS	$129,500
46		
69	WATERPROOFING / ROOFING	$326,040
70		
81	DOORS & HARDWARE	$3,100
82		
91	Exterior Wall	$49,530
92		
110	ROUGH CARPENTRY / DRYWALL / CEILINGS	$5,620
111		
132	WALL FINISHES	$22,402
133		
134		
147	SPECIALTIES	$861,400
148		
149		
163	PLUMBING	33,800
164		
171	FIRE PROTECTION	0
172		
183	H.V.A.C.	$9,800
184		
197	ELECTRICAL	$1,725,000
198		
199		
200	TOTAL: DIRECT COST	$3,400,700
201		
215		
216		

Note:

The above total indicates direct costs only. This total does not include any indirect costs (I.e. construction contingency, subcontractor bonds, payment and performance bond, general liability insurance, general conditions, fee, etc....). The indirect costs will be added to this estimate at a later time.

	BUILDING SYSTEM	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals	
1	STRUCTURAL STEEL							
2								
3	**Structural Steel**							
4	Entrance Canopy							
5	Columns	6	TONS	3,600.00	21,600.00			
6	Beams	26	TONS	3,600.00	93,600.00			
7	Connections	3	TONS	3,600.00	10,800.00			
8	Roof Deck	3,700	SF	3.75	13,875.00			
9								
10	Exit Canopy							
11	Columns	3	TONS	3,600.00	10,800.00			
12	Beams	13	TONS	3,600.00	46,800.00			
13	Connections	2	TONS	3,600.00	7,200.00			
14	Roof Deck	1,440	SF	3.75	5,400.00			
15								
16	Service Building							
17	Beams	1	TON	3,600.00	3,600.00			
18	Roof Deck	270	SF	3.75	1,012.50			
19								
20								
21	Subtotal - Structural Steel					214,688		
22								
23	STRUCTURAL STEEL							214,688
24								
25								
26	UNIT MASONRY							
27								
28	Masonry							
29								
30	8" CMU @ Service Building	762	SF	26.00	19,812			
31								
32	Subtotal: Interior Masonry Partitions					$19,812		
33								
34	UNIT MASONRY							$19,812
35								
36	MISCELLANEOUS METALS							
37								
38	Bollards @ Toll Booths	50	EA	2,500.00	$125,000			
39	House Trap - 3' X 3' @ Service Building	1	EA	1,500.00	$1,500			
40	Lintel @ Service Building	15	LF	200.00	$3,000			
41								
42	Subtotal: Miscellaneous Iron					$129,500		
43								
44								
45	MISCELLANEOUS METALS							$129,500
46								
47	WATERPROOFING / ROOFING							
48								
49	Roof							
50								
51	Entrance Canopy							
52	Metal Standing Seam Roof							
53	(Allowance - mat'l not spec'd - Assume aluminum)	3,700	SF	35.00	$129,500			
54	Metal Exterior Ceiling	3,700	SF	26.00	$96,200			
55								
56	Exit Canopy							
57	Metal Standing Seam Roof							
58	Allowance - mat'l not spec'd - Assume aluminum)	1,440	SF	35.00	$50,400			
59	Metal Exterior Ceiling	1,440	SF	26.00	$37,440			
60								
61	Service Building							
62	Stainless Steel Roof	190	SF	60.00	$11,400			
63	EPDM Roof	80	SF	13.75	$1,100			
64								
65	**Subtotal - Roof**					$326,040	W / Precast Concrete Structure	
66								
67								
68								
69	WATERPROOFING / ROOFING							$326,040
70								
71	DOORS & HARDWARE							
72								
73	**Exterior Doors & Hardware**							
74								
75	Exterior Doors & Hardware @ Service Building							
76	Double Door	1	EA	1,400.00	1,400			
77	Single Door	2	EA	850.00	$1,700			
78								
79	**Subtotal: Exterior Doors & Hardware**					$3,100		
80								
81	DOORS & HARDWARE							$3,100
82								
83	Exterior Wall							
84								
85	**Metal Panel**							
86								
87	Stainless Steel Metal Panel @ Service Building	762	SF	65.00	$49,530			

	BUILDING SYSTEM	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
88							
89	Subtotal: Metal Panel					$49,530	
90							
91	Exterior Wall						$49,530
92							
93	ROUGH CARPENTRY / DRYWALL / CEILINGS						
94							
95	Doors & Hardware (Installation Only)						
96	Exterior Doors & Hardware						
97	Parking Garage						
98	HM Doors (Install Only)						
99	Public Doors	1	LS	4,000.00	$4,000		
100							
101	Subtotal: Doors & Hardware (Install Only)					$4,000	
102							
103							
104	Ceiling						
105							
106	ACT 2' X 4' @ Service Building	270	SF	6.00	$1,620		
107							
108	Subtotal - Ceiling					$1,620	
109							
110	ROUGH CARPENTRY / DRYWALL / CEILINGS						$5,620
111							
112	WALL FINISHES						
113							
114							
115							
116	Miscellaneous Painting						
117	Bollards	50	EA	75.00	$3,800		
118	CMU @ Service Building	1	LS	4,500.00	$4,500		
119	Miscellaneous Metal	1	LS	3,500.00	$3,500		
120							
121	Subtotal: Miscellaneous Painting					$11,800	
122							
123							
124							
125	*Ceramic Tile*						
126							
127	Walls	319	SF	18.00	$5,742		
128	Floors	270	SF	18.00	$4,860		
129							
130	Subtotal - Ceramic Tile					$10,602	
131							
132	WALL FINISHES						$22,402
133							
134							
135	SPECIALTIES						
136							
137	Parking Control Equipment						
138							
139	Toll Booths - Pre Fab Units	8	EA	100,800.00	$806,400		
140							
141	Ticket Dispensers -				BY PA / RCS		
142							
143	Exit Gates - Allowance	11	EA	5,000.00	$55,000		
144							
145	Subtotal: Parking Control Equipment					$861,400	
146							
147	SPECIALTIES						$861,400
148							
149							
150	PLUMBING						
151							
152	Floor Drains @ Service Building	3	EA	1,500.00	$4,500		
153	Water Closet (Manual Flush) @ Service Building	1	EA	1,200.00	$1,200		
154	Lavatory @ Service Building	1	EA	1,200.00	$1,200		
155	Water Heater	1	EA	900.00	$900		
156	Domestic Water - 2"	300	LF	40.00	$12,000		
157	Sanitary - 3"	100	LF	40.00	$4,000		
158	Water Meter & Backflow Preventer	1	LS	10,000.00	$10,000		
159							
160	Subtotal: Plumbing					$33,800	
161							
162							
163	PLUMBING						33,800
164							
165	FIRE PROTECTION						
166							
167	Drypipe System				Not Included		
168							
169	Subtotal: Fire Protection					$0	
170							
171	FIRE PROTECTION						0
172							
173	H.V.A.C.						
174							

	BUILDING SYSTEM	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
175	Ductwork @Service Building	250	LBS	10.00	$2,500.00		
176	Exhaust Fans (toilet and Electric Rooms) @ Service Building	1	LS	3,500.00	$3,500.00		
177	Heat Pumps in Toll Booths				Included with Prefab Unit		
178	*Space Heater (500 W w/ Thermostat)*	1	EA	3,800.00	$3,800.00		
179							
180							
181	Subtotal: H.V.A.C.					$9,800	
182							
183	H.V.A.C.						$9,800
184							
185	ELECTRICAL						
186							
187							
188	Fire Alarm System	1	LS	10,000.00	$10,000.00		
189	Security System						
190	CCTV - 12 Cameras	1	LS	25,000.00	$25,000.00		
191	Toll Plaza work	1	LS	350,000.00	$350,000.00		
192	*Miscellaneous Electrical*	1	LS	105,000.00	$105,000.00		
193	Revenue Control - Entrance and Exit	1	LS	1,235,000.00	$1,235,000.00		
194							
195							
196	Subtotal: Electric					1,725,000	
197							
198	ELECTRICAL						$1,725,000
199							
200							
201	TOTAL: DIRECT COST				$3,400,700	$3,400,700	$3,400,700
202							
216							

Note: The above total indicates direct costs only. This total does not include any indirect costs (i.e. construction contingency, subcontractor bonds, payment and performance bond, general liability insurance, general conditions, fee, etc....). The indirect costs will be added to this estimate at a later time.

ALTERNATE #2 - ROADWAYS

Turner Construction Company
November 7, 2005
JFK Terminal 5 Parking Garage - Conceptual Estimate #5
ALTERNATE #2 - ROADWAYS

BUILDING SYSTEM	Current System Totals
DEMOLITION	$1,243,000
SITE WORK	$2,165,000
TOTAL: DIRECT COST	$3,408,000

Note: The above total indicates direct costs only. This total does not include any indirect costs (i.e. construction contingency, subcontractor bonds, payment and performance bond, general liability insurance, general conditions, fee, etc.…). The indirect costs will be added to this estimate at a later time.

	BUILDING SYSTEM	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
1	**DEMOLITION**						
2							
3	**Site Preparation**						
4							
5	Remove existing concrete pavements for new roadways	124,300	SF	10.00	$1,243,000		
6							
7	**Subtotal: Site Preparation**					**$1,243,000**	
8							
9	**DEMOLITION**						**$1,243,000**
10							
11	**SITE WORK**						
12							
13	**Pavements (at-grade)**						
14							
15	SOG @ Toll Plaza - Entrance and Exit	5,088	SF	22.00	$112,000		
16	Earth cut required for new roadway elevations	2,200	CY	50.00	$110,000		
17	Arrivals level Roadways; 4" with 4" base and 6" subbase; incl. non moun	62,000	SF	11.00	$682,000		
18	Non-mountable curb	4,100	LF	22.00	$90,000		
19	Raised Median with curb	5,800	SF	10.00	$58,000		
20	CIP concrete retaining wall; 3' - 7'high; incl. spread footing - Allowance	450	LF	350.00	$158,000		
21	Roadway Lighting (40 poles @ 150' spacing and 2" conduit)	2,050	LF	200.00	$410,000		
22	Roadway Drainage (no pipe sizes given) - Allowance	2,050	LF	100.00	$205,000		
23							
24							
25	**Subtotal Pavements At Grade**					**$1,825,000**	
26							
27							
28	**Overhead Signs/Guardrail**						
29							
30	40" span type	2	EA	150,000.00	$300,000		
31	Guardrail - Allowance	500	LF	75.00	$38,000		
32	Concrete foundations	4	CY	550.00	$2,000		
33							
34	**Subtotal OHD signs/guardrail**					**$340,000**	
35							
36	**Maintenance & Protection of Traffic (MPT)**						
37							
38	Impact attenuators - Allowance	2	EA	40,000.00	See Add Alternate		
39	Roadway Striping	2,050	LF	3.00	See Add Alternate		
40	VMS Structures - Allowance	1	EA	25,000.00	See Add Alternate		
41	Construction signs	10	EA	500.00	See Add Alternate		
42	Concrete barrier (approx 500lf/3phases)	200	LF	10.00	See Add Alternate		
43	Arrowboards (2ea/3 phases)	2	EA	10,000.00	See Add Alternate		
44							
45	**Subtotal Maintenance & Protection of Traffic**					**See Add Alternate**	
46							
47	**SITE WORK**						**$2,165,000**
48							
49							
50	TOTAL: DIRECT COST				**$3,408,000**	**$3,408,000**	**$3,408,000**
51							

ALTERNATE #3 - BRIDGE TO AIR TRAIN

Turner Construction Company
November 7, 2005
JFK Terminal 5 Parking Garage - Conceptual Estimate #5
ALTERNATE #3 - BRIDGE TO AIRTRAIN

AREA

BUILDING SYSTEM		Current System Totals
STRUCTURAL FRAME		$129,935
SPRAY ON FIREPROOFING		$5,500
EXPANSION JOINTS		$7,500
ROOFING AND WATERPROOFING		$12,000
EXTERIOR WALL		$89,000
GLAZING		$30,000
PARTITIONS		$20,000
MISCELLANEOUS METALS		$4,000
FLOOR FINISHES		$3,000
WALL FINISHES		$4,500
SIGNAGE		$4,000
PLUMBING		$11,000
FIRE PROTECTION	Not Included	
H.V.A.C.	Not Included	
LIGHTING		$15,000
FIRE ALARM SYSTEM		$5,500

Turner Construction Company

November 7, 2005 AREA

JFK Terminal 5 Parking Garage - Conceptual Estimate #5

ALTERNATE #3 - BRIDGE TO AIRTRAIN

BUILDING SYSTEM	Current System Totals
SECURITY SYSTEM	**$5,000**
#	
TOTAL: DIRECT COST	**$345,900**

The above total indicates direct costs only. This total does not include any indirect costs (i.e. construction contingency, subcontractor bonds, payment and performance bond, general liability insurance, general conditions, fee, etc....). The indirect costs will be added to this estimate at a later time.

AREA

	BUILDING SYSTEM	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
1	**STRUCTURAL FRAME**						
2							
3	**Steel Superstructure**						
4							
5	**Steel At Bridge Above Closed Roadway**						
6	Structural steel framing - girders & truss members	14	Tons	3,600.00	50,400		
7	Structural steel framing - columns	9	Tons	3,600.00	32,400		
8	Structural steel framing connections	2	Tons	3,600.00	7,200		
9	Metal floor deck	450	SF	3.75	1,688		
10	Metal Roof Deck	450	SF	3.75	1,688		
11							
12	Set bridge 12 AM to 5 AM - 1 Night - Air Train Closure						
13	Steel workers	80	DT	220.00	17,600		
14	Crane with operators	1	EA	10,000.00	10,000		
15	Flag Men	64	OT	140.00	8,960		
16					0		
17							
18	**Subtotal - Steel at Bridge**					$129,935	
19							
20	**STRUCTURAL FRAME**						$129,935
21							
22	**SPRAY ON FIREPROOFING**						
23							
24	Spray Fireproofing on structural steel - truss members	1	LS	5,500.00	5,500		
25							
26	**Subtotal: Spray On Fireproofing**					$5,500	
27							
28	**SPRAY ON FIREPROOFING**						$5,500
29							
30	**EXPANSION JOINTS**						
31							
32	Expansion Joints	50	LF	150.00	$7,500		
33							
34	**Subtotal: Expansion Joints**					$7,500	
35							
36	**EXPANSION JOINTS**						$7,500
37							
38	**ROOFING AND WATERPROOFING**						
39	**Rough Carpentry**						
40							
41	Allowance for rough carpentry	450	SF	1.50	$1,000		
42							
43	**Subtotal: Rough Carpentry**					$1,000	
44							
45	**Roof**						
46							
47	EPDM roofing and insulation	450	SF	13.00	$6,000		
48	Parapet flashing and lining	125	LF	40.00	$5,000		
49							
50	**Subtotal: Roof**					$11,000	
51							
52							
53							
54	**ROOFING AND WATERPROOFING**						**$12,000**
55							
56	**EXTERIOR WALL**						
57							
58	**Walls**						
59							
60	Aluminum Metal Panel (M7) at bridge above Roadway	700.00	SF	55.00	$39,000		
61	Metal Panel at underside of bridge	450.00	SF	55.00	$25,000		
62	Repair existing Air Train Station Façade - Allowance	1.00	LS	25,000.00	$25,000		
63							
64							
65	**Subtotal: Walls**					$89,000	
66							**W / Precast Concrete Structu**
67							
68	**EXTERIOR WALL**						**$89,000**
69							
70							
71	**GLAZING**						
72							
73	Glass Doors w/ sidelight	4	EA	7,500.00	$30,000		
74							
75	**Subtotal - Glazing**					$30,000	
76							
77	**GLAZING**						**$30,000**
78							
79							
80	**PARTITIONS**						

AREA

	BUILDING SYSTEM	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
81							
82	GWB wall sheeting	500	SF	16.00	$8,000		
83	OSHA protection	1	LS	8,000.00	$8,000		
84							
85	**Subtotal: Partitions**					$16,000	
86							
87	**Ceiling Finishes**						
88							
89	Acoustic ceiling Tile	500	SF	7.00	$4,000		
90							
91	**Subtotal: Ceiling Finishes**					$4,000	
92							
93							
94	**PARTITIONS**						**$20,000**
95							
96	**MISCELLANEOUS METALS**						
97	**Handrail @ Ramp**	50	LF	80.00	4,000	$4,000	
98							
99	**MISCELLANEOUS METALS**						**$4,000**
100							
101	**FLOOR FINISHES**						
102							
103	VCT	500	SF	6.00	$3,000		
104							
105	**Subtotal: Floor Finishes**					$3,000	
106	**FLOOR FINISHES**						**$3,000**
107							
108							
109	**WALL FINISHES**						
110							
111	Paint Walls	1	LS	4,500.00	$4,500		
112							
113	**Subtotal: Wall Finishes**					$4,500	
114							
115	**WALL FINISHES**						**$4,500**
116							
117	**SIGNAGE**						
118							
119	Signage - Allowance	1	LS	4,000.00	$4,000		
120							
121	**Subtotal: Specialties**					$4,000	
122							
123	**SIGNAGE**						**$4,000**
124							
125							
126							
127	**PLUMBING**						
128							
129	**Fixtures and Specialties (Based on Plumbing Dwgs)**				Not Included		
130							
131	**Subtotal: Fixtures & Specialties**					$0	
132							
133							
134	**Storm Drainage**						
135	Storm Drainage Equipment						
136	Roof Drain (6"- 8") - Assume tap into Air Train storm drainage	1	EA	4,500.00	$5,000		
137	Area Drains (4")			Not Included			
138	Overflow Drains			Not Included			
139	*Syphonic Roof Drain System*			Not Included			
140	Storm Drainage Piping						
141	Aboveground - 6"	100	LF	60.00	$6,000		
142							
143	**Subtotal: Storm Drainage**					$11,000	
144							
145							
146	**PLUMBING**						
147							
148	**PLUMBING**						**$11,000**
149							
150	**FIRE PROTECTION**						
151							
152	***Equipment & Accessories***			Not Included			
153							
154	**FIRE PROTECTION**						**Not Included**
155							
156							

AREA

	BUILDING SYSTEM	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
157	**H.V.A.C.**						**Not Included**
158	-						
159							
160							
161	**LIGHTING**						
162							
163	Allowance for Lighting Not Shown						
164		1	LS	10,000.00	$10,000		
165							
166	Exit Lights	1	LS	5,000.00	$5,000		
167							
168	**Subtotal: Lighting**					**$15,000**	
169							
170	**Lighting Controls**						
171							
172	**Subtotal: Lighting Controls**					**$0**	
173							
174	**LIGHTING**						**$15,000**
175							
176	**FIRE ALARM SYSTEM**						
177		1	LS	5,500.00	$5,500		
178	**Subtotal: Fire Alarm System**					**$5,500**	
179							
180	**FIRE ALARM SYSTEM**						**$5,500**
181							
182							
183	**SECURITY SYSTEM**						
184	CCTV & Access Control	1	LS	4,500.00	$5,000		
185						5000	
186	**SECURITY SYSTEM**						**$5,000**
187							
188	#						
189							
190							
191							
192							
193	TOTAL: DIRECT COST				$345,900	$345,900	$345,900
194							
208							
209							

Note: The above total indicates direct costs only. This total does not include any indirect costs (i.e. construction contingency, subcontractor bonds, payment and performance bond, general liability insurance, general conditions, fee, etc....). The indirect costs will be added to this estimate at a later time.

ALTERNATE #4 - EXTERIOR RAMPS RAMPS

JFK Terminal 5 Parking Garage - Conceptual Estimate #5
ALTERNATE #4 - EXTERIOR RAMPS

BUILDING SYSTEM	Current System Totals
HOISTING AND PROTECTION	$0
EXCAVATIONS	$79,900
PILES	$875,300
FOUNDATIONS	$143,300
PRECAST CONCRETE STRUCTURE	$1,633,500
STRUCTURAL CONCRETE	$25,000
UNIT MASONRY	$0
MISCELLANEOUS METALS	$190,000
WATERPROOFING / ROOFING	$0
JOINT SEALERS	$5,000
FIREPROOFING	$5,000
DOORS & HARDWARE	$0
ENTRANCE & STOREFRONT / INTERIOR GLAZING	$0
ROUGH CARPENTRY / DRYWALL / CEILINGS	$0
PAINTING	$18,800
SPECIALTIES	$48,000
VERTICAL TRANSPORTATION	$0
PLUMBING	107,500
FIRE PROTECTION	83,900
H.V.A.C.	$0

Turner Construction Company
November 7, 2005
JFK Terminal 5 Parking Garage - Conceptual Estimate #5
ALTERNATE #4 - EXTERIOR RAMPS

BUILDING SYSTEM	Current System Totals
ELECTRICAL	$297,500
DEMOLITION	
Demolition	
TOTAL: DIRECT COST	$3,512,700

	BUILDING SYSTEM	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
1	HOISTING AND PROTECTION						
2	**Hoisting**						
3	Parking Garage						
4	Dual Cage Combination Personnel Hoist With 6000 Pound Capaci	Not Included			Not Included		
5	Base Mobilization	Not Included			Not Included		
6	Erect & Dismantle	Not Included			Not Included		
7	Rental	Not Included			Not Included		
8	Serve 9 Stops	Not Included			Not Included		
9	Standard Ties To Spandrel Beam	Not Included			Not Included		
10	Outside Double Doors	Not Included			Not Included		
11	Loading Dock W/ Overhead Protection & Ramp	Not Included			Not Included		
12	Base Fence Enclosure Around Hoist	Not Included			Not Included		
13	Engineered Drawings & Building Department Permits For Personn	Not Included			Not Included		
14	Maintenance	Not Included			Not Included		
15	Jumps	Not Included			Not Included		
16	*Electrical Transformer*	Not Included			Not Included		
17	Electrical Hook Ups	Not Included			Not Included		
18	Base Concrete Pads	Not Included			Not Included		
19	Hoist Labor	Not Included			Not Included		
20	Operating Engineer	Not Included			Not Included		
21							
22	**Subtotal: Hoisting**					$0	
23							
24	**Protection**						
25							
26	Sidewalk Bridge, out riggers at Air Train exposure	0	LF	150.00	$0		
27	Lighting				Included		
28	Maintenance				Included		
29							
30	**Subtotal: Protection**					$0	
31							
32	HOISTING AND PROTECTION						$0
33							
34	EXCAVATIONS						
35							
36	**Site Preparation**						
37	Remove existing asphalt parking area Clear & Grub Site	8,700	SF	1.25	$10,900		
38	Erosion Control	0	LS	10,000.00	$0		
39	Silt Fence	60	LF	6.00	$400		
40	Miscellaneous Site Demo	0	LS	5,000.00	$0		
41							
42	**Subtotal: Site Preparation**					$11,300	
43							
44	**Site Fence**						
45	Site Fence - Chain Link With Mesh Screen	80	LF	$90	See Add Alternate		
46	Gates	0	PR	$10,000	$0		
47							
48	**Subtotal: Site Fence**					See Add Alternate	
49							
50	**Earthwork**						
51	Site Survey	0	Crew Days	1,500.00	$0		
52	Mobilize	0	LS	10,000.00	$0		
53	Layout	0	LS	5,000.00	$0		
54	Excavation - Column Footings						
55	Excavate and cart soil	100	CY	60.00	$6,000		
56	Backfill	25	CY	75.00	$1,900		
57	Excavation - Slab						
58	Excavate and cart soil	644	CY	60.00	$38,700		
59	Backfill	81	CY	75.00	$6,000		
60	Excavation & Backfill - Underslab Utilities	100	LF	60.00	$6,000		
61	Dewatering	1	LS	10,000.00	$10,000		
62							
63	**Subtotal: Earthwork**					$68,600	
64							
65	**Pits**						
66	Elevator Pit excavation	0	LOC	10,000.00	$0		W / Precast Concrete Structure
67	Sump Pits			Included above			
68							
69	**Subtotal: Pits**					$0	
70							
71							
72	**EXCAVATIONS**						$79,900
73							
74	PILES						
75							
76	80 Ton Capacity Monotube Piles - 15 locations						
77	Average 65 LF, 16" Dia. Total of 120 Piles	11,700	LF	60.00	$702,000		
78	Concrete for Piles	433	CY	400.00	$173,300		
79	Cut Excess Piles& Remove From Site	Included above		Included above	Included above		
80	Index Piles	Included above		Included above	Included above		
81	Static Load Tests	0	LS	25,000.00	$0		
82	Lateral Test	Included above		Included	Included above		
83	Dynamic Testing	Included above		Included	Included above		
84	Concrete Testing	Included above		Included	Included above		
85	Mobilization Of Rigs	0	LS	20,000.00	$0		

	BUILDING SYSTEM	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
86	Layout & Resurvey	Included above		Included	Included above		
87	Splice For Piles	Included above			Included above		
88	Allowance for Underground Obstructions	0	LS	80,000.00	$0		
89							
90	**Subtotal: Piles**					$875,300	
91							
92	**PILES**						$875,300
93							
94	**FOUNDATIONS**						
95							
96	**Foundations**						
98	Pile Caps	75	CY	1,050.00	$78,800		
99	Reinforcing Steel & Dowels For Pile Caps	Included above		Included above	Included above		
100							
101	**Subtotal: Foundations**					$78,800	
102							
103	**Pits**						
104	Elevator Pits	0	Each	10,000.00	$0		
105	Sump Pits	0	Each	Included			
106	Mechanical Pits	Not Included	Each	Not Included	Not Included		
107							
108	**Subtotal: Pits**					$0	
109							
110	**Slab-On-Grade**						
111	8" S.O.G. over Tie Beams (see above)	8,600	SF	22.00	NOT INCLUDED		
112	Reinforcing At Slab	Included above	LBS	Included above	Included above		
113	Reinforced Wire Mesh	Included above		Included above	Included above		
114	6" Gravel Base	Included above		Included above	Included above		
115	Crane Pad and hoist pads	0	LS	20,000.00	$0		
116							
117	**Subtotal: Slab-On-Grade**					$0	
118							
119	**Waterproofing**						
120	Pit walls / slabs	0	EA	3,000.00	$0		
121	Slab waterproofing	8,600	SF	5.00	NOT INCLUDED		
122	Membrane / Sealer	43,000	SF	1.50	$64,500		
123							
124	**Subtotal: Waterproofing**					$64,500	
125							
126	**FOUNDATIONS**						$143,300
127							
128	**PRECAST CONCRETE STRUCTURE**						
129							
130	Furnish and Install all Precast Parking Structure Components	43,000	GSF	36.00	$1,548,000		
131	Columns, Ramps	Included			Included		
132	Stairs	Included			Included		
133	Exterior façade - rustication, pigments	2,250	GSF	38.00	$85,500		
134	Pretopped Double Tees, Inverted Tee Girders	Included			Included		
135							
136	***Subtotal: Precast Concrete Structure***					$1,633,500	
137							
138	**PRECAST CONCRETE STRUCTURE**						$1,633,500
139							
140	**STRUCTURAL CONCRETE**						
141							
142	**Cast In Place Concrete**						
143							
144	**Provide pads and curbs**	5	LEVELS	5,000.00	$25,000		
145							
146	**Subtotal: Cast In Place Concrete**					$25,000	
147							
148	**STRUCTURAL CONCRETE**						$25,000
149							
150	**UNIT MASONRY**						
151							
152	**Interior Masonry Partitions**						
153	Parking Garage						
154	CMU partitions at Elevator Machine rooms, MEP rooms	0	LOCS	60,000.00	0		
155	Stair bulkheads	0	LOCS	15,000.00	0		
156	Employee restrooms	0	LOCS	20,000.00	0		
157							
158	**Subtotal: Interior Masonry Partitions**					$0	
159							
160	**UNIT MASONRY**						$0
161							
162	**MISCELLANEOUS METALS**						
163							
164	Stair railings inside	0	LF	100.00	$0		
165	Stair railings outside	0	LF	50.00	$0		
166	Misc. ladders	0	LS	2,500.00	$0		

	BUILDING SYSTEM	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
167	Sill angles	0	FLRS	1,600.00	$0		
168	Smoke hole grating	0	EA	1,000.00	$0		
169	Miscellaneous items	0	SF	1.00	$0		
170	Railing at structure exterior	1,900	LF	100.00	$190,000		
171	Miscll/ gratings	0	LS	10,000.00	$0		
172							
173	**Subtotal: Miscellaneous Iron**						
174						$190,000	
175							
176	MISCELLANEOUS METALS						$190,000
177							
178	WATERPROOFING / ROOFING						
179							
180	**Roof**						
181	Parking Garage at Stair towers						
182	2 Ply Modified Bituminous Membrane	0	SF	25.00	$0		
183	Premium for flashings at steel supports and mech.	0	LS	3,000.00	$0		
184							
185	**Subtotal: Roof**					$0	
186							
187	**Waterproofing**						
188							
189	Traffic Topping / Membrane at roof	0	SF	2.75	$0		
190							
191	**Subtotal: Waterproofing**					$0	
192							
193	WATERPROOFING / ROOFING						$0
194							
195	JOINT SEALERS						
196							
197	Sealants						
198	Misc. caulking	1	ALLOW	5,000.00	$5,000		
199							
200						$5,000	
201	JOINT SEALERS						$5,000
202							
203	FIREPROOFING						
204							
205	Fireproofing	1	ALLOW	5,000.00	$5,000		
206							
207						$5,000	
208	**FIREPROOFING**						$5,000
209							
210	DOORS & HARDWARE						
211							
212	**Exterior Doors & Hardware**						
213	Parking Garage						
214	HM Doors / Frames/ Hardware						
215	Public Doors						
216	Flush HM w/Vision Panel (3'-0" x 7'-0")	0	ALLOW	20,000.00	$0		
217							
218	**Subtotal: Exterior Doors & Hardware**					$0	
219							
220	**DOORS & HARDWARE**						$0
221							
222	ENTRANCE & STOREFRONT / INTERIOR GLAZING						
223							
224	**Entrances and Storefronts**						
225							
226	Curtain wall at elevator shaftway	0	SF	95	$0		
227							
228	**Subtotal:**					$0	
229							
230	**ENTRANCE & STOREFRONT / INTERIOR GLAZING**						$0
231							
232	ROUGH CARPENTRY / DRYWALL / CEILINGS						
233							
234	**Doors & Hardware (Installation Only)**						
235							
236	**Exterior Doors & Hardware**						
237	Parking Garage						
238	HM Doors (Install Only)						
239	Public Doors	0	LS	4,000.00	$0		
240							
241	**Subtotal: Doors & Hardware (Install Only)**					$0	
242							
243	**OSHA Safety / Protection**						
244	Perimeter Safety Protection	1	LS	5,000.00	See Add Alternate		
245	Temporary Rails @ Stairs	0	Allow	15,000.00	See Add Alternate		
246	Removable Protection @ Elevator Shafts	0	Allow	7,500.00	See Add Alternate		
247	Floor Slab Openings	1	Allow	5,000.00	See Add Alternate		
248							
249	**Subtotal: OSHA Safety / Protection**					See Add Alternate	
250							
251							
252	*ROUGH CARPENTRY / DRYWALL / CEILINGS*						$0
253							

	BUILDING SYSTEM	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
254	PAINTING						
255							
256	**Miscellaneous Painting**						
257	Ptd. Railings - stair and roof	0	LF	4.00	$0		
258	Railings at exterior	800	LF	4.00	$3,200		
259	Line Striping	1	LS	2,000.00	$2,000		
260	Elevator Pit Ladders	0	EA	75.00	$0		
261	MEP Color Coding	1	LS	2,500.00	$2,500		
262	MEP Pipe & Hangers	1	LS	2,500.00	$2,500		
263	Switchgear and Panelboards	0		Not Included	Not Included		
264	MEP Factory Primed Equip. & Tanks	0		Not Included	Not Included		
265	Miscellaneous Painting	43,000	SF	0.20	$8,600		
266							
267	**Subtotal: Miscellaneous Painting**					$18,800	
268							
269	**PAINTING**						$18,800
270							
271	SPECIALTIES						
272							
273	Building Identification	43,000	SF	1.00	43,000		
274	Miscll. Specialties	1	ALLOW	5,000.00	5,000		
275							
276	**Subtotal: SPECIALTIES**					$48,000	
277							
278							
279	**Access Doors**						
280	Access Doors	0	ALLOW	2,500.00	$0		
281							
282	**Subtotal: Access Doors**					$0	
283							
284	**Parking Control Equipment**						
285	Parking Control Equipment	0	ALLOW	300,000.00	0		
286							
287	**Subtotal: Parking Control Equipment**					$0	
288							
289	**SPECIALTIES**						$48,000
290							
291	VERTICAL TRANSPORTATION						
292							
293	**Elevators**						
294	Parking Garage						
295	Traction elevators; 6000 lb, 350fpm						
296	Passenger Elevators						
297	Quantity	0	EA	190,000.00	$0		
298	Travel Distance	0	FT	-	Included		
299	Stops/Fronts - Front	0	EA	-	Included		
300	208V, 3 Phase	Included		Included	Included		
301	Openings - 3'x7'	Included		Included	Included		
302	Single Speed Side Opening Doors	Included		Included	Included		
303	Cab finishes	0	ALLOW	16,000.00	$0		
304	Controller	Included	EA	-	Included		
305							
306	**Subtotal: Elevators**					$0	
307							
308	**VERTICAL TRANSPORTATION**						$0
309							
310	PLUMBING						
311							
312	Drainage	43,000	SF	$2.50	$107,500		
313	Sanitary and Potable Systems to accommodate employee needs	0	LS	$50,000.00	$0		
314							
315	Subtotal: Plumbing					$107,500	
316							
317							
318	**PLUMBING**						107,500
319							
320	FIRE PROTECTION						
321							
322	Drypipe System	43,000	SF	$1.95	$83,900		
323							
324	**Subtotal: Fire Protection**					$83,900	
325							
326	**FIRE PROTECTION**						83,900
327							
328	H.V.A.C.						
329							
330	Ventilation at hoistways, electrical , generator rooms and EMR's	0	LS	$100,000.00	$0.00		
331	Heating at electrical substation and generator rooms	0	LOC	$7,000.00	$0.00		
332	HVAC units at tollbooths	0	LOC	$5,000.00	$0.00		
333	Condition Elevator cabs	0	EA	$15,000.00	$0.00		
334	Relocation of underground hot water and chilled water piping at fo	0			excluded		
335							
336	**Subtotal: H.V.A.C.**					$0	
337							
338	**H.V.A.C.**						$0
339							

	BUILDING SYSTEM	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
340	ELECTRICAL						
341							
342							
343	Incoming Service						
344	2 x 5Kv feeders from existing loop with duct bank - assume 200 LF	0	LF	1,875.00	$0.00		
345	Service & Distribution						
346	Substation, transformer, switchgear, grounding	0	LS	1,200,000.00	$0.00		
347	Distribution	1	LS	10,000.00	$10,000.00		
348	Emergency Power System						
349	Generator, Feeders, ATS	1	LS	15,000.00	$15,000.00		
350	Lighting						
351	Exterior fluorescent lighting	43,000	SF	3.00	$129,000.00		
352	Emergency lighting	1	LS	2,500.00	$2,500.00		
353	Lighting Controls	1	LS	2,500.00	$2,500.00		
354	Exterior Lighting	1	LS	2,500.00	$2,500.00		
355	Convenience Power	43,000	SF	0.25	$10,750.00		
356	Equipment Connections						
357	Elevators	0	EA	3,500.00	$0.00		
358	HVAC	0	EA	2,500.00	$0.00		
359	Telecommunications - Emergency phones	0	LS	70,000.00	$0.00		
360	Fire Alarm System	43,000	SF	1.25	$53,750.00		
361	Security System						
362	CCTV	1	LS	25,000.00	$25,000.00		
363	Lightning Protection System	43,000	SF	0.50	$21,500.00		
364	Toll Plaza work	0	LS	300,000.00	$0.00		
365	Miscellaneous Electrical	1	LS	25,000.00	$25,000.00		
366							
367	**Subtotal: Electric**					297,500	
368							$297,500
369	ELECTRICAL						
370							
371	DEMOLITION						
372	Demolition			In Excavation			
373						$0	
374	**Subtotal: Demolition**						
375							In Excavation
376	DEMOLITION						
377					$3,512,700	$3,512,700	$3,512,700
378	TOTAL: DIRECT COST						
379							

BUILDING SYSTEM	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals

ALTERNATE - INCIDENTAL CHANGES

	BUILDING SYSTEM	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
	BASE PARKING GARAGE						
1	**HOISTING AND PROTECTION**						
2	**Hoisting**						
3	Parking Garage						
4	Dual Cage Combination Personnel Hoist With 6000 Pound Capaci	Not Included			Not Included		
5	Base Mobilization	Not Included			Not Included		
6	*Erect & Dismantle*	Not Included			Not Included		
7	Rental	Not Included			Not Included		
8	Serve 9 Stops	Not Included			Not Included		
9	Standard Ties To Spandrel Beam	Not Included			Not Included		
10	Outside Double Doors	Not Included			Not Included		
11	Loading Dock W/ Overhead Protection & Ramp	Not Included			Not Included		
12	Base Fence Enclosure Around Hoist	Not Included			Not Included		
13	*Engineered Drawings & Building Department Permits For Personn*	Not Included			Not Included		
14	Maintenance	Not Included			Not Included		
15	Jumps	Not Included			Not Included		
16	Electrical Transformer	Not Included			Not Included		
17	Electrical Hook Ups	Not Included			Not Included		
18	Base Concrete Pads	Not Included			Not Included		
19	Hoist Labor	Not Included			Not Included		
20	*Operating Engineer*	Not Included			Not Included		
21							
22	**Subtotal: Hoisting**					$0	
23							
24	**Protection**						
25							
26	Sidewalk Bridge, out riggers at Air Train exposure	1,120	LF	150.00	$168,000		
27	Lighting				*Included*		
28	Maintenance				Included		
29							
30	**Subtotal: Protection**					$168,000	
31							
32	**HOISTING AND PROTECTION**						$168,000
1	**OSHA Safety / Protection**						
2	Perimeter Safety Protection	1	LS	44,800.00	$45,000		
3	Temporary Rails @ Stairs	1	Allow	15,000.00	$15,000		
4	Removable Protection @ Elevator Shafts	1	Allow	7,500.00	$8,000		
5	Floor Slab Openings	1	Allow	12,000.00	$12,000		
6							
7	**Subtotal: OSHA Safety / Protection**					80,000	
	OSHA Safety / Protection						80,000

ALTERNATE - ROADWAYS

1	**Maintenance & Protection of Traffic (MPT)**						
2							
3	Impact attenuators - Allowance	2	EA	40,000.00	$80,000		
4	Roadway Striping	2,050	LF	3.00	$6,000		
5	VMS Structures - Allowance	1	EA	25,000.00	$25,000		
6	Construction signs	10	EA	500.00	$5,000		
7	Concrete barrier (approx 500lf/3phases)	200	LF	10.00	$2,000		
8	Arrowboards (2ea/3 phases)	2	EA	10,000.00	$20,000		
9							
10	**Subtotal Maintenance & Protection of Traffic**					**$138,000**	
	MAINTENANCE & PROTECTION						138,000

ALTERNATE - RAMPS

44	**Site Fence**						
45	Site Fence - Chain Link With Mesh Screen	80	LF	$90	$7,200		
46	Gates	0	PR	$10,000	$0		
47							
48	***Subtotal: Site Fence***					$7,200	
243	**OSHA Safety / Protection**						
244	Perimeter Safety Protection	1	LS	5,000.00	$5,000		
245	Temporary Rails @ Stairs	0	Allow	15,000.00	$0		
246	Removable Protection @ Elevator Shafts	0	Allow	7,500.00	$0		

	BUILDING SYSTEM	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
247	Floor Slab Openings	1	Allow	5,000.00	$5,000		
248							
249	**Subtotal: OSHA Safety / Protection**					$10,000	
	ALTERNATE RAMPS						17,200
378	**TOTAL: DIRECT COST**				$403,200	$403,200	$403,200

Turner Construction Company
November 7, 2005
JFK Terminal 5 Parking Garage - Conceptual Estimate #5
ALTERNATE - DEDUCT SOG

	BUILDING SYSTEM	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
	BASE PARKING GARAGE						
1	Slab-On-Grade						
2	8" S.O.G. over Tie Beams (see above)	(85,000)	SF	22.00	($1,870,000)		
3	Reinforcing At Slab	Included above	LBS	Included above	Included above		
4	Reinforced Wire Mesh	Included above		Included above	Included above		
5	6" Gravel Base	Included above		Included above	Included above		
6							
7	Subtotal: Slab-On-Grade					($1,870,000)	
	ADD ASPHALT	85,000	SF	$ 10.20	$ 867,000.00		
	Subtotal - Asphalt					867,000	
378	TOTAL: DIRECT COST				($1,003,000)	($1,003,000)	($1,003,000)

Turner Construction Company
November 7, 2005
JFK Terminal 5 Parking Garage - Conceptual Estimate #5
ALTERNATE - ADD METAL PANEL

	BUILDING SYSTEM	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
	BASE PARKING GARAGE						
1	Exterior façade - rustication, pigments	(38,000)	GSF	38.00	($1,444,000)		
6							
7	**Subtotal: Exterior Façade**					**($1,444,000)**	
	Add Metal Screen Wall	38,000	SF	$ 60.00	$ 2,280,000.00		
	F/I Structural Supports for Metal Screen Wall	38,000	SF	$ 12.00	$ 456,000.00		
	Traffic Guard Rail	1	LS	$ 500,000.00	$ 500,000.00		
	Subtotal - Metal Panel					3,236,000	
378	TOTAL: DIRECT COST				**$1,792,000**	**$1,792,000**	**$1,792,000**

Turner Aviation

Conceptual Estimate for Parking Garage
JFK Airport New York, New York

November 7, 2005
ARUP Conceptual Sketches

Assumptions and Clarifications

General

1. This estimate assumes the project is Tax Exempt.
2. This estimate includes a construction contingency that is to be readily available for Turner's use to provide reimbursement for costs and expenses, including costs that are not otherwise reimbursable as Cost of the Work (i.e.: for costs of overtime, acceleration, corrective work, claims, etc.). It should be further noted that this contingency is a construction contingency and not to be used for scope changes. The construction contingency will not include staff cost overruns in the General Conditions.
3. This estimate is based on the Owner providing all risk/builder's risk insurance, covering the interests of the Owner, Turner and the subcontractors, this policy will incorporate a waiver of subrogation unless negligence is proven. Costs for deductibles are not included in the GMP.
4. Controlled inspections are assumed to be by the Owner. Costs for these inspections are not included in the estimate.
5. The scope of work included in the estimate is based solely on the document list located below, as issued by ARUP, received on September 16, 2005. Any changes from subsequent city or other agency approvals (Port Authority) are not included.
6. Allowances as defined in the estimate include all costs associated with a particular item, including furnishing material, delivery, handling, installation costs, bond, insurance and associated subcontractor mark-ups. Turner's General Conditions costs are included in the estimate up to the amount of the allowance. Costs for required work beyond the amount of the allowance shall increase or decrease the estimate by that amount.
7. This estimate does not include fees for temporary utility services.
8. Relocation and coordination with existing underground utilities is included only to the extent presented at the September 16, 2005 meeting with ARUP and JetBlue. The utility work for this project is included only to the extent indicated on the (10) ten sketches listed on the below referenced document list.
9. This estimate assumes that all filing fees are by the Owner.
10. This estimate assumes that a CCIP program will be used. The costs associated with standard general liability insurance are not covered with the cost included in the estimate and would be an increase of 12.5% to the estimate.
11. This estimate includes escalation up to the 4th Quarter of 2005.
12. This estimate does not include the cost of hiring a monitoring consultant to perform preconstruction survey of existing condition or the cost of monitoring all existing buildings during the period of driving piles.
13. This estimate does not include hazardous material removal.
14. Landscaping is not included in this estimate.
15. . This estimate assumes that a precast knee wall at the floor perimeter of the façade will be sufficient fall protection and that a handrail will not be necessary.
16. We have assumed an OT allowance of $37,000 for the bridge connection between the LRS and the parking garage. Since no drawings have been provided on the LRS this is a not to exceed allowance.
17. The ticket dispenser and exit gates are allowances. Not specific model numbers or manufacturers have been provided in the documents.
18. All underground utilities will be performed on straight time.

Assumptions and Clarifications

19. The underground utility estimate does not provide temporary utilities for adjacent buildings. This is excluded from the scope of this estimate.
20. No drawings have been received by TCCO showing the existing conditions at the LRS. On this basis, TCCO has assumed a $25,000 allowance to repair the existing metal panel at the LRS. Renovating or repairing the LRS, beyond the $25,000 allowance, is excluded from this estimate.
21. jetBlue has requested that this estimate specifically exclude general liability insurance, Subguard, payment and performance bond, construction contingency, design contingency, general conditions, and fee. These items will have to be added to the estimate at a later date.

Excavation and Foundations

22. This estimate includes the cost for local dewatering only during construction of the foundations. A water treatment facility has not been included.
23. This estimate includes concrete filled 200 Ton capacity monotube piles 70' deep and 18" diameter.
24. The foundation plans provided by ARUP on September 15, 2005, disagree with the underground utility plans provided by ARUP on September 15, 2005. The foundation is based on the Ground Level Floor Plan, which includes a cross section, and was received by Turner Construction on September 15, 2005.

Underground Utilities

On September 14, 2005 ARUP issued, electronically, renderings to relocate some of the underground utilities and to encase the remaining underground utilities around the new foundation. Based on the drawing submitted by ARUP on September 14, 2005 TCCO estimated the value of the underground utility relocation to be $2,897,000. The PA's estimate valued the underground utility work at $6,200,000. The $6,200,000 PA allowance is not based on drawings. The October 3, 2005 TCCO estimate increased the value of underground utilities from $2,897,000 to $6,200,000. The $3,303,000 increase to $6,200,000 represents a contingency of $3,300,000. On November 5, 2005 JetBlue and the PA agreed to use an allowance of $6,200,000 for the underground utilities. Both JetBlue and the PA are aware that drawings for the relocations are not available and that this allowance is subject to change. JetBlue and the PA had discussed making additional relocations but as of November 7, 2005 no revised underground utility drawings have been provided to TCCO. As of November 7, 2005 the underground utility work is not based on drawings, as drawings for this work are not available. The $6,200,000 represents an allowance and not a hard number. Therefore this allowance is subject to change based on the final drawings. TCCO recommends that JetBlue's design team prepare drawings on the revised underground utilities and TCCO will prepare an estimate of the underground utility work.

Roofing and Waterproofing

18. This estimate includes a white EPDM membrane roofing system

Specialties

19. This estimate assumes that telephone specialties will be provided by the Owner

Plumbing

Assumptions and Clarifications

20. This estimate excludes bathrooms from the parking garage.

Documents List

Sketch #1 – Not Titled / Not Dated – Ground Floor Plan and Elevation – Received from ARUP on 9/16/05
Sketch #2 – Not Titled / Not Dated – 2nd Fl, 3rd Fl, 4th Fl, 5th Fl, and 6th Fl Plan – Received from ARUP on 9/16/05
Sketch #3 – Not Titled / Not Dated – Underground Utility Plan – Storm Lines – Received from ARUP on 9/14/05
Sketch #4 – NotTitled / Not Dated – Underground Utility Plan – Water lines – Received from ARUP on 9/14/05
Sketch #5 – Not Titled / Not Dated – Underground Utility Plan – Water Lines – Received from ARUP on 9/14/05
Sketch #6 – Not Titled / Not Dated – Underground Utility Plan – Thermal Distribution System – Received from ARUP on 9/14/05
Sketch #7 – Not Titled / Not Dated – Underground Utility Plan – Thermal Distribution System – Received from ARUP on 9/14/05
Sketch #8 – Not Titled / Not Dated – Underground Utility Plan – Communication – Received from ARUP on 9/14/05.
Sketch #9 – Not Titled / Not Dated – Underground Utilitly Plan – Electrical – Received from ARUP on 9/14/05.
Sketch #10 – Not Titled / Not Dated – Underground Utility Plan – Communication – Received from ARUP on 9/14/05.
Sketch #11 – Not Titled / Not Dated - Underground Utility Plan – Electrical – Received from ARUP on 9/14/05.
Sketch #12 – Not Titled / Not Dated – Underground Utilty Plan – Water – Received From ARUP on 9/14/05
Sketch #13 – Not Titled / Not Dated – Underground Utility Plan – Water – Received from ARUP on 9/14/05
Toll Plaza Canopy Details for Terminal 4 Parking Lot. The Toll Plaza Canopy Detail include 42 sheets of drawings for this area. ARUP has requested that a similar layout be included in the September 21, 2005 estimate.
Scheme #3 revised – Level 1 – Not Titled / Not Dated – Received from ARUP on 9/29/05.
Scheme #3 revised – Level 2, 3, 4, 5, and 6 – Not Titled / Not Dated – Received from ARUP on 9/29/05.
Scheme #4 – Level 1 – Not Titled / Not Dated – Received from ARUP on 9/29/05.
Scheme #4 – Level 2, 3, 4, 5, and 6 – Not Titled / Not Dated – Received from ARUP on 9/29/05.
Scheme #5 – Ground level foot print – Shows no scale – Received from ARUP on October 20, 2005.

Cost Categories

Categories:

Item A
Stage 2 Trade Cost Estimate
Equipment
Escalation
Phasing/Staging/Parking
Design Contingency
Construction Contingency

General Construction
General Conditions, Const Mgmt & Field Supervision
Performance & Payment Bonds
Testing, Inspections & Surveys
Insurance

Soft Costs
Planning & Design
Program/Project Management

Lessee $80 Million Investment

Lessee Shared Environmental
Lessee Administrative
PA Construction Inspection

Carrying Costs (Financial Expense)

Project Contingency

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EXHIBIT 2.12

Terminal 5 Redevelopment
Element Budgets

Lessee Redevelopment Work Element Budgets

11-Nov-05

Element:	Elements of Work: Passenger Terminal	Airside Civil	Landside Civil	Parking Garage	Terminal 5 AirTrain Connector	Total
Item A						
Stage 2 Trade Cost Estimate	216,029,500	60,621,500	35,228,000	58,000,000	16,500,000	386,379,000
Equipment	50,000,000					50,000,000
Escalation	11,989,637	3,364,493	1,955,154	2,997,000	979,908	21,286,192
Phasing/Staging/Parking	3,240,443	909,323	528,420	810,000	264,840	5,753,026
Design Contingency	19,435,289	5,455,935	3,170,520	3,900,000	1,589,040	33,550,784
Construction Contingency	21,602,950	6,062,150	3,522,800	5,400,000	1,765,600	38,353,500
Total Item A	322,297,819	76,413,401	44,404,894	71,107,000	21,099,388	535,322,502
General Construction						
General Conditions, Const Mgmt & Field Supervision	30,244,130	8,487,010	4,931,920	7,560,000	2,471,840	53,694,900
Performance & Payment Bonds	2,160,295	606,215	352,280	540,000	176,560	3,835,350
Testing, Inspections & Surveys	4,320,590	1,212,430	704,560	1,080,000	353,120	7,670,700
Insurance	9,721,328	2,727,968	1,585,260	2,430,000	794,520	17,259,076
Total General Construction	46,446,343	13,033,623	7,574,020	11,610,000	3,796,040	82,460,026
Total Construction (Item A + Gen'l Const)	368,744,162	89,447,024	51,978,914	82,717,000	24,895,428	617,782,528
Soft Costs						
Planning, Arch/Engg Design	29,766,547	7,144,702	4,197,891	5,823,184	2,105,142	49,037,466
Program/Project Mgmt	7,200,000	1,800,000	1,000,000	1,500,000	500,000	12,000,000
Total Soft	36,966,547	8,944,702	5,197,891	7,323,184	2,605,142	61,037,466
Total Item A, Gen'l Const + Soft	405,710,709	98,391,726	57,176,805	90,040,184	27,500,570	678,819,994
Lessee $80 Million Investment	(80,000,000)					(80,000,000)
Passenger Terminal less $80 M	325,710,709					
Lessee Shared Environmental	2,000,000	1,500,000	500,000	-	-	4,000,000
Lessee Administrative	2,522,766	715,576	415,831	637,416	208,411	4,500,000
PA Construction Inspection	2,000,000	500,000	300,000	500,000	200,000	3,500,000
Carrying Costs (Financial Expense)	31,100,000	8,800,000	4,700,000	5,300,000	2,200,000	52,100,000
Element Budget	363,333,475	109,907,302	63,092,636	96,477,600	30,108,981	662,919,994

Project Budget

INITIALED:

FOR THE PORT AUTHORITY

FOR THE LESSEE

EXHIBIT 2.13

Terminal 5 Redevelopment
Anticipated Monthly Expenditure Schedule

Terminal		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
44,000,000	2005												44,000,000	44,000,000
105,486,219	2006	7,032,415	7,032,415	7,032,415	7,032,415	8,790,518	8,790,518	8,790,518	8,790,518	10,548,622	10,548,622	10,548,622	10,548,622	105,486,219
146,715,317	2007	12,226,276	12,226,276	12,226,276	12,226,276	12,226,276	12,226,276	12,226,276	12,226,276	12,226,276	12,226,276	12,226,276	12,226,276	146,715,317
36,031,939	2008	4,503,992	4,503,992	4,503,992	4,503,992	4,503,992	4,503,992	4,503,992	4,503,992	-	-	-	-	36,031,939
332,233,475														332,233,475

Airside		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
7,227,968	2005												7,227,968	7,227,968
35,533,708	2006	2,368,914	2,368,914	2,368,914	2,368,914	2,961,142	2,961,142	2,961,142	2,961,142	3,553,371	3,553,371	3,553,371	3,553,371	35,533,708
40,698,281	2007	3,391,523	3,391,523	3,391,523	3,391,523	3,391,523	3,391,523	3,391,523	3,391,523	3,391,523	3,391,523	3,391,523	3,391,523	40,698,281
17,647,345	2008	2,205,918	2,205,918	2,205,918	2,205,918	2,205,918	2,205,918	2,205,918	2,205,918	-	-	-	-	17,647,345
101,107,302														101,107,302

Landside		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
3,085,260	2005												3,085,260	3,085,260
19,169,535	2006	1,277,969	1,277,969	1,277,969	1,277,969	1,597,461	1,597,461	1,597,461	1,597,461	1,916,953	1,916,953	1,916,953	1,916,953	19,169,535
22,196,404	2007	1,849,700	1,849,700	1,849,700	1,849,700	1,849,700	1,849,700	1,849,700	1,849,700	1,849,700	1,849,700	1,849,700	1,849,700	22,196,404
13,941,437	2008	1,742,680	1,742,680	1,742,680	1,742,680	1,742,680	1,742,680	1,742,680	1,742,680	-	-	-	-	13,941,437
58,392,636														58,392,636

Skywalk		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
1,200,000	2005												1,200,000	1,200,000
7,518,971	2006	501,265	501,265	501,265	501,265	626,581	626,581	626,581	626,581	751,897	751,897	751,897	751,897	7,518,971
13,975,776	2007	1,164,648	1,164,648	1,164,648	1,164,648	1,164,648	1,164,648	1,164,648	1,164,648	1,164,648	1,164,648	1,164,648	1,164,648	13,975,776
5,214,234	2008	651,779	651,779	651,779	651,779	651,779	651,779	651,779	651,779	-	-	-	-	5,214,234
27,908,981														27,908,981

Garage		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
2,300,000	2005												2,300,000	2,300,000
16,863,064	2006	1,124,204	1,124,204	1,124,204	1,124,204	1,405,255	1,405,255	1,405,255	1,405,255	1,686,306	1,686,306	1,686,306	1,686,306	16,863,064
62,014,536	2007	5,167,878	5,167,878	5,167,878	5,167,878	5,167,878	5,167,878	5,167,878	5,167,878	5,167,878	5,167,878	5,167,878	5,167,878	62,014,536
10,000,000	2008	2,500,000	2,500,000	2,500,000	2,500,000	-	-	-	-	-	-	-	-	10,000,000
91,177,600														91,177,600

Total		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
57,813,228	2005	-	-	-	-	-	-	-	-	-	-	-	57,813,228	57,813,228
184,571,496	2006	12,304,766	12,304,766	12,304,766	12,304,766	15,380,958	15,380,958	15,380,958	15,380,958	18,457,150	18,457,150	18,457,150	18,457,150	184,571,496
285,600,314	2007	23,800,026	23,800,026	23,800,026	23,800,026	23,800,026	23,800,026	23,800,026	23,800,026	23,800,026	23,800,026	23,800,026	23,800,026	285,600,314
82,834,955	2008	11,604,369	11,604,369	11,604,369	11,604,369	9,104,369	9,104,369	9,104,369	9,104,369	-	-	-	-	82,834,955
610,819,993														610,819,993

INITIALED

FOR THE PORT AUTHORITY

FOR THE LESSEE

EXHIBIT 2.14

EXHIBIT 2.15

"Redevelopment Work Project Schedule"

to Lease No. AYD-350

between

THE PORT AUTHORITY OF NEW YORK AND NEW JERSEY

and

JETBLUE AIRWAYS CORPORATION

For the Port Authority

Initialed:

For the Lessee

TABLE OF CONTENTS

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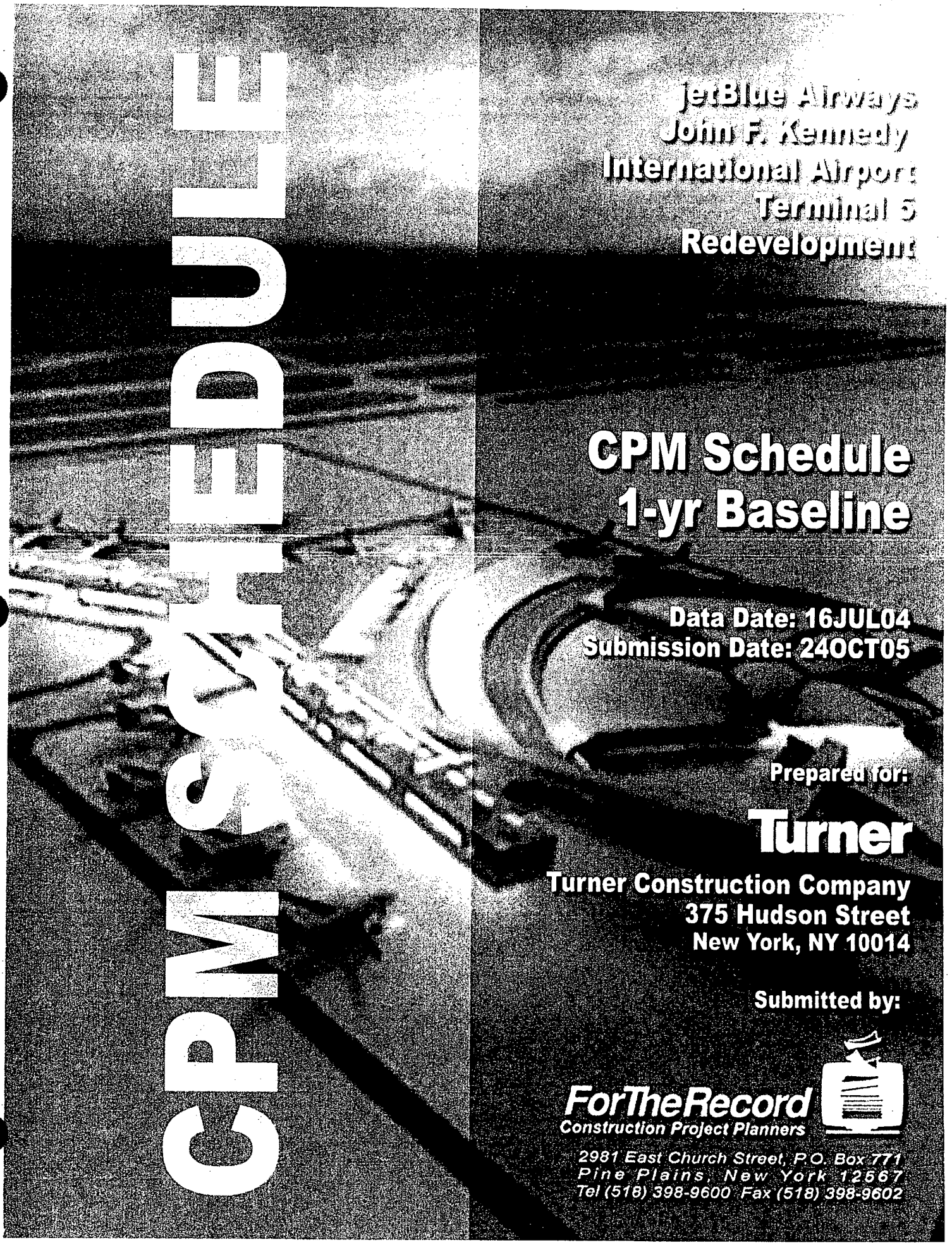
1.0	Redevelopment Work Project Schedule	
1.1	CPM Schedule 1-yr Baseline	80
1.2	Terminal 5 At Grade Connector Schedule	1
1.3	Terminal 5-6 Parking Garage Schedule	1

Section 1.0

Redevelopment Work Project Schedule

Section 1.1

CPM Schedule 1-yr Baseline


CPM SCHEDULE
JetBlue Airways
John F. Kennedy
International Airport
Terminal 5
Redevelopment
CPM Schedule
1-yr Baseline
Data Date: 16JUL04
Submission Date: 24OCT05
Prepared for:
Turner
Turner Construction Company
375 Hudson Street
New York, NY 10014
Submitted by:
ForTheRecord
Construction Project Planners
2981 East Church Street, P.O. Box 771
Pine Plains, New York 12567
Tel (518) 398-9600 Fax (518) 398-9602

Turner
A Century of Excellence

October 24, 2005

jetBlue Airways Corporation
118-29 Queens Blvd
Forest Hills, NY 11375

Attention: Mr. Richard Smyth

Subject: CPM Schedule 1-yr Baseline (16JUL04)

Project:
jetBlue Airways
JOHN F. KENNEDY INTERNATIONAL AIRPORT
TERMINAL 5 REDEVELOPMENT

Dear Mr. Smyth:

For your use, review and approval, enclosed please find our CPM Schedule 1-yr Baseline Report for the captioned project, data date July 16, 2004. This report consists of the following:

- 1-yr Baseline CPM Schedule Narrative
- 1-yr Baseline CPM Schedule Critical Path Bar Chart
- 1-yr Baseline CPM Schedule Summary Bar Chart
- 1-yr Baseline CPM Schedule Milestone Bar Chart
- 1-yr Baseline CPM Schedule All Activities Bar Chart
- 1-yr Baseline CPM Schedule All Activities Act-Id Report

Should you have any comments or questions, please call.

Sincerely,
TURNER CONSTRUCTION COMPANY

Emad Lotfalla
Project Executive

Enclosures

ForTheRecord
Construction Project Planners

Project:
jetBlue Airways
JOHN F. KENNEDY INTERNATIONAL AIRPORT
TERMINAL 5 REDEVELOPMENT

1-yr BASELINE CPM SCHEDULE NARRATIVE

PROJECT DESCRIPTION

- This project includes a 26 Gate, 650,000 square foot terminal for the expansion of jetBlue facilities at John F. Kennedy International Airport. The program includes the construction of the Main Terminal, fixed passenger bridges, special equipment, Air Train Connector, Flight Tubes, Airside Civil and Landside Civil work.

SCHEDULE GENERAL INFORMATION AND ASSUMPTIONS

- This report represents Turner Construction Company's (Turner's) CPM Schedule 1-yr Baseline Report as of July 16, 2004. This 1-yr Baseline Schedule was developed in close cooperation with key members of the Turner team and it reflects their input as to the duration of each task and respective sequencing of work. Each of these members reviewed it for content, level of detail, dependencies amongst the different trade disciplines and compliance with contract requirements.

- This 1-yr Baseline Schedule attempts to anticipate and monitor all of Turner's tasks that may have an impact on the timely prosecution and eventual completion of the Project. It includes detailed activities for Turner's submittal, material procurement and construction work scheduled to occur in the first year and summary activities for the balance of the Project. The schedule shows activities from July 16, 2004, the Notice To Proceed to January 9, 2009, the Final Completion Date.

- **July 16, 2004** was designated as the **Start of The Schedule Network.**

- **October 17, 2005** was designated as the **Start of Construction.**

- **August 18, 2008** was designated as the **Target Substantial Completion Date.**

- For the purposes of this 1-yr Baseline CPM Schedule, the critical activities have been defined as the activities on the Longest Path

- This is a 1-yr schedule and is subject to change once major trades have been awarded.

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Construction Project Planners

Project:
jetBlue Airways
JOHN F. KENNEDY INTERNATIONAL AIRPORT
TERMINAL 5 REDEVELOPMENT

1-yr BASELINE CPM SCHEDULE NARRATIVE

- This schedule is based on progress construction documents between 60% and 80 % complete.
- The pre-construction phase of this schedule is based on ARUP's TAA submission schedule issued August 5th, 2005.
- TCCo reserves the right to change durations and/or sequence upon review of final construction drawings.
- Permanent Power is shown to be available from the Port Authority on February 27, 2008.
- Permanent Sanitary Line is shown to be available from the Port Authority on March 28, 2007.
- Building Watertight at the Head House is shown on January 28, 2008.
- Once construction commences, Turner plans to have a continuous work operation at the job site.
- One (1) calendar has been set up for this project:
  - Calendar No. 1: Normal 5-Day Workweek Calendar. It assumes a workweek to be five (5) days long with Saturdays and Sundays and all legal holidays designated as non-working periods.
- For the purpose of graphics and data presentation, the project has been primarily broken down into the following activity code structure:

PHAS	Phases
STAG	Stage
LOC	Location
FLOO	Floor
AREA	Area
SARE	Sub Area
TRAD	Trade

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Construction Project Planners

Project:
jetBlue Airways
JOHN F. KENNEDY INTERNATIONAL AIRPORT
TERMINAL 5 REDEVELOPMENT

1-yr BASELINE CPM SCHEDULE NARRATIVE

This Baseline CPM Schedule is NOT cost or resource-loaded.

The following are some schedule statistics:

• Number of activities	1,300
• Critical activities in longest path	81
• Started activities	0
• Completed activities	0
• Number of relationships	2,163
• Percent complete	0
• Number of early constraints	76
• Number of late constraints	1
• Data date	16JUL04
• Imposed Substantial Completion date	18AUG08
• Calculated Substantial Completion date	18AUG08

CHANGES TO THE NETWORK LOGIC:

(NOTE: Refer to the Activity ID listing in this report for complete activity information when only the activity ID is mentioned below)

This section is reserved for future use when updating the schedule.

Out-of-sequence-progress logic (those instances where activities were started or completed this period in a different sequence than originally outlined in the approved baseline schedule) was corrected this period as follows:

- This section is reserved for future use when updating the schedule.

SCHEDULE AND CRITICAL PATH ANALYSIS

This 1-yr Baseline CPM Schedule projects a Substantial Completion Date of August 18, 2008 and a Final Completion of January 9, 2009.

ForTheRecord
Construction Project Planners

Project:
jetBlue Airways
JOHN F. KENNEDY INTERNATIONAL AIRPORT
TERMINAL 5 REDEVELOPMENT

1-yr BASELINE CPM SCHEDULE NARRATIVE

The 1-yr Baseline critical path begins with the Start Construction Milestone constrained to October 17, 2005.

Site Preparation
From the start of construction, the critical path moves through the site preparation stage with activities associated with the demolition of Flight Wing 1 and Flight Wing 2 being critical and the activities associated with the removal of the existing hydrant fueling system being critical. Demolition of Flight Wing 1 begins on November 14, 2005 followed by the demolition of Flight Wing 2 beginning one month later. The demolition of Flight Wing 2 is critical because it affects the driving of piles at zones 10, 11, 15 and 16. Removal of the existing hydrant fueling system is critical because the system must be at least partially removed before any pile driving can commence.

Piles and Foundations
Once site preparation is sufficiently underway, the pile driving will begin and the critical path switches to the terminal construction stage. The terminal construction critical path begins with the driving of piles at zone 4 of the concourse and zone 6 of the head house. From zone 4 pile driving, the concourse critical path moves to pile driving at zone 3 and then zone 2 and then zone 1. The concourse piles and foundation critical path leads to the start of steel erection at the concourse.

From zone 6 pile driving, the head house critical path moves to pile driving at zone 7 and then zone 10. The concourse piles and foundation critical path leads to the start of steel erection at zone 6.

Superstructure
Steel erection at the concourse begins at zone 4 on May 18, 2006. The critical path then includes zone 3 steel erection, metal deck placement, trade roughing, roof installation and spray-on fireproofing. This path leads to the start of the exterior wall at the concourse.

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TERMINAL 5 REDEVELOPMENT

1-yr BASELINE CPM SCHEDULE NARRATIVE

Steel erection at the head house begins at zone 6 on June 28, 2006. From there, critical steel erection includes zones 5, 7, 8, 9, 10 and 11. Head house superstructure work is critical through spray on fireproofing at zone 11. This path leads to the start of the exterior wall and the start of interior MEP roughing at the head house.

Summary Activities
The balance of the critical path contains summary activities, which will be detailed upon award of the major trades.

At the concourse, the path moves through the exterior wall and building enclosure.

At the head house, the path moves through MEP roughing, exterior wall, architectural finishes and commissioning.

Other critical summary activities include the low voltage and BMS work and the baggage handling system.

Substantial Completion
All critical work leads to the pre-punchlist work, Port Authority inspections and sign off and Substantial Completion on August 18, 2008.

For a complete listing of the critical path activities, please see the enclosed critical path bar chart.

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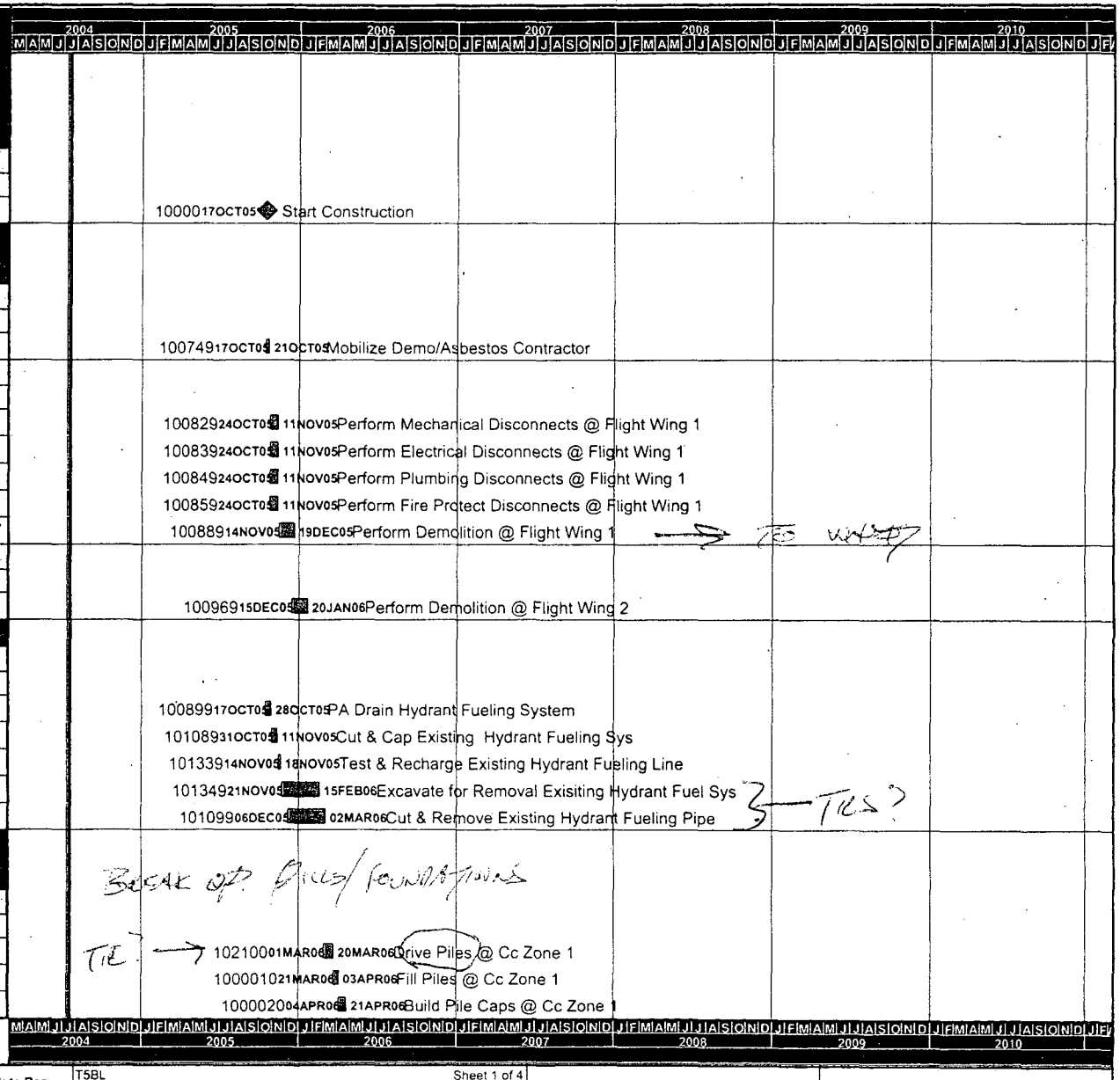
Activity ID	Dur	%	Total Float	Early Start	Early Finish
Construction					
Mobilization					
10000	0	0	0	17OCT05*	
Site Preparation					
Bldg Demolition					
Mobilization					
100749	5	0	0	17OCT05	21OCT05
Flight Wing 1					
100829	15	0	0	24OCT05	11NOV05
100839	15	0	0	24OCT05	11NOV05
100849	15	0	0	24OCT05	11NOV05
100859	15	0	0	24OCT05	11NOV05
100889	25	0	0	14NOV05	19DEC05
Flight Wing 2					
100969	25	0	0	15DEC05	20JAN06
Hydrant Fueling System					
Removal of Existing Hydrant Fueling Sys					
100899	10	0	0	17OCT05	28OCT05
101089	10	0	0	31OCT05	11NOV05
101339	5	0	0	14NOV05	18NOV05
101349	60	0	0	21NOV05	15FEB06
101099	60	0	0	06DEC05	02MAR06
Terminal Construction					
Concourse					
Piles & Foundations					
Concourse Zone 1					
102100	14	0	0	01MAR06	20MAR06
1000010	10	0	0	21MAR06	03APR06
1000020	14	0	0	04APR06	21APR06



Start Date	16JUN04
Finish Date	16JAN09
Data Date	16JUL04
Run Date	18OCT05 13:48

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Progress Bar
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John F. Kennedy International Airport
Terminal 5 Redevelopment
Construction 1-yr Baseline Schedule
Critical Path Bar Chart

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Turner Construction Company

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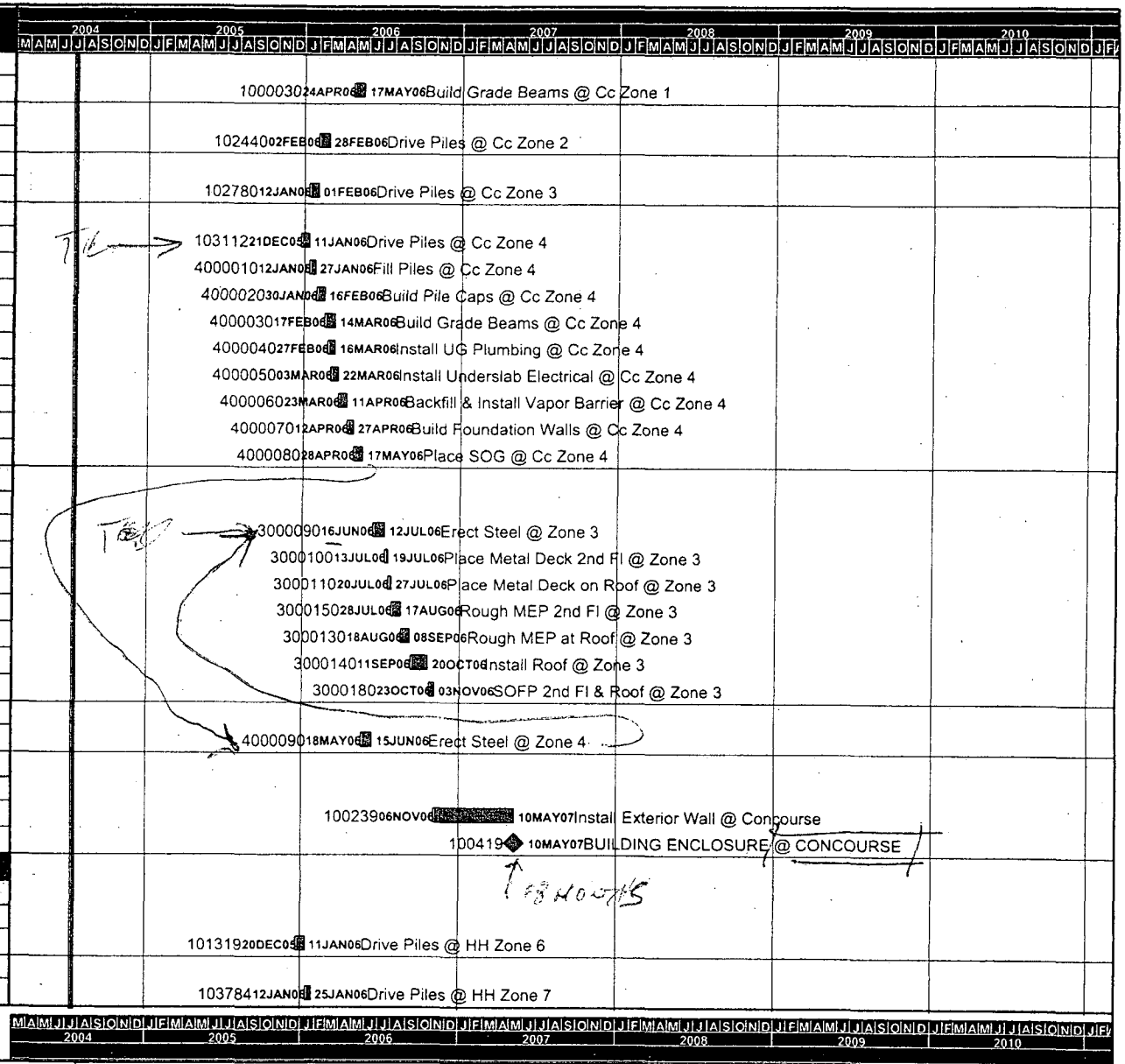
Activity ID	Dur	%	Total Float	Early Start	Early Finish
Concourse Zone 1					
1000030	18	0	0	24APR06	17MAY06
Concourse Zone 2					
102440	18	0	0	02FEB06	28FEB06
Concourse Zone 3					
102780	15	0	0	12JAN06	01FEB06
Concourse Zone 4					
103112	14	0	0	21DEC05	11JAN06
4000010	12	0	0	12JAN06	27JAN06
4000020	14	0	0	30JAN06	16FEB06
4000030	17	0	0	17FEB06	14MAR06
4000040	14	0	0	27FEB06	16MAR06
4000050	14	0	0	03MAR06	22MAR06
4000060	14	0	0	23MAR06	11APR06
4000070	12	0	0	12APR06	27APR06
4000080	14	0	0	28APR06	17MAY06
Superstructure					
Concourse Zone 3					
3000090	18	0	0	16JUN06	12JUL06
3000100	5	0	0	13JUL06	19JUL06
3000110	6	0	0	20JUL06	27JUL06
3000150	15	0	0	28JUL06	17AUG06
3000130	15	0	0	18AUG06	08SEP06
3000140	30	0	0	11SEP06	20OCT06
3000180	10	0	0	23OCT06	03NOV06
Concourse Zone 4					
4000090	20	0	0	18MAY06	15JUN06
Summary Schedule Activities					
100239	130	0	0	06NOV06	10MAY07
100419	0	0	0		10MAY07
Head House					
Piles & Foundations					
Head House Zone 6					
101319	15	0	0	20DEC05	11JAN06
Head House Zone 7					
103784	10	0	0	12JAN06	25JAN06



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Construction 1-yr Baseline Schedule
Critical Path Bar Chart

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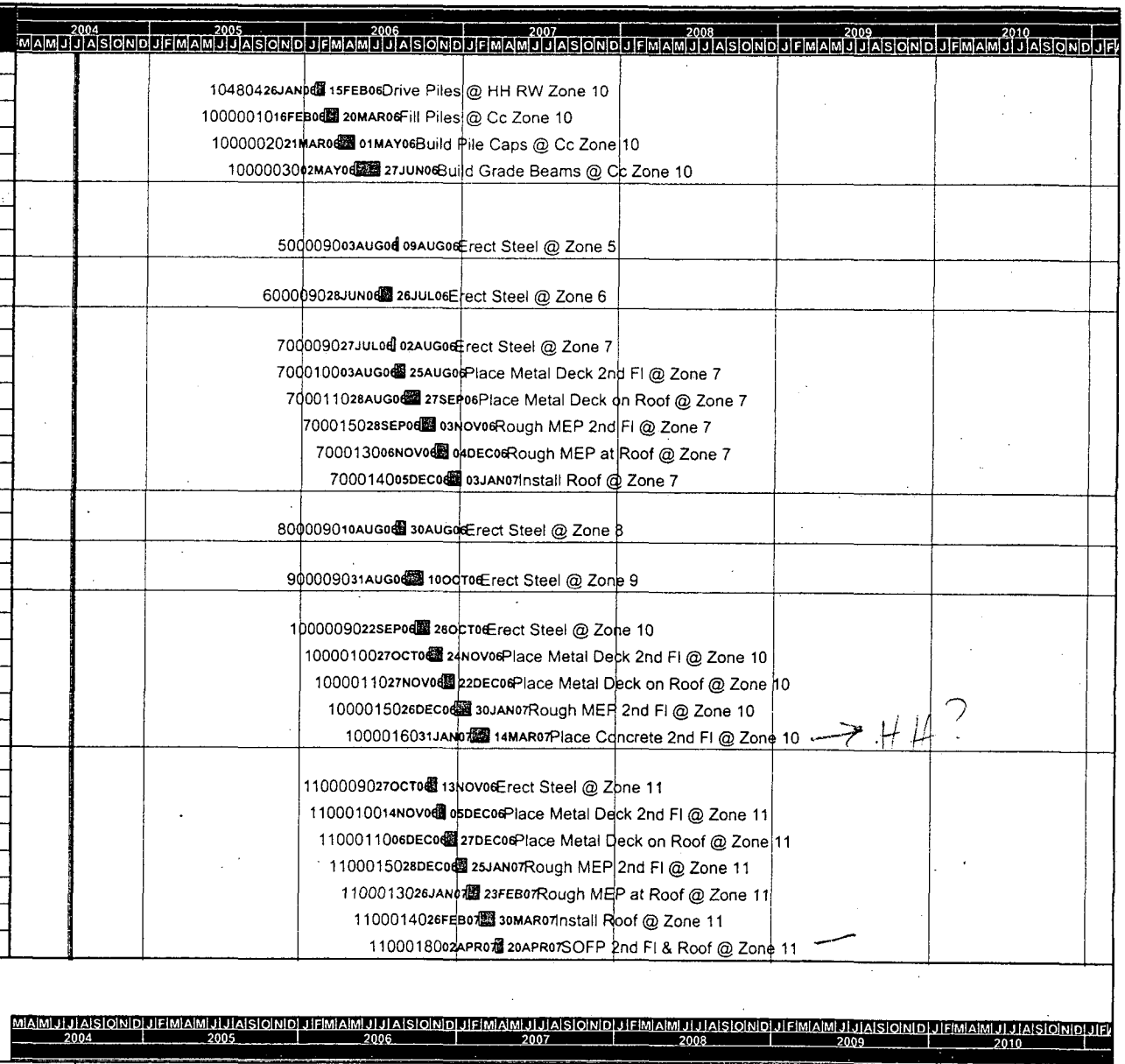
Construction Project Planners

Activity ID	Dur	%	Total Float	Early Start	Early Finish
Head House Zone 10					
104804	15	0	0	26JAN06	15FEB06
10000010	22	0	0	16FEB06	20MAR06
10000020	30	0	0	21MAR06	01MAY06
10000030	40	0	0	02MAY06	27JUN06
Superstructure					
Head House Zone 5					
5000090	5	0	0	03AUG06	09AUG06
Head House Zone 6					
6000090	20	0	0	28JUN06	26JUL06
Head House Zone 7					
7000090	5	0	0	27JUL06	02AUG06
7000100	17	0	0	03AUG06	25AUG06
7000110	22	0	0	28AUG06	27SEP06
7000150	27	0	0	28SEP06	03NOV06
7000130	20	0	0	06NOV06	04DEC06
7000140	20	0	0	05DEC06	03JAN07
Head House Zone 8					
8000090	15	0	0	10AUG06	30AUG06
Head House Zone 9					
9000090	28	0	0	31AUG06	10OCT06
Head House Zone 10					
10000090	25	0	0	22SEP06	26OCT06
10000100	20	0	0	27OCT06	24NOV06
10000110	20	0	0	27NOV06	22DEC06
10000150	25	0	0	26DEC06	30JAN07
10000160	30	0	0	31JAN07	14MAR07
Head House Zone 11					
11000090	12	0	0	27OCT06	13NOV06
11000100	15	0	0	14NOV06	05DEC06
11000110	15	0	0	06DEC06	27DEC06
11000150	20	0	0	28DEC06	25JAN07
11000130	20	0	0	26JAN07	23FEB07
11000140	25	0	0	26FEB07	30MAR07
11000180	15	0	0	02APR07	20APR07



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Critical Path Bar Chart

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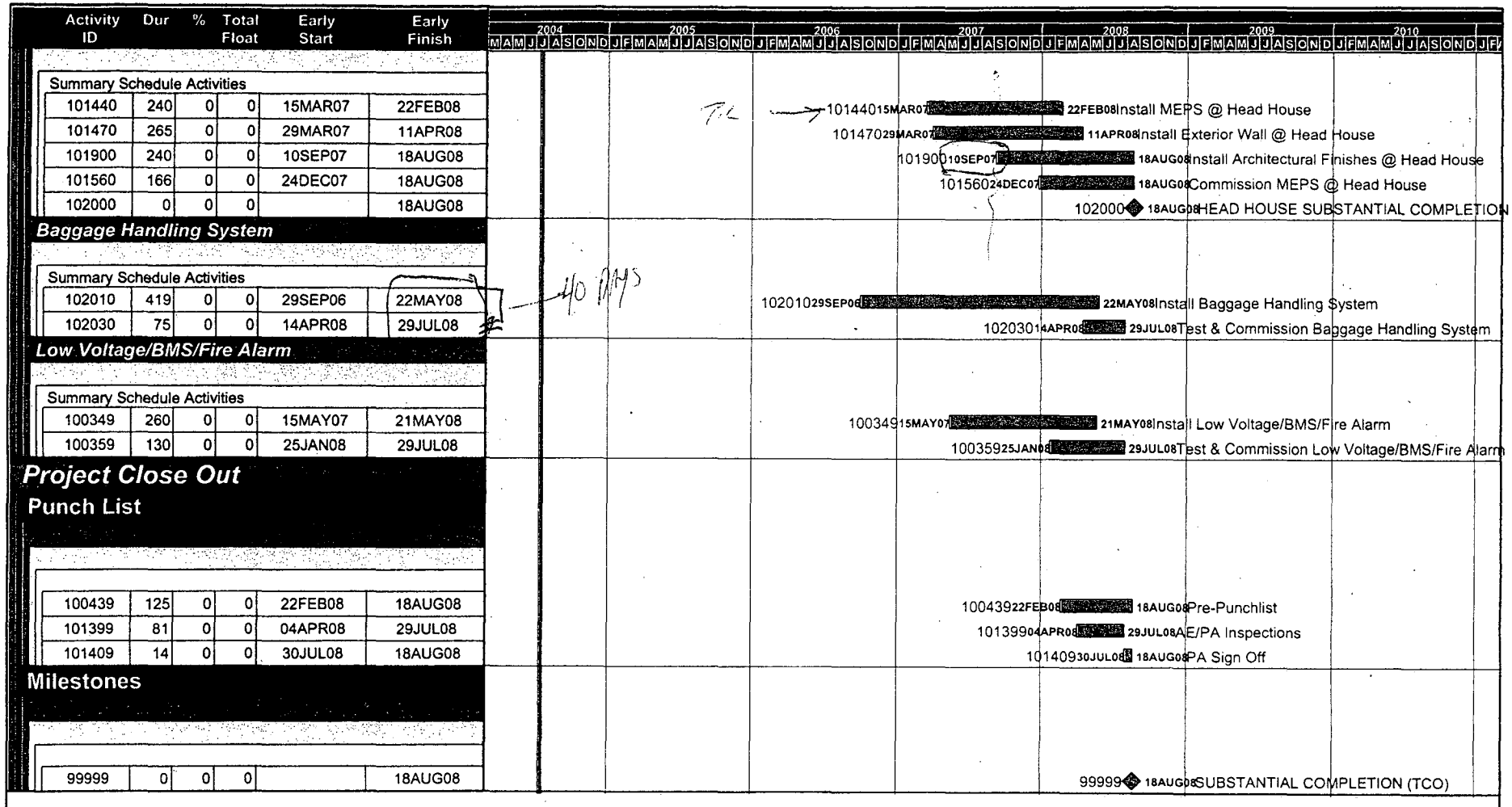

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Critical Path Bar Chart

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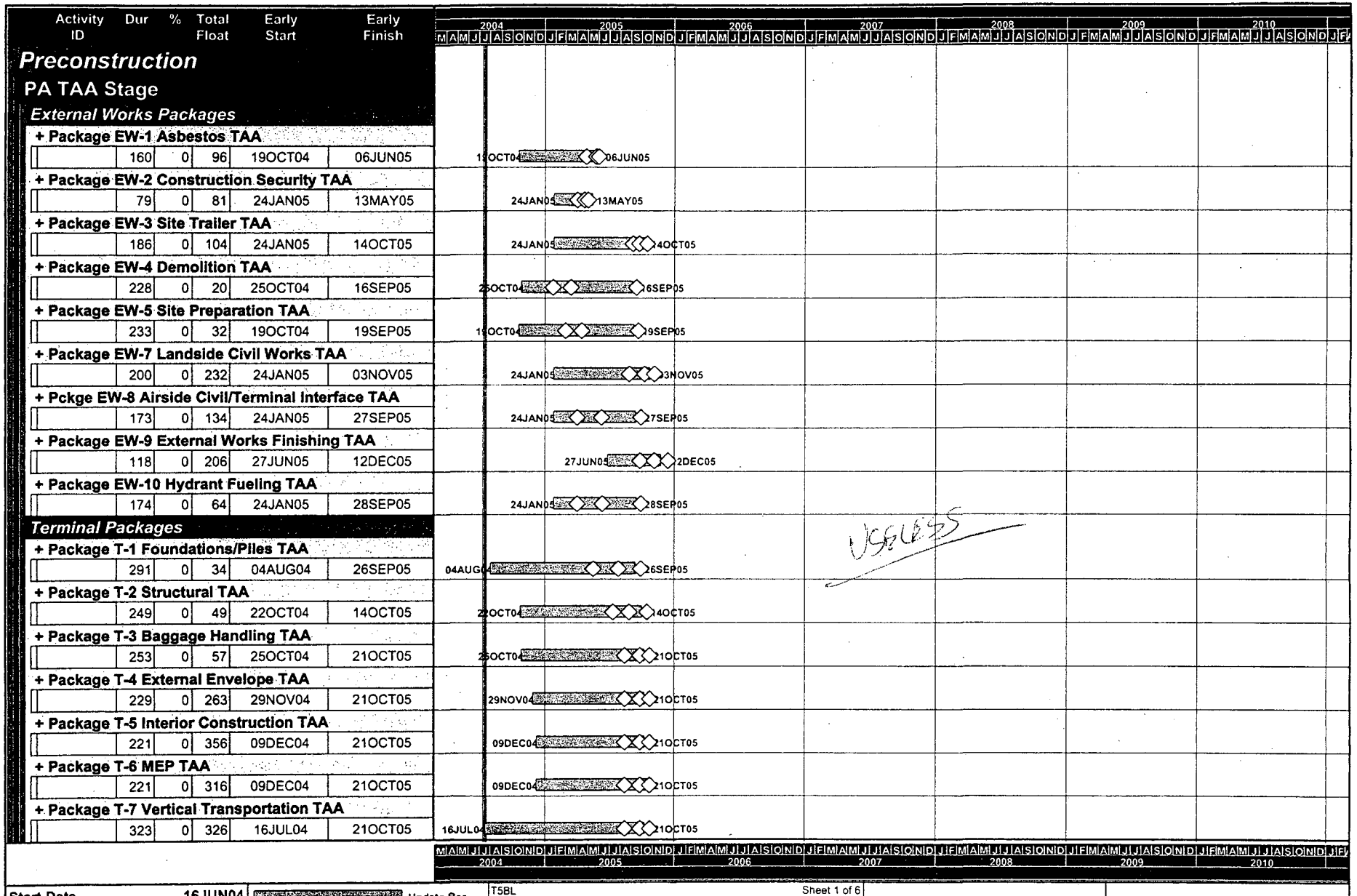

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Construction 1-yr Baseline Schedule
Summary Bar Chart

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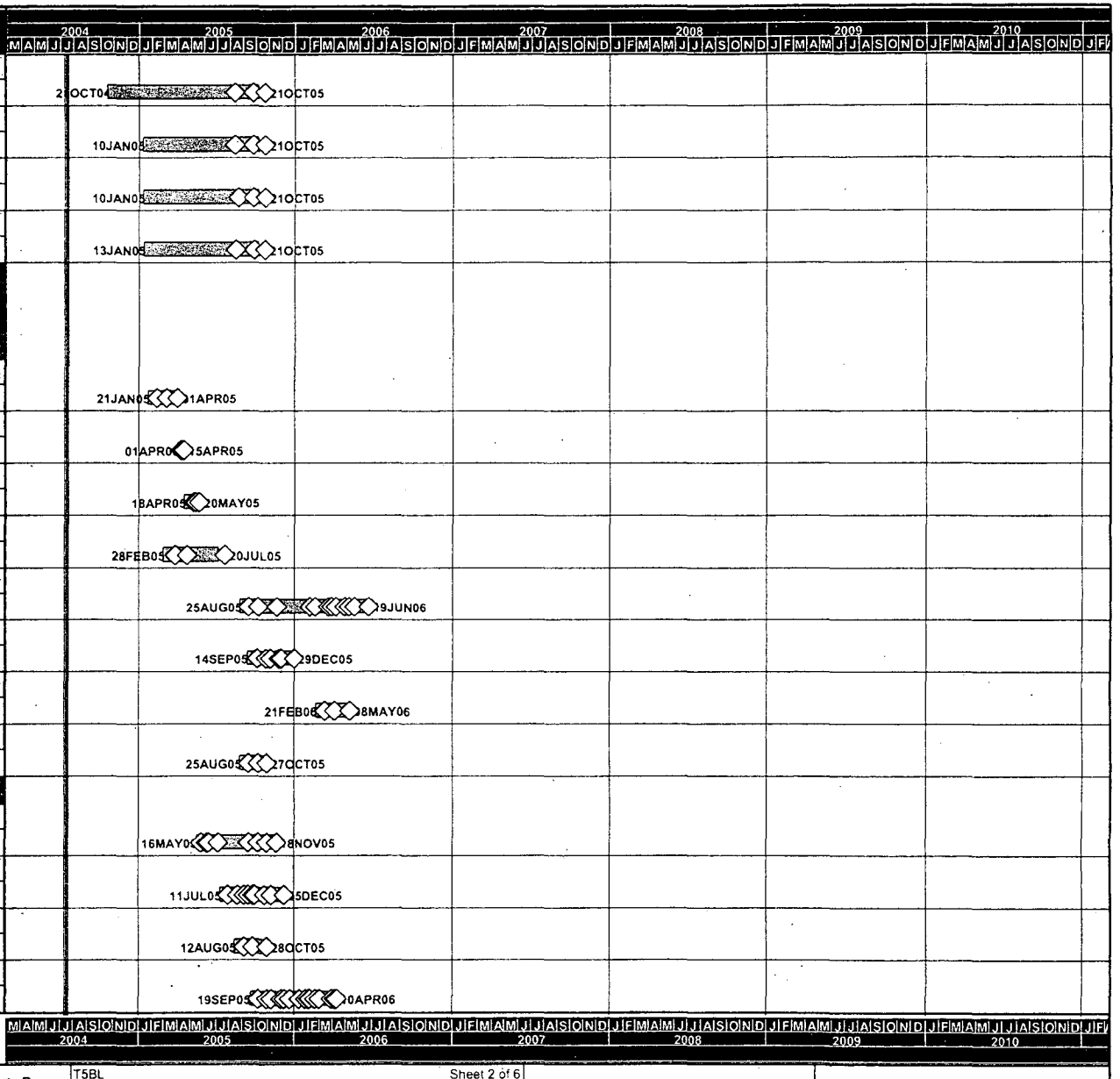
Construction Project Planners

Activity ID	Dur	%	Total Float	Early Start	Early Finish
+ Package T-8 PLB TAA					
	255	0	566	21OCT04	21OCT05
+ Package T-9 Security Data TAA					
	201	0	356	10JAN05	21OCT05
+ Package T-10 Communication & IT TAA					
	201	0	316	10JAN05	21OCT05
+ Package T-12 Life Safety/Emergency Egress TAA					
	198	0	316	13JAN05	21OCT05
Construction Start Up					
Procurement					
External Works Packages					
+ EW-1 & EW-4 Asebstos & Demolition					
	50	0	137	21JAN05	01APR05
+ Package EW-2 Construction Security TAA					
	11	0	82	01APR05	15APR05
+ Package EW-3 Site Trailer TAA					
	25	0	61	18APR05	20MAY05
+ Package EW-5 Site Preparation TAA					
	101	0	8	28FEB05	20JUL05
+ Package EW-7 Landside Civil Works TAA					
	207	0	220	25AUG05	19JUN06
+ Pckge EW-8 Airside Civil/Terminal Interface TAA					
	75	0	294	14SEP05	29DEC05
+ Package EW-9 External Works Finishing TAA					
	55	0	164	21FEB06	08MAY06
+ Package EW-10 Hydrant Fueling TAA					
	45	0	77	25AUG05	27OCT05
Terminal Packages					
+ Package T-1 Foundations/Piles TAA					
	132	0	21	16MAY05	18NOV05
+ Package T-2 Structural TAA					
	104	0	99	11JUL05	05DEC05
+ Package T-3 Baggage Handling TAA					
	55	0	22	12AUG05	28OCT05
+ Package T-4 External Envelope TAA					
	142	0	54	19SEP05	10APR06



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Summary Bar Chart

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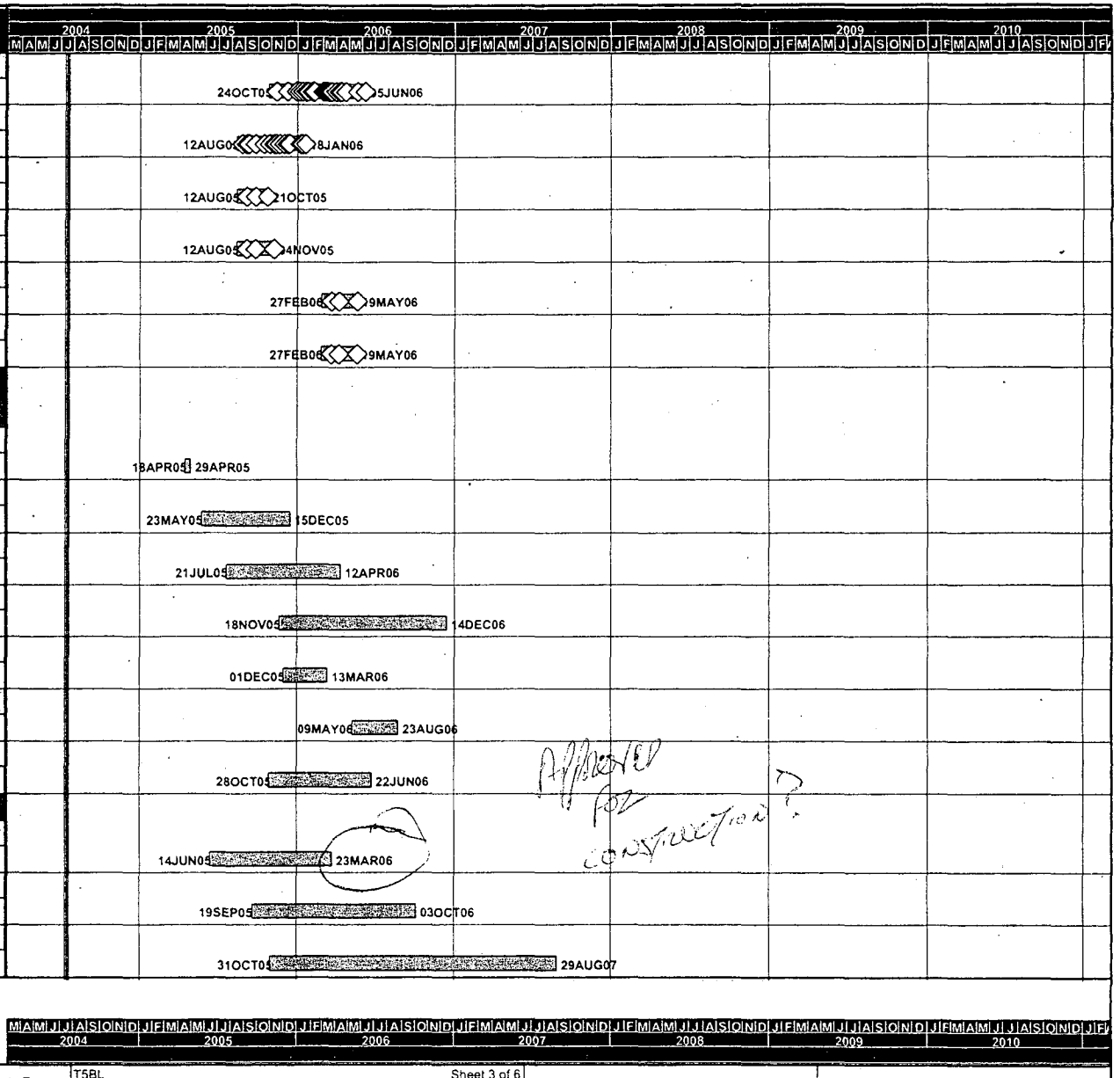
ForTheRecord
Construction Project Planners

Activity ID	Dur	%	Total Float	Early Start	Early Finish
+ Package T-5 Interior Construction TAA					
	156	0	220	24OCT05	05JUN06
+ Package T-6 MEP TAA					
	110	0	141	12AUG05	18JAN06
+ Package T-7 Vertical Transportation TAA					
	50	0	146	12AUG05	21OCT05
+ Package T-8 PLB TAA					
	60	0	196	12AUG05	04NOV05
+ Package T-9 Security Data TAA					
	60	0	35	27FEB06	19MAY06
+ Package T-10 Communication & IT TAA					
	60	0	25	27FEB06	19MAY06
Engineering/Fabrication					
External Works Packages					
+ Package EW-2 Construction Security TAA					
	10	0	82	18APR05	29APR05
+ Package EW-3 Site Trailer TAA					
	145	0	61	23MAY05	15DEC05
+ Package EW-5 Site Preparation TAA					
	185	0	197	21JUL05	12APR06
+ Package EW-7 Landside Civil Works TAA					
	272	0	215	18NOV05	14DEC06
+ Pckge EW-8 Airside Civil/Terminal Interface TAA					
	70	0	279	01DEC05	13MAR06
+ Package EW-9 External Works Finishing TAA					
	75	0	164	09MAY06	23AUG06
+ Package EW-10 Hydrant Fueling TAA					
	165	0	77	28OCT05	22JUN06
Terminal Packages					
+ Package T-1 Foundations/Piles TAA					
	197	0	21	14JUN05	23MAR06
+ Package T-2 Structural TAA					
	265	0	24	19SEP05	03OCT06
+ Package T-3 Baggage Handling TAA					
	465	0	22	31OCT05	29AUG07



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Terminal 5 Redevelopment
Construction 1-yr Baseline Schedule
Summary Bar Chart

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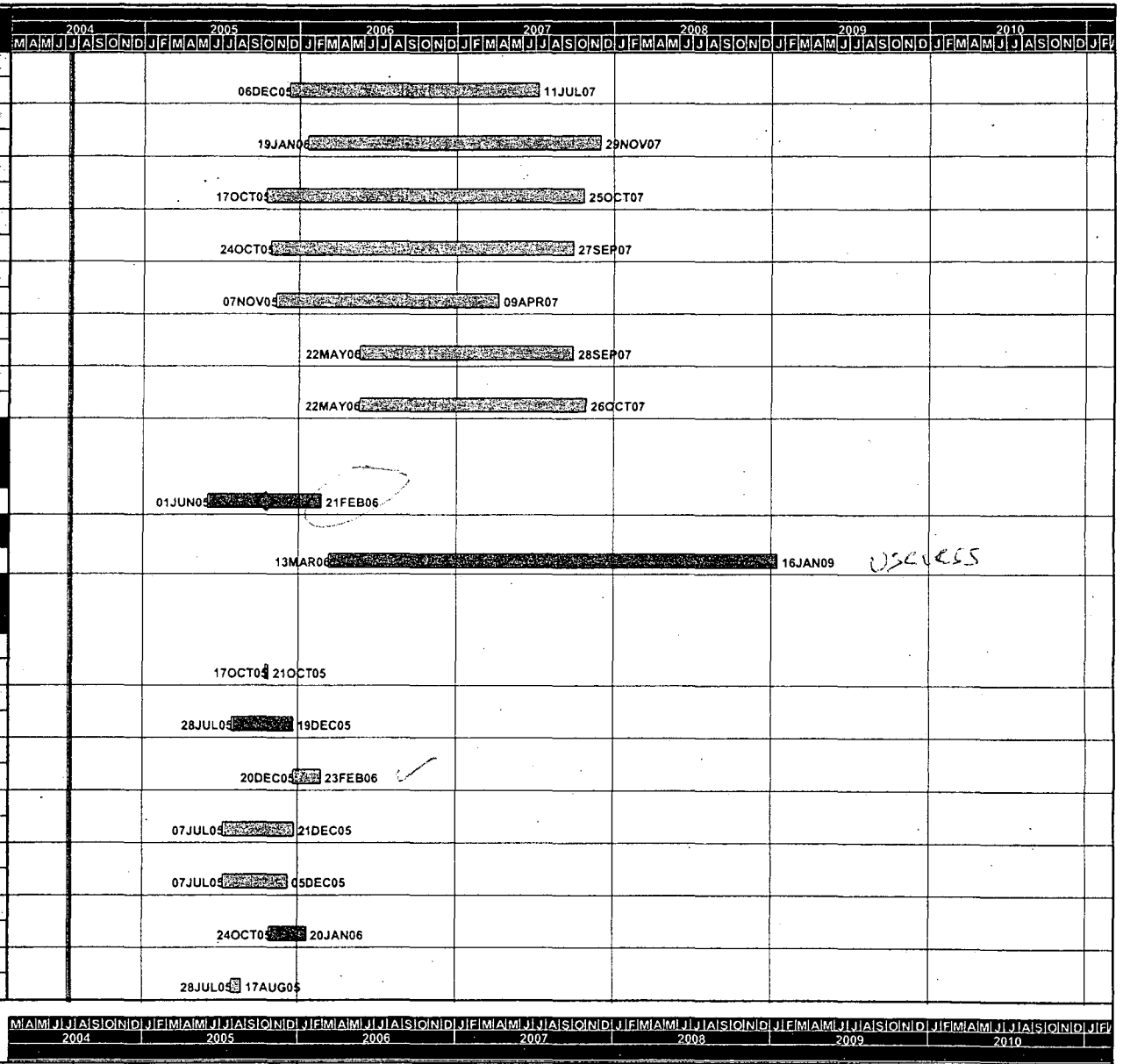
ForTheRecord
Construction Project Planners

Activity ID	Dur	%	Total Float	Early Start	Early Finish
+ Package T-4 External Envelope TAA					
	405	0	28	06DEC05	11JUL07
+ Package T-5 Interior Construction TAA					
	474	0	102	19JAN06	29NOV07
+ Package T-6 MEP TAA					
	515	0	62	17OCT05	25OCT07
+ Package T-7 Vertical Transportation TAA					
	490	0	146	24OCT05	27SEP07
+ Package T-8 PLB TAA					
	360	0	196	07NOV05	09APR07
+ Package T-9 Security Data TAA					
	345	0	35	22MAY06	28SEP07
+ Package T-10 Communication & IT TAA					
	365	0	25	22MAY06	26OCT07
Construction					
+ Mobilization					
	184	0	61	01JUN05	21FEB06
+ Sitework/Roadways/Utilities					
	725	0	0	13MAR06	16JAN09
Site Preparation					
Bldg Demolition					
+ Mobilization					
	5	0	0	17OCT05	21OCT05
+ Flight Wing 1					
	101	0	0	28JUL05	19DEC05
+ Flight Wing 1 Basement					
	45	0	10	20DEC05	23FEB06
+ Building 296					
	118	0	26	07JUL05	21DEC05
+ Building 8 OB Baggage					
	106	0	69	07JUL05	05DEC05
+ Flight Wing 2					
	62	0	0	24OCT05	20JAN06
+ Building 164					
	15	0	387	28JUL05	17AUG05



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Terminal 5 Redevelopment
Construction 1-yr Baseline Schedule
Summary Bar Chart

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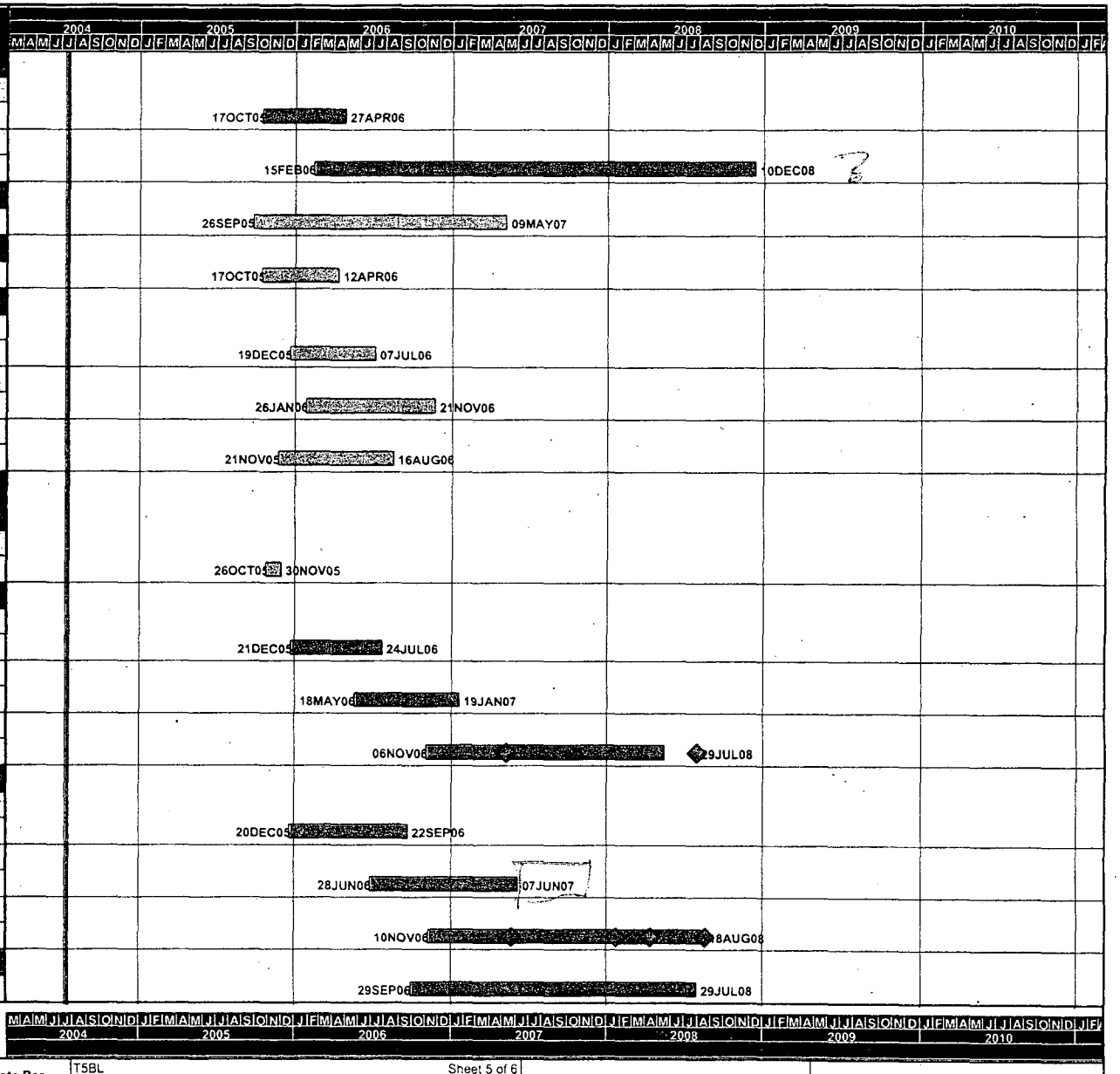
ForTheRecord
Construction Project Planners

Activity ID	Dur	%	Total Float	Early Start	Early Finish
Hydrant Fueling System					
+ Removal of Existing Hydrant Fueling Sys	135	0	16	17OCT05	27APR06
+ New Hydrant Fueling Sys	717	0	0	15FEB06	10DEC08
+ Pavement Removal	412	0	49	26SEP05	09MAY07
+ Exisiting Utility Removal & Relocation	124	0	687	17OCT05	12APR06
New Utilities					
+ Site Drainage	140	0	197	19DEC05	07JUL06
+ Balance of Utilities	210	0	116	26JAN06	21NOV06
+ Electrical	187	0	214	21NOV05	16AUG06
Terminal Construction					
Pile Test Program					
+ Piles & Foundations	25	0	13	26OCT05	30NOV05
Concourse					
+ Piles & Foundations	149	0	105	21DEC05	24JUL06
+ Superstructure	171	0	181	18MAY06	19JAN07
+ Summary Schedule Activities	439	0	14	06NOV06	29JUL08
Head House					
+ Piles & Foundations	193	0	588	20DEC05	22SEP06
+ Superstructure	240	0	409	28JUN06	07JUN07
+ Summary Schedule Activities	449	0	0	10NOV06	18AUG08
+ Baggage Handling System	465	0	0	29SEP06	29JUL08



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Terminal 5 Redevelopment
Construction 1-yr Baseline Schedule
Summary Bar Chart

Turner
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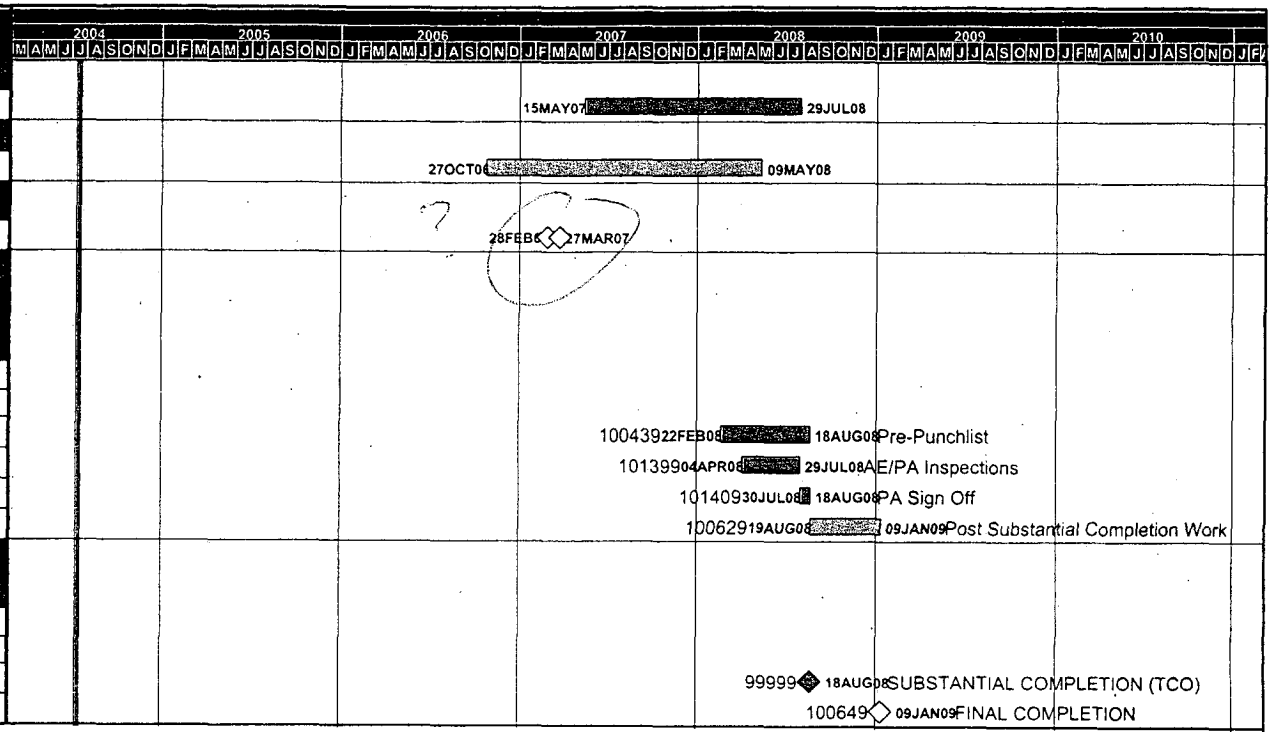
ForTheRecord
Construction Project Planners

Activity ID	Dur	%	Total Float	Early Start	Early Finish
+ Low Voltage/BMS/Fire Alarm					
	307	0	0	15MAY07	29JUL08
+ Vertical Transportation					
	390	0	69	27OCT06	09MAY08
+ Port Authority Milestones					
	20	0	211	28FEB07	27MAR07
Project Close Out					
Punch List					
100439	125	0	0	22FEB08	18AUG08
101399	81	0	0	04APR08	29JUL08
101409	14	0	0	30JUL08	18AUG08
100629	100	0	5	19AUG08	09JAN09
Milestones					
99999	0	0	0		18AUG08
100649	0	0	5		09JAN09



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Terminal 5 Redevelopment
Construction 1-yr Baseline Schedule
Summary Bar Chart

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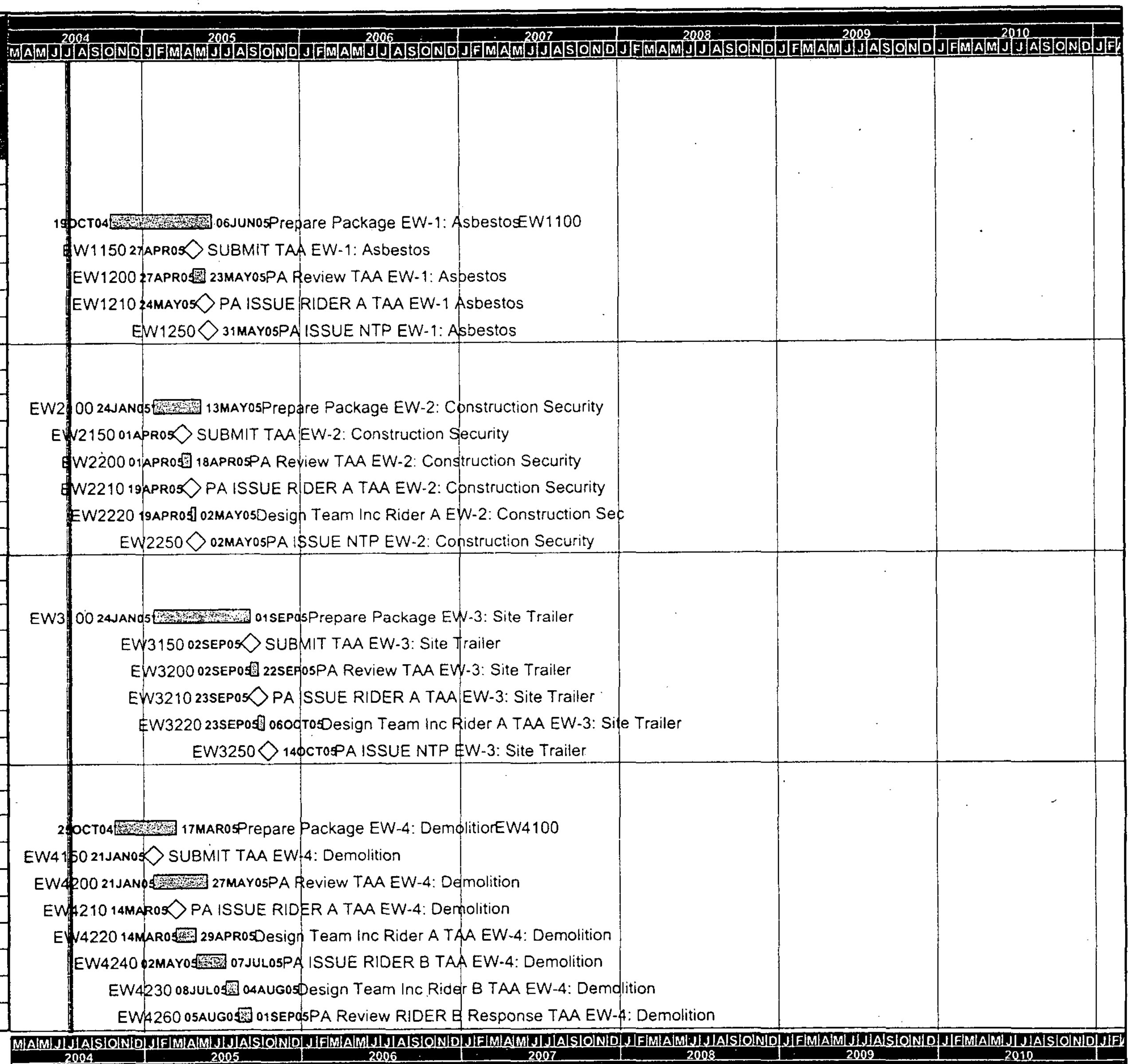
Construction Project Planners

Preconstruction

PA TAA Stage

External Works Packages

Activity ID	Dur	%	Total Float	Early Start	Early Finish
Package EW-1 Asbestos TAA					
EW1100	160	0	96	19OCT04*	06JUN05
EW1150	0	0	96	27APR05	
EW1200	19	0	96	27APR05	23MAY05
EW1210	0	0	96	24MAY05	
EW1250	0	0	96		31MAY05
Package EW-2 Construction Security TAA					
EW2100	79	0	81	24JAN05*	13MAY05
EW2150	0	0	81	01APR05	
EW2200	12	0	81	01APR05	18APR05
EW2210	0	0	81	19APR05	
EW2220	10	0	81	19APR05	02MAY05
EW2250	0	0	81		02MAY05
Package EW-3 Site Trailer TAA					
EW3100	156	0	104	24JAN05*	01SEP05
EW3150	0	0	104	02SEP05	
EW3200	14	0	104	02SEP05	22SEP05
EW3210	0	0	104	23SEP05	
EW3220	10	0	104	23SEP05	06OCT05
EW3250	0	0	104		14OCT05
Package EW-4 Demolition TAA					
EW4100	100	0	20	25OCT04*	17MAR05
EW4150	0	0	20	21JAN05	
EW4200	90*	0	20	21JAN05	27MAY05
EW4210	0	0	20	14MAR05	
EW4220	35	0	20	14MAR05	29APR05
EW4240	47	0	20	02MAY05	07JUL05
EW4230	20	0	20	08JUL05	04AUG05
EW4260	20	0	20	05AUG05	01SEP05



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Construction 1-yr Baseline Schedule
All Activities Bar Chart

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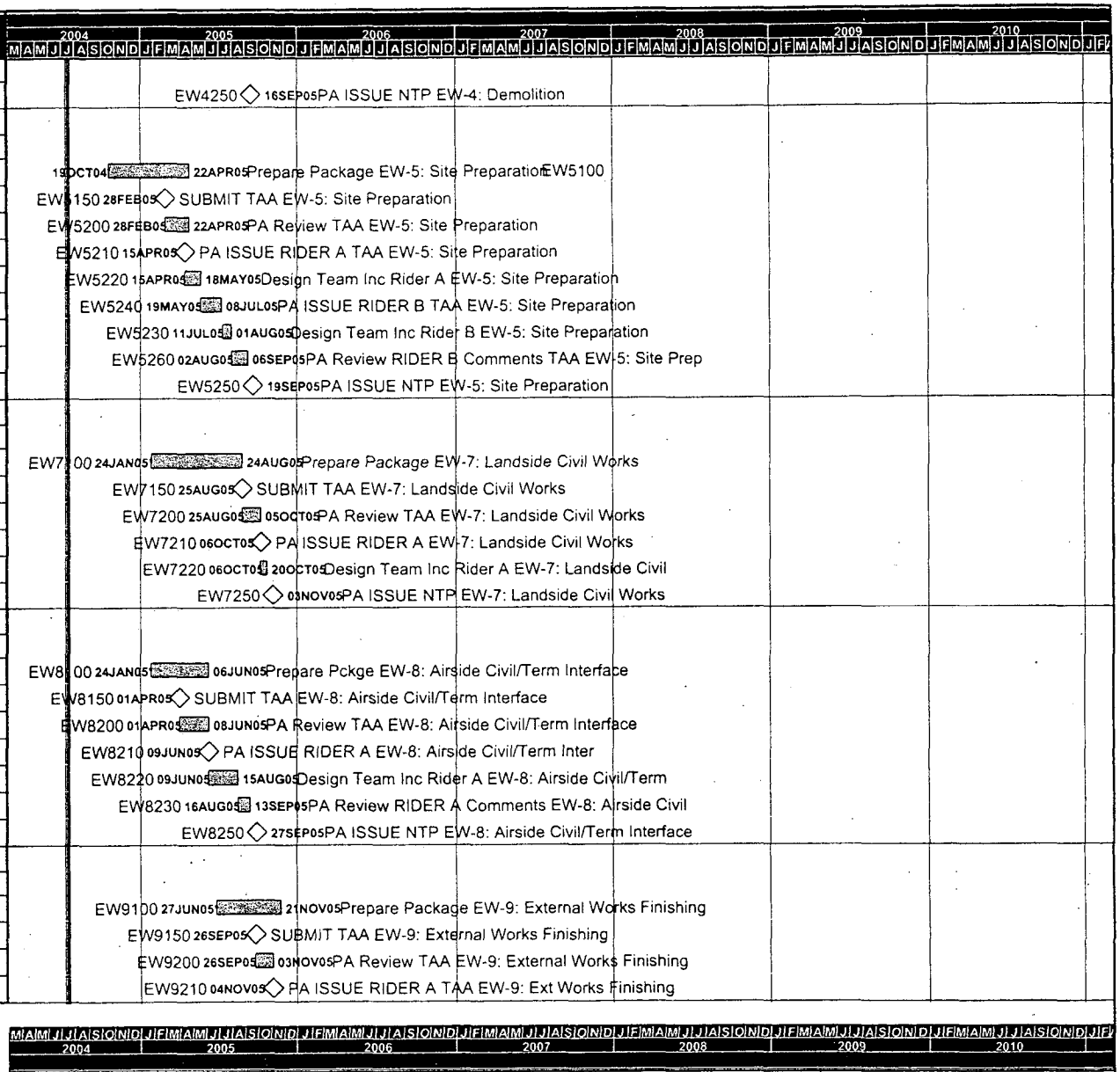
Activity ID	Dur	%	Total Float	Early Start	Early Finish
EW4250	0	0	20		16SEP05
Package EW-5 Site Preparation TAA					
EW5100	130	0	8	19OCT04*	22APR05
EW5150	0	0	8	28FEB05	
EW5200	40	0	8	28FEB05	22APR05
EW5210	0	0	8	15APR05	
EW5220	24	0	8	15APR05	18MAY05
EW5240	35	0	8	19MAY05	08JUL05
EW5230	16	0	32	11JUL05	01AUG05
EW5260	25	0	32	02AUG05	06SEP05
EW5250	0	0	32		19SEP05
Package EW-7 Landside Civil Works TAA					
EW7100	150	0	232	24JAN05*	24AUG05
EW7150	0	0	232	25AUG05	
EW7200	29	0	232	25AUG05	05OCT05
EW7210	0	0	232	06OCT05	
EW7220	11	0	232	06OCT05	20OCT05
EW7250	0	0	232		03NOV05
Pckge EW-8 Airside Civil/Terminal Interface TAA					
EW8100	94	0	38	24JAN05*	06JUN05
EW8150	0	0	38	01APR05	
EW8200	48	0	38	01APR05	08JUN05
EW8210	0	0	38	09JUN05	
EW8220	47	0	38	09JUN05	15AUG05
EW8230	20	0	38	16AUG05	13SEP05
EW8250	0	0	134		27SEP05
Package EW-9 External Works Finishing TAA					
EW9100	104	0	206	27JUN05*	21NOV05
EW9150	0	0	206	26SEP05	
EW9200	29	0	206	26SEP05	03NOV05
EW9210	0	0	206	04NOV05	



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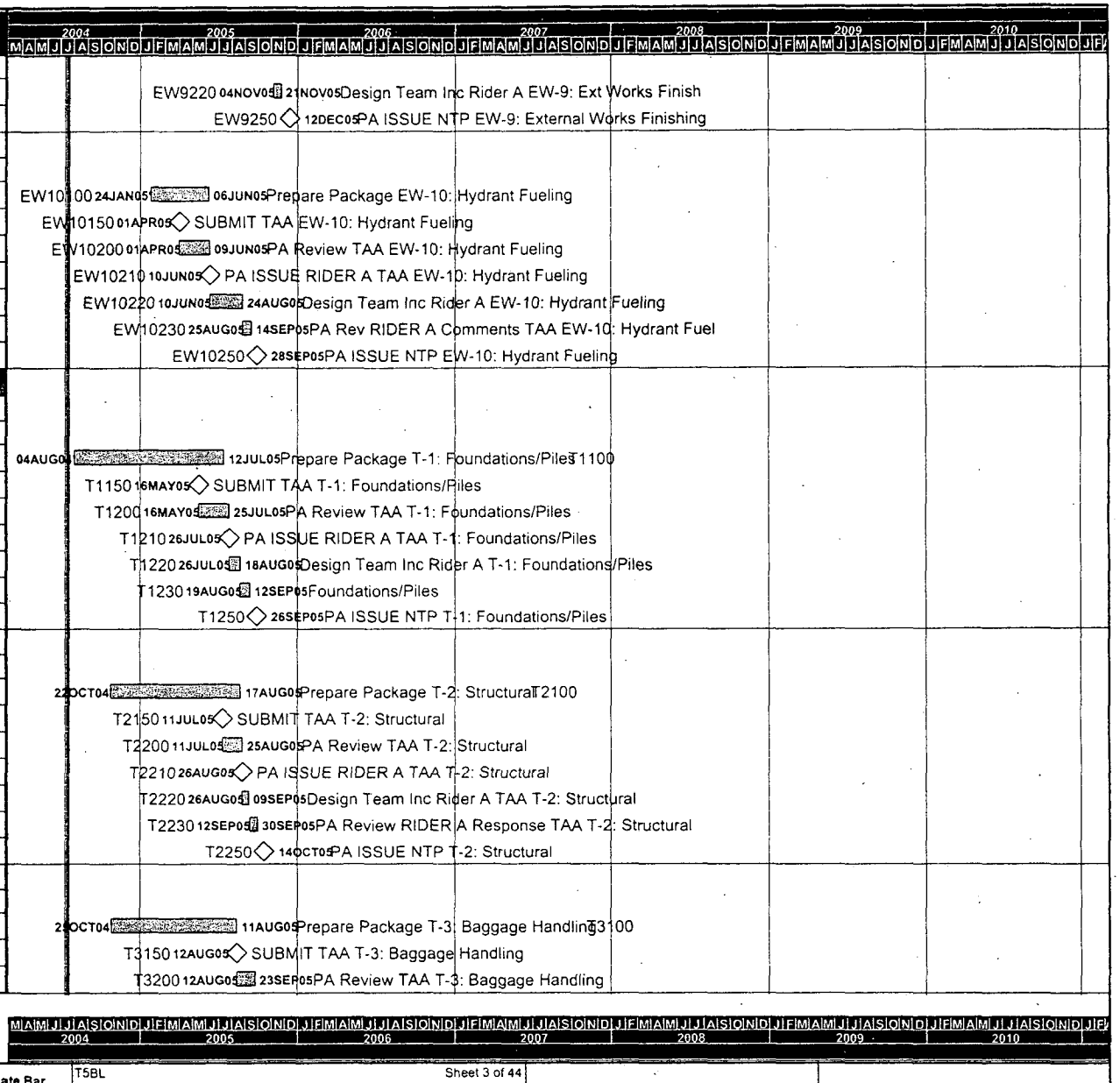
Activity ID	Dur	%	Total Float	Early Start	Early Finish
EW9220	12	0	206	04NOV05	21NOV05
EW9250	0	0	206		12DEC05
Package EW-10 Hydrant Fueling TAA					
EW10100	94	0	64	24JAN05*	06JUN05
EW10150	0	0	64	01APR05	
EW10200	49	0	64	01APR05	09JUN05
EW10210	0	0	64	10JUN05	
EW10220	53	0	64	10JUN05	24AUG05
EW10230	14	0	64	25AUG05	14SEP05
EW10250	0	0	64		28SEP05
Terminal Packages					
Package T-1 Foundations/Piles TAA					
T1100	238	0	21	04AUG04*	12JUL05
T1150	0	0	21	16MAY05	
T1200	49	0	21	16MAY05	25JUL05
T1210	0	0	21	26JUL05	
T1220	18	0	21	26JUL05	18AUG05
T1230	16	0	34	19AUG05	12SEP05
T1250	0	0	34		26SEP05
Package T-2 Structural TAA					
T2100	208	0	24	22OCT04*	17AUG05
T2150	0	0	24	11JUL05	
T2200	34	0	24	11JUL05	25AUG05
T2210	0	0	24	26AUG05	
T2220	10	0	24	26AUG05	09SEP05
T2230	15	0	49	12SEP05	30SEP05
T2250	0	0	49		14OCT05
Package T-3 Baggage Handling TAA					
T3100	203	0	22	25OCT04*	11AUG05
T3150	0	0	22	12AUG05	
T3200	30	0	22	12AUG05	23SEP05



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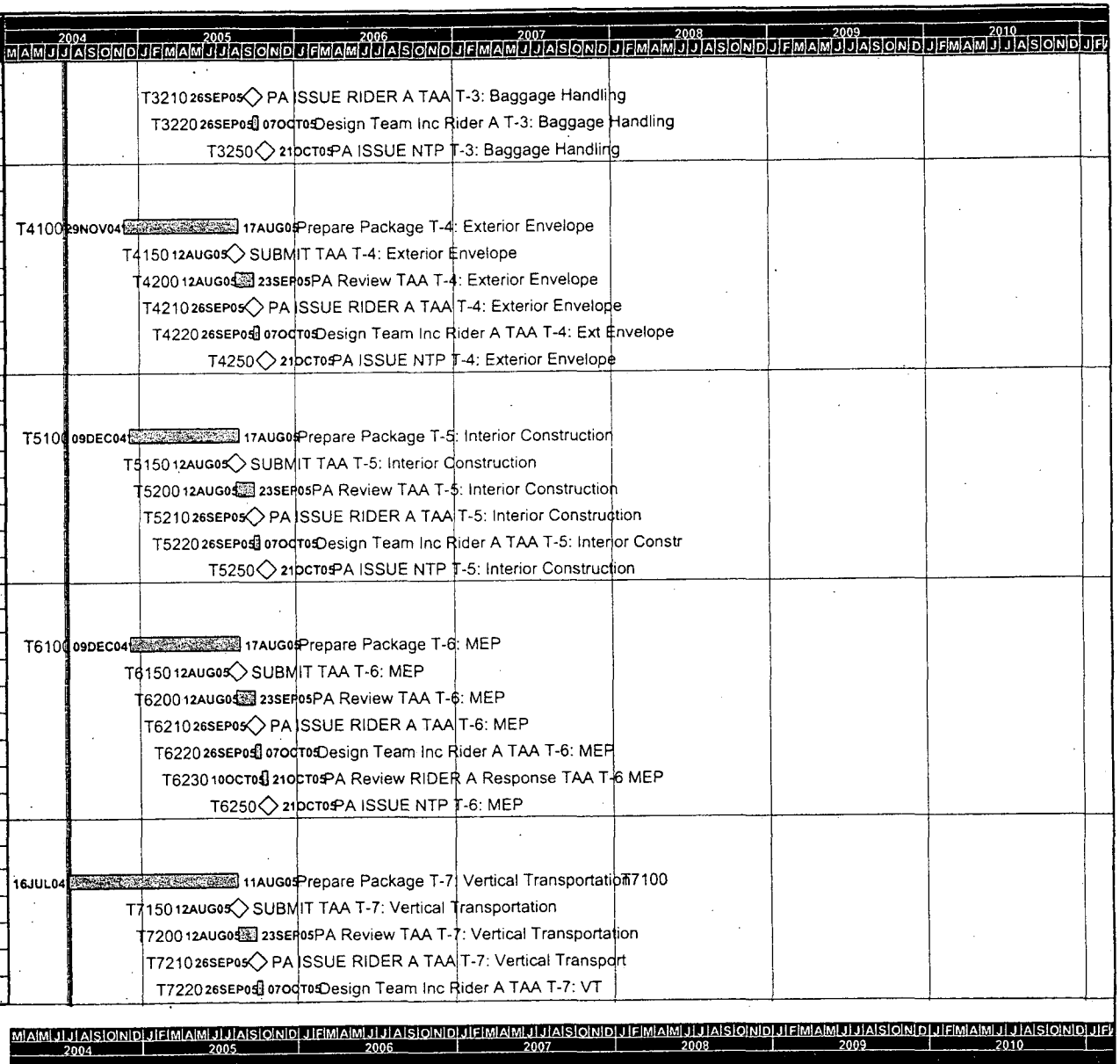
Activity ID	Dur	%	Total Float	Early Start	Early Finish
T3210	0	0	22	26SEP05	
T3220	10	0	22	26SEP05	07OCT05
T3250	0	0	57		21OCT05
Package T-4 External Envelope TAA					
T4100	183	0	31	29NOV04*	17AUG05
T4150	0	0	31	12AUG05	
T4200	30	0	38	12AUG05	23SEP05
T4210	0	0	38	26SEP05	
T4220	10	0	38	26SEP05	07OCT05
T4250	0	0	263		21OCT05
Package T-5 Interior Construction TAA					
T5100	175	0	61	09DEC04*	17AUG05
T5150	0	0	61	12AUG05	
T5200	30	0	91	12AUG05	23SEP05
T5210	0	0	91	26SEP05	
T5220	10	0	91	26SEP05	07OCT05
T5250	0	0	356		21OCT05
Package T-6 MEP TAA					
T6100	175	0	62	09DEC04*	17AUG05
T6150	0	0	62	12AUG05	
T6200	30	0	62	12AUG05	23SEP05
T6210	0	0	62	26SEP05	
T6220	10	0	62	26SEP05	07OCT05
T6230	10	0	316	10OCT05	21OCT05
T6250	0	0	316		21OCT05
Package T-7 Vertical Transportation TAA					
T7100	273	0	146	16JUL04*	11AUG05
T7150	0	0	146	12AUG05	
T7200	30	0	146	12AUG05	23SEP05
T7210	0	0	146	26SEP05	
T7220	10	0	146	26SEP05	07OCT05



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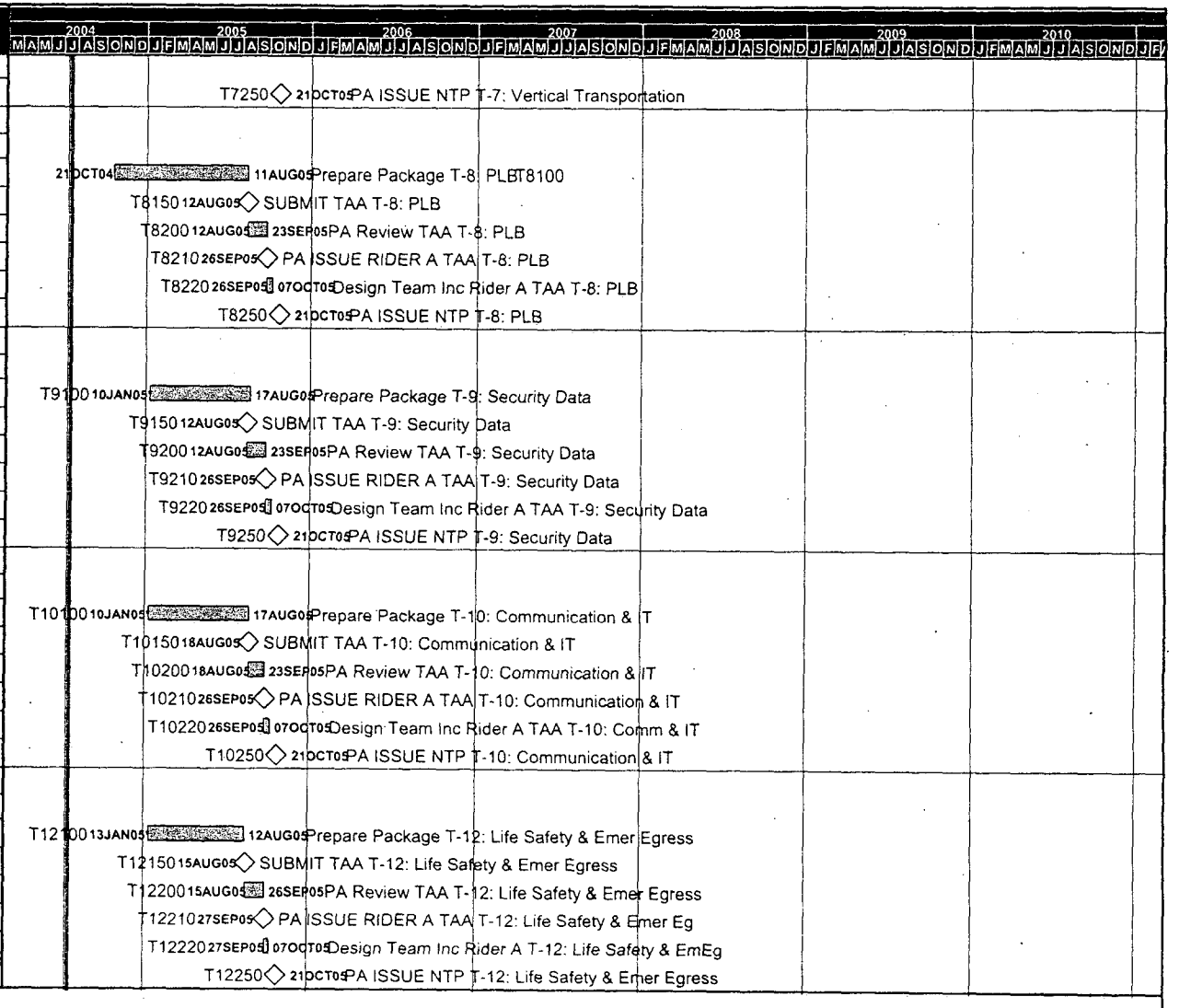
Activity ID	Dur	%	Total Float	Early Start	Early Finish
T7250	0	0	326		21OCT05
Package T-8 PLB TAA					
T8100	205	0	196	21OCT04*	11AUG05
T8150	0	0	196	12AUG05	
T8200	30	0	196	12AUG05	23SEP05
T8210	0	0	196	26SEP05	
T8220	10	0	196	26SEP05	07OCT05
T8250	0	0	566		21OCT05
Package T-9 Security Data TAA					
T9100	155	0	121	10JAN05*	17AUG05
T9150	0	0	121	12AUG05	
T9200	30	0	121	12AUG05	23SEP05
T9210	0	0	121	26SEP05	
T9220	10	0	121	26SEP05	07OCT05
T9250	0	0	356		21OCT05
Package T-10 Communication & IT TAA					
T10100	155	0	102	10JAN05*	17AUG05
T10150	0	0	102	18AUG05	
T10200	26	0	106	18AUG05	23SEP05
T10210	0	0	106	26SEP05	
T10220	10	0	106	26SEP05	07OCT05
T10250	0	0	316		21OCT05
Package T-12 Life Safety/Emergency Egress TAA					
T12100	149	0	316	13JAN05*	12AUG05
T12150	0	0	316	15AUG05	
T12200	30	0	316	15AUG05	26SEP05
T12210	0	0	316	27SEP05	
T12220	9	0	316	27SEP05	07OCT05
T12250	0	0	316		21OCT05



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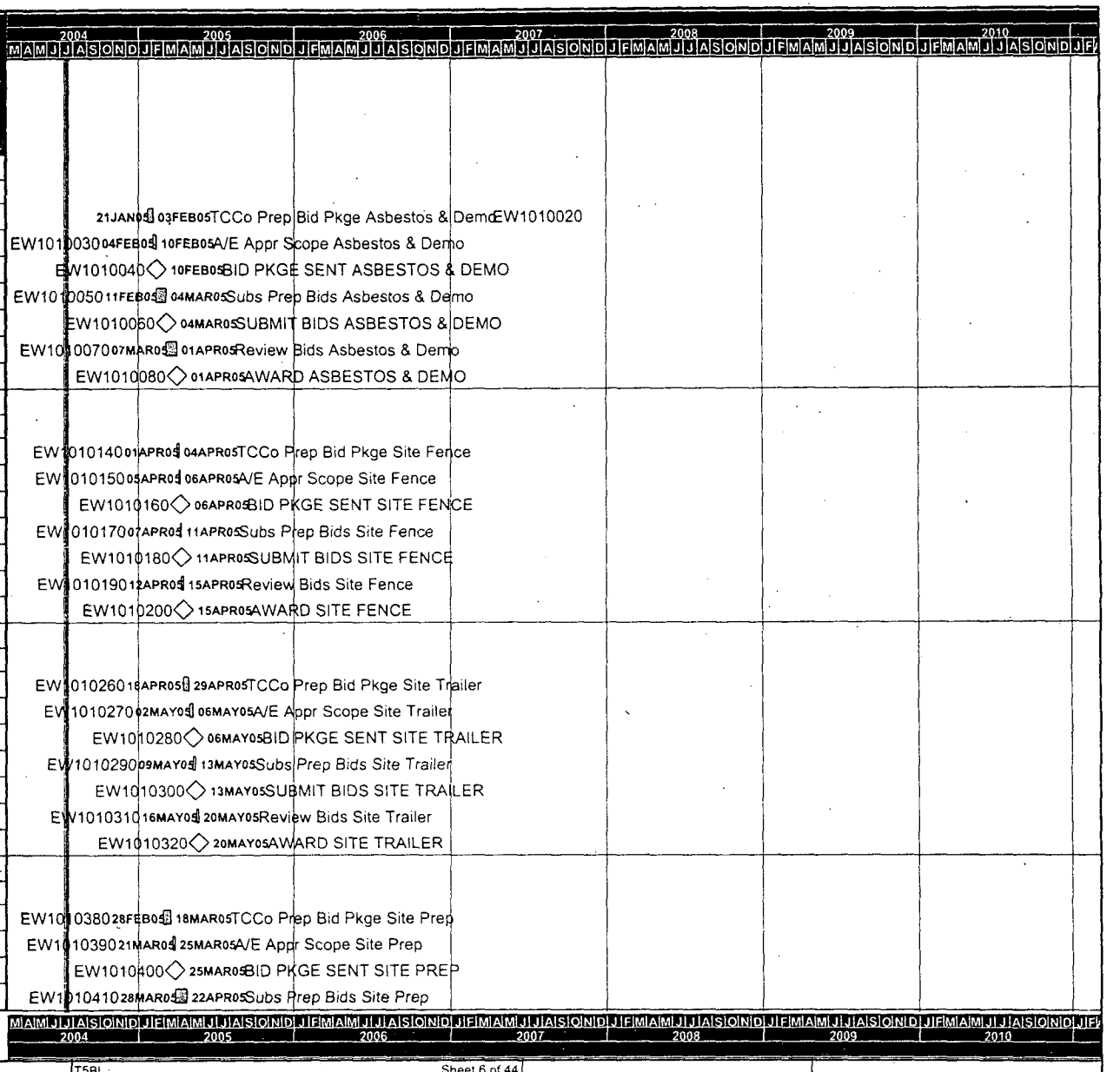
Activity ID	Dur	%	Total Float	Early Start	Early Finish
Construction Start Up					
Procurement					
External Works Packages					
EW-1 & EW-4 Asebstos & Demolition					
Demolition & Asbestos					
EW1010020	10	0	137	21JAN05	03FEB05
EW1010030	5	0	137	04FEB05	10FEB05
EW1010040	0	0	137		10FEB05
EW1010050	15	0	137	11FEB05	04MAR05
EW1010060	0	0	137		04MAR05
EW1010070	20	0	137	07MAR05	01APR05
EW1010080	0	0	137		01APR05
Package EW-2 Construction Security TAA					
Construction Security					
EW1010140	2	0	82	01APR05	04APR05
EW1010150	2	0	82	05APR05	06APR05
EW1010160	0	0	82		06APR05
EW1010170	3	0	82	07APR05	11APR05
EW1010180	0	0	82		11APR05
EW1010190	4	0	82	12APR05	15APR05
EW1010200	0	0	82		15APR05
Package EW-3 Site Trailer TAA					
Site Trailer					
EW1010260	10	0	61	18APR05*	29APR05
EW1010270	5	0	61	02MAY05	06MAY05
EW1010280	0	0	61		06MAY05
EW1010290	5	0	61	09MAY05	13MAY05
EW1010300	0	0	61		13MAY05
EW1010310	5	0	61	16MAY05	20MAY05
EW1010320	0	0	61		20MAY05
Package EW-5 Site Preparation TAA					
Site Preparation					
EW1010380	15	0	37	28FEB05	18MAR05
EW1010390	5	0	37	21MAR05	25MAR05
EW1010400	0	0	37		25MAR05
EW1010410	20	0	37	28MAR05	22APR05



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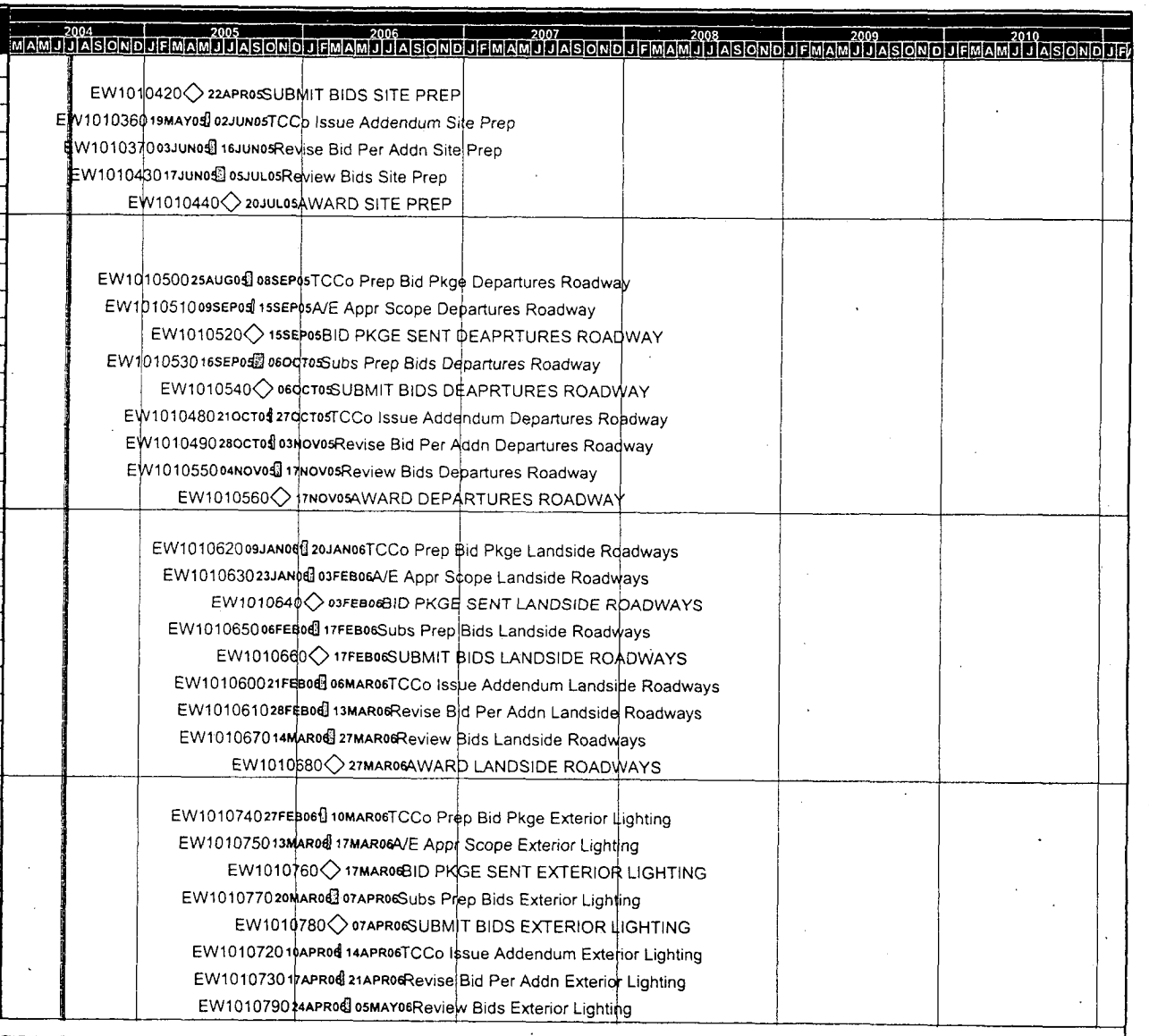
Activity ID	Dur	%	Total Float	Early Start	Early Finish
Site Preparation					
EW1010420	0	0	37		22APR05
EW1010360	10	0	19	19MAY05	02JUN05
EW1010370	10	0	19	03JUN05	16JUN05
EW1010430	12	0	19	17JUN05	05JUL05
EW1010440	0	0	8		20JUL05
Package EW-7 Landside Civil Works TAA					
Departures Roadway					
EW1010500	10	0	347	25AUG05	08SEP05
EW1010510	5	0	347	09SEP05	15SEP05
EW1010520	0	0	347		15SEP05
EW1010530	15	0	347	16SEP05	06OCT05
EW1010540	0	0	347		06OCT05
EW1010480	5	0	337	21OCT05	27OCT05
EW1010490	5	0	337	28OCT05	03NOV05
EW1010550	10	0	337	04NOV05	17NOV05
EW1010560	0	0	337		17NOV05
Landside Roadways					
EW1010620	10	0	249	09JAN06*	20JAN06
EW1010630	10	0	249	23JAN06	03FEB06
EW1010640	0	0	249		03FEB06
EW1010650	10	0	249	06FEB06	17FEB06
EW1010660	0	0	249		17FEB06
EW1010600	10	0	249	21FEB06	06MAR06
EW1010610	10	0	249	28FEB06	13MAR06
EW1010670	10	0	249	14MAR06	27MAR06
EW1010680	0	0	249		27MAR06
Exterior Lighting					
EW1010740	10	0	150	27FEB06*	10MAR06
EW1010750	5	0	150	13MAR06	17MAR06
EW1010760	0	0	150		17MAR06
EW1010770	15	0	150	20MAR06	07APR06
EW1010780	0	0	150		07APR06
EW1010720	5	0	150	10APR06	14APR06
EW1010730	5	0	150	17APR06	21APR06
EW1010790	10	0	150	24APR06	05MAY06



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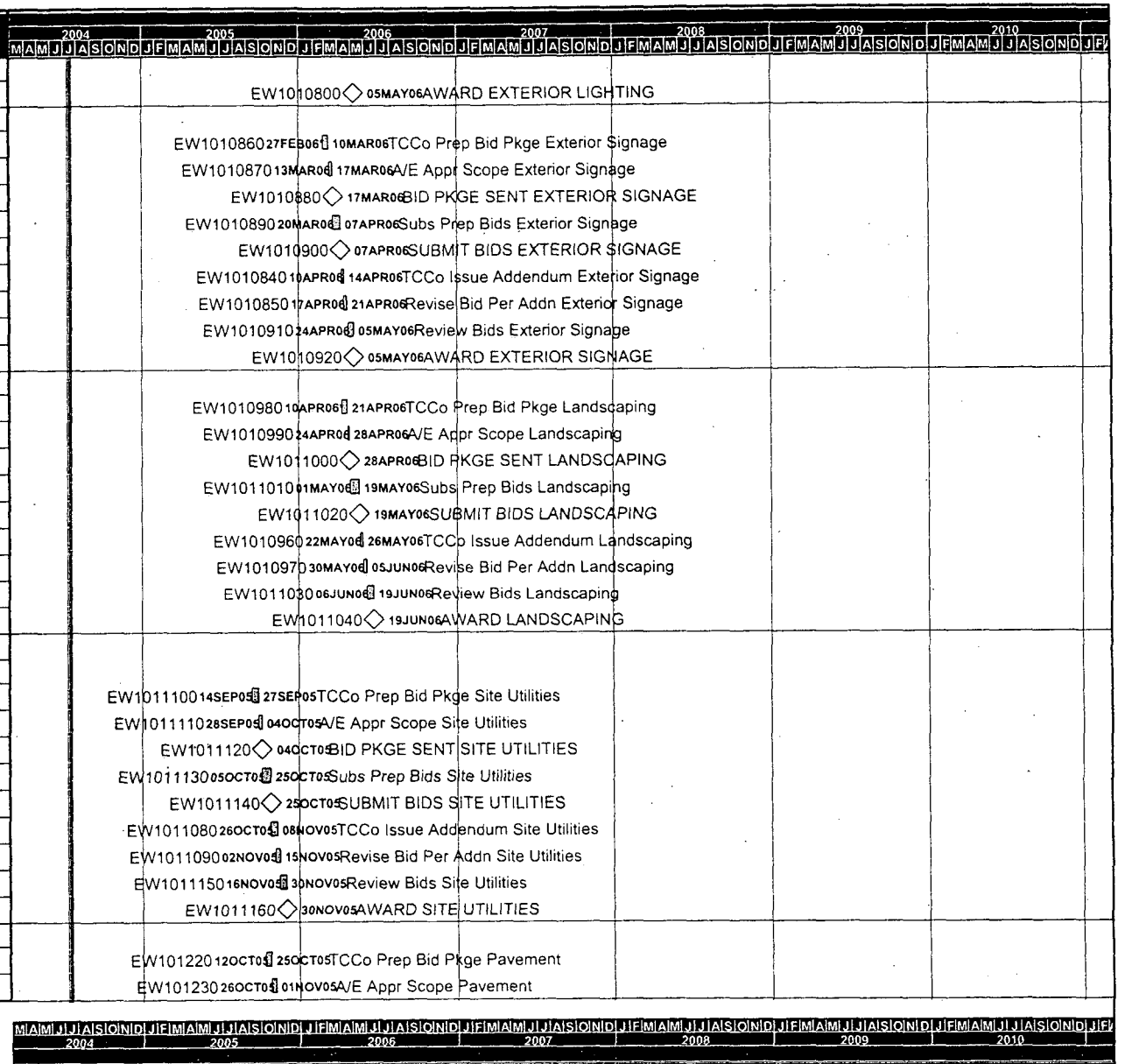
Activity ID	Dur	%	Total Float	Early Start	Early Finish
Exterior Lighting					
EW1010800	0	0	150		05MAY06
Exterior Signage					
EW1010860	10	0	190	27FEB06*	10MAR06
EW1010870	5	0	190	13MAR06	17MAR06
EW1010880	0	0	190		17MAR06
EW1010890	15	0	190	20MAR06	07APR06
EW1010900	0	0	190		07APR06
EW1010840	5	0	190	10APR06	14APR06
EW1010850	5	0	190	17APR06	21APR06
EW1010910	10	0	190	24APR06	05MAY06
EW1010920	0	0	190		05MAY06
Landscaping					
EW1010980	10	0	220	10APR06*	21APR06
EW1010990	5	0	220	24APR06	28APR06
EW1011000	0	0	220		28APR06
EW1011010	15	0	220	01MAY06	19MAY06
EW1011020	0	0	220		19MAY06
EW1010960	5	0	220	22MAY06	26MAY06
EW1010970	5	0	220	30MAY06	05JUN06
EW1011030	10	0	220	06JUN06	19JUN06
EW1011040	0	0	220		19JUN06
Pckge EW-8 Airside Civil/Terminal Interface TAA					
Airside Site Utilities					
EW1011100	10	0	38	14SEP05	27SEP05
EW1011110	5	0	38	28SEP05	04OCT05
EW1011120	0	0	38		04OCT05
EW1011130	15	0	38	05OCT05	25OCT05
EW1011140	0	0	38		25OCT05
EW1011080	10	0	38	26OCT05	08NOV05
EW1011090	10	0	38	02NOV05	15NOV05
EW1011150	10	0	38	16NOV05	30NOV05
EW1011160	0	0	38		30NOV05
Airside Pavement					
EW101220	10	0	294	12OCT05	25OCT05
EW101230	5	0	294	26OCT05	01NOV05



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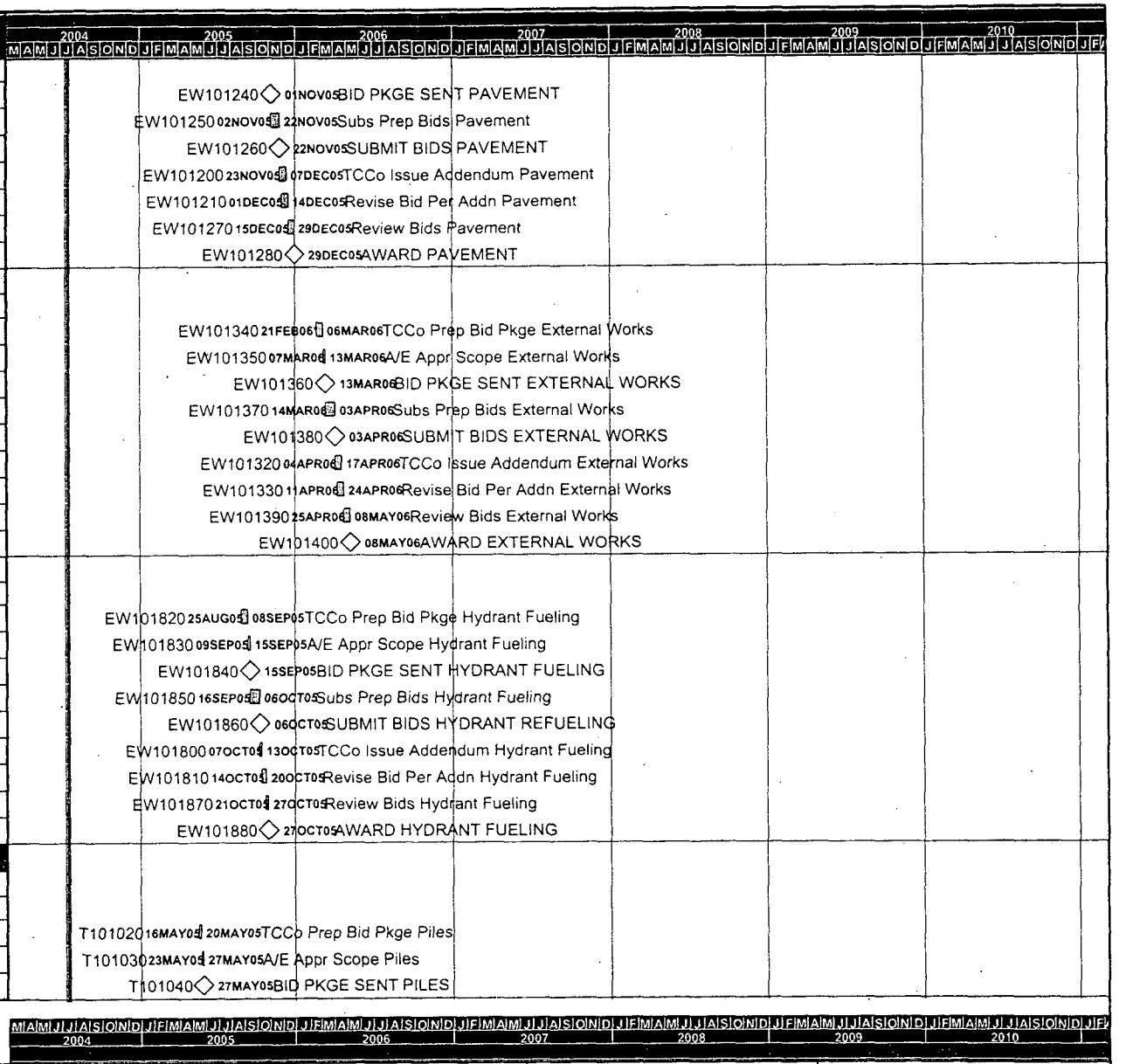
Activity ID	Dur	%	Total Float	Early Start	Early Finish
Airside Pavement					
EW101240	0	0	294		01NOV05
EW101250	15	0	294	02NOV05	22NOV05
EW101260	0	0	294		22NOV05
EW101200	10	0	294	23NOV05	07DEC05
EW101210	10	0	294	01DEC05	14DEC05
EW101270	10	0	294	15DEC05	29DEC05
EW101280	0	0	294		29DEC05
Package EW-9 External Works Finishing TAA					
External Works Finishing					
EW101340	10	0	164	21FEB06*	06MAR06
EW101350	5	0	164	07MAR06	13MAR06
EW101360	0	0	164		13MAR06
EW101370	15	0	164	14MAR06	03APR06
EW101380	0	0	164		03APR06
EW101320	10	0	164	04APR06	17APR06
EW101330	10	0	164	11APR06	24APR06
EW101390	10	0	164	25APR06	08MAY06
EW101400	0	0	164		08MAY06
Package EW-10 Hydrant Fueling TAA					
Hydrant Refueling					
EW101820	10	0	77	25AUG05	08SEP05
EW101830	5	0	77	09SEP05	15SEP05
EW101840	0	0	77		15SEP05
EW101850	15	0	77	16SEP05	06OCT05
EW101860	0	0	77		06OCT05
EW101800	5	0	77	07OCT05	13OCT05
EW101810	5	0	77	14OCT05	20OCT05
EW101870	5	0	77	21OCT05	27OCT05
EW101880	0	0	77		27OCT05
Terminal Packages					
Package T-1 Foundations/Piles TAA					
Piles					
T101020	5	0	21	16MAY05	20MAY05
T101030	5	0	21	23MAY05	27MAY05
T101040	0	0	21		27MAY05



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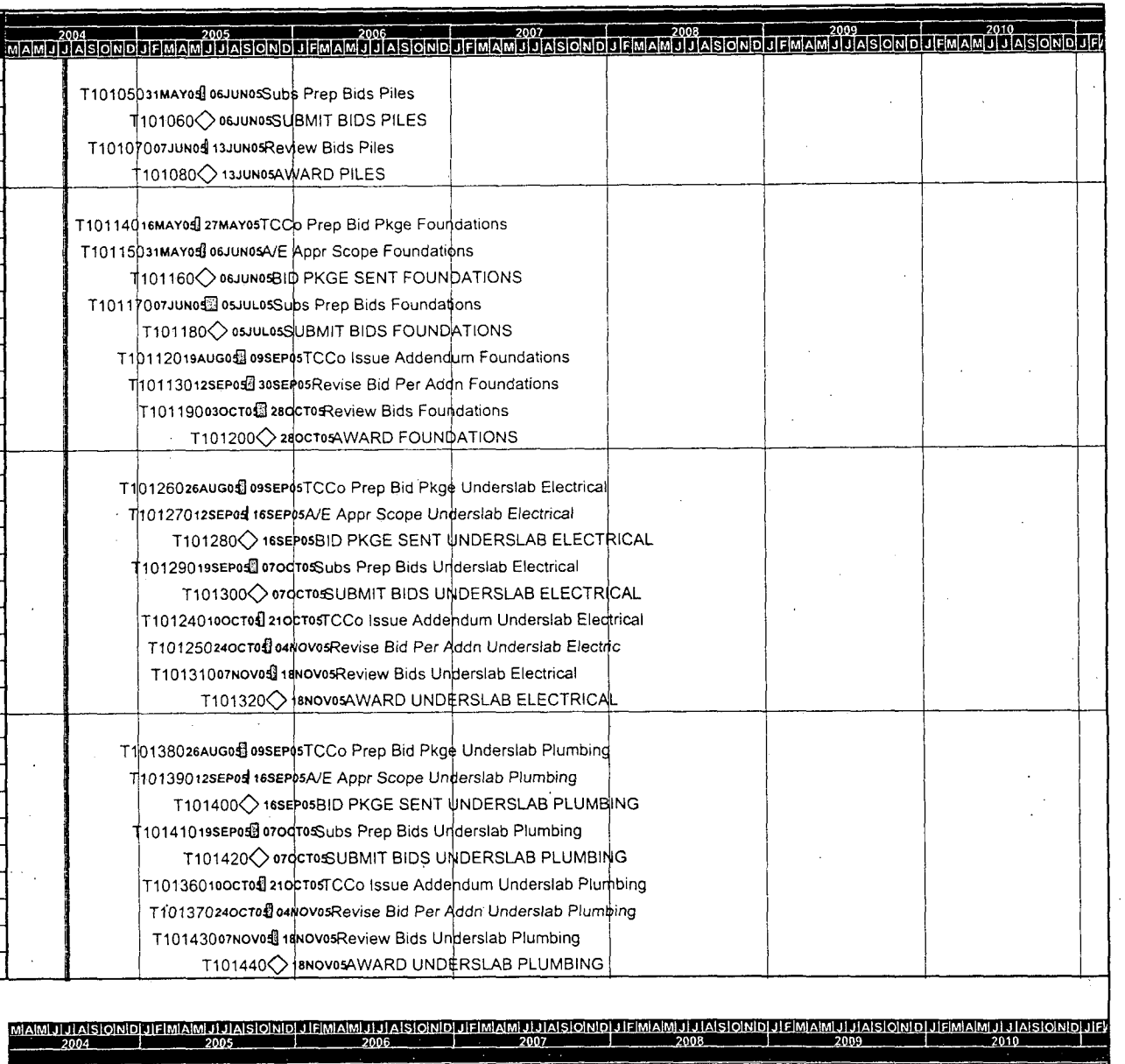
Activity ID	Dur	%	Total Float	Early Start	Early Finish
Piles					
T101050	5	0	21	31MAY05	06JUN05
T101060	0	0	21		06JUN05
T101070	5	0	21	07JUN05	13JUN05
T101080	0	0	21		13JUN05
Foundations					
T101140	10	0	54	16MAY05	27MAY05
T101150	5	0	54	31MAY05	06JUN05
T101160	0	0	54		06JUN05
T101170	20	0	54	07JUN05	05JUL05
T101180	0	0	54		05JUL05
T101120	15	0	22	19AUG05	09SEP05
T101130	15	0	22	12SEP05	30SEP05
T101190	20	0	22	03OCT05	28OCT05
T101200	0	0	22		28OCT05
Underslab Electrical					
T101260	10	0	21	26AUG05	09SEP05
T101270	5	0	21	12SEP05	16SEP05
T101280	0	0	21		16SEP05
T101290	15	0	21	19SEP05	07OCT05
T101300	0	0	21		07OCT05
T101240	10	0	21	10OCT05	21OCT05
T101250	10	0	21	24OCT05	04NOV05
T101310	10	0	21	07NOV05	18NOV05
T101320	0	0	21		18NOV05
Underslab Plumbing					
T101380	10	0	21	26AUG05	09SEP05
T101390	5	0	21	12SEP05	16SEP05
T101400	0	0	21		16SEP05
T101410	15	0	21	19SEP05	07OCT05
T101420	0	0	21		07OCT05
T101360	10	0	21	10OCT05	21OCT05
T101370	10	0	21	24OCT05	04NOV05
T101430	10	0	21	07NOV05	18NOV05
T101440	0	0	21		18NOV05



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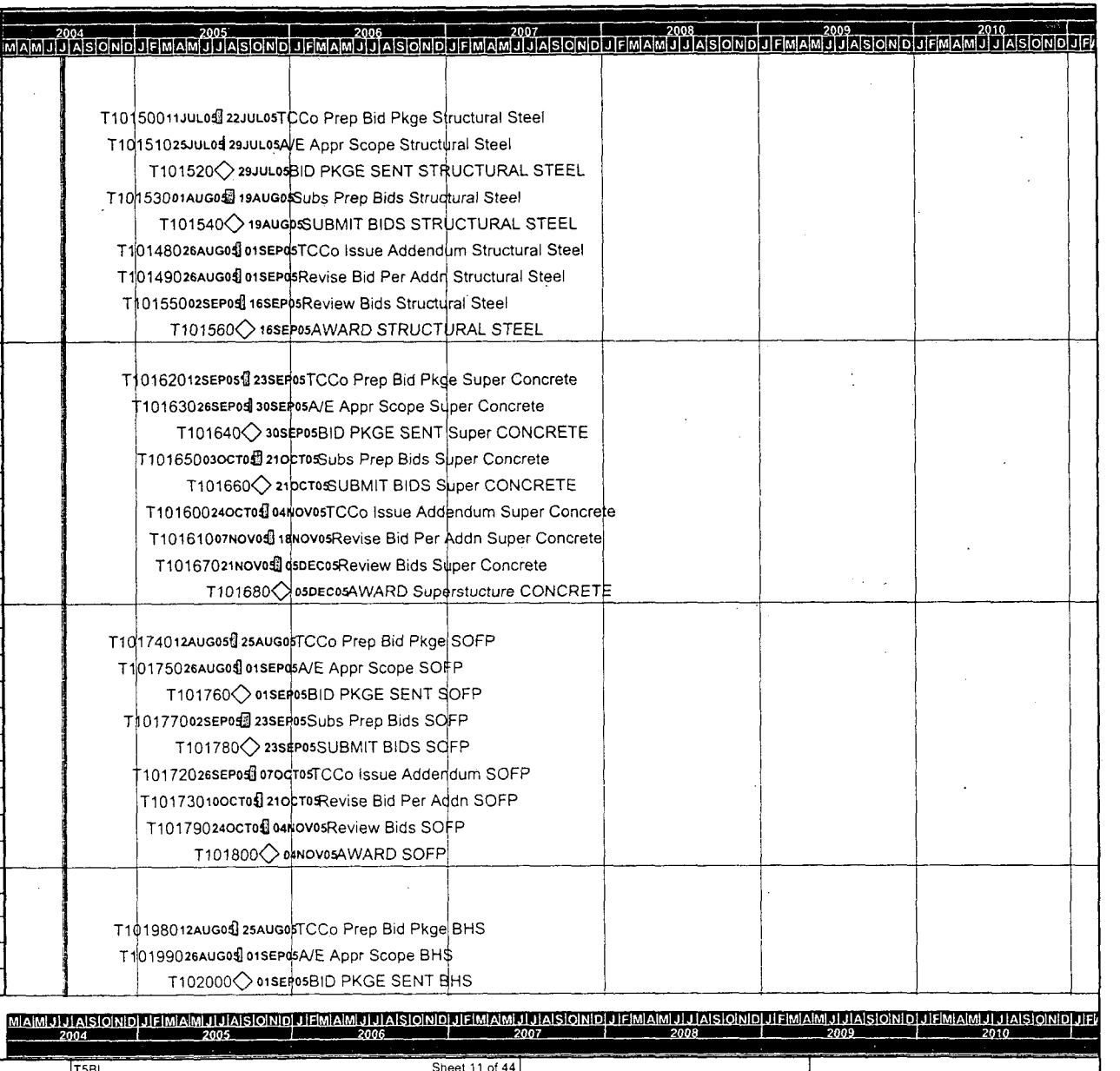
Activity ID	Dur	%	Total Float	Early Start	Early Finish
Package T-2 Structural TAA					
Structural Steel					
T101500	10	0	28	11JUL05	22JUL05
T101510	5	0	28	25JUL05	29JUL05
T101520	0	0	28		29JUL05
T101530	15	0	28	01AUG05	19AUG05
T101540	0	0	28		19AUG05
T101480	5	0	24	26AUG05	01SEP05
T101490	5	0	24	26AUG05	01SEP05
T101550	10	0	24	02SEP05	16SEP05
T101560	0	0	24		16SEP05
Superstructure Concrete					
T101620	10	0	99	12SEP05*	23SEP05
T101630	5	0	99	26SEP05	30SEP05
T101640	0	0	99		30SEP05
T101650	15	0	99	03OCT05	21OCT05
T101660	0	0	99		21OCT05
T101600	10	0	99	24OCT05	04NOV05
T101610	10	0	99	07NOV05	18NOV05
T101670	10	0	99	21NOV05	05DEC05
T101680	0	0	99		05DEC05
Spray on Fireproofing					
T101740	10	0	60	12AUG05*	25AUG05
T101750	5	0	60	26AUG05	01SEP05
T101760	0	0	60		01SEP05
T101770	15	0	60	02SEP05	23SEP05
T101780	0	0	60		23SEP05
T101720	10	0	60	26SEP05	07OCT05
T101730	10	0	60	10OCT05	21OCT05
T101790	10	0	60	24OCT05	04NOV05
T101800	0	0	60		04NOV05
Package T-3 Baggage Handling TAA					
Baggage Handling System					
T101980	10	0	32	12AUG05	25AUG05
T101990	5	0	32	26AUG05	01SEP05
T102000	0	0	32		01SEP05



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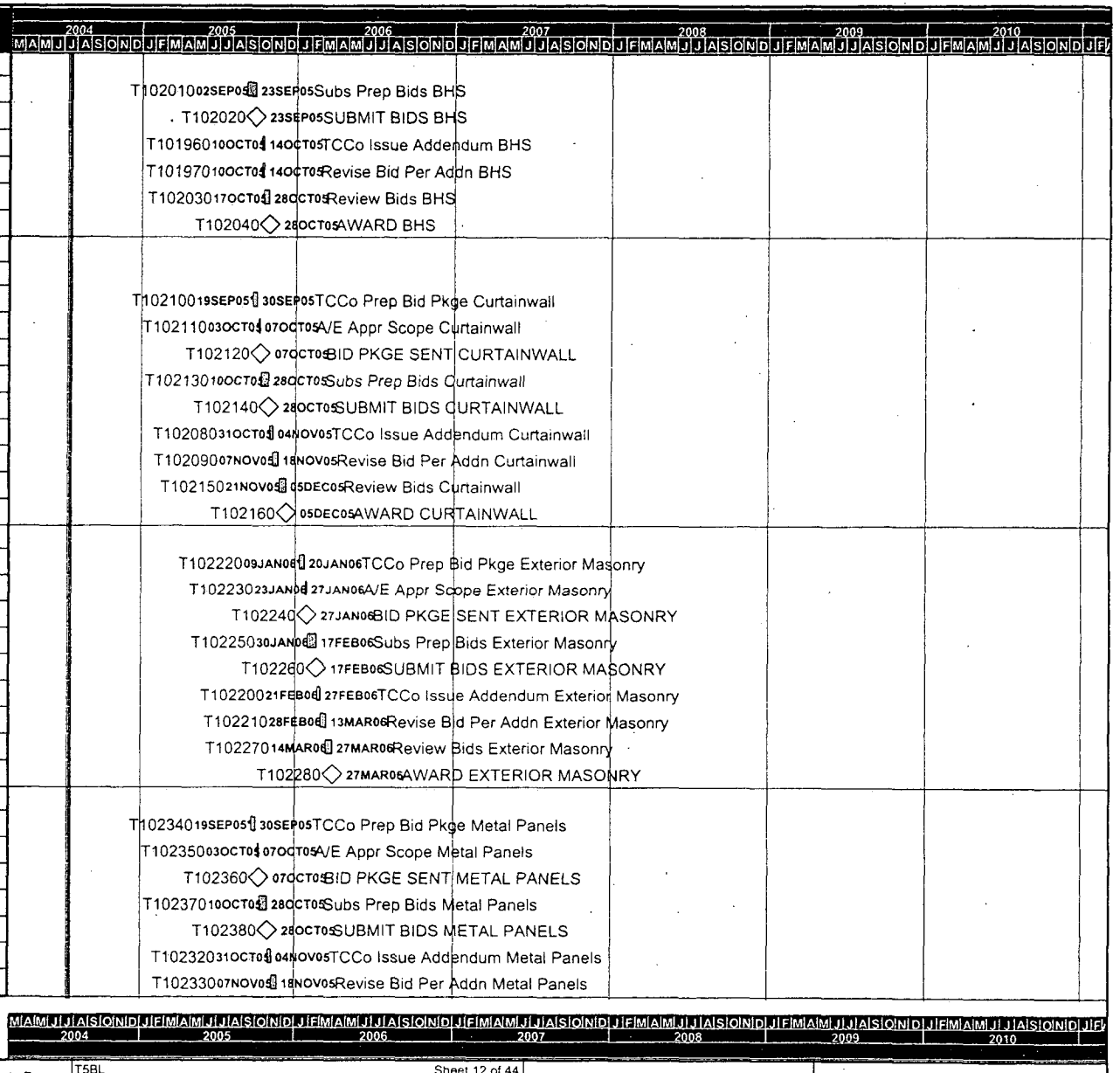
All Activities Bar Chart

Turner
Turner Construction Company

ForTheRecord
Construction Project Planners

Activity ID	Dur	%	Total Float	Early Start	Early Finish
Baggage Handling System					
T102010	15	0	32	02SEP05	23SEP05
T102020	0	0	32		23SEP05
T101960	5	0	22	10OCT05	14OCT05
T101970	5	0	22	10OCT05	14OCT05
T102030	10	0	22	17OCT05	28OCT05
T102040	0	0	22		28OCT05
Package T-4 External Envelope TAA					
Curtain Wall					
T102100	10	0	28	19SEP05*	30SEP05
T102110	5	0	28	03OCT05	07OCT05
T102120	0	0	28		07OCT05
T102130	15	0	28	10OCT05	28OCT05
T102140	0	0	28		28OCT05
T102080	5	0	28	31OCT05	04NOV05
T102090	10	0	28	07NOV05	18NOV05
T102150	10	0	28	21NOV05	05DEC05
T102160	0	0	28		05DEC05
Exterior Masonry					
T102220	10	0	31	09JAN06*	20JAN06
T102230	5	0	31	23JAN06	27JAN06
T102240	0	0	31		27JAN06
T102250	15	0	31	30JAN06	17FEB06
T102260	0	0	31		17FEB06
T102200	5	0	31	21FEB06	27FEB06
T102210	10	0	31	28FEB06	13MAR06
T102270	10	0	31	14MAR06	27MAR06
T102280	0	0	31		27MAR06
Metal Panels					
T102340	10	0	33	19SEP05*	30SEP05
T102350	5	0	33	03OCT05	07OCT05
T102360	0	0	33		07OCT05
T102370	15	0	33	10OCT05	28OCT05
T102380	0	0	33		28OCT05
T102320	5	0	33	31OCT05	04NOV05
T102330	10	0	33	07NOV05	18NOV05



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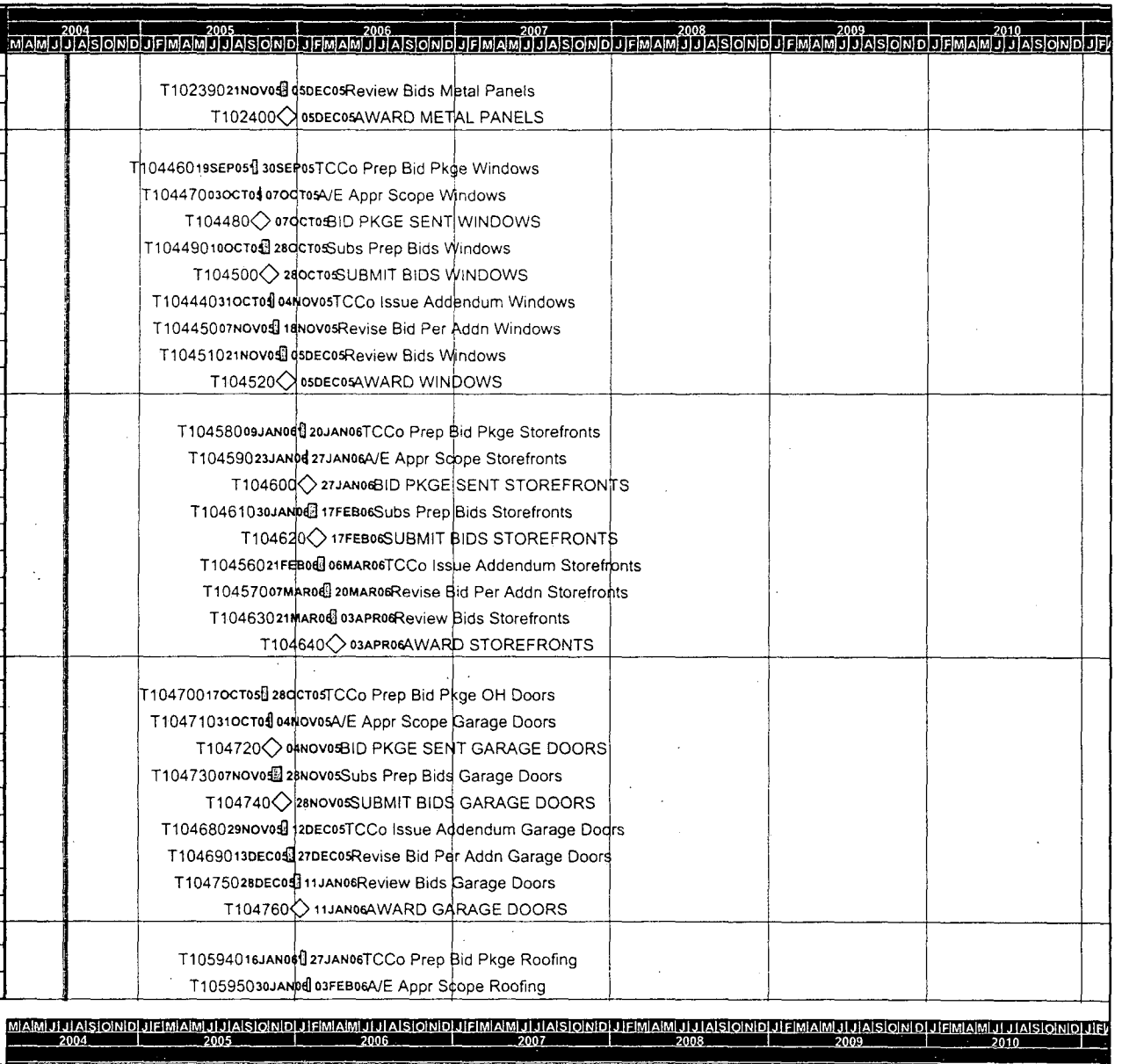
Activity ID	Dur	%	Total Float	Early Start	Early Finish
Metal Panels					
T102390	10	0	33	21NOV05	05DEC05
T102400	0	0	33		05DEC05
Windows					
T104460	10	0	23	19SEP05*	30SEP05
T104470	5	0	23	03OCT05	07OCT05
T104480	0	0	23		07OCT05
T104490	15	0	23	10OCT05	28OCT05
T104500	0	0	23		28OCT05
T104440	5	0	23	31OCT05	04NOV05
T104450	10	0	23	07NOV05	18NOV05
T104510	10	0	23	21NOV05	05DEC05
T104520	0	0	23		05DEC05
Storefronts					
T104580	10	0	16	09JAN06*	20JAN06
T104590	5	0	16	23JAN06	27JAN06
T104600	0	0	16		27JAN06
T104610	15	0	16	30JAN06	17FEB06
T104620	0	0	16		17FEB06
T104560	10	0	16	21FEB06	06MAR06
T104570	10	0	16	07MAR06	20MAR06
T104630	10	0	16	21MAR06	03APR06
T104640	0	0	16		03APR06
Garage Doors					
T104700	10	0	23	17OCT05*	28OCT05
T104710	5	0	23	31OCT05	04NOV05
T104720	0	0	23		04NOV05
T104730	15	0	23	07NOV05	28NOV05
T104740	0	0	23		28NOV05
T104680	10	0	23	29NOV05	12DEC05
T104690	10	0	23	13DEC05	27DEC05
T104750	10	0	23	28DEC05	11JAN06
T104760	0	0	23		11JAN06
Roofing					
T105940	10	0	22	16JAN06*	27JAN06
T105950	5	0	22	30JAN06	03FEB06



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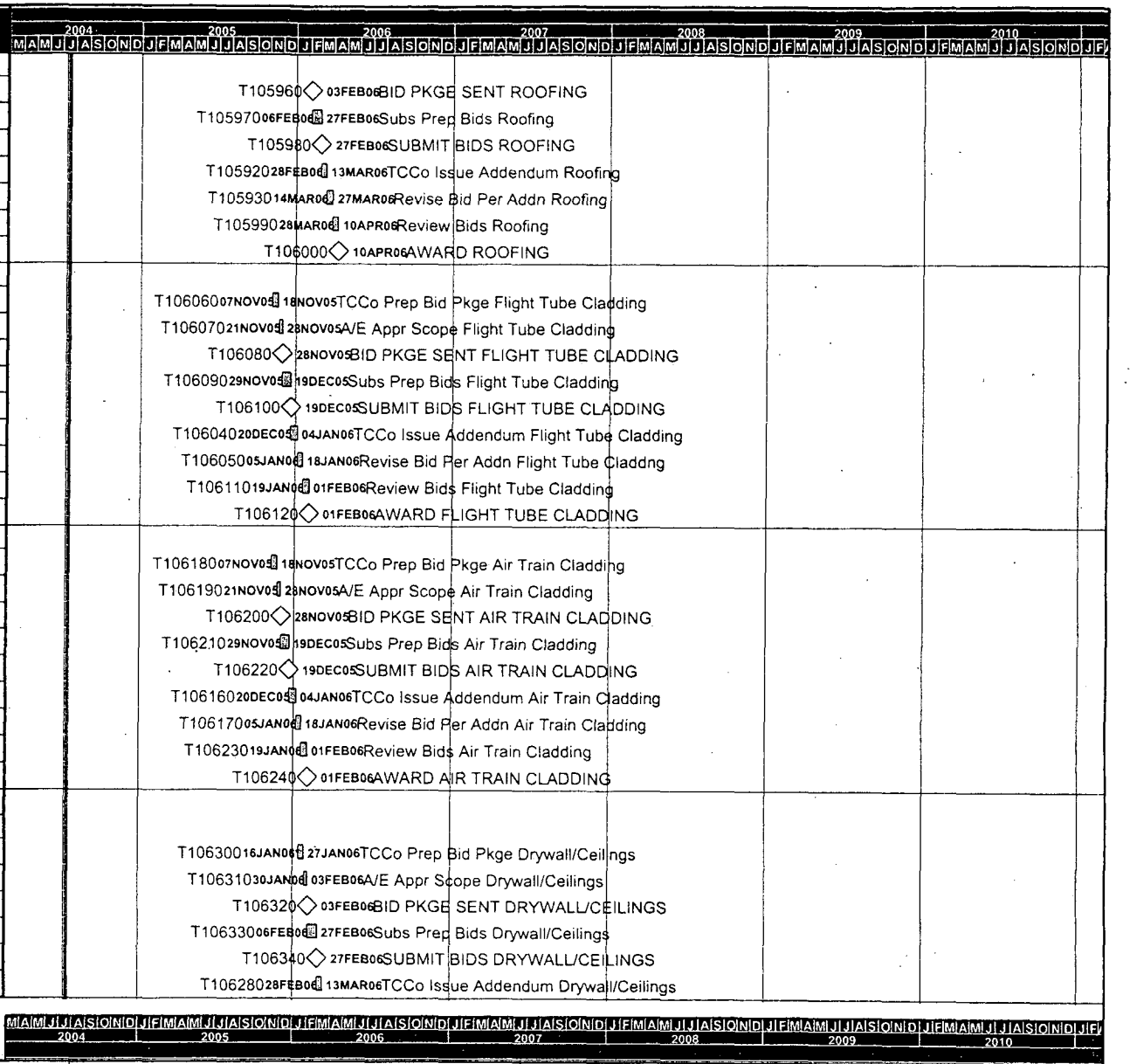
Activity ID	Dur	%	Total Float	Early Start	Early Finish
Roofing					
T105960	0	0	22		03FEB06
T105970	15	0	22	06FEB06	27FEB06
T105980	0	0	22		27FEB06
T105920	10	0	22	28FEB06	13MAR06
T105930	10	0	22	14MAR06	27MAR06
T105990	10	0	22	28MAR06	10APR06
T106000	0	0	22		10APR06
Flight Tube Cladding					
T106060	10	0	31	07NOV05	18NOV05
T106070	5	0	31	21NOV05	28NOV05
T106080	0	0	31		28NOV05
T106090	15	0	31	29NOV05	19DEC05
T106100	0	0	31		19DEC05
T106040	10	0	31	20DEC05	04JAN06
T106050	10	0	31	05JAN06	18JAN06
T106110	10	0	31	19JAN06	01FEB06
T106120	0	0	31		01FEB06
Air Train Cladding					
T106180	10	0	101	07NOV05	18NOV05
T106190	5	0	101	21NOV05	28NOV05
T106200	0	0	101		28NOV05
T106210	15	0	101	29NOV05	19DEC05
T106220	0	0	101		19DEC05
T106160	10	0	101	20DEC05	04JAN06
T106170	10	0	101	05JAN06	18JAN06
T106230	10	0	101	19JAN06	01FEB06
T106240	0	0	101		01FEB06
Package T-5 Interior Construction TAA					
Drywall/Ceilings					
T106300	10	0	124	16JAN06*	27JAN06
T106310	5	0	124	30JAN06	03FEB06
T106320	0	0	124		03FEB06
T106330	15	0	124	06FEB06	27FEB06
T106340	0	0	124		27FEB06
T106280	10	0	124	28FEB06	13MAR06



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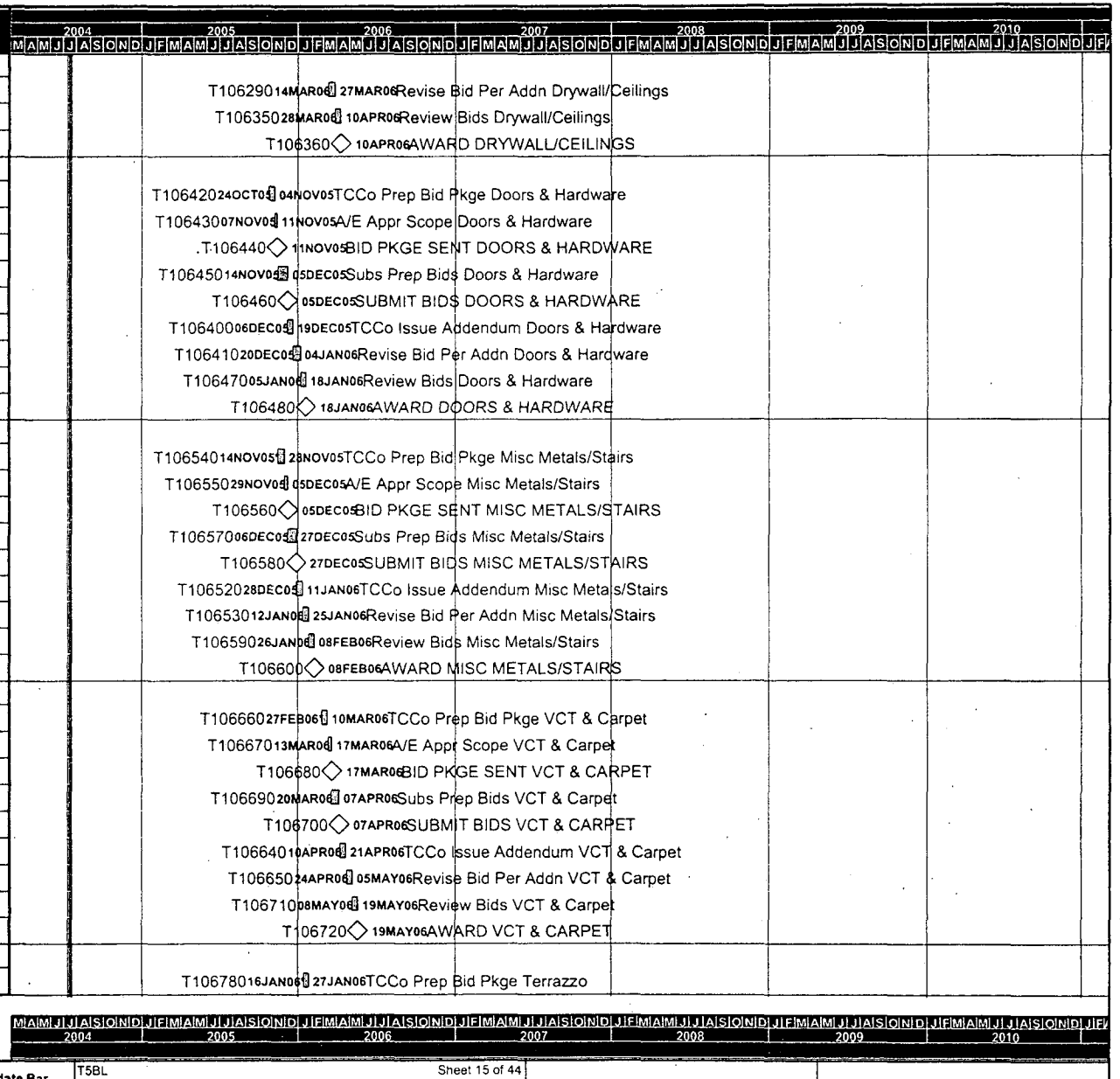
Activity ID	Dur	%	Total Float	Early Start	Early Finish
Drywall/Ceilings					
T106290	10	0	124	14MAR06	27MAR06
T106350	10	0	124	28MAR06	10APR06
T106360	0	0	124		10APR06
Doors & Hardware					
T106420	10	0	121	24OCT05	04NOV05
T106430	5	0	121	07NOV05	11NOV05
T106440	0	0	121		11NOV05
T106450	15	0	121	14NOV05	05DEC05
T106460	0	0	121		05DEC05
T106400	10	0	121	06DEC05	19DEC05
T106410	10	0	121	20DEC05	04JAN06
T106470	10	0	121	05JAN06	18JAN06
T106480	0	0	121		18JAN06
Misc Metal & Stairs					
T106540	10	0	76	14NOV05*	28NOV05
T106550	5	0	76	29NOV05	05DEC05
T106560	0	0	76		05DEC05
T106570	15	0	76	06DEC05	27DEC05
T106580	0	0	76		27DEC05
T106520	10	0	76	28DEC05	11JAN06
T106530	10	0	76	12JAN06	25JAN06
T106590	10	0	76	26JAN06	08FEB06
T106600	0	0	76		08FEB06
VCT & Carpet					
T106660	10	0	230	27FEB06*	10MAR06
T106670	5	0	230	13MAR06	17MAR06
T106680	0	0	230		17MAR06
T106690	15	0	230	20MAR06	07APR06
T106700	0	0	230		07APR06
T106640	10	0	230	10APR06	21APR06
T106650	10	0	230	24APR06	05MAY06
T106710	10	0	230	08MAY06	19MAY06
T106720	0	0	230		19MAY06
Terrazzo					
T106780	10	0	164	16JAN06*	27JAN06



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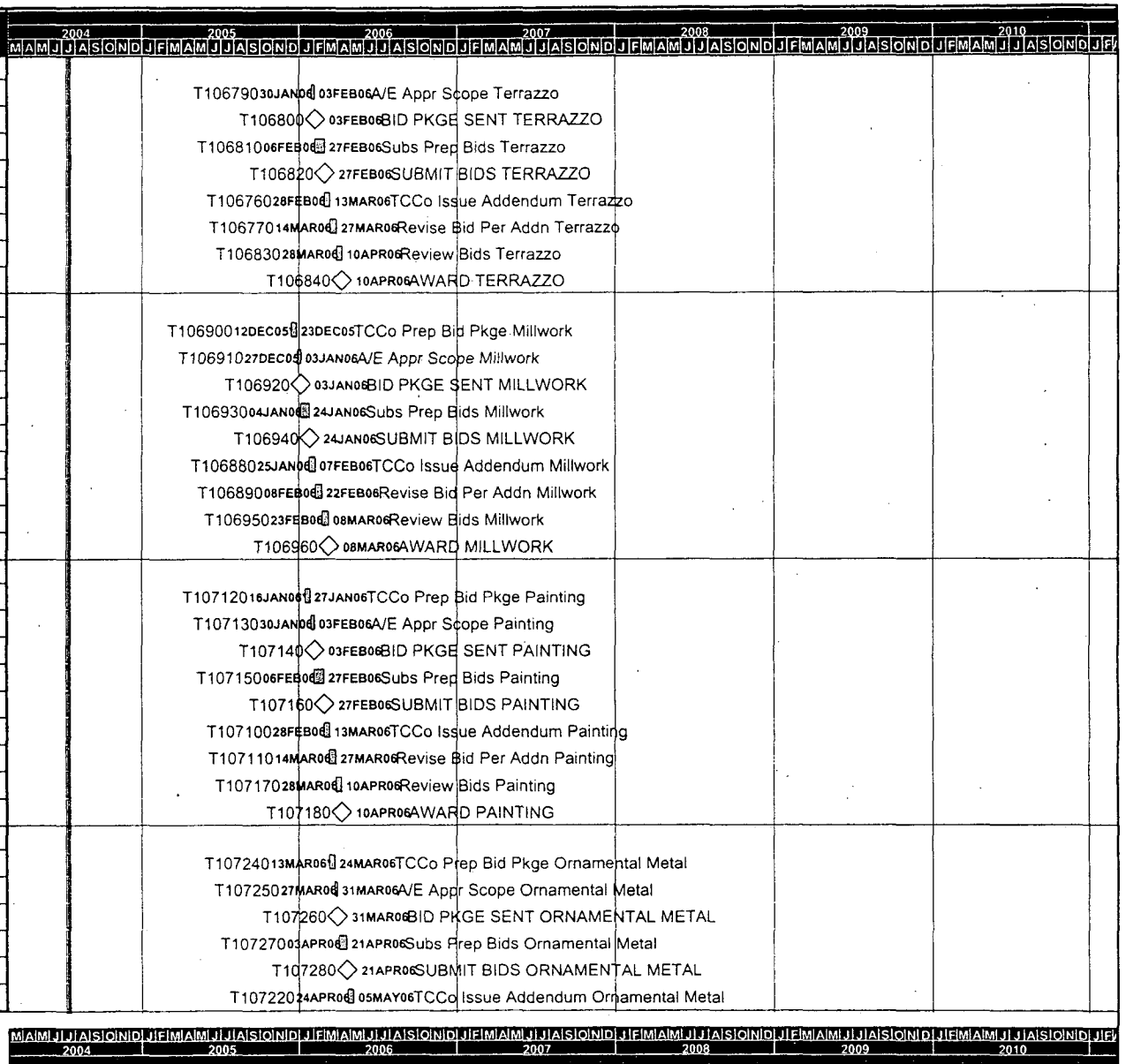
Activity ID	Dur	%	Total Float	Early Start	Early Finish
Terrazzo					
T106790	5	0	164	30JAN06	03FEB06
T106800	0	0	164		03FEB06
T106810	15	0	164	06FEB06	27FEB06
T106820	0	0	164		27FEB06
T106760	10	0	164	28FEB06	13MAR06
T106770	10	0	164	14MAR06	27MAR06
T106830	10	0	164	28MAR06	10APR06
T106840	0	0	164		10APR06
Millwork					
T106900	10	0	67	12DEC05*	23DEC05
T106910	5	0	67	27DEC05	03JAN06
T106920	0	0	67		03JAN06
T106930	15	0	67	04JAN06	24JAN06
T106940	0	0	67		24JAN06
T106880	10	0	67	25JAN06	07FEB06
T106890	10	0	67	08FEB06	22FEB06
T106950	10	0	67	23FEB06	08MAR06
T106960	0	0	67		08MAR06
Painting					
T107120	10	0	189	16JAN06*	27JAN06
T107130	5	0	189	30JAN06	03FEB06
T107140	0	0	189		03FEB06
T107150	15	0	189	06FEB06	27FEB06
T107160	0	0	189		27FEB06
T107100	10	0	189	28FEB06	13MAR06
T107110	10	0	189	14MAR06	27MAR06
T107170	10	0	189	28MAR06	10APR06
T107180	0	0	189		10APR06
Ornamental Metal					
T107240	10	0	85	13MAR06*	24MAR06
T107250	5	0	85	27MAR06	31MAR06
T107260	0	0	85		31MAR06
T107270	15	0	85	03APR06	21APR06
T107280	0	0	85		21APR06
T107220	10	0	85	24APR06	05MAY06



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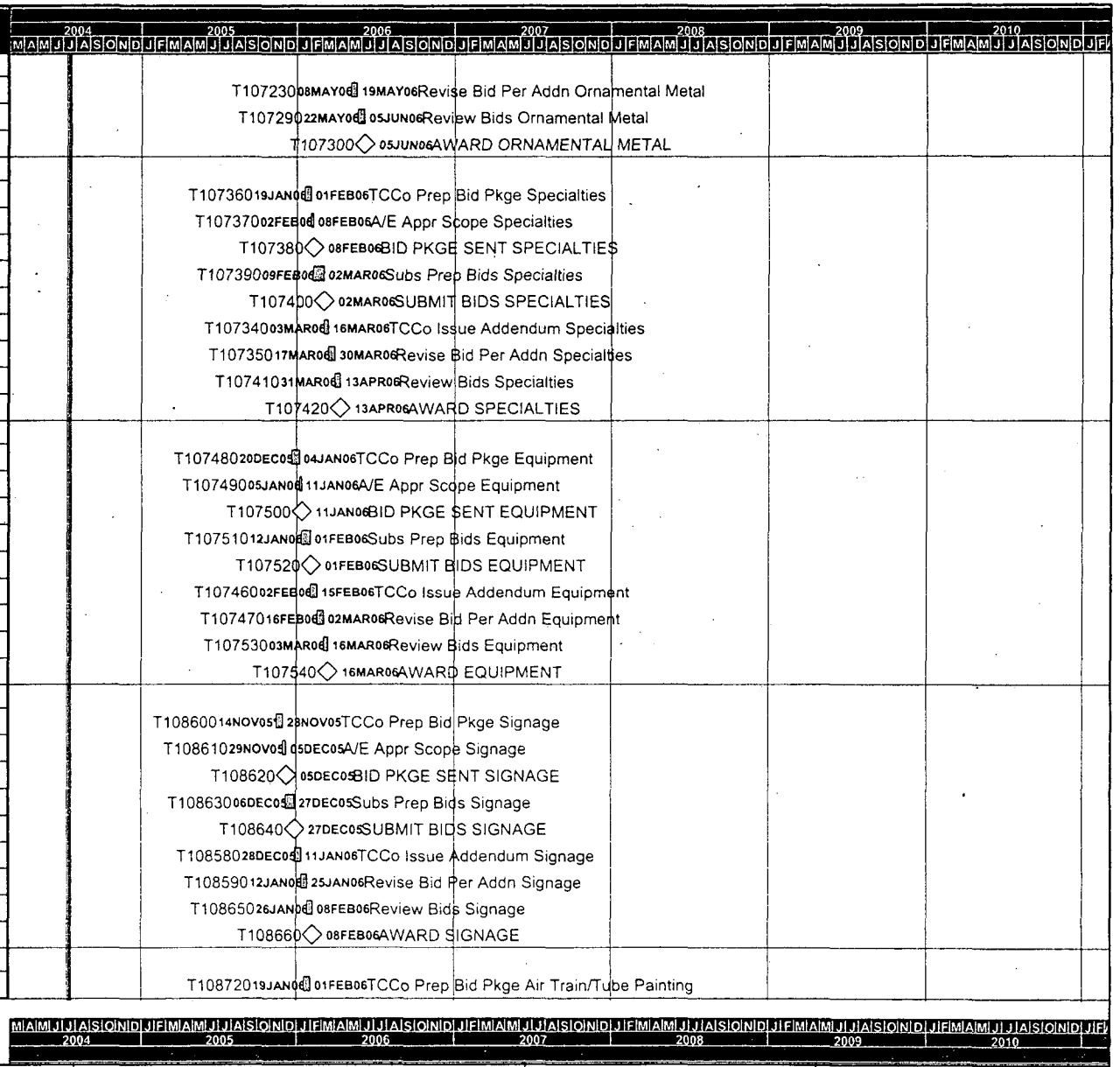
Activity iD	Dur	%	Total Float	Early Start	Early Finish
Ornamental Metal					
T107230	10	0	85	08MAY06	19MAY06
T107290	10	0	85	22MAY06	05JUN06
T107300	0	0	85		05JUN06
Specialties					
T107360	10	0	121	19JAN06	01FEB06
T107370	5	0	121	02FEB06	08FEB06
T107380	0	0	121		08FEB06
T107390	15	0	121	09FEB06	02MAR06
T107400	0	0	121		02MAR06
T107340	10	0	121	03MAR06	16MAR06
T107350	10	0	121	17MAR06	30MAR06
T107410	10	0	121	31MAR06	13APR06
T107420	0	0	121		13APR06
Equipment					
T107480	10	0	141	20DEC05	04JAN06
T107490	5	0	141	05JAN06	11JAN06
T107500	0	0	141		11JAN06
T107510	15	0	141	12JAN06	01FEB06
T107520	0	0	141		01FEB06
T107460	10	0	141	02FEB06	15FEB06
T107470	10	0	141	16FEB06	02MAR06
T107530	10	0	141	03MAR06	16MAR06
T107540	0	0	141		16MAR06
Signage					
T108600	10	0	46	14NOV05*	28NOV05
T108610	5	0	46	29NOV05	05DEC05
T108620	0	0	46		05DEC05
T108630	15	0	46	06DEC05	27DEC05
T108640	0	0	46		27DEC05
T108580	10	0	46	28DEC05	11JAN06
T108590	10	0	46	12JAN06	25JAN06
T108650	10	0	46	26JAN06	08FEB06
T108660	0	0	46		08FEB06
Air Train & Flight Tube Painting					
T108720	10	0	141	19JAN06	01FEB06



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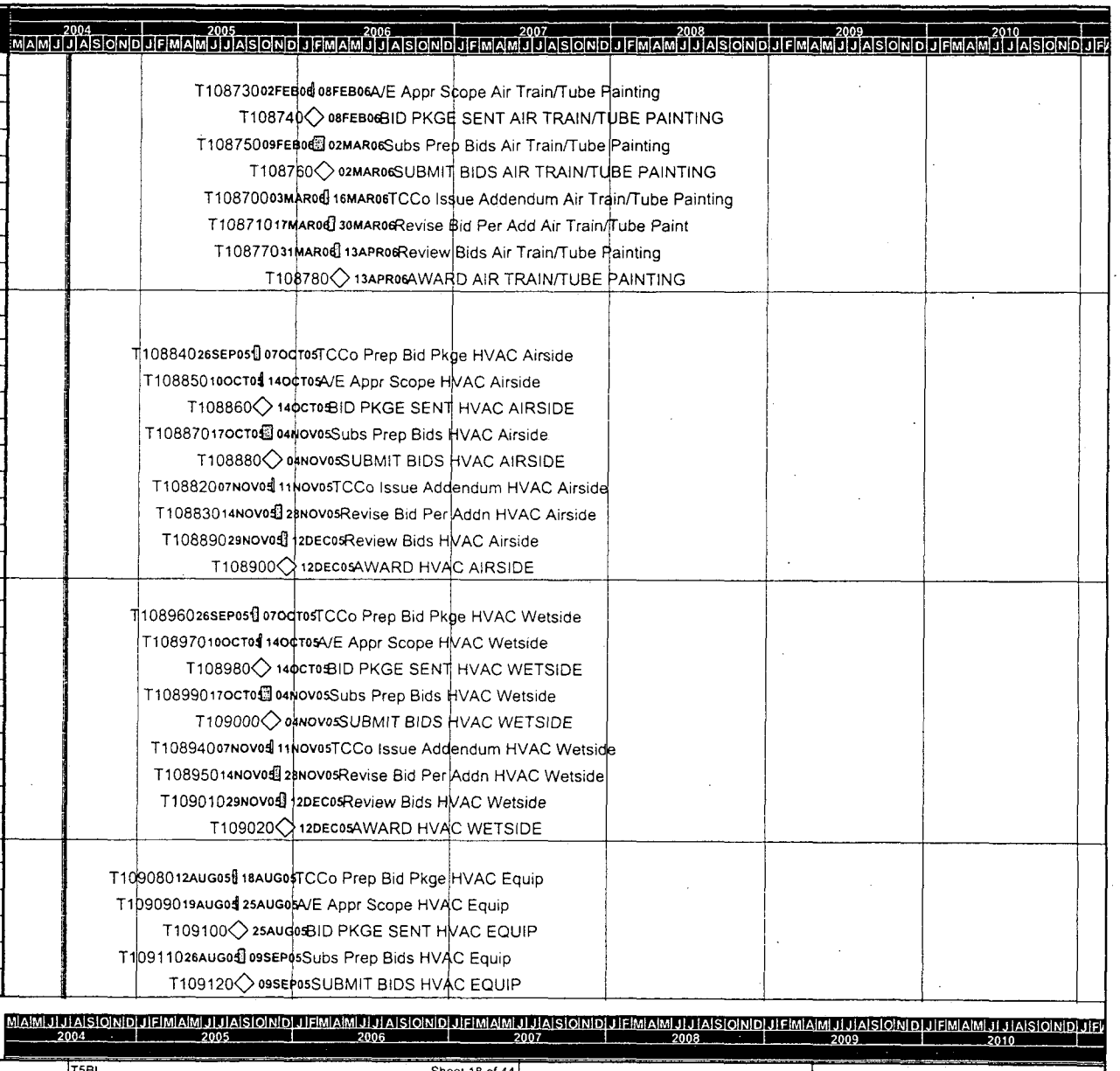
Activity ID	Dur	%	Total Float	Early Start	Early Finish
Air Train & Flight Tube Painting					
T108730	5	0	141	02FEB06	08FEB06
T108740	0	0	141		08FEB06
T108750	15	0	141	09FEB06	02MAR06
T108760	0	0	141		02MAR06
T108700	10	0	141	03MAR06	16MAR06
T108710	10	0	141	17MAR06	30MAR06
T108770	10	0	141	31MAR06	13APR06
T108780	0	0	141		13APR06
Package T-6 MEP TAA					
HVAC Airside					
T108840	10	0	132	26SEP05*	07OCT05
T108850	5	0	132	10OCT05	14OCT05
T108860	0	0	132		14OCT05
T108870	15	0	132	17OCT05	04NOV05
T108880	0	0	132		04NOV05
T108820	5	0	132	07NOV05	11NOV05
T108830	10	0	132	14NOV05	28NOV05
T108890	10	0	132	29NOV05	12DEC05
T108900	0	0	132		12DEC05
HVAC Wetside					
T108960	10	0	152	26SEP05*	07OCT05
T108970	5	0	152	10OCT05	14OCT05
T108980	0	0	152		14OCT05
T108990	15	0	152	17OCT05	04NOV05
T109000	0	0	152		04NOV05
T108940	5	0	152	07NOV05	11NOV05
T108950	10	0	152	14NOV05	28NOV05
T109010	10	0	152	29NOV05	12DEC05
T109020	0	0	152		12DEC05
HVAC Equipment					
T109080	5	0	72	12AUG05*	18AUG05
T109090	5	0	72	19AUG05	25AUG05
T109100	0	0	72		25AUG05
T109110	10	0	72	26AUG05	09SEP05
T109120	0	0	72		09SEP05



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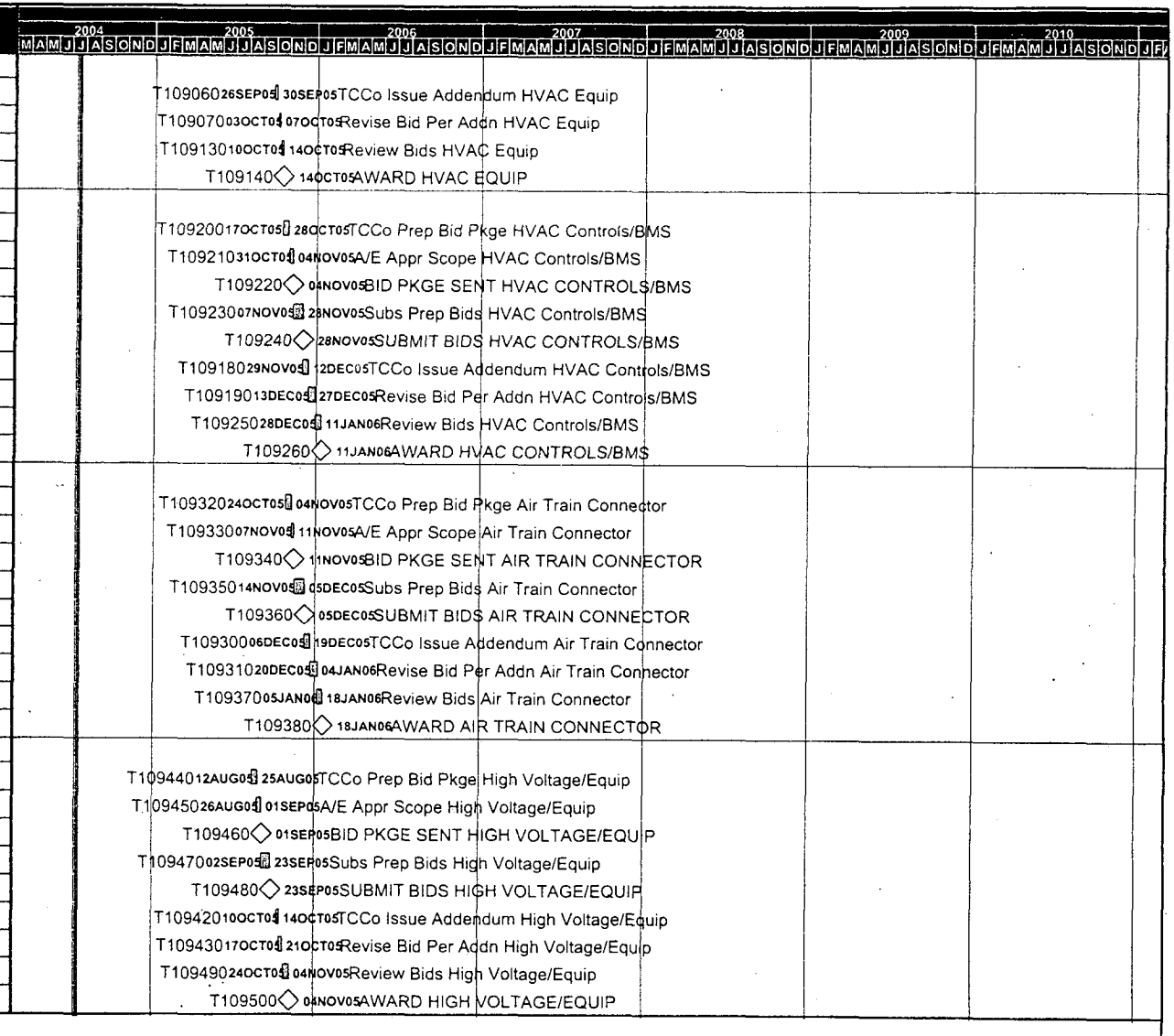
Activity ID	Dur	%	Total Float	Early Start	Early Finish
HVAC Equipment					
T109060	5	0	62	26SEP05	30SEP05
T109070	5	0	62	03OCT05	07OCT05
T109130	5	0	62	10OCT05	14OCT05
T109140	0	0	62		14OCT05
HVAC Controls					
T109200	10	0	86	17OCT05*	28OCT05
T109210	5	0	86	31OCT05	04NOV05
T109220	0	0	86		04NOV05
T109230	15	0	86	07NOV05	28NOV05
T109240	0	0	86		28NOV05
T109180	10	0	86	29NOV05	12DEC05
T109190	10	0	86	13DEC05	27DEC05
T109250	10	0	86	28DEC05	11JAN06
T109260	0	0	86		11JAN06
HVAC Air Train Connecter					
T109320	10	0	76	24OCT05*	04NOV05
T109330	5	0	76	07NOV05	11NOV05
T109340	0	0	76		11NOV05
T109350	15	0	76	14NOV05	05DEC05
T109360	0	0	76		05DEC05
T109300	10	0	76	06DEC05	19DEC05
T109310	10	0	76	20DEC05	04JAN06
T109370	10	0	76	05JAN06	18JAN06
T109380	0	0	76		18JAN06
High Voltage/Emergency Gen/ER Equip					
T109440	10	0	171	12AUG05	25AUG05
T109450	5	0	171	26AUG05	01SEP05
T109460	0	0	171		01SEP05
T109470	15	0	171	02SEP05	23SEP05
T109480	0	0	171		23SEP05
T109420	5	0	161	10OCT05	14OCT05
T109430	5	0	161	17OCT05	21OCT05
T109490	10	0	161	24OCT05	04NOV05
T109500	0	0	161		04NOV05



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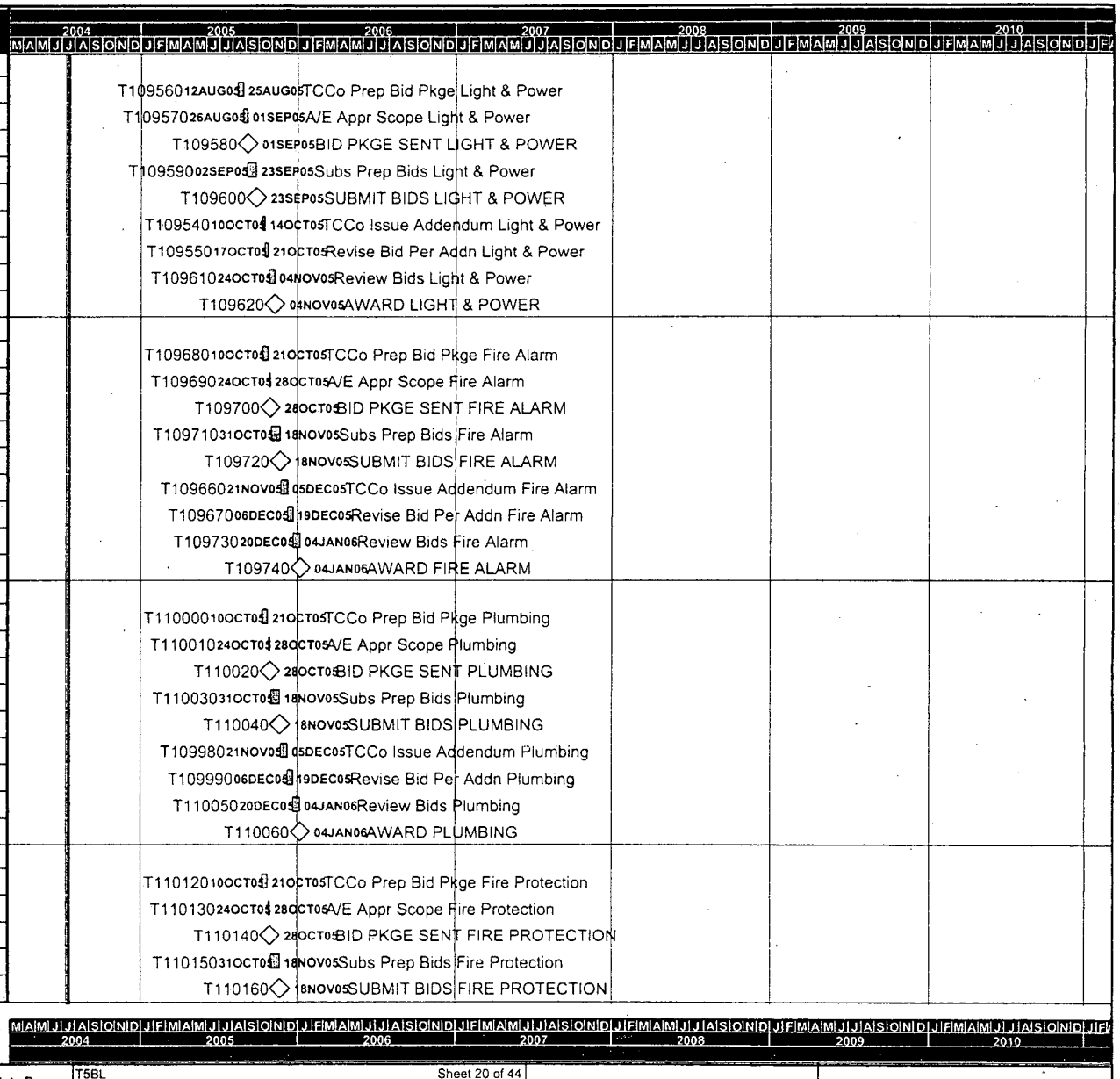
Activity ID	Dur	%	Total Float	Early Start	Early Finish
Light & Power					
T109560	10	0	137	12AUG05	25AUG05
T109570	5	0	137	26AUG05	01SEP05
T109580	0	0	137		01SEP05
T109590	15	0	137	02SEP05	23SEP05
T109600	0	0	137		23SEP05
T109540	5	0	127	10OCT05	14OCT05
T109550	5	0	127	17OCT05	21OCT05
T109610	10	0	127	24OCT05	04NOV05
T109620	0	0	127		04NOV05
Fire Alarm					
T109680	10	0	107	10OCT05	21OCT05
T109690	5	0	107	24OCT05	28OCT05
T109700	0	0	107		28OCT05
T109710	15	0	107	31OCT05	18NOV05
T109720	0	0	107		18NOV05
T109660	10	0	107	21NOV05	05DEC05
T109670	10	0	107	06DEC05	19DEC05
T109730	10	0	107	20DEC05	04JAN06
T109740	0	0	107		04JAN06
Plumbing					
T110000	10	0	151	10OCT05	21OCT05
T110010	5	0	151	24OCT05	28OCT05
T110020	0	0	151		28OCT05
T110030	15	0	151	31OCT05	18NOV05
T110040	0	0	151		18NOV05
T109980	10	0	151	21NOV05	05DEC05
T109990	10	0	151	06DEC05	19DEC05
T110050	10	0	151	20DEC05	04JAN06
T110060	0	0	151		04JAN06
Fire Protection					
T110120	10	0	124	10OCT05	21OCT05
T110130	5	0	124	24OCT05	28OCT05
T110140	0	0	124		28OCT05
T110150	15	0	124	31OCT05	18NOV05
T110160	0	0	124		18NOV05



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Finish Date	16JAN09
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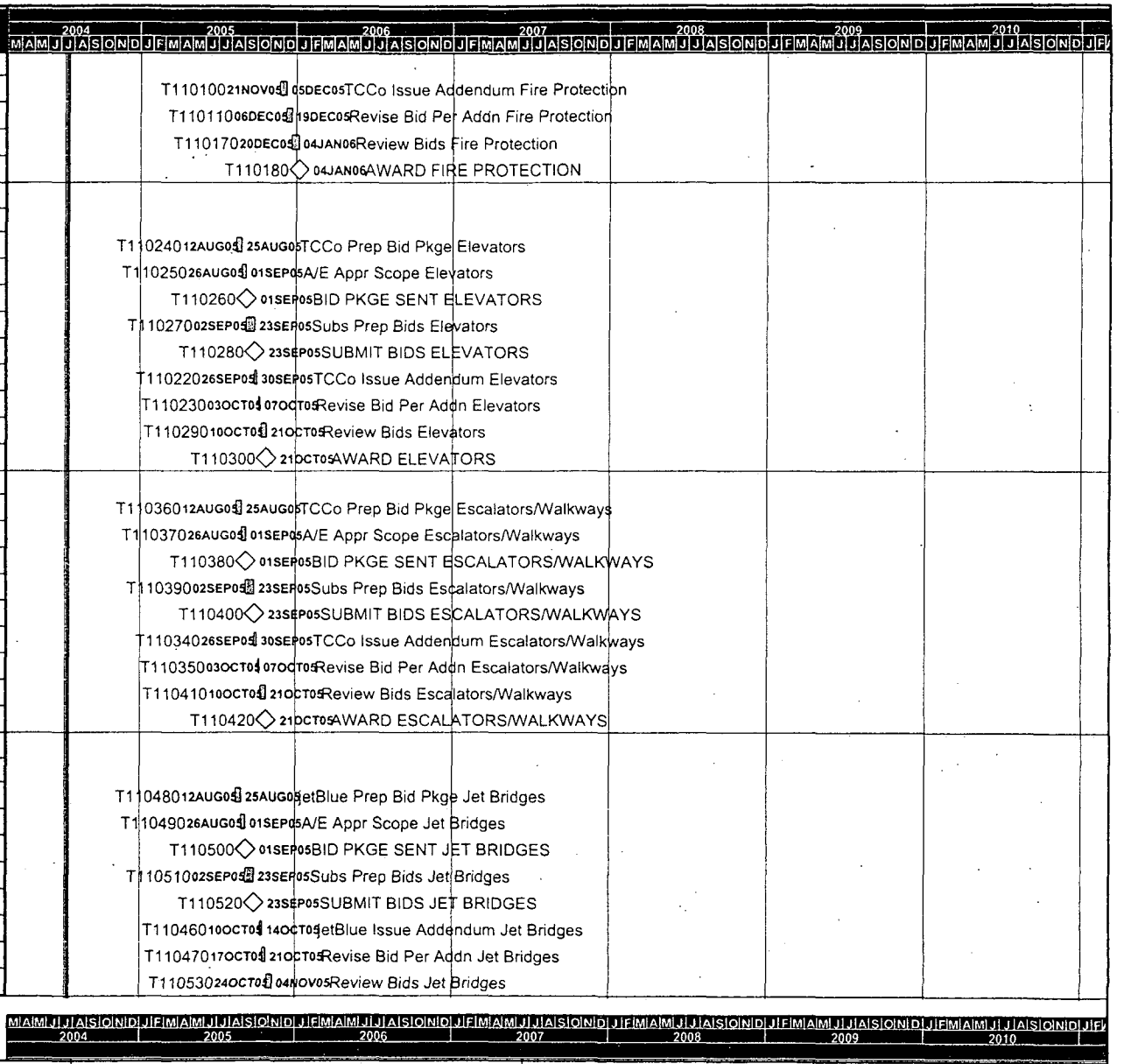
Turner
Turner Construction Company

ForTheRecord
Construction Project Planners

Activity ID	Dur	%	Total Float	Early Start	Early Finish
Fire Protection					
T110100	10	0	124	21NOV05	05DEC05
T110110	10	0	124	06DEC05	19DEC05
T110170	10	0	124	20DEC05	04JAN06
T110180	0	0	124		04JAN06
Package T-7 Vertical Transportation TAA					
Elevators					
T110240	10	0	146	12AUG05	25AUG05
T110250	5	0	146	26AUG05	01SEP05
T110260	0	0	146		01SEP05
T110270	15	0	146	02SEP05	23SEP05
T110280	0	0	146		23SEP05
T110220	5	0	146	26SEP05	30SEP05
T110230	5	0	146	03OCT05	07OCT05
T110290	10	0	146	10OCT05	21OCT05
T110300	0	0	146		21OCT05
Moving Walkways					
T110360	10	0	146	12AUG05	25AUG05
T110370	5	0	146	26AUG05	01SEP05
T110380	0	0	146		01SEP05
T110390	15	0	146	02SEP05	23SEP05
T110400	0	0	146		23SEP05
T110340	5	0	146	26SEP05	30SEP05
T110350	5	0	146	03OCT05	07OCT05
T110410	10	0	146	10OCT05	21OCT05
T110420	0	0	146		21OCT05
Package T-8 PLB TAA					
Jet Bridges					
T110480	10	0	206	12AUG05	25AUG05
T110490	5	0	206	26AUG05	01SEP05
T110500	0	0	206		01SEP05
T110510	15	0	206	02SEP05	23SEP05
T110520	0	0	206		23SEP05
T110460	5	0	196	10OCT05	14OCT05
T110470	5	0	196	17OCT05	21OCT05
T110530	10	0	196	24OCT05	04NOV05



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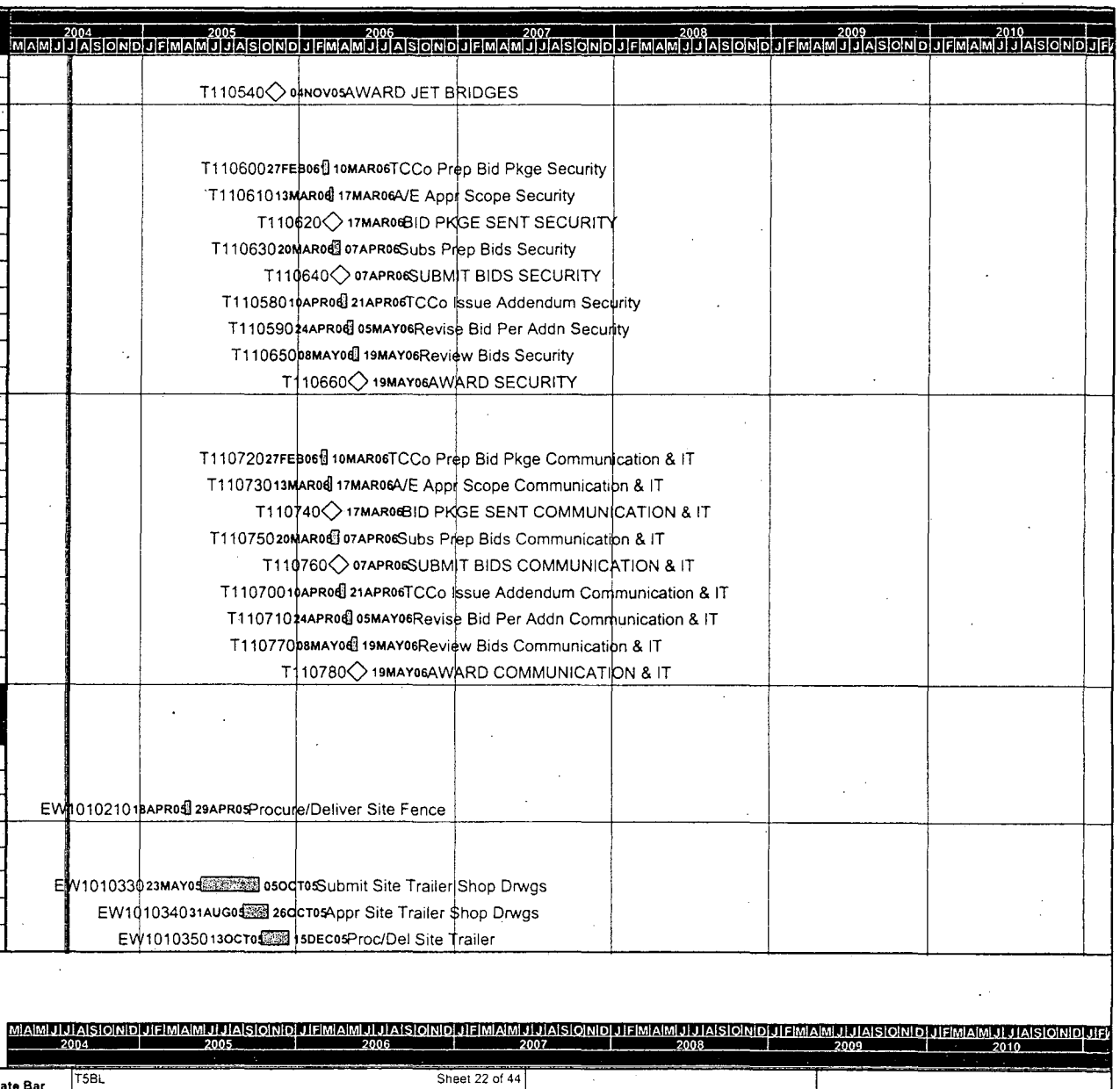
Activity ID	Dur	%	Total Float	Early Start	Early Finish
Jet Bridges					
T110540	0	0	196		04NOV05
Package T-9 Security Data TAA					
Security					
T110600	10	0	35	27FEB06*	10MAR06
T110610	5	0	35	13MAR06	17MAR06
T110620	0	0	35		17MAR06
T110630	15	0	35	20MAR06	07APR06
T110640	0	0	35		07APR06
T110580	10	0	35	10APR06	21APR06
T110590	10	0	35	24APR06	05MAY06
T110650	10	0	35	08MAY06	19MAY06
T110660	0	0	35		19MAY06
Package T-10 Communication & IT TAA					
Communication & IT					
T110720	10	0	25	27FEB06*	10MAR06
T110730	5	0	25	13MAR06	17MAR06
T110740	0	0	25		17MAR06
T110750	15	0	25	20MAR06	07APR06
T110760	0	0	25		07APR06
T110700	10	0	25	10APR06	21APR06
T110710	10	0	25	24APR06	05MAY06
T110770	10	0	25	08MAY06	19MAY06
T110780	0	0	25		19MAY06
Engineering/Fabrication					
External Works Packages					
Package EW-2 Construction Security TAA					
Construction Security					
EW1010210	10	0	82	18APR05	29APR05
Package EW-3 Site Trailer TAA					
Site Trailer					
EW1010330	95	0	61	23MAY05	05OCT05
EW1010340	40	0	61	31AUG05	26OCT05
EW1010350	45	0	61	13OCT05	15DEC05



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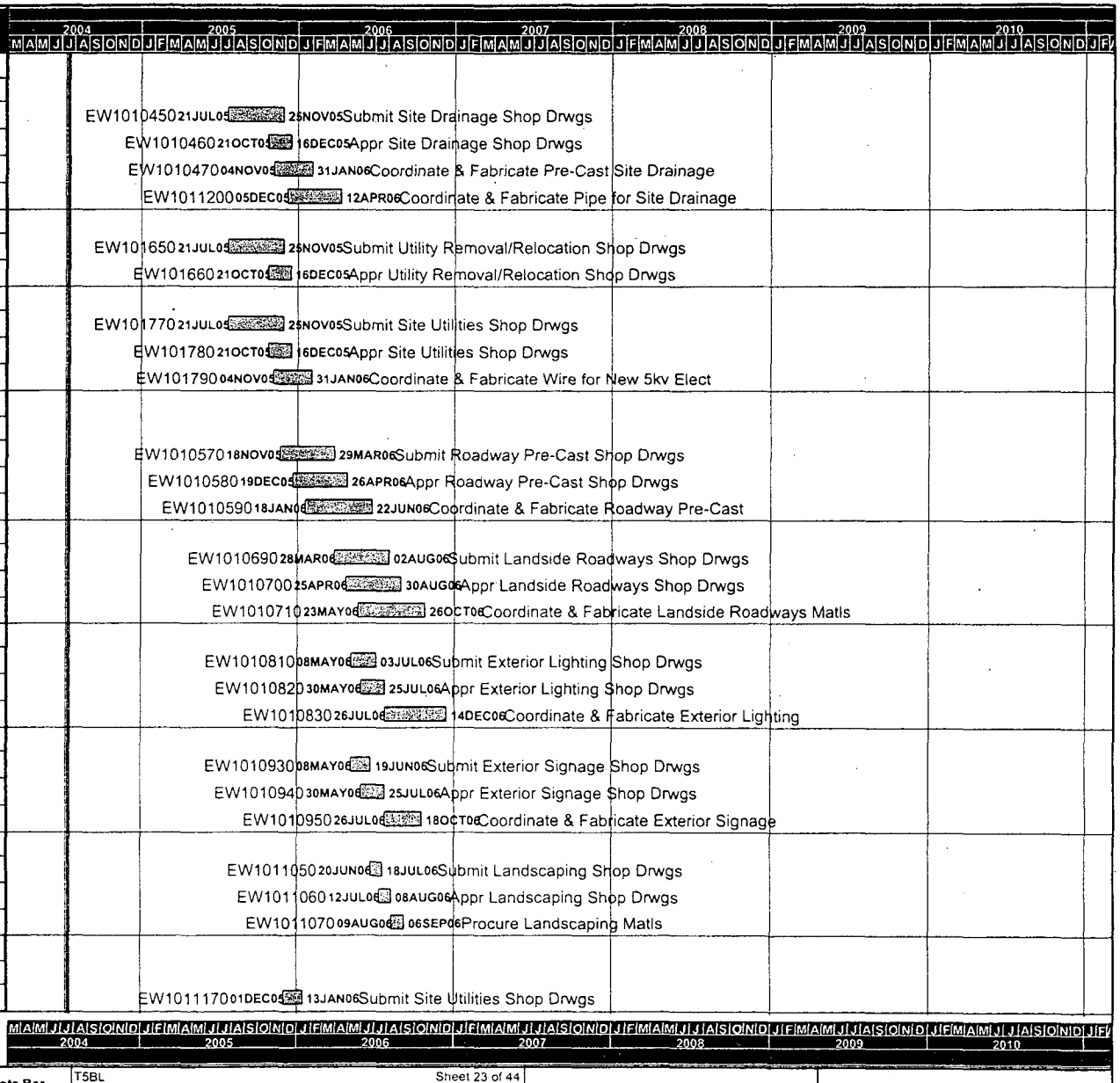
Activity ID	Dur	%	Total Float	Early Start	Early Finish
Package EW-5 Site Preparation TAA					
Site Preparation					
EW1010450	90	0	8	21JUL05	25NOV05
EW1010460	40	0	8	21OCT05	16DEC05
EW1010470	60	0	197	04NOV05	31JAN06
EW1011200	90	0	197	05DEC05	12APR06
Utility Relocation					
EW101650	90	0	8	21JUL05	25NOV05
EW101660	40	0	8	21OCT05	16DEC05
New Site Utilities					
EW101770	90	0	8	21JUL05	25NOV05
EW101780	40	0	8	21OCT05	16DEC05
EW101790	60	0	116	04NOV05	31JAN06
Package EW-7 Landside Civil Works TAA					
Departures Roadway					
EW1010570	90	0	337	18NOV05	29MAR06
EW1010580	90	0	337	19DEC05	26APR06
EW1010590	110	0	337	18JAN06	22JUN06
Landside Roadways					
EW1010690	90	0	249	28MAR06	02AUG06
EW1010700	90	0	249	25APR06	30AUG06
EW1010710	110	0	249	23MAY06	26OCT06
Exterior Lighting					
EW1010810	40	0	150	08MAY06	03JUL06
EW1010820	40	0	150	30MAY06	25JUL06
EW1010830	100	0	150	26JUL06	14DEC06
Exterior Signage					
EW1010930	30	0	190	08MAY06	19JUN06
EW1010940	40	0	190	30MAY06	25JUL06
EW1010950	60	0	190	26JUL06	18OCT06
Landscaping					
EW1011050	20	0	220	20JUN06	18JUL06
EW1011060	20	0	220	12JUL06	08AUG06
EW1011070	20	0	220	09AUG06	06SEP06
Pckge EW-8 Airside Civil/Terminal Interface TAA					
Airside Site Utilities					
EW1011170	30	0	38	01DEC05	13JAN06



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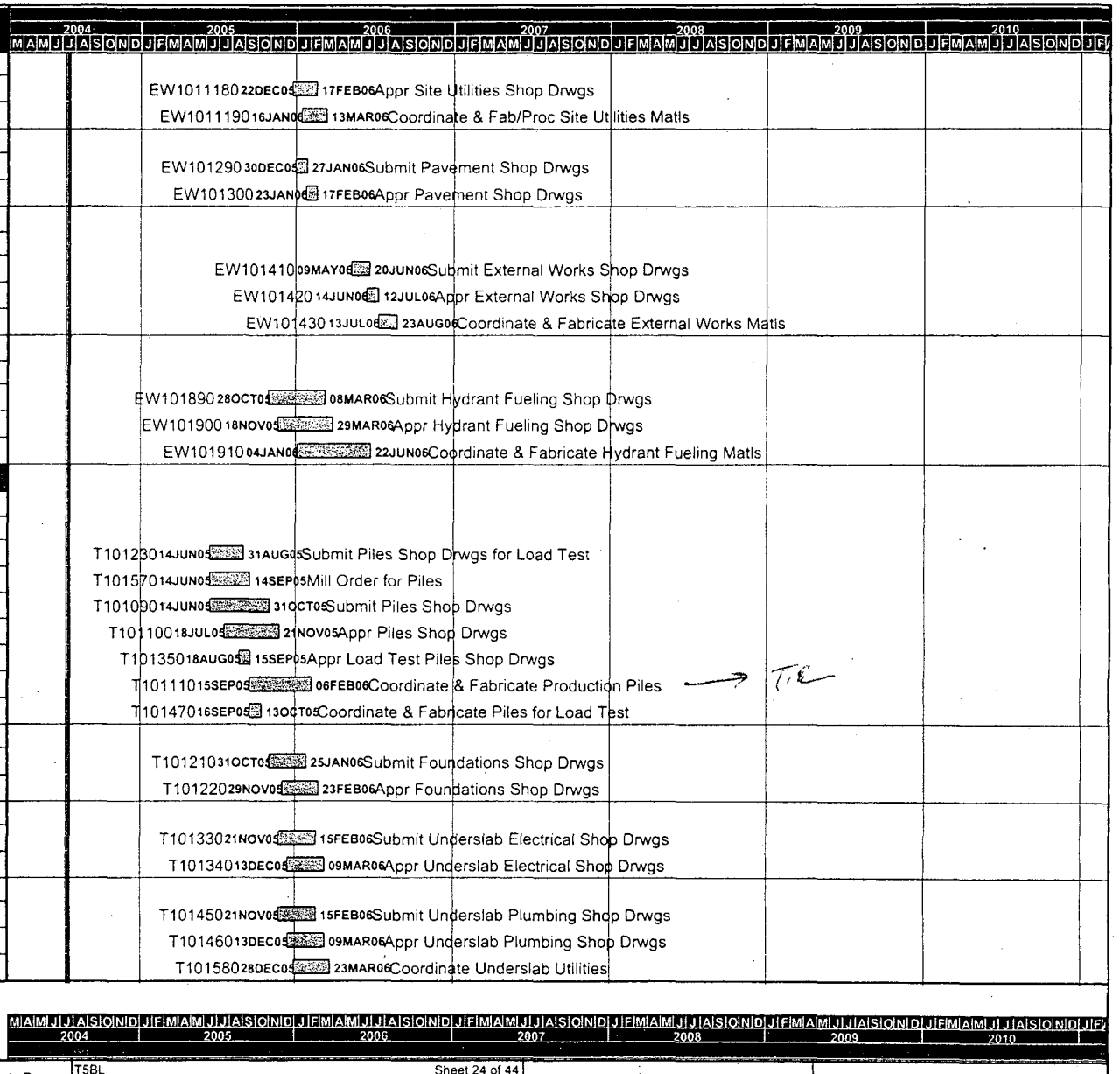
Activity ID	Dur	%	Total Float	Early Start	Early Finish
Airside Site Utilities					
EW1011180	40	0	38	22DEC05	17FEB06
EW1011190	40	0	38	16JAN06	13MAR06
Airside Pavement					
EW101290	20	0	294	30DEC05	27JAN06
EW101300	20	0	294	23JAN06	17FEB06
Package EW-9 External Works Finishing TAA					
External Works Finishing					
EW101410	30	0	164	09MAY06	20JUN06
EW101420	20	0	164	14JUN06	12JUL06
EW101430	30	0	164	13JUL06	23AUG06
Package EW-10 Hydrant Fueling TAA					
Hydrant Refueling					
EW101890	90	0	77	28OCT05	08MAR06
EW101900	90	0	77	18NOV05	29MAR06
EW101910	120	0	77	04JAN06	22JUN06
Terminal Packages					
Package T-1 Foundations/Piles TAA					
Piles					
T101230	56	0	21	14JUN05	31AUG05
T101570	65	0	22	14JUN05	14SEP05
T101090	98	0	44	14JUN05	31OCT05
T101100	90	0	44	18JUL05	21NOV05
T101350	20	0	21	18AUG05	15SEP05
T101110	100	0	22	15SEP05	06FEB06
T101470	20	0	21	16SEP05	13OCT05
Foundations					
T101210	60	0	22	31OCT05	25JAN06
T101220	60	0	22	29NOV05	23FEB06
Underslab Electrical					
T101330	60	0	21	21NOV05	15FEB06
T101340	60	0	21	13DEC05	09MAR06
Underslab Plumbing					
T101450	60	0	21	21NOV05	15FEB06
T101460	60	0	21	13DEC05	09MAR06
T101580	60	0	21	28DEC05	23MAR06



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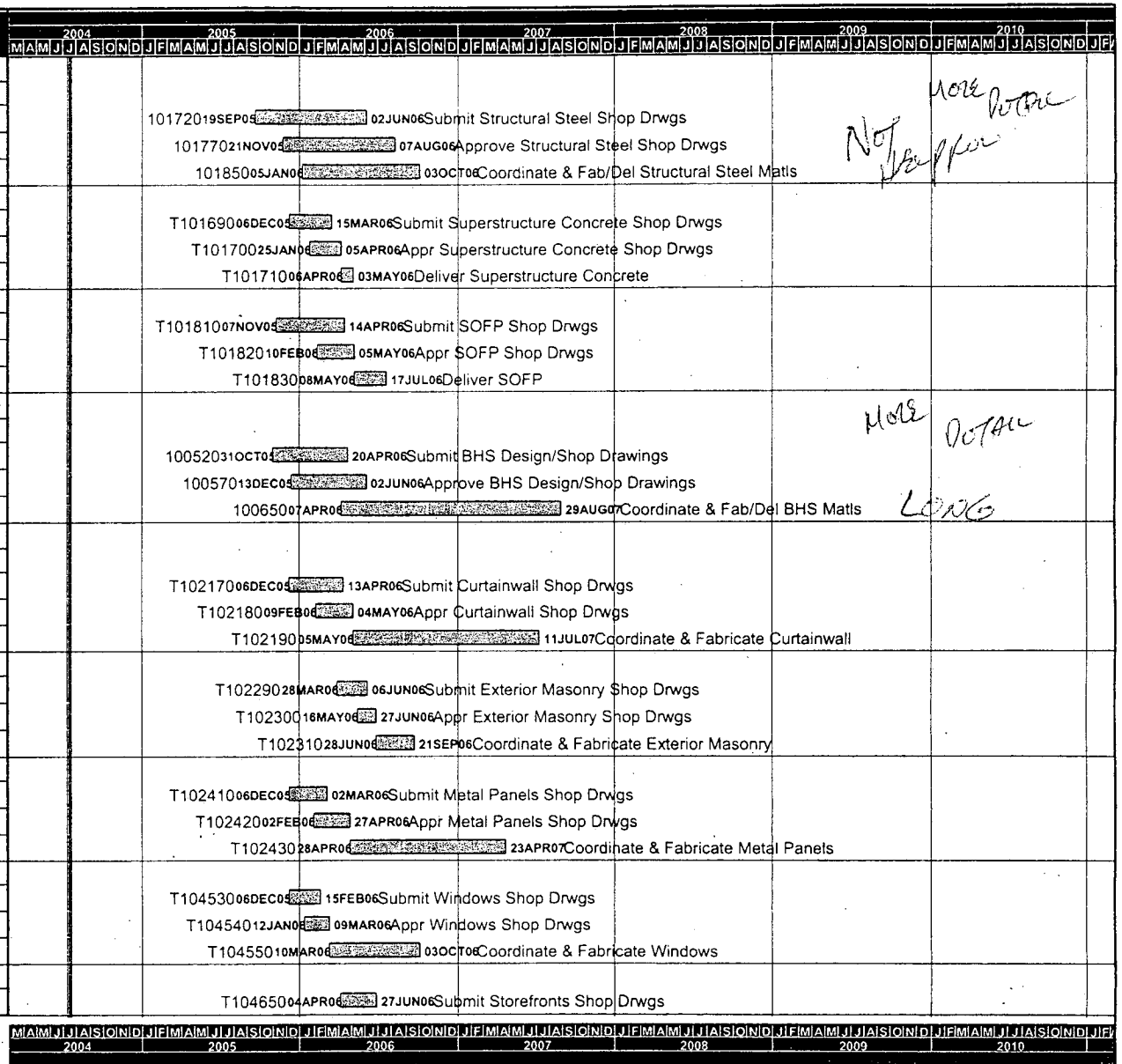
Activity ID	Dur	%	Total Float	Early Start	Early Finish
Package T-2 Structural TAA					
Structural Steel					
101720	180	0	24	19SEP05	02JUN06
101770	180	0	24	21NOV05	07AUG06
101850	190	0	24	05JAN06	03OCT06
Superstructure Concrete					
T101690	69	0	99	06DEC05	15MAR06
T101700	50	0	99	25JAN06	05APR06
T101710	20	0	99	06APR06	03MAY06
Spray on Fireproofing					
T101810	111	0	60	07NOV05	14APR06
T101820	60	0	60	10FEB06	05MAY06
T101830	49	0	60	08MAY06	17JUL06
Package T-3 Baggage Handling TAA					
Baggage Handling System					
100520	120	0	22	31OCT05	20APR06
100570	120	0	22	13DEC05	02JUN06
100650	355	0	22	07APR06	29AUG07
Package T-4 External Envelope TAA					
Curtain Wall					
T102170	90	0	28	06DEC05	13APR06
T102180	60	0	28	09FEB06	04MAY06
T102190	300	0	28	05MAY06	11JUL07
Exterior Masonry					
T102290	50	0	31	28MAR06	06JUN06
T102300	30	0	31	16MAY06	27JUN06
T102310	60	0	31	28JUN06	21SEP06
Metal Panels					
T102410	60	0	33	06DEC05	02MAR06
T102420	60	0	33	02FEB06	27APR06
T102430	250	0	33	28APR06	23APR07
Windows					
T104530	50	0	23	06DEC05	15FEB06
T104540	40	0	23	12JAN06	09MAR06
T104550	145	0	23	10MAR06	03OCT06
Storefronts					
T104650	60	0	16	04APR06	27JUN06



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All Activities Bar Chart

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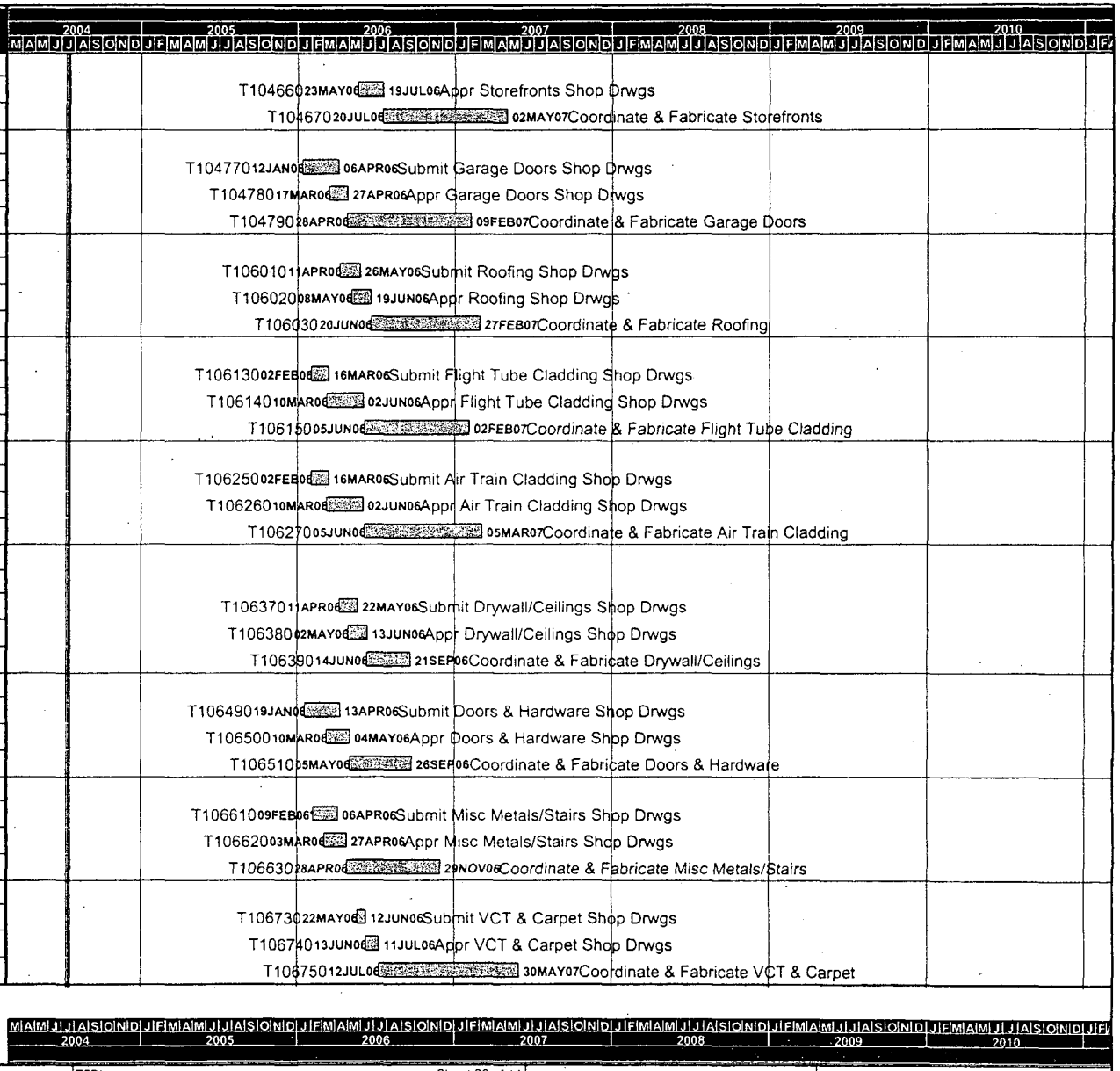
Activity ID	Dur	%	Total Float	Early Start	Early Finish
Storefronts					
T104660	40	0	16	23MAY06	19JUL06
T104670	200	0	16	20JUL06	02MAY07
Garage Doors					
T104770	60	0	23	12JAN06	06APR06
T104780	30	0	23	17MAR06	27APR06
T104790	200	0	23	28APR06	09FEB07
Roofing					
T106010	34	0	22	11APR06	26MAY06
T106020	30	0	22	08MAY06	19JUN06
T106030	175	0	22	20JUN06	27FEB07
Flight Tube Cladding					
T106130	30	0	31	02FEB06	16MAR06
T106140	60	0	31	10MAR06	02JUN06
T106150	170	0	31	05JUN06	02FEB07
Air Train Cladding					
T106250	30	0	101	02FEB06	16MAR06
T106260	60	0	101	10MAR06	02JUN06
T106270	190	0	101	05JUN06	05MAR07
Package T-5 Interior Construction TAA					
Drywall/Ceilings					
T106370	30	0	124	11APR06	22MAY06
T106380	30	0	124	02MAY06	13JUN06
T106390	70	0	124	14JUN06	21SEP06
Doors & Hardware					
T106490	60	0	121	19JAN06	13APR06
T106500	40	0	121	10MAR06	04MAY06
T106510	100	0	121	05MAY06	26SEP06
Misc Metal & Stairs					
T106610	40	0	76	09FEB06*	06APR06
T106620	40	0	76	03MAR06	27APR06
T106630	150	0	76	28APR06	29NOV06
VCT & Carpet					
T106730	15	0	230	22MAY06	12JUN06
T106740	20	0	230	13JUN06	11JUL06
T106750	225	0	230	12JUL06	30MAY07



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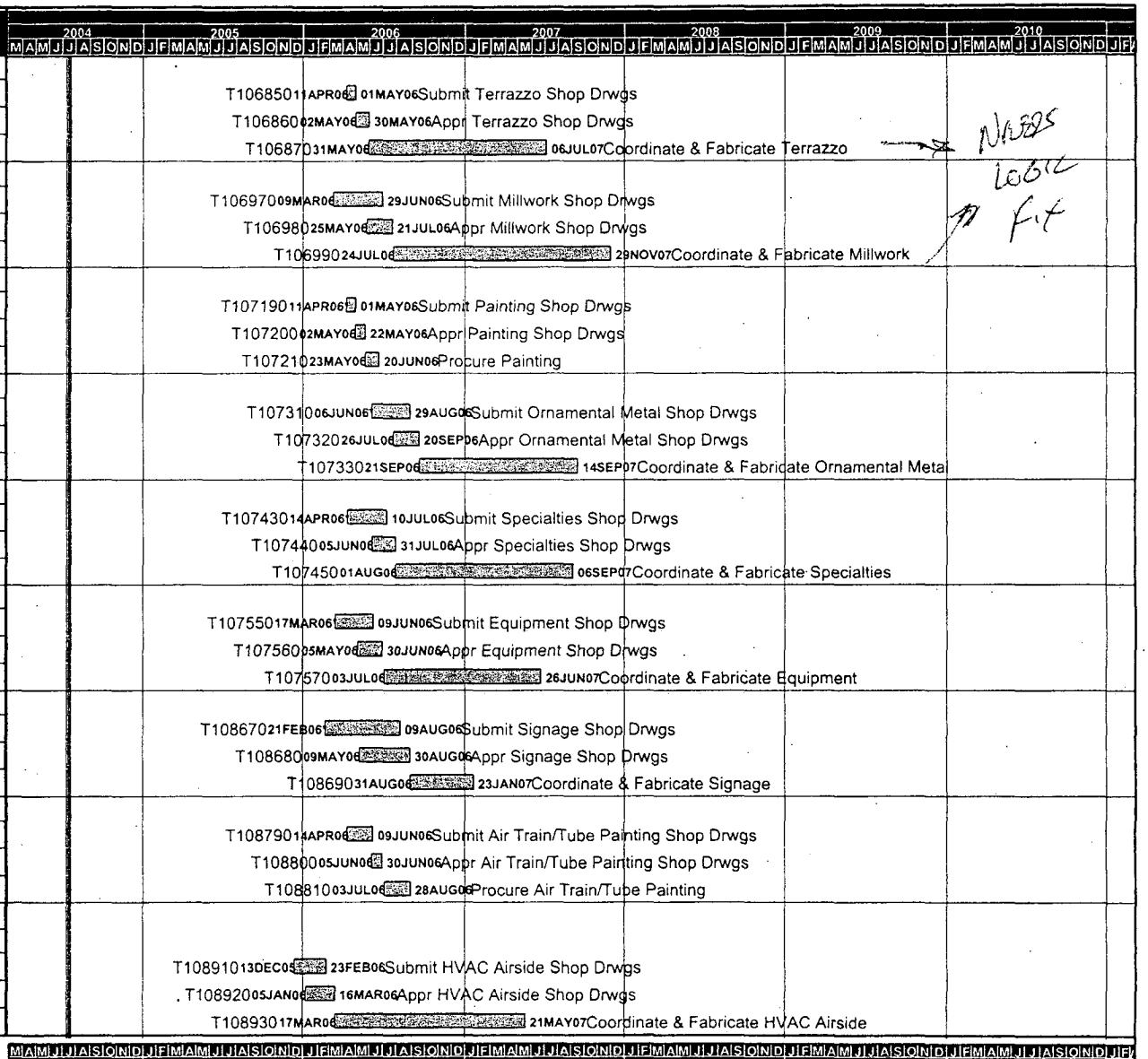
Activity ID	Dur	%	Total Float	Early Start	Early Finish
Terrazzo					
T106850	15	0	164	11APR06	01MAY06
T106860	20	0	164	02MAY06	30MAY06
T106870	280	0	164	31MAY06	06JUL07
Millwork					
T106970	80	0	67	09MAR06	29JUN06
T106980	40	0	67	25MAY06	21JUL06
T106990	345	0	67	24JUL06	29NOV07
Painting					
T107190	15	0	189	11APR06*	01MAY06
T107200	15	0	189	02MAY06	22MAY06
T107210	20	0	189	23MAY06	20JUN06
Ornamental Metal					
T107310	60	0	85	06JUN06*	29AUG06
T107320	40	0	85	26JUL06	20SEP06
T107330	250	0	85	21SEP06	14SEP07
Specialties					
T107430	60	0	121	14APR06*	10JUL06
T107440	40	0	121	05JUN06	31JUL06
T107450	280	0	121	01AUG06	06SEP07
Equipment					
T107550	60	0	141	17MAR06*	09JUN06
T107560	40	0	141	05MAY06	30JUN06
T107570	250	0	141	03JUL06	26JUN07
Signage					
T108670	120	0	39	21FEB06*	09AUG06
T108680	80	0	39	09MAY06	30AUG06
T108690	100	0	39	31AUG06	23JAN07
Air Train & Flight Tube Painting					
T108790	40	0	141	14APR06	09JUN06
T108800	20	0	141	05JUN06	30JUN06
T108810	40	0	141	03JUL06	28AUG06
Package T-6 MEP TAA					
HVAC Airside					
T108910	50	0	132	13DEC05	23FEB06
T108920	50	0	132	05JAN06	16MAR06
T108930	300	0	132	17MAR06	21MAY07



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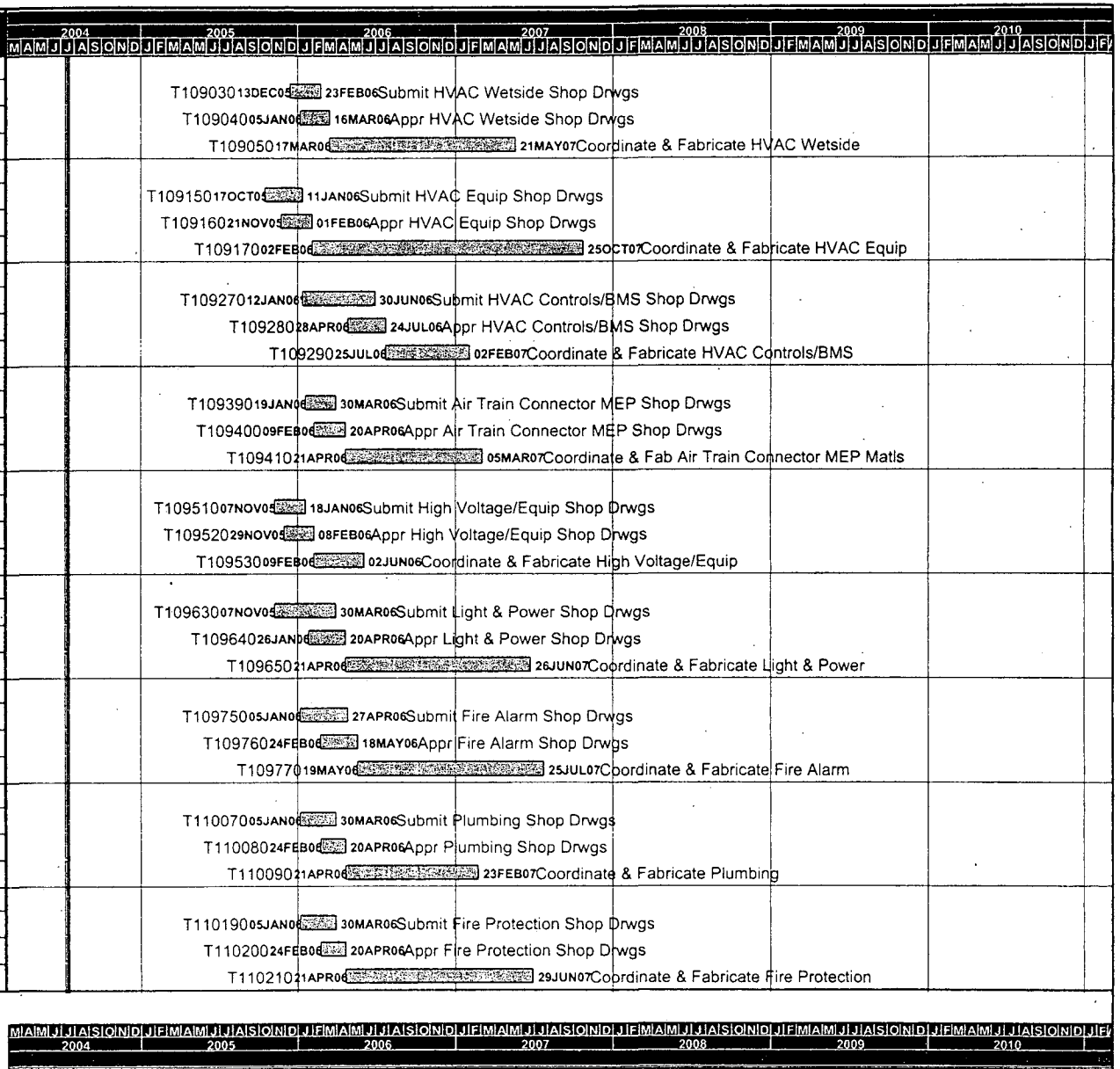
Activity ID	Dur	%	Total Float	Early Start	Early Finish
HVAC Wetside					
T109030	50	0	152	13DEC05	23FEB06
T109040	50	0	152	05JAN06	16MAR06
T109050	300	0	152	17MAR06	21MAY07
HVAC Equipment					
T109150	60	0	62	17OCT05	11JAN06
T109160	50	0	62	21NOV05	01FEB06
T109170	440	0	62	02FEB06	25OCT07
HVAC Controls					
T109270	120	0	86	12JAN06*	30JUN06
T109280	60	0	86	28APR06	24JUL06
T109290	135	0	86	25JUL06	02FEB07
HVAC Air Train Connecter					
T109390	50	0	76	19JAN06	30MAR06
T109400	50	0	76	09FEB06	20APR06
T109410	220	0	76	21APR06	05MAR07
High Voltage/Emergency Gen/ER Equip					
T109510	50	0	161	07NOV05	18JAN06
T109520	50	0	161	29NOV05	08FEB06
T109530	80	0	161	09FEB06	02JUN06
Light & Power					
T109630	100	0	127	07NOV05	30MAR06
T109640	60	0	127	26JAN06	20APR06
T109650	300	0	127	21APR06	26JUN07
Fire Alarm					
T109750	80	0	107	05JAN06	27APR06
T109760	60	0	107	24FEB06	18MAY06
T109770	300	0	107	19MAY06	25JUL07
Plumbing					
T110070	60	0	151	05JAN06	30MAR06
T110080	40	0	151	24FEB06	20APR06
T110090	214	0	151	21APR06	23FEB07
Fire Protection					
T110190	60	0	124	05JAN06	30MAR06
T110200	40	0	124	24FEB06	20APR06
T110210	303	0	124	21APR06	29JUN07



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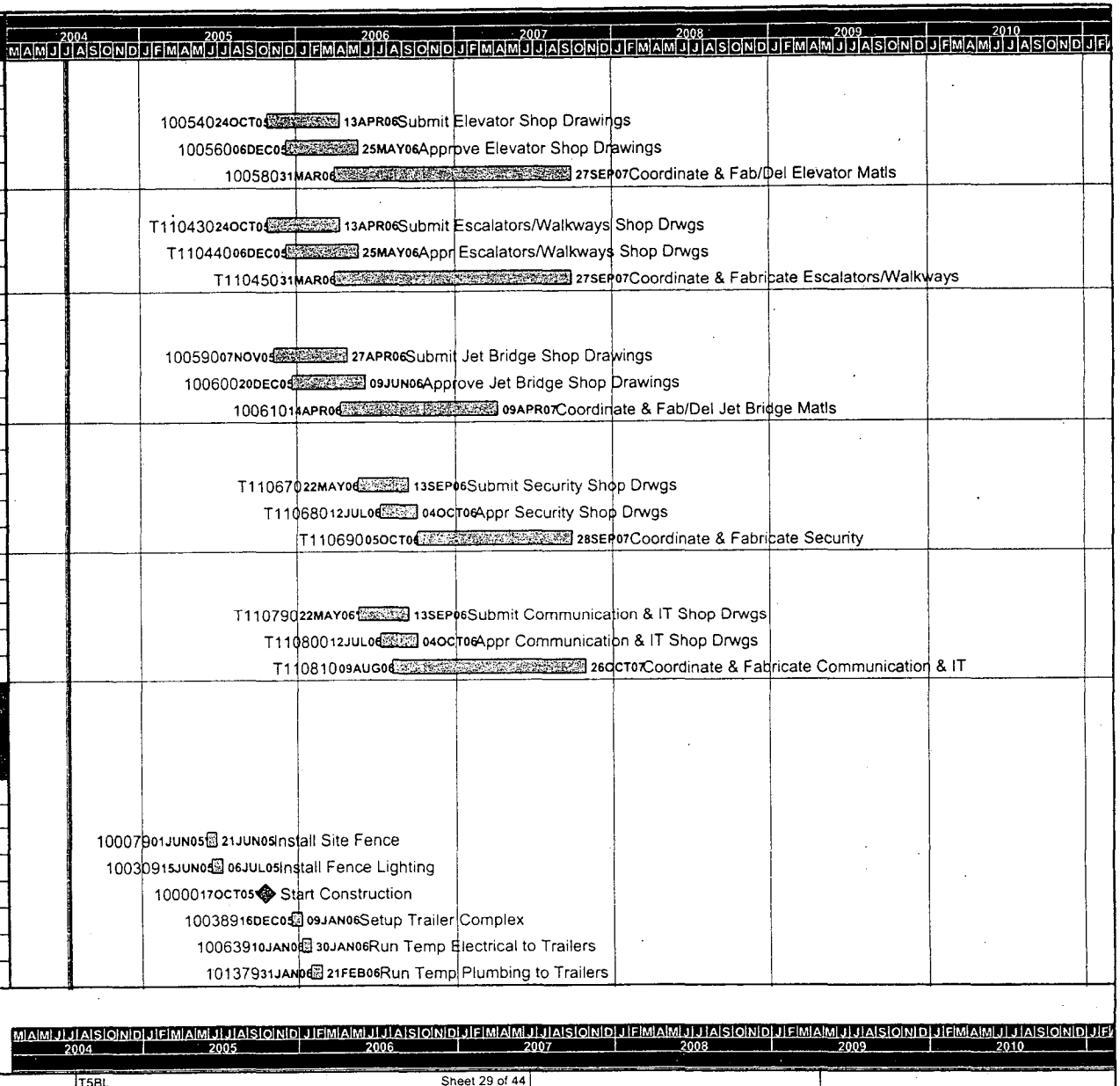
Activity ID	Dur	%	Total Float	Early Start	Early Finish
Package T-7 Vertical Transportation TAA					
Elevators					
100540	120	0	146	24OCT05	13APR06
100560	120	0	146	06DEC05	25MAY06
100580	380	0	146	31MAR06	27SEP07
Moving Walkways					
T110430	120	0	146	24OCT05	13APR06
T110440	120	0	146	06DEC05	25MAY06
T110450	380	0	146	31MAR06	27SEP07
Package T-8 PLB TAA					
Jet Bridges					
100590	120	0	196	07NOV05	27APR06
100600	120	0	196	20DEC05	09JUN06
100610	250	0	196	14APR06	09APR07
Package T-9 Security Data TAA					
Security					
T110670	80	0	35	22MAY06	13SEP06
T110680	60	0	35	12JUL06	04OCT06
T110690	250	0	35	05OCT06	28SEP07
Package T-10 Communication & IT TAA					
Communication & IT					
T110790	80	0	25	22MAY06*	13SEP06
T110800	60	0	25	12JUL06	04OCT06
T110810	310	0	25	09AUG06	26OCT07
Construction					
Mobilization					
100079	15	0	61	01JUN05*	21JUN05
100309	15	0	61	15JUN05	06JUL05
10000	0	0	0	17OCT05*	
100389	15	0	61	16DEC05	09JAN06
100639	15	0	61	10JAN06	30JAN06
101379	15	0	61	31JAN06	21FEB06



Start Date	16JUN04
Finish Date	16JAN09
Data Date	16JUL04
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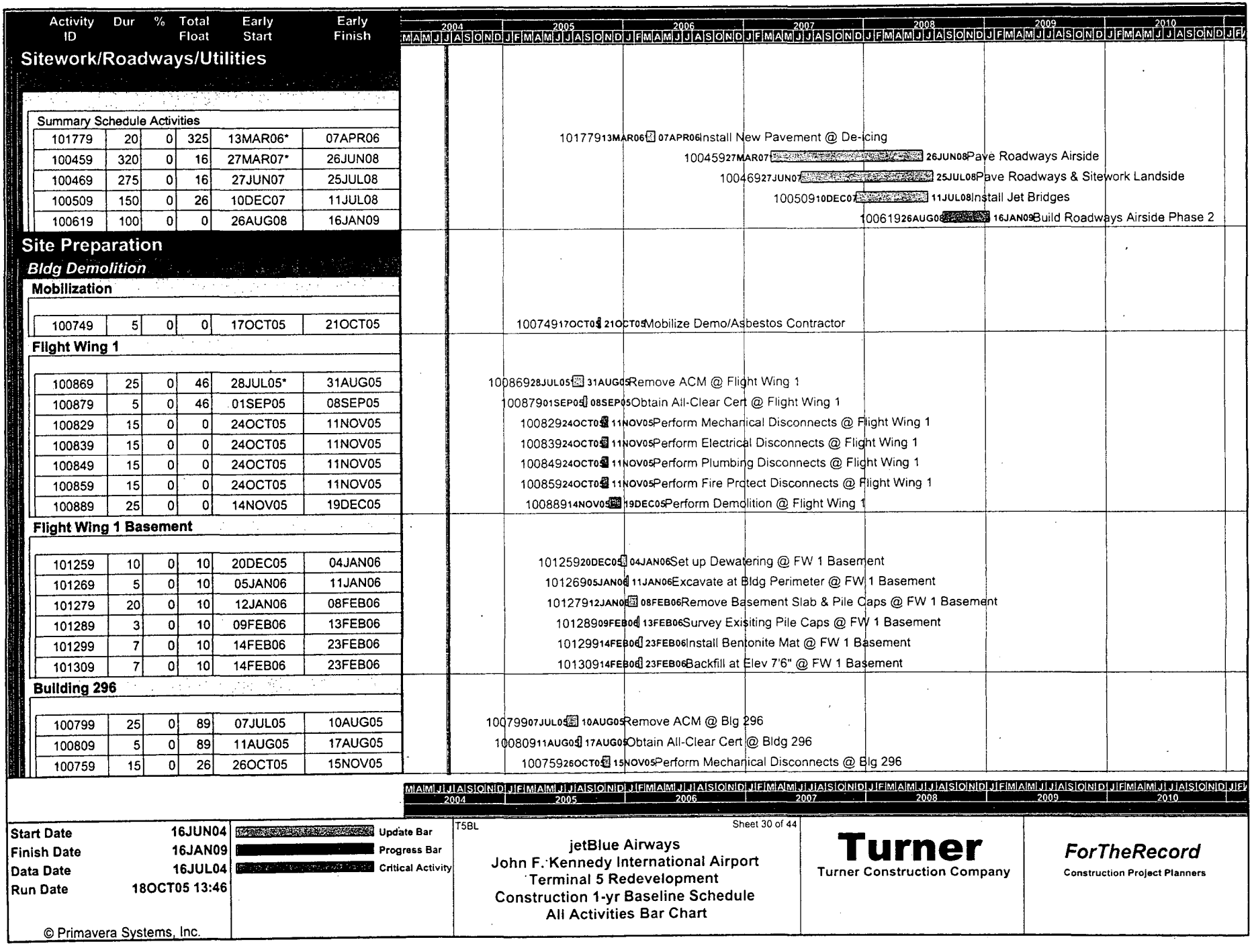
Activity ID
Dur
%
Total Float
Early Start
Early Finish
2004
2005
2006
2007
2008
2009
2010
Sitework/Roadways/Utilities
Summary Schedule Activities
101779 20 0 325 13MAR06* 07APR06
100459 320 0 16 27MAR07* 26JUN08
100469 275 0 16 27JUN07 25JUL08
100509 150 0 26 10DEC07 11JUL08
100619 100 0 0 26AUG08 16JAN09
101779 13MAR06 07APR06 Install New Pavement @ De-icing
100459 27MAR07 26JUN08 Pave Roadways Airside
100469 27JUN07 25JUL08 Pave Roadways & Sitework Landside
100509 10DEC07 11JUL08 Install Jet Bridges
100619 26AUG08 16JAN09 Build Roadways Airside Phase 2
Site Preparation
Bldg Demolition
Mobilization
100749 5 0 0 17OCT05 21OCT05
100749 17OCT05 21OCT05 Mobilize Demo/Asbestos Contractor
Flight Wing 1
100869 25 0 46 28JUL05* 31AUG05
100879 5 0 46 01SEP05 08SEP05
100829 15 0 0 24OCT05 11NOV05
100839 15 0 0 24OCT05 11NOV05
100849 15 0 0 24OCT05 11NOV05
100859 15 0 0 24OCT05 11NOV05
100889 25 0 0 14NOV05 19DEC05
100869 28JUL05 31AUG05 Remove ACM @ Flight Wing 1
100879 01SEP05 08SEP05 Obtain All-Clear Cert @ Flight Wing 1
100829 24OCT05 11NOV05 Perform Mechanical Disconnects @ Flight Wing 1
100839 24OCT05 11NOV05 Perform Electrical Disconnects @ Flight Wing 1
100849 24OCT05 11NOV05 Perform Plumbing Disconnects @ Flight Wing 1
100859 24OCT05 11NOV05 Perform Fire Protect Disconnects @ Flight Wing 1
100889 14NOV05 19DEC05 Perform Demolition @ Flight Wing 1
Flight Wing 1 Basement
101259 10 0 10 20DEC05 04JAN06
101269 5 0 10 05JAN06 11JAN06
101279 20 0 10 12JAN06 08FEB06
101289 3 0 10 09FEB06 13FEB06
101299 7 0 10 14FEB06 23FEB06
101309 7 0 10 14FEB06 23FEB06
101259 20DEC05 04JAN06 Set up Dewatering @ FW 1 Basement
101269 05JAN06 11JAN06 Excavate at Bldg Perimeter @ FW 1 Basement
101279 12JAN06 08FEB06 Remove Basement Slab & Pile Caps @ FW 1 Basement
101289 09FEB06 13FEB06 Survey Exisiting Pile Caps @ FW 1 Basement
101299 14FEB06 23FEB06 Install Bentonite Mat @ FW 1 Basement
101309 14FEB06 23FEB06 Backfill at Elev 7'6" @ FW 1 Basement
Building 296
100799 25 0 89 07JUL05 10AUG05
100809 5 0 89 11AUG05 17AUG05
100759 15 0 26 26OCT05 15NOV05
100799 07JUL05 10AUG05 Remove ACM @ Blg 296
100809 11AUG05 17AUG05 Obtain All-Clear Cert @ Bldg 296
100759 26OCT05 15NOV05 Perform Mechanical Disconnects @ Blg 296
Start Date 16JUN04
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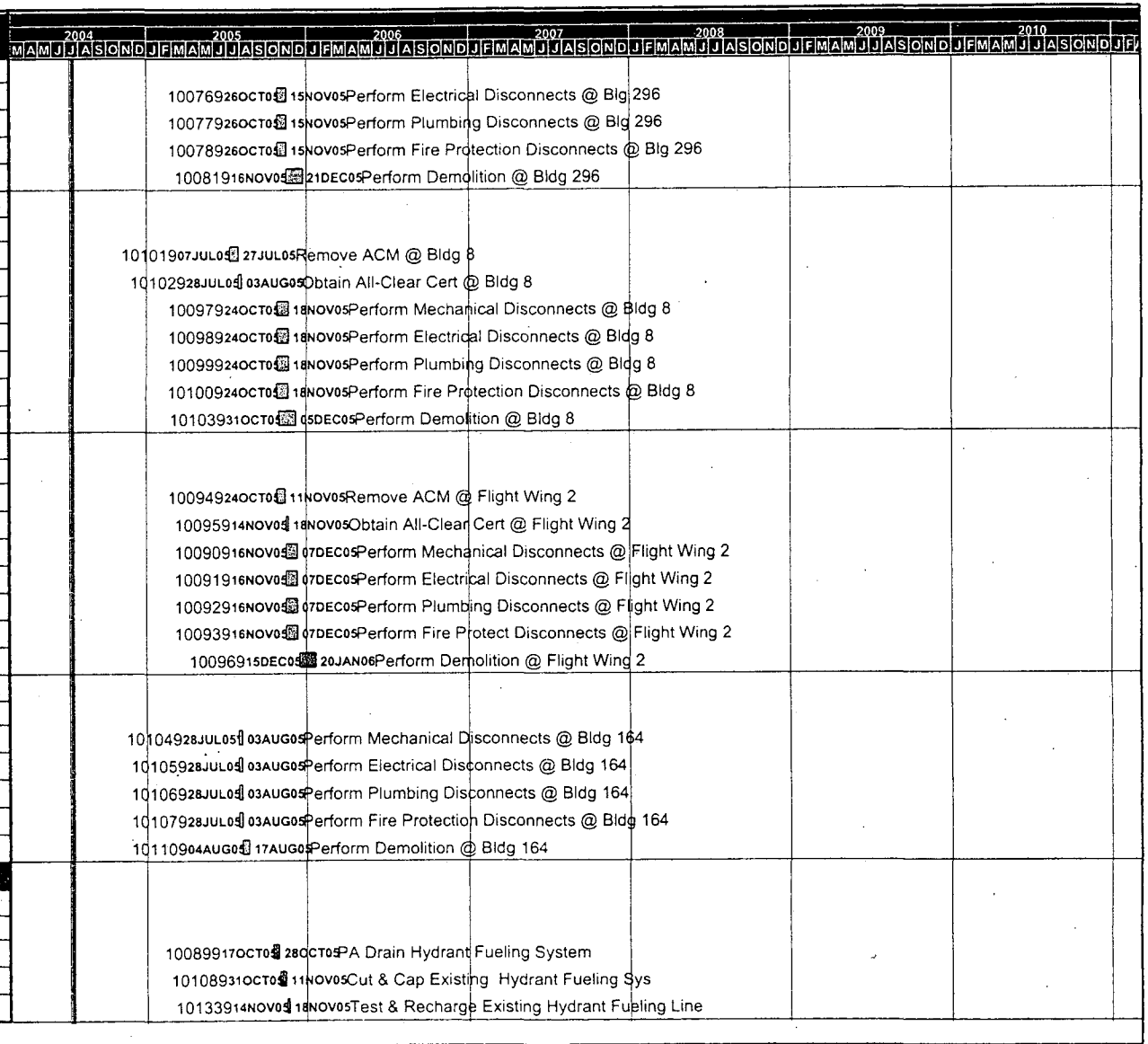
Activity ID	Dur	%	Total Float	Early Start	Early Finish
100769	15	0	26	26OCT05	15NOV05
100779	15	0	26	26OCT05	15NOV05
100789	15	0	26	26OCT05	15NOV05
100819	25	0	26	16NOV05	21DEC05
Building 8 OB Baggage					
101019	15	0	130	07JUL05	27JUL05
101029	5	0	130	28JUL05	03AUG05
100979	20	0	79	24OCT05	18NOV05
100989	20	0	79	24OCT05	18NOV05
100999	20	0	79	24OCT05	18NOV05
101009	20	0	79	24OCT05	18NOV05
101039	25	0	69	31OCT05	05DEC05
Flight Wing 2					
100949	15	0	17	24OCT05	11NOV05
100959	5	0	17	14NOV05	18NOV05
100909	15	0	30	16NOV05	07DEC05
100919	15	0	30	16NOV05	07DEC05
100929	15	0	30	16NOV05	07DEC05
100939	15	0	30	16NOV05	07DEC05
100969	25	0	0	15DEC05	20JAN06
Building 164					
101049	5	0	387	28JUL05*	03AUG05
101059	5	0	387	28JUL05	03AUG05
101069	5	0	387	28JUL05	03AUG05
101079	5	0	387	28JUL05	03AUG05
101109	10	0	387	04AUG05	17AUG05
Hydrant Fueling System					
Removal of Existing Hydrant Fueling Sys					
100899	10	0	0	17OCT05	28OCT05
101089	10	0	0	31OCT05	11NOV05
101339	5	0	0	14NOV05	18NOV05



Start Date	16JUN04
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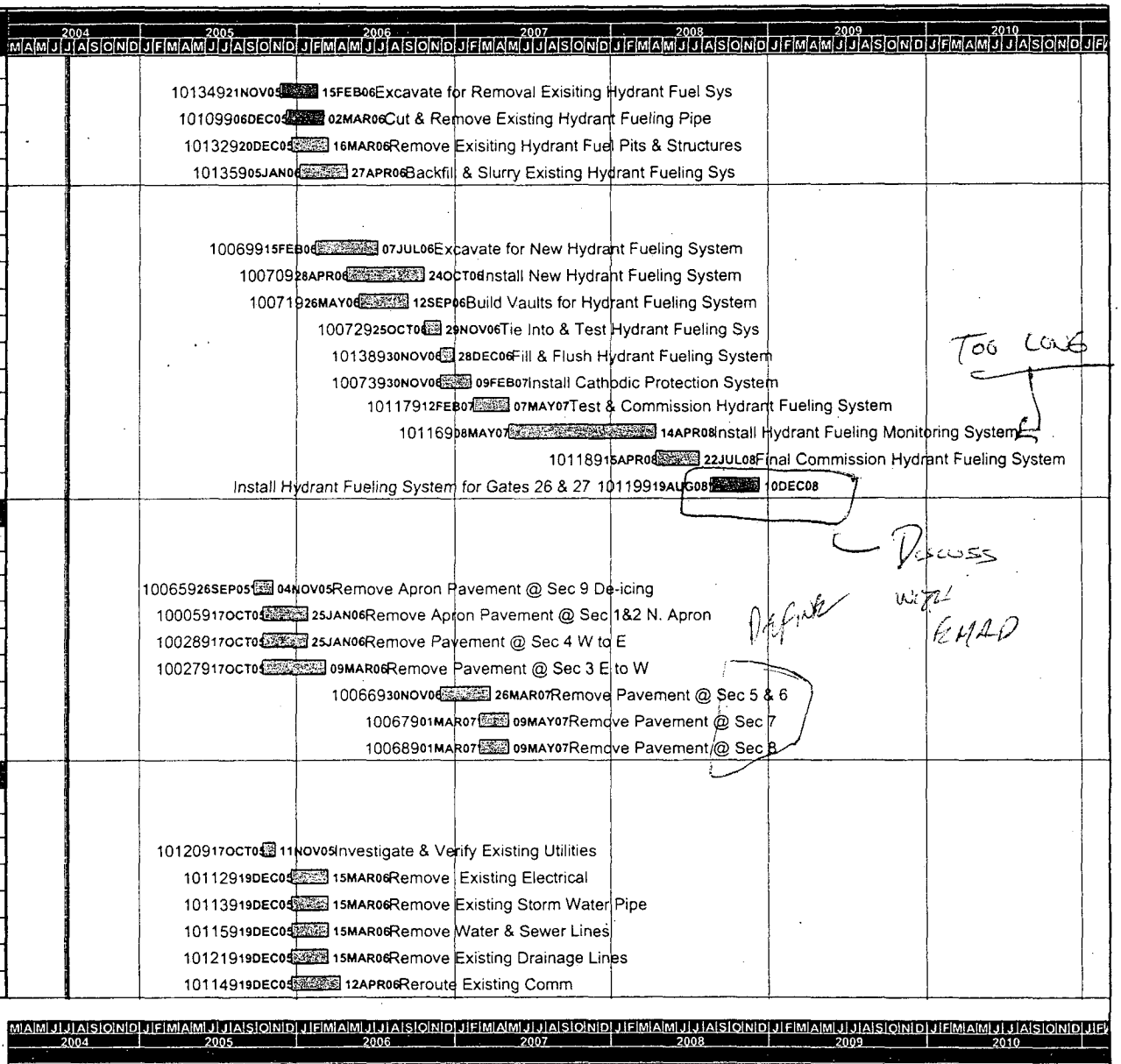
Activity ID	Dur	%	Total Float	Early Start	Early Finish
101349	60	0	0	21NOV05	15FEB06
101099	60	0	0	06DEC05	02MAR06
101329	60	0	26	20DEC05	16MAR06
101359	80	0	16	05JAN06	27APR06
New Hydrant Fueling Sys					
100699	100	0	52	15FEB06	07JUL06
100709	125	0	16	28APR06	24OCT06
100719	75	0	46	26MAY06	12SEP06
100729	25	0	16	25OCT06	29NOV06
101389	20	0	49	30NOV06	28DEC06
100739	50	0	19	30NOV06	09FEB07
101179	60	0	19	12FEB07	07MAY07
101169	238	0	19	08MAY07	14APR08
101189	69	0	19	15APR08	22JUL08
101199	80	0	0	19AUG08*	10DEC08
Pavement Removal					
100659	30	0	341	26SEP05*	04NOV05
100059	70	0	25	17OCT05	25JAN06
100289	70	0	13	17OCT05	25JAN06
100279	100	0	13	17OCT05	09MAR06
100669	80	0	16	30NOV06	26MAR07
100679	50	0	49	01MAR07*	09MAY07
100689	50	0	49	01MAR07*	09MAY07
Exisiting Utility Removal & Relocation					
101209	20	0	32	17OCT05	11NOV05
101129	60	0	8	19DEC05	15MAR06
101139	60	0	8	19DEC05	15MAR06
101159	60	0	8	19DEC05	15MAR06
101219	60	0	707	19DEC05	15MAR06
101149	80	0	8	19DEC05	12APR06



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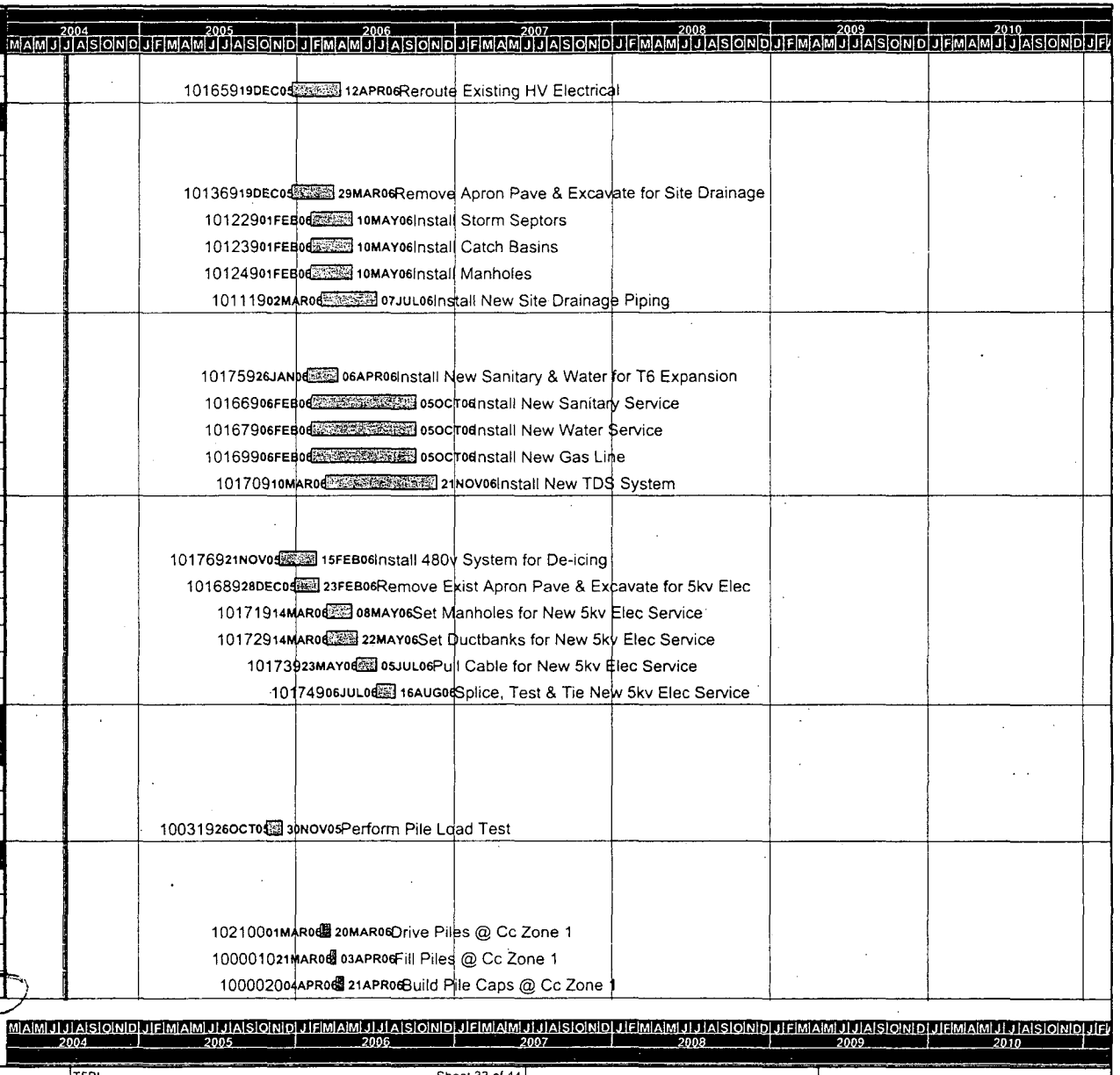
Activity ID	Dur	%	Total Float	Early Start	Early Finish
101659	80	0	8	19DEC05	12APR06
New Utilities					
Site Drainage					
101369	70	0	207	19DEC05	29MAR06
101229	70	0	197	01FEB06	10MAY06
101239	70	0	197	01FEB06	10MAY06
101249	70	0	197	01FEB06	10MAY06
101119	90	0	197	02MAR06	07JUL06
Balance of Utilities					
101759	50	0	261	26JAN06	06APR06
101669	170	0	149	06FEB06	05OCT06
101679	170	0	149	06FEB06	05OCT06
101699	170	0	149	06FEB06	05OCT06
101709	180	0	116	10MAR06	21NOV06
Electrical					
101769	60	0	341	21NOV05	15FEB06
101689	40	0	50	28DEC05	23FEB06
101719	40	0	48	14MAR06	08MAY06
101729	50	0	38	14MAR06	22MAY06
101739	30	0	38	23MAY06	05JUL06
101749	30	0	38	06JUL06	16AUG06
Terminal Construction					
Pile Test Program					
Piles & Foundations					
100319	25	0	13	26OCT05	30NOV05
Concourse					
Piles & Foundations					
Concourse Zone 1					
102100	14	0	0	01MAR06	20MAR06
1000010	10	0	0	21MAR06	03APR06
1000020	14	0	0	04APR06	21APR06



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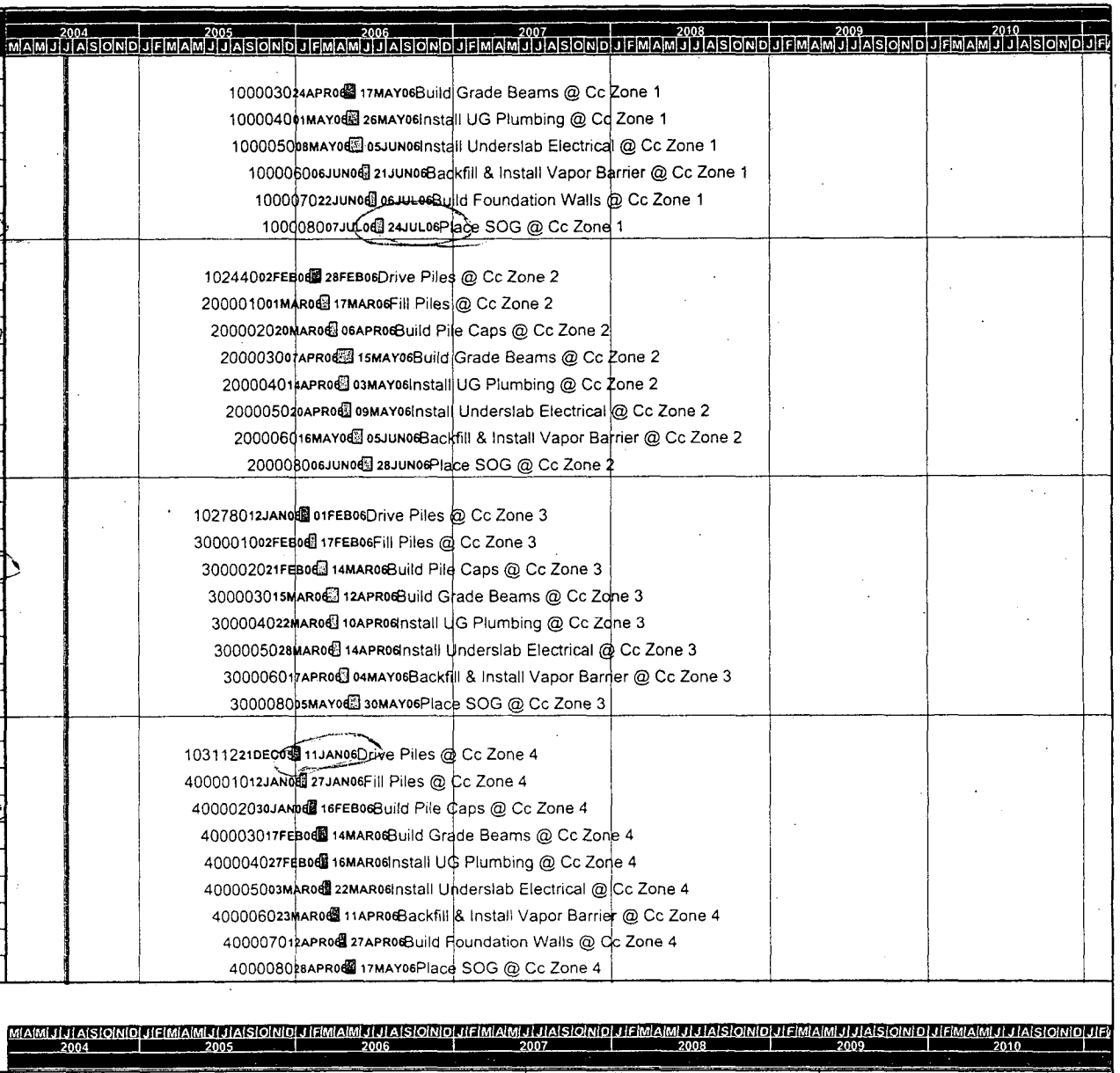
Activity ID	Dur	%	Total Float	Early Start	Early Finish
Concourse Zone 1					
1000030	18	0	0	24APR06	17MAY06
1000040	20	0	105	01MAY06	26MAY06
1000050	20	0	105	08MAY06	05JUN06
1000060	12	0	105	06JUN06	21JUN06
1000070	10	0	105	22JUN06	06JUL06
1000080	12	0	105	07JUL06	24JUL06
Concourse Zone 2					
102440	18	0	0	02FEB06	28FEB06
2000010	13	0	104	01MAR06	17MAR06
2000020	14	0	104	20MAR06	06APR06
2000030	27	0	104	07APR06	15MAY06
2000040	14	0	108	14APR06	03MAY06
2000050	14	0	108	20APR06	09MAY06
2000060	14	0	104	16MAY06	05JUN06
2000080	17	0	104	06JUN06	28JUN06
Concourse Zone 3					
102780	15	0	0	12JAN06	01FEB06
3000010	12	0	12	02FEB06	17FEB06
3000020	16	0	12	21FEB06	14MAR06
3000030	21	0	12	15MAR06	12APR06
3000040	14	0	12	22MAR06	10APR06
3000050	14	0	12	28MAR06	14APR06
3000060	14	0	12	17APR06	04MAY06
3000080	17	0	12	05MAY06	30MAY06
Concourse Zone 4					
103112	14	0	0	21DEC05	11JAN06
4000010	12	0	0	12JAN06	27JAN06
4000020	14	0	0	30JAN06	16FEB06
4000030	17	0	0	17FEB06	14MAR06
4000040	14	0	0	27FEB06	16MAR06
4000050	14	0	0	03MAR06	22MAR06
4000060	14	0	0	23MAR06	11APR06
4000070	12	0	0	12APR06	27APR06
4000080	14	0	0	28APR06	17MAY06



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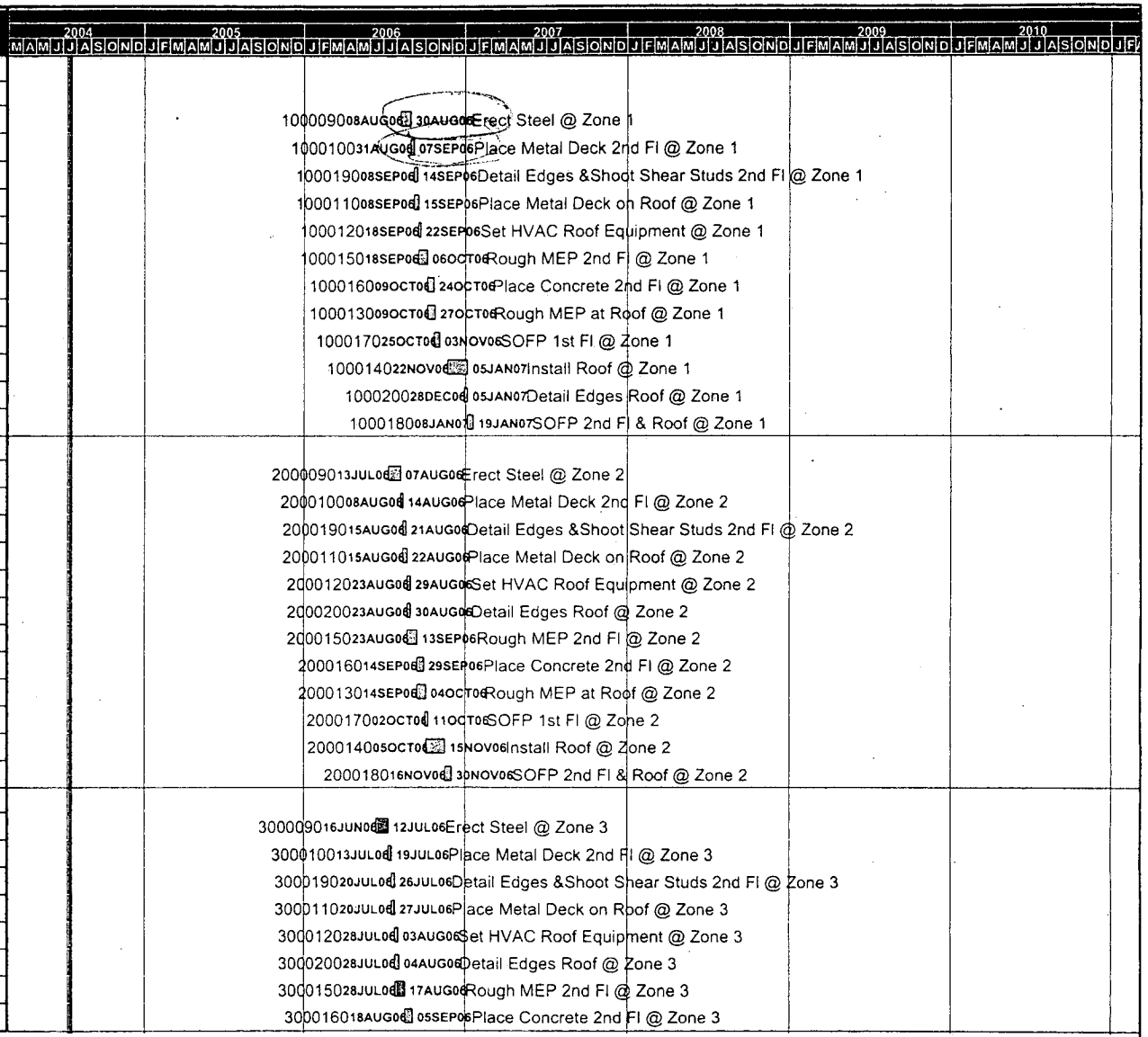
Activity ID	Dur	%	Total Float	Early Start	Early Finish
Superstructure					
Concourse Zone 1					
1000090	17	0	95	08AUG06	30AUG06
1000100	5	0	95	31AUG06	07SEP06
1000190	5	0	136	08SEP06	14SEP06
1000110	6	0	95	08SEP06	15SEP06
1000120	5	0	120	18SEP06	22SEP06
1000150	15	0	95	18SEP06	06OCT06
1000160	12	0	120	09OCT06	24OCT06
1000130	15	0	95	09OCT06	27OCT06
1000170	8	0	120	25OCT06	03NOV06
1000140	30	0	78	22NOV06	05JAN07
1000200	6	0	78	28DEC06	05JAN07
1000180	10	0	78	08JAN07	19JAN07
Concourse Zone 2					
2000090	18	0	95	13JUL06	07AUG06
2000100	5	0	215	08AUG06	14AUG06
2000190	5	0	256	15AUG06	21AUG06
2000110	6	0	215	15AUG06	22AUG06
2000120	5	0	240	23AUG06	29AUG06
2000200	6	0	269	23AUG06	30AUG06
2000150	15	0	215	23AUG06	13SEP06
2000160	12	0	240	14SEP06	29SEP06
2000130	15	0	215	14SEP06	04OCT06
2000170	8	0	240	02OCT06	11OCT06
2000140	30	0	215	05OCT06	15NOV06
2000180	10	0	215	16NOV06	30NOV06
Concourse Zone 3					
3000090	18	0	0	16JUN06	12JUL06
3000100	5	0	0	13JUL06	19JUL06
3000190	5	0	25	20JUL06	26JUL06
3000110	6	0	0	20JUL06	27JUL06
3000120	5	0	25	28JUL06	03AUG06
3000200	6	0	24	28JUL06	04AUG06
3000150	15	0	0	28JUL06	17AUG06
3000160	12	0	25	18AUG06	05SEP06



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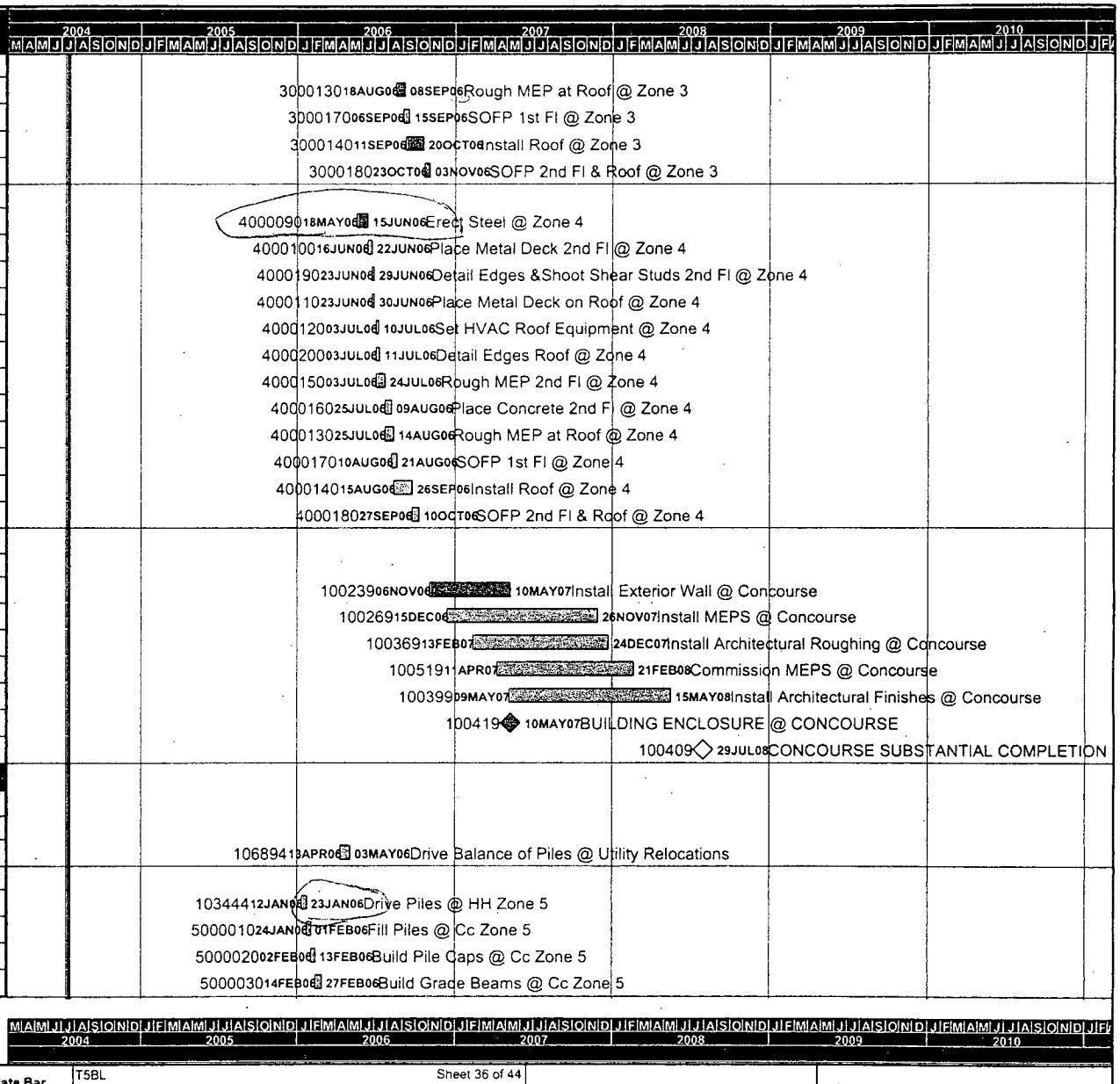
Activity ID	Dur	%	Total Float	Early Start	Early Finish
Concourse Zone 3					
3000130	15	0	0	18AUG06	08SEP06
3000170	8	0	25	06SEP06	15SEP06
3000140	30	0	0	11SEP06	20OCT06
3000180	10	0	0	23OCT06	03NOV06
Concourse Zone 4					
4000090	20	0	0	18MAY06	15JUN06
4000100	5	0	3	16JUN06	22JUN06
4000190	5	0	28	23JUN06	29JUN06
4000110	6	0	3	23JUN06	30JUN06
4000120	5	0	28	03JUL06	10JUL06
4000200	6	0	27	03JUL06	11JUL06
4000150	15	0	3	03JUL06	24JUL06
4000160	12	0	96	25JUL06	09AUG06
4000130	15	0	3	25JUL06	14AUG06
4000170	8	0	96	10AUG06	21AUG06
4000140	30	0	3	15AUG06	26SEP06
4000180	10	0	71	27SEP06	10OCT06
Summary Schedule Activities					
100239	130	0	0	06NOV06	10MAY07
100269	240	0	25	15DEC06	26NOV07
100369	220	0	25	13FEB07	24DEC07
100519	220	0	125	11APR07	21FEB08
100399	260	0	25	09MAY07	15MAY08
100419	0	0	0		10MAY07
100409	0	0	14		29JUL08
Head House					
Piles & Foundations					
Utility Relocation					
106894	15	0	687	13APR06	03MAY06
Head House Zone 5					
103444	8	0	2	12JAN06	23JAN06
5000010	7	0	83	24JAN06	01FEB06
5000020	8	0	83	02FEB06	13FEB06
5000030	9	0	83	14FEB06	27FEB06



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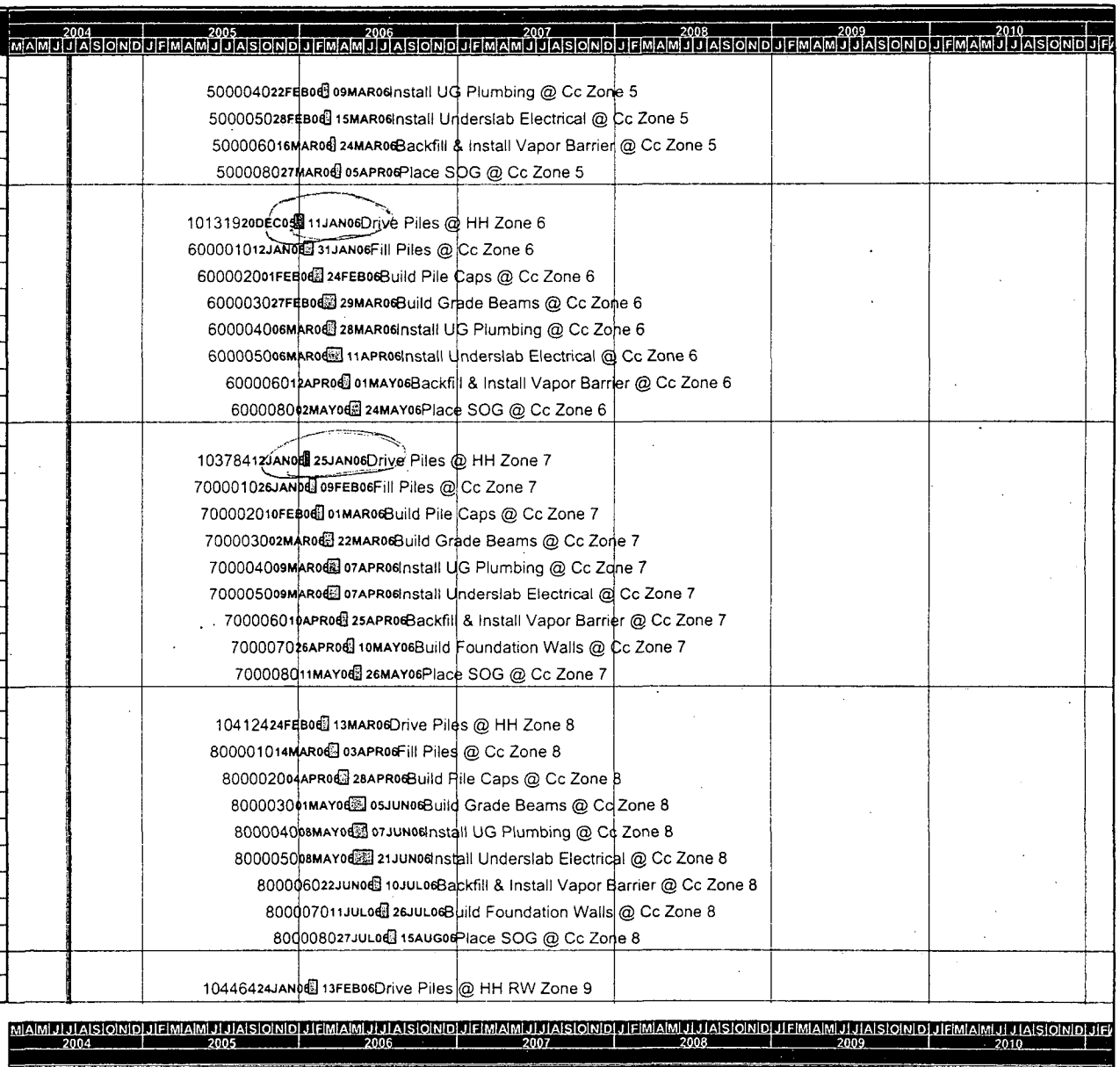
Activity ID	Dur	%	Total Float	Early Start	Early Finish
Head House Zone 5					
5000040	12	0	83	22FEB06	09MAR06
5000050	12	0	83	28FEB06	15MAR06
5000060	7	0	83	16MAR06	24MAR06
5000080	8	0	83	27MAR06	05APR06
Head House Zone 6					
101319	15	0	0	20DEC05	11JAN06
6000010	14	0	63	12JAN06	31JAN06
6000020	17	0	63	01FEB06	24FEB06
6000030	23	0	63	27FEB06	29MAR06
6000040	17	0	672	06MAR06	28MAR06
6000050	27	0	672	06MAR06	11APR06
6000060	14	0	672	12APR06	01MAY06
6000080	17	0	672	02MAY06	24MAY06
Head House Zone 7					
103784	10	0	0	12JAN06	25JAN06
7000010	11	0	41	26JAN06	09FEB06
7000020	13	0	41	10FEB06	01MAR06
7000030	15	0	41	02MAR06	22MAR06
7000040	22	0	41	09MAR06	07APR06
7000050	22	0	41	09MAR06	07APR06
7000060	12	0	41	10APR06	25APR06
7000070	11	0	41	26APR06	10MAY06
7000080	12	0	41	11MAY06	26MAY06
Head House Zone 8					
104124	12	0	10	24FEB06	13MAR06
8000010	15	0	10	14MAR06	03APR06
8000020	19	0	10	04APR06	28APR06
8000030	25	0	10	01MAY06	05JUN06
8000040	22	0	10	08MAY06	07JUN06
8000050	32	0	10	08MAY06	21JUN06
8000060	12	0	10	22JUN06	10JUL06
8000070	12	0	10	11JUL06	26JUL06
8000080	14	0	10	27JUL06	15AUG06
Head House Zone 9					
104464	15	0	2	24JAN06	13FEB06



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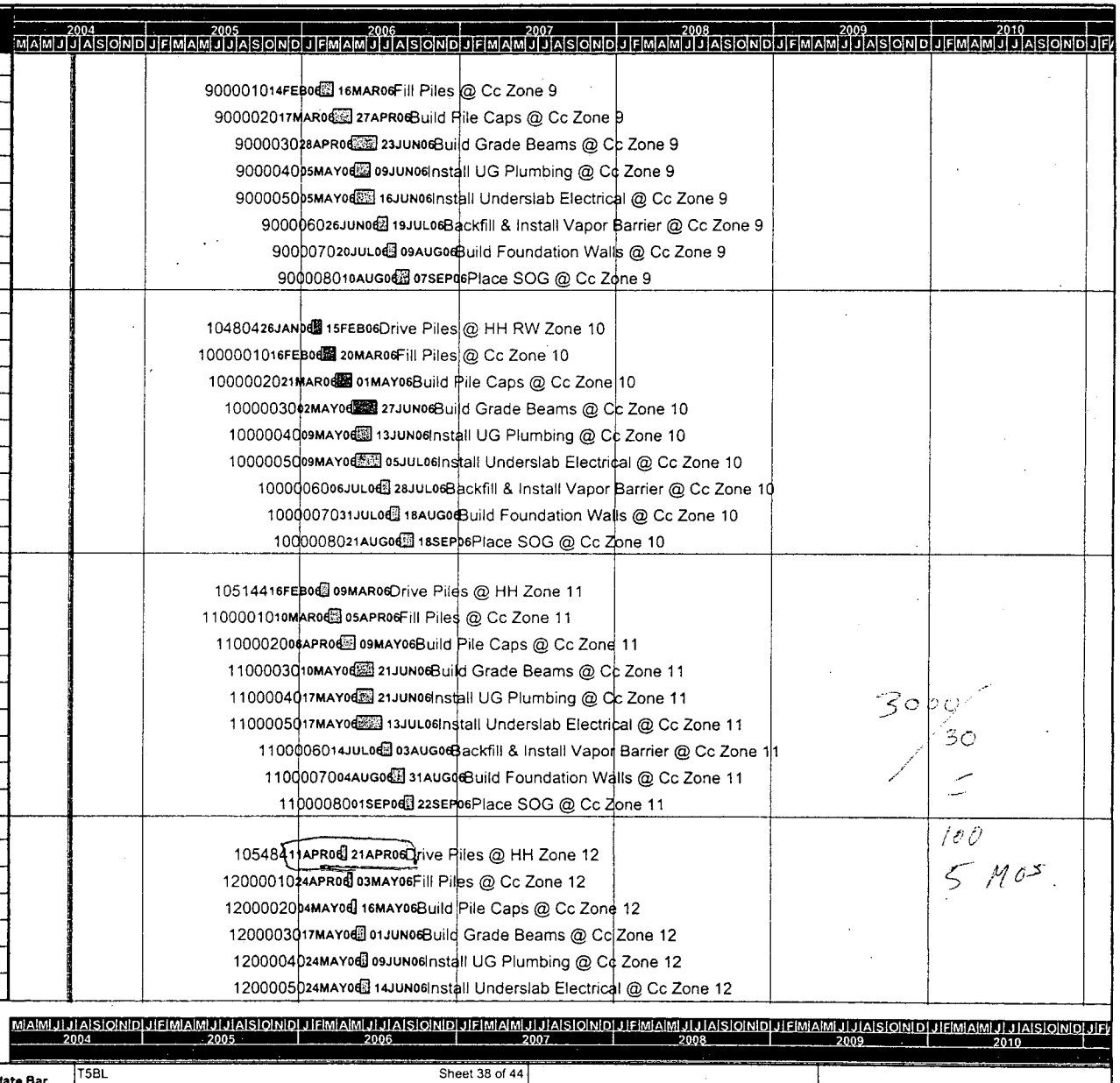
Head House Zone 9					
9000010	22	0	2	14FEB06	16MAR06
9000020	30	0	2	17MAR06	27APR06
9000030	40	0	2	28APR06	23JUN06
9000040	25	0	20	05MAY06	09JUN06
9000050	30	0	20	05MAY06	16JUN06
9000060	17	0	15	26JUN06	19JUL06
9000070	15	0	15	20JUL06	09AUG06
9000080	20	0	15	10AUG06	07SEP06
Head House Zone 10					
104804	15	0	0	26JAN06	15FEB06
10000010	22	0	0	16FEB06	20MAR06
10000020	30	0	0	21MAR06	01MAY06
10000030	40	0	0	02MAY06	27JUN06
10000040	25	0	23	09MAY06	13JUN06
10000050	40	0	23	09MAY06	05JUL06
10000060	17	0	23	06JUL06	28JUL06
10000070	15	0	23	31JUL06	18AUG06
10000080	20	0	23	21AUG06	18SEP06
Head House Zone 11					
105144	15	0	96	16FEB06	09MAR06
11000010	19	0	114	10MAR06	05APR06
11000020	24	0	114	06APR06	09MAY06
11000030	30	0	114	10MAY06	21JUN06
11000040	25	0	588	17MAY06	21JUN06
11000050	40	0	588	17MAY06	13JUL06
11000060	15	0	588	14JUL06	03AUG06
11000070	20	0	588	04AUG06	31AUG06
11000080	15	0	588	01SEP06	22SEP06
Head House Zone 12					
105484	9	0	100	11APR06	21APR06
12000010	8	0	100	24APR06	03MAY06
12000020	9	0	100	04MAY06	16MAY06
12000030	11	0	100	17MAY06	01JUN06
12000040	12	0	100	24MAY06	09JUN06
12000050	15	0	100	24MAY06	14JUN06



Start Date	16JUN04
Finish Date	16JAN09
Data Date	16JUL04
Run Date	18OCT05 13:46

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Terminal 5 Redevelopment
Construction 1-yr Baseline Schedule
All Activities Bar Chart

Turner
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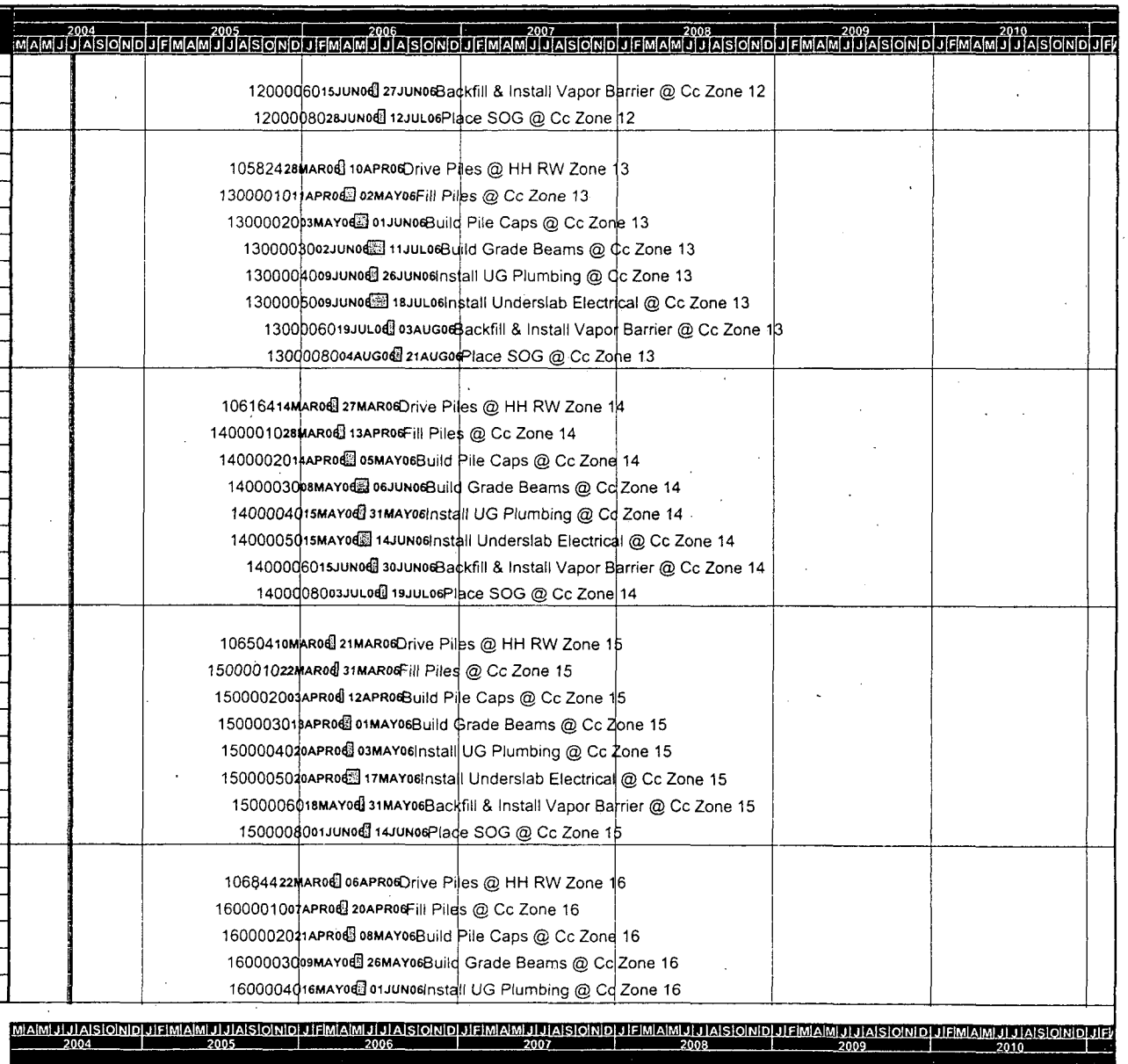
Construction Project Planners

Activity ID	Dur	%	Total Float	Early Start	Early Finish
Head House Zone 12					
12000060	9	0	100	15JUN06	27JUN06
12000080	10	0	100	28JUN06	12JUL06
Head House Zone 13					
105824	10	0	100	28MAR06	10APR06
13000010	16	0	196	11APR06	02MAY06
13000020	21	0	196	03MAY06	01JUN06
13000030	27	0	196	02JUN06	11JUL06
13000040	12	0	196	09JUN06	26JUN06
13000050	27	0	196	09JUN06	18JUL06
13000060	12	0	196	19JUL06	03AUG06
13000080	12	0	196	04AUG06	21AUG06
Head House Zone 14					
106164	10	0	100	14MAR06	27MAR06
14000010	13	0	349	28MAR06	13APR06
14000020	16	0	349	14APR06	05MAY06
14000030	21	0	349	08MAY06	06JUN06
14000040	12	0	612	15MAY06	31MAY06
14000050	22	0	612	15MAY06	14JUN06
14000060	12	0	612	15JUN06	30JUN06
14000080	12	0	612	03JUL06	19JUL06
Head House Zone 15					
106504	8	0	96	10MAR06	21MAR06
15000010	8	0	374	22MAR06	31MAR06
15000020	8	0	374	03APR06	12APR06
15000030	13	0	374	13APR06	01MAY06
15000040	10	0	643	20APR06	03MAY06
15000050	20	0	643	20APR06	17MAY06
15000060	9	0	643	18MAY06	31MAY06
15000080	10	0	643	01JUN06	14JUN06
Head House Zone 16					
106844	12	0	96	22MAR06	06APR06
16000010	10	0	96	07APR06	20APR06
16000020	12	0	96	21APR06	08MAY06
16000030	14	0	96	09MAY06	26MAY06
16000040	12	0	96	16MAY06	01JUN06



Start Date	16JUN04
Finish Date	16JAN09
Data Date	16JUL04
Run Date	18OCT05 13:46

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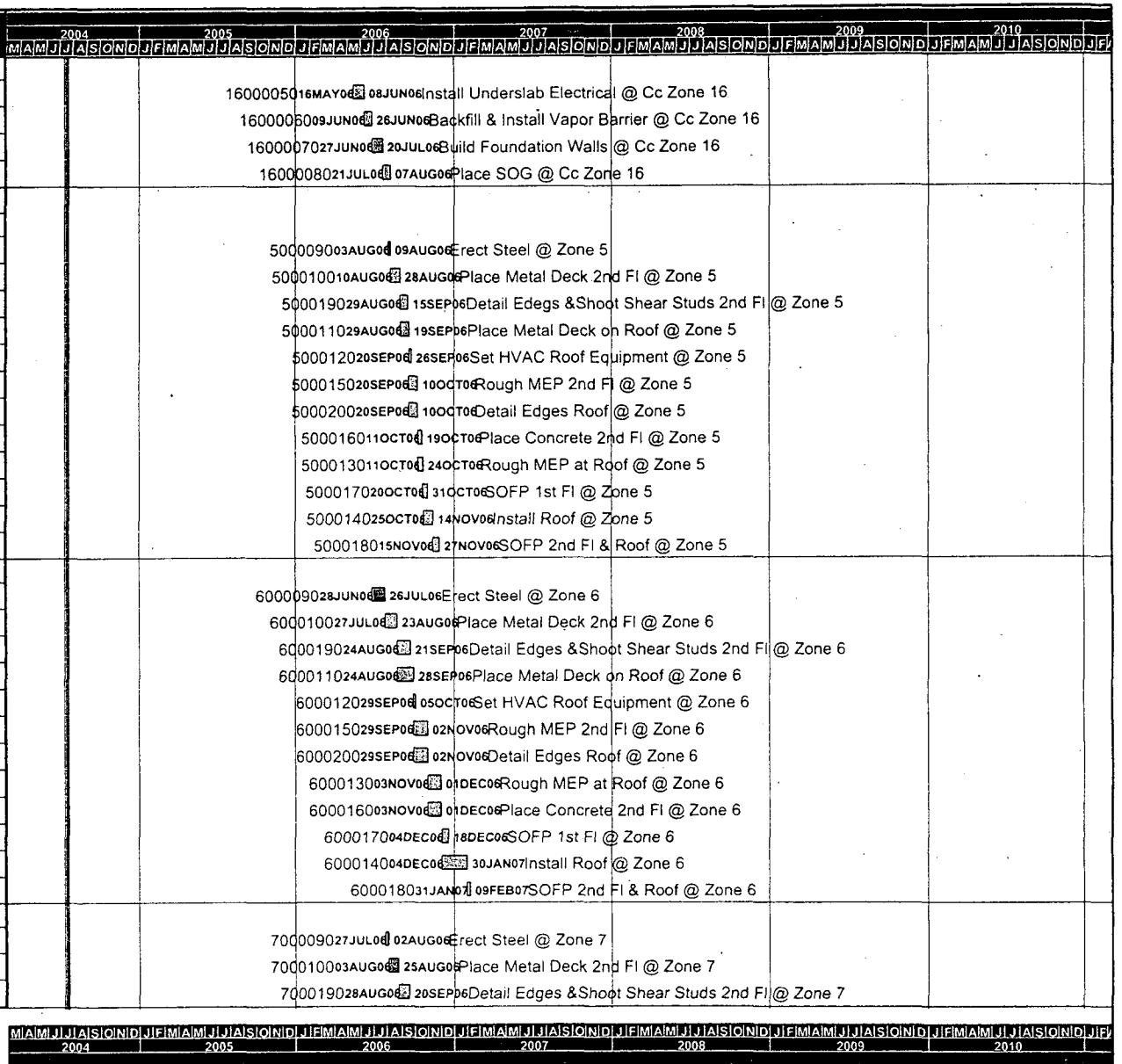
Activity ID	Dur	%	Total Float	Early Start	Early Finish
Head House Zone 16					
16000050	17	0	96	16MAY06	08JUN06
16000060	12	0	96	09JUN06	26JUN06
16000070	17	0	96	27JUN06	20JUL06
16000080	12	0	96	21JUL06	07AUG06
Superstructure					
Head House Zone 5					
5000090	5	0	0	03AUG06	09AUG06
5000100	13	0	12	10AUG06	28AUG06
5000190	13	0	39	29AUG06	15SEP06
5000110	15	0	12	29AUG06	19SEP06
5000120	5	0	32	20SEP06	26SEP06
5000150	15	0	12	20SEP06	10OCT06
5000200	15	0	37	20SEP06	10OCT06
5000160	7	0	22	11OCT06	19OCT06
5000130	10	0	12	11OCT06	24OCT06
5000170	8	0	22	20OCT06	31OCT06
5000140	15	0	12	25OCT06	14NOV06
5000180	8	0	12	15NOV06	27NOV06
Head House Zone 6					
6000090	20	0	0	28JUN06	26JUL06
6000100	20	0	4	27JUL06	23AUG06
6000190	20	0	69	24AUG06	21SEP06
6000110	25	0	4	24AUG06	28SEP06
6000120	5	0	44	29SEP06	05OCT06
6000150	25	0	4	29SEP06	02NOV06
6000200	25	0	64	29SEP06	02NOV06
6000130	20	0	4	03NOV06	01DEC06
6000160	20	0	46	03NOV06	01DEC06
6000170	11	0	46	04DEC06	18DEC06
6000140	40	0	4	04DEC06	30JAN07
6000180	8	0	17	31JAN07	09FEB07
Head House Zone 7					
7000090	5	0	0	27JUL06	02AUG06
7000100	17	0	0	03AUG06	25AUG06
7000190	17	0	50	28AUG06	20SEP06



Start Date	16JUN04
Finish Date	16JAN09
Data Date	16JUL04
Run Date	18OCT05 13:46

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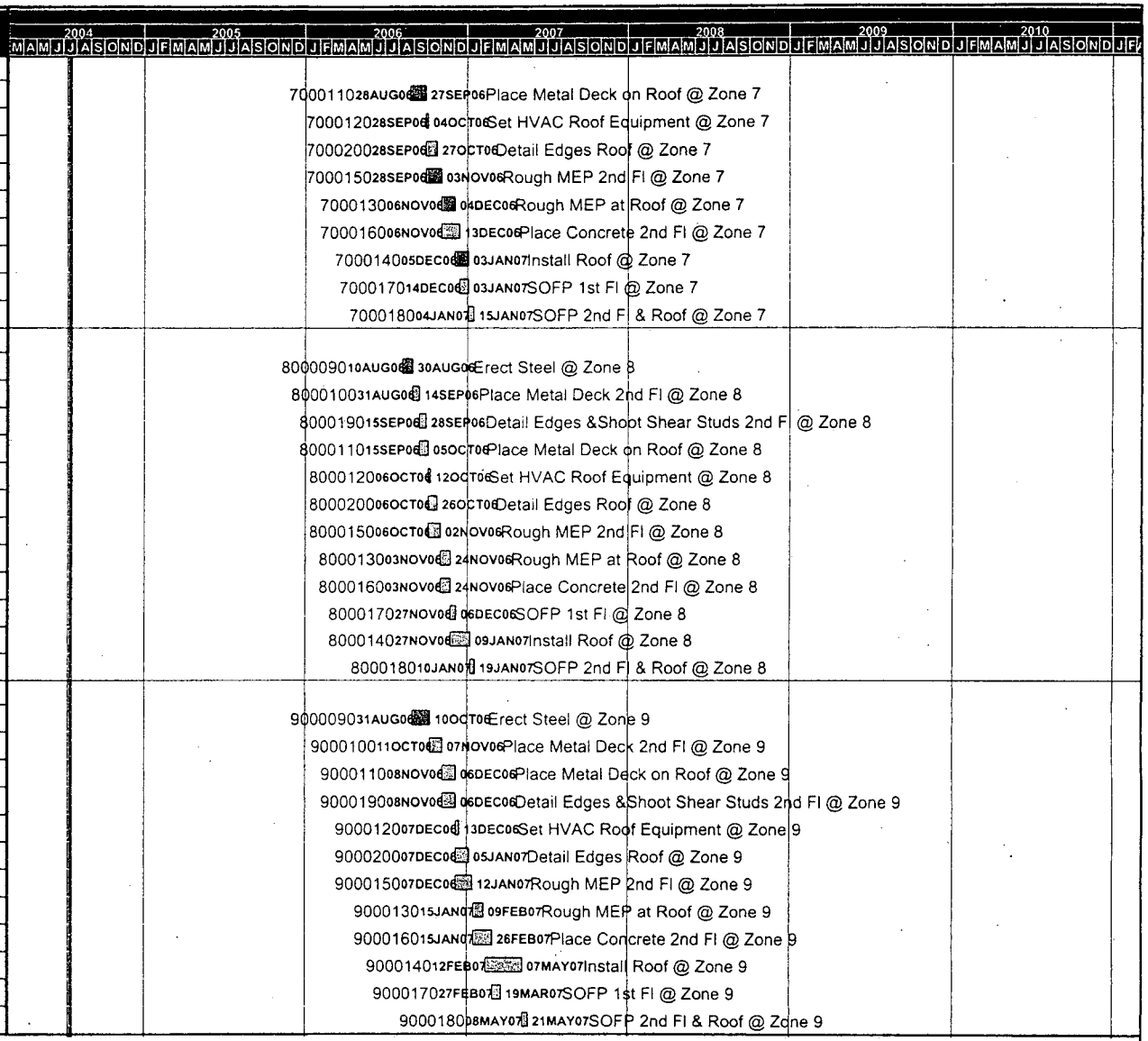
Activity ID	Dur	%	Total Float	Early Start	Early Finish
Head House Zone 7					
7000110	22	0	0	28AUG06	27SEP06
7000120	5	0	42	28SEP06	04OCT06
7000200	22	0	45	28SEP06	27OCT06
7000150	27	0	0	28SEP06	03NOV06
7000130	20	0	0	06NOV06	04DEC06
7000160	27	0	21	06NOV06	13DEC06
7000140	20	0	0	05DEC06	03JAN07
7000170	13	0	21	14DEC06	03JAN07
7000180	8	0	21	04JAN07	15JAN07
Head House Zone 8					
8000090	15	0	0	10AUG06	30AUG06
8000100	10	0	17	31AUG06	14SEP06
8000190	10	0	64	15SEP06	28SEP06
8000110	15	0	17	15SEP06	05OCT06
8000120	5	0	47	06OCT06	12OCT06
8000200	15	0	67	06OCT06	26OCT06
8000150	20	0	17	06OCT06	02NOV06
8000130	15	0	17	03NOV06	24NOV06
8000160	15	0	39	03NOV06	24NOV06
8000170	8	0	39	27NOV06	06DEC06
8000140	30	0	17	27NOV06	09JAN07
8000180	8	0	17	10JAN07	19JAN07
Head House Zone 9					
9000090	28	0	0	31AUG06	10OCT06
9000100	20	0	12	11OCT06	07NOV06
9000110	20	0	12	08NOV06	06DEC06
9000190	20	0	37	08NOV06	06DEC06
9000120	5	0	126	07DEC06	13DEC06
9000200	20	0	171	07DEC06	05JAN07
9000150	25	0	12	07DEC06	12JAN07
9000130	20	0	86	15JAN07	09FEB07
9000160	30	0	12	15JAN07	26FEB07
9000140	60	0	86	12FEB07	07MAY07
9000170	15	0	456	27FEB07	19MAR07
9000180	10	0	421	08MAY07	21MAY07



Start Date	16JUN04
Finish Date	16JAN09
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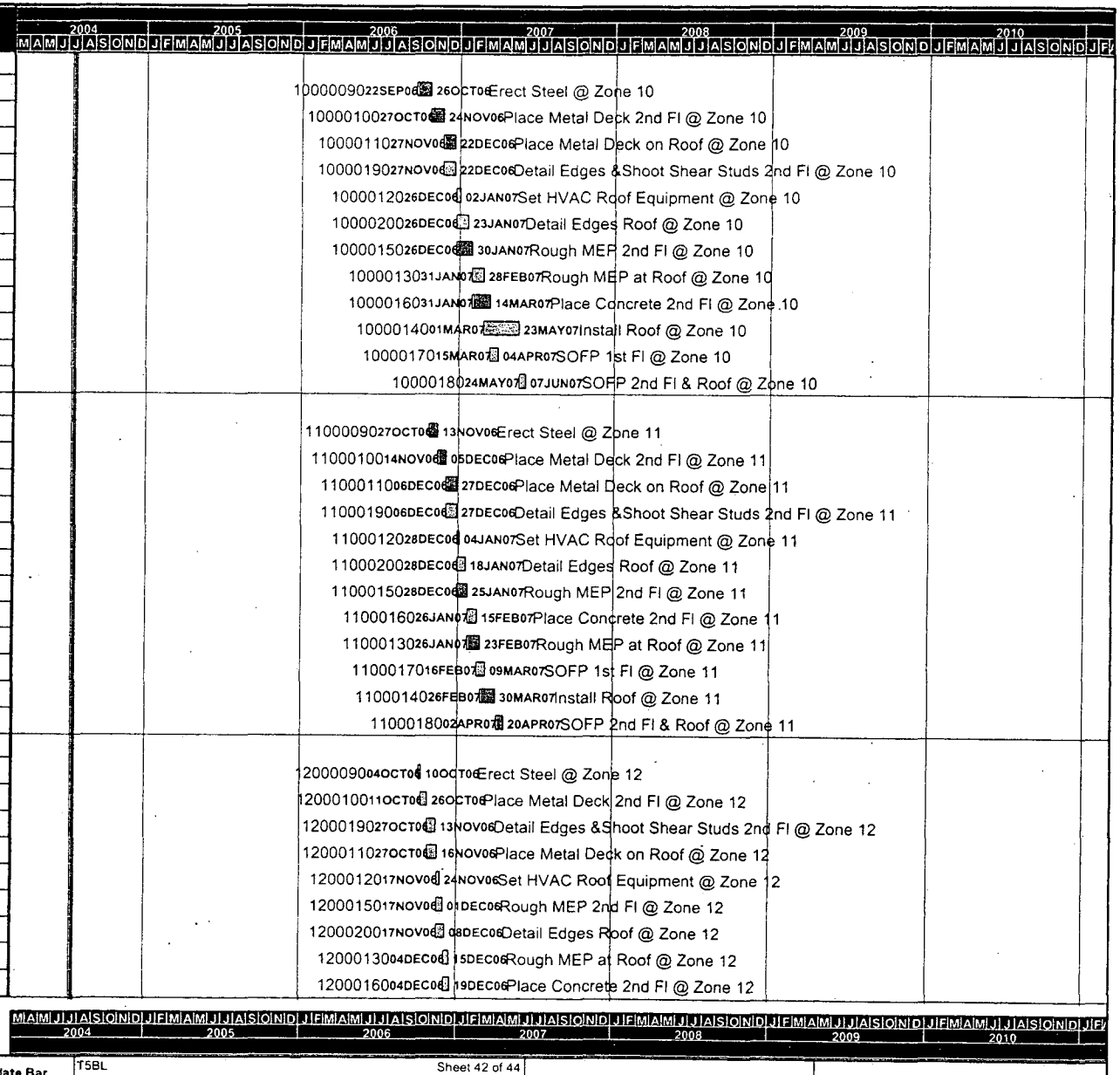
Activity ID	Dur	%	Total Float	Early Start	Early Finish
Head House Zone 10					
10000090	25	0	0	22SEP06	26OCT06
10000100	20	0	0	27OCT06	24NOV06
10000110	20	0	0	27NOV06	22DEC06
10000190	20	0	25	27NOV06	22DEC06
10000120	5	0	114	26DEC06	02JAN07
10000200	20	0	159	26DEC06	23JAN07
10000150	25	0	0	26DEC06	30JAN07
10000130	20	0	74	31JAN07	28FEB07
10000160	30	0	0	31JAN07	14MAR07
10000140	60	0	74	01MAR07	23MAY07
10000170	15	0	444	15MAR07	04APR07
10000180	10	0	409	24MAY07	07JUN07
Head House Zone 11					
11000090	12	0	0	27OCT06	13NOV06
11000100	15	0	0	14NOV06	05DEC06
11000110	15	0	0	06DEC06	27DEC06
11000190	15	0	35	06DEC06	27DEC06
11000120	5	0	35	28DEC06	04JAN07
11000200	15	0	50	28DEC06	18JAN07
11000150	20	0	0	28DEC06	25JAN07
11000160	15	0	15	26JAN07	15FEB07
11000130	20	0	0	26JAN07	23FEB07
11000170	15	0	15	16FEB07	09MAR07
11000140	25	0	0	26FEB07	30MAR07
11000180	15	0	0	02APR07	20APR07
Head House Zone 12					
12000090	5	0	42	04OCT06	10OCT06
12000100	12	0	42	11OCT06	26OCT06
12000190	12	0	65	27OCT06	13NOV06
12000110	15	0	42	27OCT06	16NOV06
12000120	5	0	57	17NOV06	24NOV06
12000150	10	0	42	17NOV06	01DEC06
12000200	15	0	67	17NOV06	08DEC06
12000130	10	0	42	04DEC06	15DEC06
12000160	12	0	52	04DEC06	19DEC06



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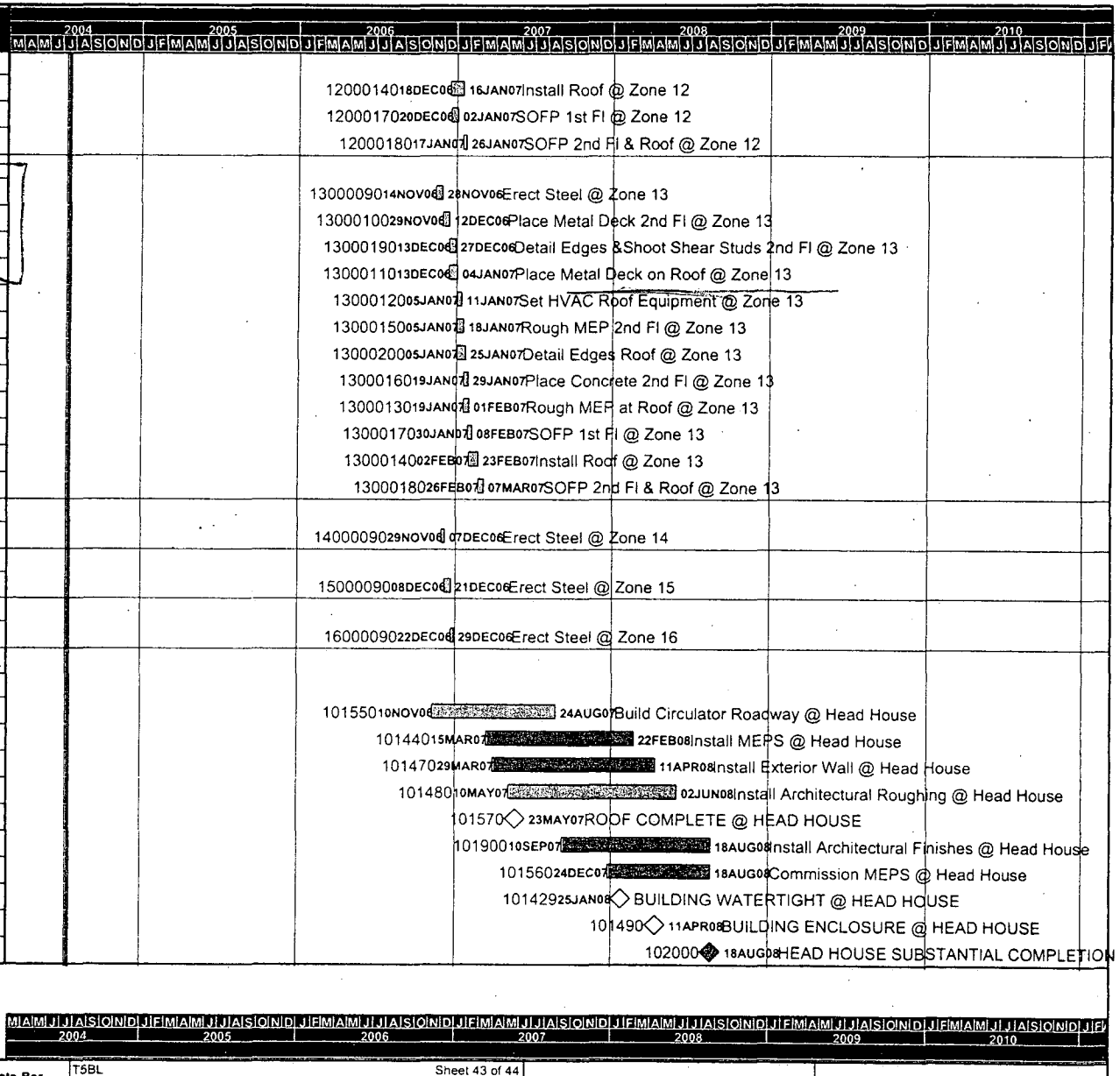
Activity ID	Dur	%	Total Float	Early Start	Early Finish
Head House Zone 12					
12000140	20	0	42	18DEC06	16JAN07
12000170	8	0	52	20DEC06	02JAN07
12000180	8	0	42	17JAN07	26JAN07
Head House Zone 13					
13000090	10	0	137	14NOV06	28NOV06
13000100	10	0	137	29NOV06	12DEC06
13000190	10	0	162	13DEC06	27DEC06
13000110	15	0	137	13DEC06	04JAN07
13000120	5	0	152	05JAN07	11JAN07
13000150	10	0	137	05JAN07	18JAN07
13000200	15	0	157	05JAN07	25JAN07
13000160	7	0	255	19JAN07	29JAN07
13000130	10	0	137	19JAN07	01FEB07
13000170	8	0	255	30JAN07	08FEB07
13000140	15	0	137	02FEB07	23FEB07
13000180	8	0	245	26FEB07	07MAR07
Head House Zone 14					
14000090	7	0	520	29NOV06	07DEC06
Head House Zone 15					
15000090	10	0	520	08DEC06	21DEC06
Head House Zone 16					
16000090	5	0	520	22DEC06	29DEC06
Summary Schedule Activities					
101550	200	0	249	10NOV06	24AUG07
101440	240	0	0	15MAR07	22FEB08
101470	265	0	0	29MAR07	11APR08
101480	270	0	14	10MAY07	02JUN08
101570	0	0	74		23MAY07
101900	240	0	0	10SEP07	18AUG08
101560	166	0	0	24DEC07	18AUG08
101429	0	0	144	25JAN08	
101490	0	0	89		11APR08
102000	0	0	0		18AUG08



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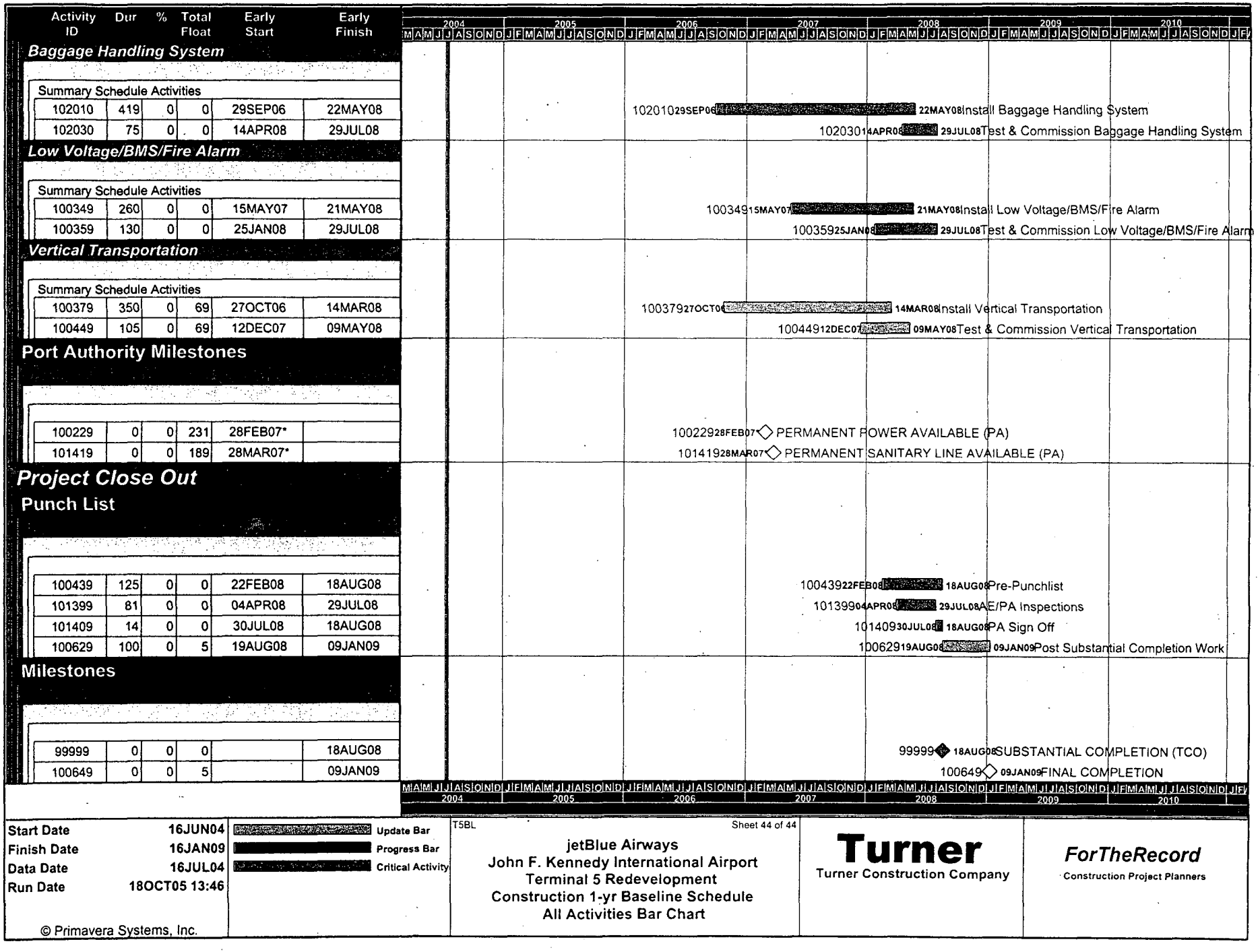

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ACTIVITY ID	ORIG DUR	REM DUR	%	ACTIVITY DESCRIPTION	EARLY START	EARLY FINISH	LATE START	LATE FINISH	TOTAL FLOAT
10000	0	0	0	Start Construction	17OCT05*		17OCT05		0
99999	0	0	0	SUBSTANTIAL COMPLETION (TCO)		18AUG08		18AUG08*	0
100059	70	70	0	Remove Apron Pavement @ Sec 1&2 N. Apron	17OCT05	25JAN06	21NOV05	2MAR06	25
100079	15	15	0	Install Site Fence	1JUN05*	21JUN05	26AUG05	16SEP05	61
100119	61*	61*	0	Drive Piles @ Concourse	21DEC05	20MAR06	21DEC05	20MAR06	0
100129	104*	104*	0	Underslab Utilities/SOG @ Concourse	27FEB06	24JUL06	27FEB06	20DEC06	105
100139	73*	73*	0	Erect Steel @ Concourse 1st Floor	18MAY06	30AUG06	18MAY06	16JAN07	95
100149	1144*	1144*	0	Bid & Award Arch/Fit Out (HA)	16JUL04	16JAN09	16JUL04	16JAN09	0
100159	73*	73*	0	Erect Steel @ Concourse 2nd Floor & Roof	18MAY06	30AUG06	18MAY06	16JAN07	95
100169	58*	58*	0	Place Metal Deck @ Concourse 2nd Floor	16JUN06	7SEP06	21JUN06	19JUN07	198
100179	68*	68*	0	Rough Deck @ Concourse 2nd Floor	3JUL06	6OCT06	7JUL06	19JUL07	198
100189	65*	65*	0	Place Concrete @ Concourse 2nd Floor	25JUL06	24OCT06	25SEP06	11SEP07	223
100199	61*	61*	0	SOFP @ Concourse 1st Floor	10AUG06	3NOV06	11OCT06	21SEP07	223
100209	80*	80*	0	SOFP @ Concourse 2nd Floor	27SEP06	19JAN07	23OCT06	5OCT07	181
100219	80*	80*	0	SOFP @ Concourse Roof	27SEP06	19JAN07	23OCT06	5OCT07	181
100220	59*	59*	0	Place Metal Deck @ Concourse Roof	23JUN06	15SEP06	28JUN06	27JUN07	198
100229	0	0	0	PERMANENT POWER AVAILABLE (PA)	28FEB07*		25JAN08		231
100230	68*	68*	0	Rough Deck @ Concourse Roof	25JUL06	27OCT06	28JUL06	9AUG07	198
100239	130	130	0	Install Exterior Wall @ Concourse	6NOV06	10MAY07	6NOV06	10MAY07	0
100249	100*	100*	0	Install Roof @ Concourse	15AUG06	5JAN07	18AUG06	21SEP07	181
100269	240	240	0	Install MEPS @ Concourse	15DEC06	26NOV07	23JAN07	2JAN08	25
100279	100	100	0	Remove Pavement @ Sec 3 E to W	17OCT05	9MAR06	3NOV05	29MAR06	13
100289	70	70	0	Remove Pavement @ Sec 4 W to E	17OCT05	25JAN06	3NOV05	13FEB06	13
100299	280*	280*	0	Relocate and Install Site Utilities	17OCT05	21NOV06	1DEC05	8MAY07	116
100309	15	15	0	Install Fence Lighting	15JUN05	6JUL05	12SEP05	30SEP05	61
100319	25	25	0	Perform Pile Load Test	26OCT05	30NOV05	14NOV05	19DEC05	13
100329	35*	35*	0	Perform Demolition & Asbestos Abatement	17OCT05	5DEC05	17OCT05	15MAR06	69
100339	89*	89*	0	Build Pile Caps & Foundations @ Concourse	12JAN06	17MAY06	12JAN06	11OCT06	102
100349	260	260	0	Install Low Voltage/BMS/Fire Alarm	15MAY07	21MAY08	15MAY07	21MAY08	0
100359	130	130	0	Test & Commission Low Voltage/BMS/Fire Alarm	25JAN08	29JUL08	25JAN08	29JUL08	0
100369	220	220	0	Install Architectural Roughing @ Concourse	13FEB07	24DEC07	21MAR07	30JAN08	25
100379	350	350	0	Install Vertical Transportation	27OCT06	14MAR08	6FEB07	20JUN08	69
100389	15	15	0	Setup Trailer Complex	16DEC05	9JAN06	16MAR06	5APR06	61
100399	260	260	0	Install Architectural Finishes @ Concourse	9MAY07	15MAY08	14JUN07	20JUN08	25
100409	0	0	0	CONCOURSE SUBSTANTIAL COMPLETION		29JUL08		18AUG08	14
100419	0	0	0	BUILDING ENCLOSURE @ CONCOURSE		10MAY07		10MAY07	0
100429	58*	58*	0	Set HVAC Equipment @ Concourse Roof	3JUL06	22SEP06	11AUG06	9AUG07	223
100439	125	125	0	Pre-Punchlist	22FEB08	18AUG08	22FEB08	18AUG08	0
100449	105	105	0	Test & Commission Vertical Transportation	12DEC07	9MAY08	21MAR08	18AUG08	69
100459	320	320	0	Pave Roadways Airside	27MAR07*	26JUN08	18APR07	21JUL08	16
100469	275	275	0	Pave Roadways & Sitework Landside	27JUN07	25JUL08	20JUL07	18AUG08	16
100479	251*	251*	0	Install Fuel System	15FEB06	9FEB07	1MAY06	9MAR07	19
100489	367*	367*	0	Test & Commission Fuel System	12FEB07	22JUL08	12MAR07	18AUG08	19
100509	150	150	0	Install Jet Bridges	10DEC07	11JUL08	17JAN08	18AUG08	26
100519	220	220	0	Commission MEPS @ Concourse	11APR07	21FEB08	8OCT07	18AUG08	125
100520	120	120	0	Submit BHS Design/Shop Drawings	31OCT05	20APR06	1DEC05	22MAY06	22
100540	120	120	0	Submit Elevator Shop Drawings	24OCT05	13APR06	22MAY06	8NOV06	146
100560	120	120	0	Approve Elevator Shop Drawings	6DEC05	25MAY06	5JUL06	21DEC06	146
100570	120	120	0	Approve BHS Design/Shop Drawings	13DEC05	2JUN06	16JAN06	5JUL06	22
100580	380	380	0	Coordinate & Fab/Del Elevator Matls	31MAR06	27SEP07	26OCT06	24APR08	146
100590	120	120	0	Submit Jet Bridge Shop Drawings	7NOV05	27APR06	16AUG06	5FEB07	196
100600	120	120	0	Approve Jet Bridge Shop Drawings	20DEC05	9JUN06	28SEP06	20MAR07	196
100610	250	250	0	Coordinate & Fab/Del Jet Bridge Matls	14APR06	9APR07	23JAN07	16JAN08	196
100619	100	100	0	Build Roadways Airside Phase 2	26AUG08	16JAN09	26AUG08	16JAN09	0
100629	100	100	0	Post Substantial Completion Work	19AUG08	9JAN09	26AUG08	16JAN09	5
100639	15	15	0	Run Temp Electrical to Trailers	10JAN06	30JAN06	6APR06	26APR06	61
100649	0	0	0	FINAL COMPLETION		9JAN09		16JAN09	5
100650	355	355	0	Coordinate & Fab/Del BHS Matls	7APR06	29AUG07	9MAY06	1OCT07	22
100659	30	30	0	Remove Apron Pavement @ Sec 9 De-icing	26SEP05*	4NOV05	30JAN07	13MAR07	341
100669	80	80	0	Remove Pavement @ Sec 5 & 6	30NOV06	26MAR07	22DEC06	17APR07	16
100679	50	50	0	Remove Pavement @ Sec 7	1MAR07*	9MAY07	9MAY07	19JUL07	49
100689	50	50	0	Remove Pavement @ Sec 8	1MAR07*	9MAY07	9MAY07	19JUL07	49
100699	100	100	0	Excavate for New Hydrant Fueling System	15FEB06	7JUL06	1MAY06	20SEP06	52
100709	125	125	0	Install New Hydrant Fueling System	28APR06	24OCT06	22MAY06	15NOV06	16
100719	75	75	0	Build Vaults for Hydrant Fueling System	26MAY06	12SEP06	2AUG06	15NOV06	46
100729	25	25	0	Tie Into & Test Hydrant Fueling Sys	25OCT06	29NOV06	16NOV06	21DEC06	16
100739	50	50	0	Install Cathodic Protection System	30NOV06	9FEB07	28DEC06	9MAR07	19

ACTIVITY ID	ORIG DUR	REM DUR	%	ACTIVITY DESCRIPTION	EARLY START	EARLY FINISH	LATE START	LATE FINISH	TOTAL FLOAT
100749	5	5	0	Mobilize Demo/Asbestos Contractor	17OCT05	21OCT05	17OCT05	21OCT05	0
100759	15	15	0	Perform Mechanical Disconnects @ Blg 296	26OCT05	15NOV05	2DEC05	22DEC05	26
100769	15	15	0	Perform Electrical Disconnects @ Blg 296	26OCT05	15NOV05	2DEC05	22DEC05	26
100779	15	15	0	Perform Plumbing Disconnects @ Blg 296	26OCT05	15NOV05	2DEC05	22DEC05	26
100789	15	15	0	Perform Fire Protection Disconnects @ Blg 296	26OCT05	15NOV05	2DEC05	22DEC05	26
100799	25	25	0	Remove ACM @ Blg 296	7JUL05	10AUG05	10NOV05	15DEC05	89
100809	5	5	0	Obtain All-Clear Cert @ Bldg 296	11AUG05	17AUG05	16DEC05	22DEC05	89
100819	25	25	0	Perform Demolition @ Bldg 296	16NOV05	21DEC05	23DEC05	30JAN06	26
100829	15	15	0	Perform Mechanical Disconnects @ Flight Wing 1	24OCT05	11NOV05	24OCT05	11NOV05	0
100839	15	15	0	Perform Electrical Disconnects @ Flight Wing 1	24OCT05	11NOV05	24OCT05	11NOV05	0
100849	15	15	0	Perform Plumbing Disconnects @ Flight Wing 1	24OCT05	11NOV05	24OCT05	11NOV05	0
100859	15	15	0	Perform Fire Protect Disconnects @ Flight Wing 1	24OCT05	11NOV05	24OCT05	11NOV05	0
100869	25	25	0	Remove ACM @ Flight Wing 1	28JUL05*	31AUG05	3OCT05	4NOV05	46
100879	5	5	0	Obtain All-Clear Cert @ Flight Wing 1	1SEP05	8SEP05	7NOV05	11NOV05	46
100889	25	25	0	Perform Demolition @ Flight Wing 1	14NOV05	19DEC05	14NOV05	19DEC05	0
100899	10	10	0	PA Drain Hydrant Fueling System	17OCT05	28OCT05	17OCT05	28OCT05	0
100909	15	15	0	Perform Mechanical Disconnects @ Flight Wing 2	16NOV05	7DEC05	30DEC05	20JAN06	30
100919	15	15	0	Perform Electrical Disconnects @ Flight Wing 2	16NOV05	7DEC05	30DEC05	20JAN06	30
100929	15	15	0	Perform Plumbing Disconnects @ Flight Wing 2	16NOV05	7DEC05	30DEC05	20JAN06	30
100939	15	15	0	Perform Fire Protect Disconnects @ Flight Wing 2	16NOV05	7DEC05	30DEC05	20JAN06	30
100949	15	15	0	Remove ACM @ Flight Wing 2	24OCT05	11NOV05	16NOV05	7DEC05	17
100959	5	5	0	Obtain All-Clear Cert @ Flight Wing 2	14NOV05	18NOV05	8DEC05	14DEC05	17
100969	25	25	0	Perform Demolition @ Flight Wing 2	15DEC05	20JAN06	15DEC05	20JAN06	0
100979	20	20	0	Perform Mechanical Disconnects @ Bldg 8	24OCT05	18NOV05	15FEB06	15MAR06	79
100989	20	20	0	Perform Electrical Disconnects @ Bldg 8	24OCT05	18NOV05	15FEB06	15MAR06	79
100999	20	20	0	Perform Plumbing Disconnects @ Bldg 8	24OCT05	18NOV05	15FEB06	15MAR06	79
101009	20	20	0	Perform Fire Protection Disconnects @ Bldg 8	24OCT05	18NOV05	15FEB06	15MAR06	79
101019	15	15	0	Remove ACM @ Bldg 8	7JUL05	27JUL05	11JAN06	31JAN06	130
101029	5	5	0	Obtain All-Clear Cert @ Bldg 8	26JUL05	3AUG05	1FEB06	7FEB06	130
101039	25	25	0	Perform Demolition @ Bldg 8	31OCT05	5DEC05	8FEB06	15MAR06	69
101049	5	5	0	Perform Mechanical Disconnects @ Bldg 164	28JUL05*	3AUG05	6FEB07	12FEB07	387
101059	5	5	0	Perform Electrical Disconnects @ Bldg 164	28JUL05	3AUG05	6FEB07	12FEB07	387
101069	5	5	0	Perform Plumbing Disconnects @ Bldg 164	28JUL05	3AUG05	6FEB07	12FEB07	387
101079	5	5	0	Perform Fire Protection Disconnects @ Bldg 164	28JUL05	3AUG05	6FEB07	12FEB07	387
101089	10	10	0	Cut & Cap Existing Hydrant Fueling Sys	31OCT05	11NOV05	31OCT05	11NOV05	0
101099	60	60	0	Cut & Remove Existing Hydrant Fueling Pipe	6DEC05	2MAR06	6DEC05	2MAR06	0
101109	10	10	0	Perform Demolition @ Bldg 164	4AUG05	17AUG05	13FEB07	27FEB07	387
101119	90	90	0	Install New Site Drainage Piping	2MAR06	7JUL06	8DEC06	17APR07	197
101129	60	60	0	Remove Existing Electrical	19DEC05	15MAR06	30DEC05	27MAR06	8
101139	60	60	0	Remove Existing Storm Water Pipe	19DEC05	15MAR06	30DEC05	27MAR06	8
101149	80	80	0	Reroute Existing Comm	19DEC05	12APR06	30DEC05	24APR06	8
101159	60	60	0	Remove Water & Sewer Lines	19DEC05	15MAR06	30DEC05	27MAR06	8
101169	238	238	0	Install Hydrant Fueling Monitoring System	9MAY07	14APR08	5JUN07	9MAY08	19
101179	60	60	0	Test & Commission Hydrant Fueling System	12FEB07	7MAY07	12MAR07	4JUN07	19
101189	69	69	0	Final Commission Hydrant Fueling System	15APR08	22JUL08	12MAY08	18AUG08	19
101199	80	80	0	Install Hydrant Fueling System for Gates 26 & 27	19AUG08*	10DEC08	19AUG08	10DEC08	0
101209	20	20	0	Investigate & Verify Existing Utilities	17OCT05	11NOV05	1DEC05	29DEC05	32
101219	60	60	0	Remove Existing Drainage Lines	19DEC05	15MAR06	1OCT08	24DEC08	707
101229	70	70	0	Install Storm Septors	1FEB06	10MAY06	9NOV06	20FEB07	197
101239	70	70	0	Install Catch Basins	1FEB06	10MAY06	9NOV06	20FEB07	197
101249	70	70	0	Install Manholes	1FEB06	10MAY06	9NOV06	20FEB07	197
101259	10	10	0	Set up Dewatering @ FW 1 Basement	20DEC05	4JAN06	5JAN06	18JAN06	10
101269	5	5	0	Excavate at Bldg Perimeter @ FW 1 Basement	5JAN06	11JAN06	19JAN06	25JAN06	10
101279	20	20	0	Remove Basement Slab & Pile Caps @ FW 1 Basement	12JAN06	8FEB06	26JAN06	23FEB06	10
101289	3	3	0	Survey Exisiting Pile Caps @ FW 1 Basement	9FEB06	13FEB06	24FEB06	28FEB06	10
101299	7	7	0	Install Bentonite Mat @ FW 1 Basement	14FEB06	23FEB06	1MAR06	9MAR06	10
101300	94*	94*	0	Drive Piles @ Head House	20DEC05	3MAY06	20DEC05	16JAN09	687
101309	7	7	0	Backfill at Elev 7'6" @ FW 1 Basement	14FEB06	23FEB06	1MAR06	9MAR06	10
101310	79*	79*	0	Build Pile Caps & Foundations @ Head House	12JAN06	3MAY06	16FEB06	20SEP07	351
101319	15	15	0	Drive Piles @ HH Zone 6	20DEC05	11JAN06	20DEC05	11JAN06	0
101320	150*	150*	0	Underslab Utilities/SOG @ Head House	22FEB06	22SEP06	5MAY06	16JAN09	588
101329	60	60	0	Remove Exisiting Hydrant Fuel Pits & Structures	20DEC05	16MAR06	27JAN06	21APR06	26
101339	5	5	0	Test & Recharge Existing Hydrant Fueling Line	14NOV05	18NOV05	14NOV05	18NOV05	0
101340	97*	97*	0	Erect Steel @ Head House 1st Floor	28JUN06	13NOV06	28JUN06	8DEC06	18
101349	60	60	0	Excavate for Removal Exisiting Hydrant Fuel Sys	21NOV05	15FEB06	21NOV05	15FEB06	0
101350	122*	122*	0	Rough Deck @ Head House 2nd Floor	20SEP06	14MAR07	28SEP06	30JAN08	224
101359	80	80	0	Backfill & Slurry Existing Hydrant Fueling Sys	5JAN06	27APR06	27JAN06	19MAY06	16

Zone

ACTIVITY ID	ORIG DUR	REM DUR	%	ACTIVITY DESCRIPTION	EARLY START	EARLY FINISH	LATE START	LATE FINISH	TOTAL FLOAT
101360	112*	112*	0	Place Metal Deck @ Head House 2nd Floor	27JUL06	4JAN07	2AUG06	19JUL07	137
101369	70	70	0	Remove Apron Pave & Excavate for Site Drainage	19DEC05	29MAR06	12OCT06	22JAN07	207
101370	112*	112*	0	Place Metal Deck @ Head House Roof	27JUL06	4JAN07	2AUG06	19JUL07	137
101379	15	15	0	Run Temp Plumbing to Trailers	31JAN06	21FEB06	27APR06	17MAY06	61
101380	107*	107*	0	Place Concrete @ Head House 2nd Floor	11OCT06	14MAR07	10NOV06	30JAN08	224
101389	20	20	0	Fill & Flush Hydrant Fueling System	30NOV06	28DEC06	9FEB07	9MAR07	49
101390	97*	97*	0	Rough Deck @ Head House Roof	11OCT06	28FEB07	27OCT06	16AUG07	119
101399	81	81	0	AE/PA Inspections	4APR08	29JUL08	4APR08	29JUL08	0
101400	147*	147*	0	Install Roof @ Head House	25OCT06	23MAY07	10NOV06	7SEP07	74
101409	14	14	0	PA Sign Off	30JUL08	18AUG08	30JUL08	18AUG08	0
101419	0	0	0	PERMANENT SANITARY LINE AVAILABLE (PA)	28MAR07*		24DEC07		189
101420	115*	115*	0	SOFP @ Head House 1st Floor	20OCT06	4APR07	21NOV06	2JAN09	444
101429	0	0	0	BUILDING WATERTIGHT @ HEAD HOUSE	25JAN08		19AUG08		144
101440	240	240	0	Install MEPS @ Head House	15MAR07	22FEB08	15MAR07	22FEB08	0
101450	142*	142*	0	SOFP @ Head House 2nd Floor	15NOV06	7JUN07	4DEC06	16JAN09	409
101460	142*	142*	0	SOFP @ Head House Roof	15NOV06	7JUN07	4DEC06	16JAN09	409
101470	265	265	0	Install Exterior Wall @ Head House	29MAR07	11APR08	29MAR07	11APR08	0
101480	270	270	0	Install Architectural Roughing @ Head House	10MAY07	2JUN08	31MAY07	20JUN08	14
101490	0	0	0	BUILDING ENCLOSURE @ HEAD HOUSE		11APR08		18AUG08	89
101530	50*	50*	0	Bid & Award Asbestos & Demolition (HA)	21JAN05	1APR05	5AUG05	14OCT05	137
101550	200	200	0	Build Circulator Roadway @ Head House	10NOV06	24AUG07	5NOV07	18AUG08	249
101560	166	166	0	Commission MEPS @ Head House	24DEC07	18AUG08	24DEC07	18AUG08	0
101570	0	0	0	ROOF COMPLETE @ HEAD HOUSE		23MAY07		7SEP07	74
101600	129*	129*	0	Erect Steel @ Head House 2nd Floor & Roof	28JUN06	29DEC06	28JUN06	16JAN09	520
101659	80	80	0	Reroute Existing HV Electrical	19DEC05	12APR06	30DEC05	24APR06	8
101669	170	170	0	Install New Sanitary Service	6FEB06	5OCT06	7SEP06	8MAY07	149
101679	170	170	0	Install New Water Service	6FEB06	5OCT06	7SEP06	8MAY07	149
101689	40	40	0	Remove Exist Apron Pave & Excavate for 5kv Elec	28DEC05	23FEB06	10MAR06	4MAY06	50
101699	170	170	0	Install New Gas Line	6FEB06	5OCT06	7SEP06	8MAY07	149
101709	180	180	0	Install New TDS System	10MAR06	21NOV06	23AUG06	8MAY07	116
101719	40	40	0	Set Manholes for New 5kv Elec Service	14MAR06	8MAY06	19MAY06	17JUL06	48
101720	180	180	0	Submit Structural Steel Shop Drwgs	19SEP05	2JUN06	21OCT05	7JUL06	24
101729	50	50	0	Set Ductbanks for New 5kv Elec Service	14MAR06	22MAY06	5MAY06	17JUL06	38
101739	30	30	0	Pull Cable for New 5kv Elec Service	23MAY06	5JUL06	18JUL06	28AUG06	38
101749	30	30	0	Splice, Test & Tie New 5kv Elec Service	6JUL06	16AUG06	29AUG06	10OCT06	38
101759	50	50	0	Install New Sanitary & Water for T6 Expansion	26JAN06	6APR06	6FEB07	17APR07	261
101769	60	60	0	Install 480v System for De-icing	21NOV05	15FEB06	28MAR07	20JUN07	341
101770	180	180	0	Approve Structural Steel Shop Drwgs	21NOV05	7AUG06	27DEC05	11SEP06	24
101779	20	20	0	Install New Pavement @ De-icing	13MAR06*	7APR06	21JUN07	19JUL07	325
101800	79*	79*	0	Set HVAC Equipment @ Head House Roof	20SEP06	11JAN07	3NOV06	16AUG07	152
101850	190	190	0	Coordinate & Fab/Del Structural Steel Matls	5JAN06	3OCT06	8FEB06	6NOV06	24
101900	240	240	0	Install Architectural Finishes @ Head House	10SEP07	18AUG08	10SEP07	18AUG08	0
102000	0	0	0	HEAD HOUSE SUBSTANTIAL COMPLETION		18AUG08		18AUG08	0
102010	419	419	0	Install Baggage Handling System	29SEP06	22MAY08	29SEP06	22MAY08	0
102030	75	75	0	Test & Commission Baggage Handling System	14APR08	29JUL08	14APR08	29JUL08	0
102100	14	14	0	Drive Piles @ Cc Zone 1	1MAR06	20MAR06	1MAR06	20MAR06	0
102440	18	18	0	Drive Piles @ Cc Zone 2	2FEB06	28FEB06	2FEB06	28FEB06	0
102780	15	15	0	Drive Piles @ Cc Zone 3	12JAN06	1FEB06	12JAN06	1FEB06	0
103112	14	14	0	Drive Piles @ Cc Zone 4	21DEC05	11JAN06	21DEC05	11JAN06	0
103444	8	8	0	Drive Piles @ HH Zone 5	12JAN06	23JAN06	16JAN06	25JAN06	2
103784	10	10	0	Drive Piles @ HH Zone 7	12JAN06	25JAN06	12JAN06	25JAN06	0
104124	12	12	0	Drive Piles @ HH Zone 8	24FEB06	13MAR06	10MAR06	27MAR06	10
104464	15	15	0	Drive Piles @ HH RW Zone 9	24JAN06	13FEB06	26JAN06	15FEB06	2
104804	15	15	0	Drive Piles @ HH RW Zone 10	26JAN06	15FEB06	26JAN06	15FEB06	0
105144	15	15	0	Drive Piles @ HH Zone 11	16FEB06	9MAR06	5JUL06	25JUL06	96
105484	9	9	0	Drive Piles @ HH Zone 12	11APR06	21APR06	31AUG06	13SEP06	100
105824	10	10	0	Drive Piles @ HH RW Zone 13	28MAR06	10APR06	17AUG06	30AUG06	100
106164	10	10	0	Drive Piles @ HH RW Zone 14	14MAR06	27MAR06	3AUG06	16AUG06	100
106504	8	8	0	Drive Piles @ HH RW Zone 15	10MAR06	21MAR06	26JUL06	4AUG06	96
106844	12	12	0	Drive Piles @ HH RW Zone 16	22MAR06	6APR06	7AUG06	22AUG06	96
106894	15	15	0	Drive Balance of Piles @ Utility Relocations	13APR06	3MAY06	26DEC08	16JAN09	687
1000010	10	10	0	Fill Piles @ Cc Zone 1	21MAR06	3APR06	21MAR06	3APR06	0
1000020	14	14	0	Build Pile Caps @ Cc Zone 1	4APR06	21APR06	4APR06	21APR06	0
1000030	18	18	0	Build Grade Beams @ Cc Zone 1	24APR06	17MAY06	24APR06	17MAY06	0
1000040	20	20	0	Install UG Plumbing @ Cc Zone 1	1MAY06	26MAY06	28SEP06	25OCT06	105
1000050	20	20	0	Install Underslab Electrical @ Cc Zone 1	8MAY06	5JUN06	5OCT06	1NOV06	105
1000060	12	12	0	Backfill & Install Vapor Barrier @ Cc Zone 1	6JUN06	21JUN06	2NOV06	17NOV06	105

ACTIVITY ID	ORIG DUR	REM DUR	%	ACTIVITY DESCRIPTION	EARLY START	EARLY FINISH	LATE START	LATE FINISH	TOTAL FLOAT
1000070	10	10	0	Build Foundation Walls @ Cc Zone 1	22JUN06	6JUL06	20NOV06	4DEC06	105
1000080	12	12	0	Place SOG @ Cc Zone 1	7JUL06	24JUL06	5DEC06	20DEC06	105
1000090	17	17	0	Erect Steel @ Zone 1	8AUG06	30AUG06	21DEC06	16JAN07	95
1000100	5	5	0	Place Metal Deck 2nd Fl @ Zone 1	31AUG06	7SEP06	17JAN07	23JAN07	95
1000110	6	6	0	Place Metal Deck on Roof @ Zone 1	8SEP06	15SEP06	24JAN07	31JAN07	95
1000120	5	5	0	Set HVAC Roof Equipment @ Zone 1	18SEP06	22SEP06	9MAR07	15MAR07	120
1000130	15	15	0	Rough MEP at Roof @ Zone 1	9OCT06	27OCT06	23FEB07	15MAR07	95
1000140	30	30	0	Install Roof @ Zone 1	22NOV06	5JAN07	16MAR07	26APR07	78
1000150	15	15	0	Rough MEP 2nd Fl @ Zone 1	18SEP06	6OCT06	1FEB07	22FEB07	95
1000160	12	12	0	Place Concrete 2nd Fl @ Zone 1	9OCT06	24OCT06	30MAR07	16APR07	120
1000170	8	8	0	SOFP 1st Fl @ Zone 1	25OCT06	3NOV06	17APR07	26APR07	120
1000180	10	10	0	SOFP 2nd Fl & Roof @ Zone 1	8JAN07	19JAN07	27APR07	10MAY07	78
1000190	5	5	0	Detail Edges &Shoot Shear Studs 2nd Fl @ Zone 1	8SEP06	14SEP06	23MAR07	29MAR07	136
1000200	6	6	0	Detail Edges Roof @ Zone 1	28DEC06	5JAN07	19APR07	26APR07	78
2000010	13	13	0	Fill Piles @ Cc Zone 2	1MAR06	17MAR06	27JUL06	14AUG06	104
2000020	14	14	0	Build Pile Caps @ Cc Zone 2	20MAR06	6APR06	15AUG06	1SEP06	104
2000030	27	27	0	Build Grade Beams @ Cc Zone 2	7APR06	15MAY06	5SEP06	11OCT06	104
2000040	14	14	0	Install UG Plumbing @ Cc Zone 2	14APR06	3MAY06	18SEP06	5OCT06	108
2000050	14	14	0	Install Underslab Electrical @ Cc Zone 2	20APR06	9MAY06	22SEP06	11OCT06	108
2000060	14	14	0	Backfill & Install Vapor Barrier @ Cc Zone 2	16MAY06	5JUN06	12OCT06	31OCT06	104
2000080	17	17	0	Place SOG @ Cc Zone 2	6JUN06	28JUN06	1NOV06	24NOV06	104
2000090	18	18	0	Erect Steel @ Zone 2	13JUL06	7AUG06	27NOV06	20DEC06	95
2000100	5	5	0	Place Metal Deck 2nd Fl @ Zone 2	8AUG06	14AUG06	13JUN07	19JUN07	215
2000110	6	6	0	Place Metal Deck on Roof @ Zone 2	15AUG06	22AUG06	20JUN07	27JUN07	215
2000120	5	5	0	Set HVAC Roof Equipment @ Zone 2	23AUG06	29AUG06	3AUG07	9AUG07	240
2000130	15	15	0	Rough MEP at Roof @ Zone 2	14SEP06	4OCT06	20JUL07	9AUG07	215
2000140	30	30	0	Install Roof @ Zone 2	5OCT06	15NOV06	10AUG07	21SEP07	215
2000150	15	15	0	Rough MEP 2nd Fl @ Zone 2	23AUG06	13SEP06	28JUN07	19JUL07	215
2000160	12	12	0	Place Concrete 2nd Fl @ Zone 2	14SEP06	29SEP06	24AUG07	11SEP07	240
2000170	8	8	0	SOFP 1st Fl @ Zone 2	2OCT06	11OCT06	12SEP07	21SEP07	240
2000180	10	10	0	SOFP 2nd Fl & Roof @ Zone 2	16NOV06	30NOV06	24SEP07	5OCT07	215
2000190	5	5	0	Detail Edges &Shoot Shear Studs 2nd Fl @ Zone 2	15AUG06	21AUG06	17AUG07	23AUG07	256
2000200	6	6	0	Detail Edges Roof @ Zone 2	23AUG06	30AUG06	14SEP07	21SEP07	269
3000010	12	12	0	Fill Piles @ Cc Zone 3	2FEB06	17FEB06	21FEB06	8MAR06	12
3000020	16	16	0	Build Pile Caps @ Cc Zone 3	21FEB06	14MAR06	9MAR06	30MAR06	12
3000030	21	21	0	Build Grade Beams @ Cc Zone 3	15MAR06	12APR06	31MAR06	28APR06	12
3000040	14	14	0	Install UG Plumbing @ Cc Zone 3	22MAR06	10APR06	7APR06	26APR06	12
3000050	14	14	0	Install Underslab Electrical @ Cc Zone 3	28MAR06	14APR06	13APR06	2MAY06	12
3000060	14	14	0	Backfill & Install Vapor Barrier @ Cc Zone 3	17APR06	4MAY06	3MAY06	22MAY06	12
3000080	17	17	0	Place SOG @ Cc Zone 3	5MAY06	30MAY06	23MAY06	15JUN06	12
3000090	18	18	0	Erect Steel @ Zone 3	16JUN06	12JUL06	16JUN06	12JUL06	0
3000100	5	5	0	Place Metal Deck 2nd Fl @ Zone 3	13JUL06	19JUL06	13JUL06	19JUL06	0
3000110	6	6	0	Place Metal Deck on Roof @ Zone 3	20JUL06	27JUL06	20JUL06	27JUL06	0
3000120	5	5	0	Set HVAC Roof Equipment @ Zone 3	28JUL06	3AUG06	1SEP06	8SEP06	25
3000130	15	15	0	Rough MEP at Roof @ Zone 3	18AUG06	8SEP06	18AUG06	8SEP06	0
3000140	30	30	0	Install Roof @ Zone 3	11SEP06	20OCT06	11SEP06	20OCT06	0
3000150	15	15	0	Rough MEP 2nd Fl @ Zone 3	28JUL06	17AUG06	28JUL06	17AUG06	0
3000160	12	12	0	Place Concrete 2nd Fl @ Zone 3	18AUG06	5SEP06	25SEP06	10OCT06	25
3000170	8	8	0	SOFP 1st Fl @ Zone 3	6SEP06	15SEP06	11OCT06	20OCT06	25
3000180	10	10	0	SOFP 2nd Fl & Roof @ Zone 3	23OCT06	3NOV06	23OCT06	3NOV06	0
3000190	5	5	0	Detail Edges &Shoot Shear Studs 2nd Fl @ Zone 3	20JUL06	26JUL06	24AUG06	30AUG06	25
3000200	6	6	0	Detail Edges Roof @ Zone 3	28JUL06	4AUG06	31AUG06	8SEP06	24
4000010	12	12	0	Fill Piles @ Cc Zone 4	12JAN06	27JAN06	12JAN06	27JAN06	0
4000020	14	14	0	Build Pile Caps @ Cc Zone 4	30JAN06	16FEB06	30JAN06	16FEB06	0
4000030	17	17	0	Build Grade Beams @ Cc Zone 4	17FEB06	14MAR06	17FEB06	14MAR06	0
4000040	14	14	0	Install UG Plumbing @ Cc Zone 4	27FEB06	16MAR06	27FEB06	16MAR06	0
4000050	14	14	0	Install Underslab Electrical @ Cc Zone 4	3MAR06	22MAR06	3MAR06	22MAR06	0
4000060	14	14	0	Backfill & Install Vapor Barrier @ Cc Zone 4	23MAR06	11APR06	23MAR06	11APR06	0
4000070	12	12	0	Build Foundation Walls @ Cc Zone 4	12APR06	27APR06	12APR06	27APR06	0
4000080	14	14	0	Place SOG @ Cc Zone 4	28APR06	17MAY06	28APR06	17MAY06	0
4000090	20	20	0	Erect Steel @ Zone 4	18MAY06	15JUN06	18MAY06	15JUN06	0
4000100	5	5	0	Place Metal Deck 2nd Fl @ Zone 4	16JUN06	22JUN06	21JUN06	27JUN06	3
4000110	6	6	0	Place Metal Deck on Roof @ Zone 4	23JUN06	30JUN06	28JUN06	6JUL06	3
4000120	5	5	0	Set HVAC Roof Equipment @ Zone 4	3JUL06	10JUL06	11AUG06	17AUG06	28
4000130	15	15	0	Rough MEP at Roof @ Zone 4	25JUL06	14AUG06	28JUL06	17AUG06	3
4000140	30	30	0	Install Roof @ Zone 4	15AUG06	26SEP06	18AUG06	29SEP06	3
4000150	15	15	0	Rough MEP 2nd Fl @ Zone 4	3JUL06	24JUL06	7JUL06	27JUL06	3

ACTIVITY ID	ORIG DUR	REM DUR	%	ACTIVITY DESCRIPTION	EARLY START	EARLY FINISH	LATE START	LATE FINISH	TOTAL FLOAT
4000160	12	12	0	Place Concrete 2nd Fl @ Zone 4	25JUL06	9AUG06	8DEC06	26DEC06	96
4000170	8	8	0	SOFP 1st Fl @ Zone 4	10AUG06	21AUG06	27DEC06	8JAN07	96
4000180	10	10	0	SOFP 2nd Fl & Roof @ Zone 4	27SEP06	10OCT06	9JAN07	22JAN07	71
4000190	5	5	0	Detail Edges &Shoot Shear Studs 2nd Fl @ Zone 4	23JUN06	29JUN06	3AUG06	9AUG06	28
4000200	6	6	0	Detail Edges Roof @ Zone 4	3JUL06	11JUL06	10AUG06	17AUG06	27
5000010	7	7	0	Fill Piles @ Cc Zone 5	24JAN06	1FEB06	22MAY06	31MAY06	83
5000020	8	8	0	Build Pile Caps @ Cc Zone 5	2FEB06	13FEB06	1JUN06	12JUN06	83
5000030	9	9	0	Build Grade Beams @ Cc Zone 5	14FEB06	27FEB06	13JUN06	23JUN06	83
5000040	12	12	0	Install UG Plumbing @ Cc Zone 5	22FEB06	9MAR06	20JUN06	6JUL06	83
5000050	12	12	0	Install Underslab Electrical @ Cc Zone 5	28FEB06	15MAR06	26JUN06	12JUL06	83
5000060	7	7	0	Backfill & Install Vapor Barrier @ Cc Zone 5	16MAR06	24MAR06	13JUL06	21JUL06	83
5000080	8	8	0	Place SOG @ Cc Zone 5	27MAR06	5APR06	24JUL06	2AUG06	83
5000090	5	5	0	Erect Steel @ Zone 5	3AUG06	9AUG06	3AUG06	9AUG06	0
5000100	13	13	0	Place Metal Deck 2nd Fl @ Zone 5	10AUG06	28AUG06	28AUG06	14SEP06	12
5000110	15	15	0	Place Metal Deck on Roof @ Zone 5	29AUG06	19SEP06	15SEP06	5OCT06	12
5000120	5	5	0	Set HVAC Roof Equipment @ Zone 5	20SEP06	26SEP06	3NOV06	9NOV06	32
5000130	10	10	0	Rough MEP at Roof @ Zone 5	11OCT06	24OCT06	27OCT06	9NOV06	12
5000140	15	15	0	Install Roof @ Zone 5	25OCT06	14NOV06	10NOV06	1DEC06	12
5000150	15	15	0	Rough MEP 2nd Fl @ Zone 5	20SEP06	10OCT06	6OCT06	26OCT06	12
5000160	7	7	0	Place Concrete 2nd Fl @ Zone 5	11OCT06	19OCT06	10NOV06	20NOV06	22
5000170	8	8	0	SOFP 1st Fl @ Zone 5	20OCT06	31OCT06	21NOV06	1DEC06	22
5000180	8	8	0	SOFP 2nd Fl & Roof @ Zone 5	15NOV06	27NOV06	4DEC06	13DEC06	12
5000190	13	13	0	Detail Edegs &Shoot Shear Studs 2nd Fl @ Zone 5	29AUG06	15SEP06	24OCT06	9NOV06	39
5000200	15	15	0	Detail Edges Roof @ Zone 5	20SEP06	10OCT06	10NOV06	1DEC06	37
6000010	14	14	0	Fill Piles @ Cc Zone 6	12JAN06	31JAN06	12APR06	1MAY06	63
6000020	17	17	0	Build Pile Caps @ Cc Zone 6	1FEB06	24FEB06	2MAY06	24MAY06	63
6000030	23	23	0	Build Grade Beams @ Cc Zone 6	27FEB06	29MAR06	25MAY06	27JUN06	63
6000040	17	17	0	Install UG Plumbing @ Cc Zone 6	6MAR06	28MAR06	24OCT08	17NOV08	672
6000050	27	27	0	Install Underslab Electrical @ Cc Zone 6	6MAR06	11APR06	24OCT08	2DEC08	672
6000060	14	14	0	Backfill & Install Vapor Barrier @ Cc Zone 6	12APR06	1MAY06	3DEC08	22DEC08	672
6000080	17	17	0	Place SOG @ Cc Zone 6	2MAY06	24MAY06	23DEC08	16JAN09	672
6000090	20	20	0	Erect Steel @ Zone 6	28JUN06	26JUL06	28JUN06	26JUL06	0
6000100	20	20	0	Place Metal Deck 2nd Fl @ Zone 6	27JUL06	23AUG06	2AUG06	29AUG06	4
6000110	25	25	0	Place Metal Deck on Roof @ Zone 6	24AUG06	28SEP06	30AUG06	4OCT06	4
6000120	5	5	0	Set HVAC Roof Equipment @ Zone 6	29SEP06	5OCT06	1DEC06	7DEC06	44
6000130	20	20	0	Rough MEP at Roof @ Zone 6	3NOV06	1DEC06	9NOV06	7DEC06	4
6000140	40	40	0	Install Roof @ Zone 6	4DEC06	30JAN07	8DEC06	5FEB07	4
6000150	25	25	0	Rough MEP 2nd Fl @ Zone 6	29SEP06	2NOV06	5OCT06	8NOV06	4
6000160	20	20	0	Place Concrete 2nd Fl @ Zone 6	3NOV06	1DEC06	11JAN07	7FEB07	46
6000170	11	11	0	SOFP 1st Fl @ Zone 6	4DEC06	18DEC06	8FEB07	23FEB07	46
6000180	8	8	0	SOFP 2nd Fl & Roof @ Zone 6	31JAN07	9FEB07	26FEB07	7MAR07	17
6000190	20	20	0	Detail Edges &Shoot Shear Studs 2nd Fl @ Zone 6	24AUG06	21SEP06	1DEC06	29DEC06	69
6000200	25	25	0	Detail Edges Roof @ Zone 6	29SEP06	2NOV06	2JAN07	5FEB07	64
7000010	11	11	0	Fill Piles @ Cc Zone 7	26JAN06	9FEB06	27MAR06	10APR06	41
7000020	13	13	0	Build Pile Caps @ Cc Zone 7	10FEB06	1MAR06	11APR06	27APR06	41
7000030	15	15	0	Build Grade Beams @ Cc Zone 7	2MAR06	22MAR06	28APR06	18MAY06	41
7000040	22	22	0	Install UG Plumbing @ Cc Zone 7	9MAR06	7APR06	5MAY06	6JUN06	41
7000050	22	22	0	Install Underslab Electrical @ Cc Zone 7	9MAR06	7APR06	5MAY06	6JUN06	41
7000060	12	12	0	Backfill & Install Vapor Barrier @ Cc Zone 7	10APR06	25APR06	7JUN06	22JUN06	41
7000070	11	11	0	Build Foundation Walls @ Cc Zone 7	26APR06	10MAY06	23JUN06	10JUL06	41
7000080	12	12	0	Place SOG @ Cc Zone 7	11MAY06	26MAY06	11JUL06	26JUL06	41
7000090	5	5	0	Erect Steel @ Zone 7	27JUL06	2AUG06	27JUL06	2AUG06	0
7000100	17	17	0	Place Metal Deck 2nd Fl @ Zone 7	3AUG06	25AUG06	3AUG06	25AUG06	0
7000110	22	22	0	Place Metal Deck on Roof @ Zone 7	28AUG06	27SEP06	28AUG06	27SEP06	0
7000120	5	5	0	Set HVAC Roof Equipment @ Zone 7	28SEP06	4OCT06	28NOV06	4DEC06	42
7000130	20	20	0	Rough MEP at Roof @ Zone 7	6NOV06	4DEC06	6NOV06	4DEC06	0
7000140	20	20	0	Install Roof @ Zone 7	5DEC06	3JAN07	5DEC06	3JAN07	0
7000150	27	27	0	Rough MEP 2nd Fl @ Zone 7	28SEP06	3NOV06	28SEP06	3NOV06	0
7000160	27	27	0	Place Concrete 2nd Fl @ Zone 7	6NOV06	13DEC06	6DEC06	15JAN07	21
7000170	13	13	0	SOFP 1st Fl @ Zone 7	14DEC06	3JAN07	16JAN07	1FEB07	21
7000180	8	8	0	SOFP 2nd Fl & Roof @ Zone 7	4JAN07	15JAN07	2FEB07	13FEB07	21
7000190	17	17	0	Detail Edges &Shoot Shear Studs 2nd Fl @ Zone 7	28AUG06	20SEP06	7NOV06	30NOV06	50
7000200	22	22	0	Detail Edges Roof @ Zone 7	28SEP06	27OCT06	1DEC06	3JAN07	45
8000010	15	15	0	Fill Piles @ Cc Zone 8	14MAR06	3APR06	28MAR06	17APR06	10
8000020	19	19	0	Build Pile Caps @ Cc Zone 8	4APR06	28APR06	18APR06	12MAY06	10
8000030	25	25	0	Build Grade Beams @ Cc Zone 8	1MAY06	5JUN06	15MAY06	19JUN06	10
8000040	22	22	0	Install UG Plumbing @ Cc Zone 8	8MAY06	7JUN06	22MAY06	21JUN06	10

ACTIVITY ID	ORIG DUR	REM DUR	%	ACTIVITY DESCRIPTION	EARLY START	EARLY FINISH	LATE START	LATE FINISH	TOTAL FLOAT
8000050	32	32	0	Install Underslab Electrical @ Cc Zone 8	8MAY06	21JUN06	22MAY06	6JUL06	10
8000060	12	12	0	Backfill & Install Vapor Barrier @ Cc Zone 8	22JUN06	10JUL06	7JUL06	24JUL06	10
8000070	12	12	0	Build Foundation Walls @ Cc Zone 8	11JUL06	26JUL06	25JUL06	9AUG06	10
8000080	14	14	0	Place SOG @ Cc Zone 8	27JUL06	15AUG06	10AUG06	29AUG06	10
8000090	15	15	0	Erect Steel @ Zone 8	10AUG06	30AUG06	10AUG06	30AUG06	0
8000100	10	10	0	Place Metal Deck 2nd Fl @ Zone 8	31AUG06	14SEP06	26SEP06	9OCT06	17
8000110	15	15	0	Place Metal Deck on Roof @ Zone 8	15SEP06	5OCT06	10OCT06	30OCT06	17
8000120	5	5	0	Set HVAC Roof Equipment @ Zone 8	6OCT06	12OCT06	13DEC06	19DEC06	47
8000130	15	15	0	Rough MEP at Roof @ Zone 8	3NOV06	24NOV06	29NOV06	19DEC06	17
8000140	30	30	0	Install Roof @ Zone 8	27NOV06	9JAN07	20DEC06	1FEB07	17
8000150	20	20	0	Rough MEP 2nd Fl @ Zone 8	6OCT06	2NOV06	31OCT06	28NOV06	17
8000160	15	15	0	Place Concrete 2nd Fl @ Zone 8	3NOV06	24NOV06	2JAN07	22JAN07	39
8000170	8	8	0	SOFP 1st Fl @ Zone 8	27NOV06	6DEC06	23JAN07	1FEB07	39
8000180	8	8	0	SOFP 2nd Fl & Roof @ Zone 8	10JAN07	19JAN07	2FEB07	13FEB07	17
8000190	10	10	0	Detail Edges &Shoot Shear Studs 2nd Fl @ Zone 8	15SEP06	28SEP06	15DEC06	29DEC06	64
8000200	15	15	0	Detail Edges Roof @ Zone 8	6OCT06	26OCT06	12JAN07	1FEB07	67
9000010	22	22	0	Fill Piles @ Cc Zone 9	14FEB06	16MAR06	16FEB06	20MAR06	2
9000020	30	30	0	Build Pile Caps @ Cc Zone 9	17MAR06	27APR06	21MAR06	1MAY06	2
9000030	40	40	0	Build Grade Beams @ Cc Zone 9	28APR06	23JUN06	2MAY06	27JUN06	2
9000040	25	25	0	Install UG Plumbing @ Cc Zone 9	5MAY06	9JUN06	5JUN06	10JUL06	20
9000050	30	30	0	Install Underslab Electrical @ Cc Zone 9	5MAY06	16JUN06	5JUN06	17JUL06	20
9000060	17	17	0	Backfill & Install Vapor Barrier @ Cc Zone 9	26JUN06	19JUL06	18JUL06	9AUG06	15
9000070	15	15	0	Build Foundation Walls @ Cc Zone 9	20JUL06	9AUG06	10AUG06	30AUG06	15
9000080	20	20	0	Place SOG @ Cc Zone 9	10AUG06	7SEP06	31AUG06	28SEP06	15
9000090	28	28	0	Erect Steel @ Zone 9	31AUG06	10OCT06	31AUG06	10OCT06	0
9000100	20	20	0	Place Metal Deck 2nd Fl @ Zone 9	11OCT06	7NOV06	27OCT06	24NOV06	12
9000110	20	20	0	Place Metal Deck on Roof @ Zone 9	8NOV06	6DEC06	27NOV06	22DEC06	12
9000120	5	5	0	Set HVAC Roof Equipment @ Zone 9	7DEC06	13DEC06	7JUN07	13JUN07	126
9000130	20	20	0	Rough MEP at Roof @ Zone 9	15JAN07	9FEB07	16MAY07	13JUN07	86
9000140	60	60	0	Install Roof @ Zone 9	12FEB07	7MAY07	14JUN07	7SEP07	86
9000150	25	25	0	Rough MEP 2nd Fl @ Zone 9	7DEC06	12JAN07	26DEC06	30JAN07	12
9000160	30	30	0	Place Concrete 2nd Fl @ Zone 9	15JAN07	26FEB07	31JAN07	14MAR07	12
9000170	15	15	0	SOFP 1st Fl @ Zone 9	27FEB07	19MAR07	11DEC08	2JAN09	456
9000180	10	10	0	SOFP 2nd Fl & Roof @ Zone 9	8MAY07	21MAY07	5JAN09	16JAN09	421
9000190	20	20	0	Detail Edges &Shoot Shear Studs 2nd Fl @ Zone 9	8NOV06	6DEC06	3JAN07	30JAN07	37
9000200	20	20	0	Detail Edges Roof @ Zone 9	7DEC06	5JAN07	10AUG07	7SEP07	171
10000010	22	22	0	Fill Piles @ Cc Zone 10	16FEB06	20MAR06	16FEB06	20MAR06	0
10000020	30	30	0	Build Pile Caps @ Cc Zone 10	21MAR06	1MAY06	21MAR06	1MAY06	0
10000030	40	40	0	Build Grade Beams @ Cc Zone 10	2MAY06	27JUN06	2MAY06	27JUN06	0
10000040	25	25	0	Install UG Plumbing @ Cc Zone 10	9MAY06	13JUN06	12JUN06	17JUL06	23
10000050	40	40	0	Install Underslab Electrical @ Cc Zone 10	9MAY06	5JUL06	12JUN06	7AUG06	23
10000060	17	17	0	Backfill & Install Vapor Barrier @ Cc Zone 10	6JUL06	28JUL06	8AUG06	30AUG06	23
10000070	15	15	0	Build Foundation Walls @ Cc Zone 10	31JUL06	18AUG06	31AUG06	21SEP06	23
10000080	20	20	0	Place SOG @ Cc Zone 10	21AUG06	18SEP06	22SEP06	19OCT06	23
10000090	25	25	0	Erect Steel @ Zone 10	22SEP06	26OCT06	22SEP06	26OCT06	0
10000100	20	20	0	Place Metal Deck 2nd Fl @ Zone 10	27OCT06	24NOV06	27OCT06	24NOV06	0
10000110	20	20	0	Place Metal Deck on Roof @ Zone 10	27NOV06	22DEC06	27NOV06	22DEC06	0
10000120	5	5	0	Set HVAC Roof Equipment @ Zone 10	26DEC06	2JAN07	7JUN07	13JUN07	114
10000130	20	20	0	Rough MEP at Roof @ Zone 10	31JAN07	28FEB07	16MAY07	13JUN07	74
10000140	60	60	0	Install Roof @ Zone 10	1MAR07	23MAY07	14JUN07	7SEP07	74
10000150	25	25	0	Rough MEP 2nd Fl @ Zone 10	26DEC06	30JAN07	26DEC06	30JAN07	0
10000160	30	30	0	Place Concrete 2nd Fl @ Zone 10	31JAN07	14MAR07	31JAN07	14MAR07	0
10000170	15	15	0	SOFP 1st Fl @ Zone 10	15MAR07	4APR07	11DEC08	2JAN09	444
10000180	10	10	0	SOFP 2nd Fl & Roof @ Zone 10	24MAY07	7JUN07	5JAN09	16JAN09	409
10000190	20	20	0	Detail Edges &Shoot Shear Studs 2nd Fl @ Zone 10	27NOV06	22DEC06	3JAN07	30JAN07	25
10000200	20	20	0	Detail Edges Roof @ Zone 10	26DEC06	23JAN07	10AUG07	7SEP07	159
11000010	19	19	0	Fill Piles @ Cc Zone 11	10MAR06	5APR06	21AUG06	15SEP06	114
11000020	24	24	0	Build Pile Caps @ Cc Zone 11	6APR06	9MAY06	18SEP06	19OCT06	114
11000030	30	30	0	Build Grade Beams @ Cc Zone 11	10MAY06	21JUN06	20OCT06	1DEC06	114
11000040	25	25	0	Install UG Plumbing @ Cc Zone 11	17MAY06	21JUN06	10SEP08	14OCT08	588
11000050	40	40	0	Install Underslab Electrical @ Cc Zone 11	17MAY06	13JUL06	10SEP08	4NOV08	588
11000060	15	15	0	Backfill & Install Vapor Barrier @ Cc Zone 11	14JUL06	3AUG06	5NOV08	25NOV08	588
11000070	20	20	0	Build Foundation Walls @ Cc Zone 11	4AUG06	31AUG06	26NOV08	24DEC08	588
11000080	15	15	0	Place SOG @ Cc Zone 11	1SEP06	22SEP06	26DEC08	16JAN09	588
11000090	12	12	0	Erect Steel @ Zone 11	27OCT06	13NOV06	27OCT06	13NOV06	0
11000100	15	15	0	Place Metal Deck 2nd Fl @ Zone 11	14NOV06	5DEC06	14NOV06	5DEC06	0
11000110	15	15	0	Place Metal Deck on Roof @ Zone 11	6DEC06	27DEC06	6DEC06	27DEC06	0

ACTIVITY ID	ORIG DUR	REM DUR	%	ACTIVITY DESCRIPTION	EARLY START	EARLY FINISH	LATE START	LATE FINISH	TOTAL FLOAT
11000120	5	5	0	Set HVAC Roof Equipment @ Zone 11	28DEC06	4JAN07	16FEB07	23FEB07	35
11000130	20	20	0	Rough MEP at Roof @ Zone 11	26JAN07	23FEB07	26JAN07	23FEB07	0
11000140	25	25	0	Install Roof @ Zone 11	26FEB07	30MAR07	26FEB07	30MAR07	0
11000150	20	20	0	Rough MEP 2nd Fl @ Zone 11	28DEC06	25JAN07	28DEC06	25JAN07	0
11000160	15	15	0	Place Concrete 2nd Fl @ Zone 11	26JAN07	15FEB07	16FEB07	9MAR07	15
11000170	15	15	0	SOFP 1st Fl @ Zone 11	16FEB07	9MAR07	12MAR07	30MAR07	15
11000180	15	15	0	SOFP 2nd Fl & Roof @ Zone 11	2APR07	20APR07	2APR07	20APR07	0
11000190	15	15	0	Detail Edges &Shoot Shear Studs 2nd Fl @ Zone 11	6DEC06	27DEC06	26JAN07	15FEB07	35
11000200	15	15	0	Detail Edges Roof @ Zone 11	28DEC06	18JAN07	12MAR07	30MAR07	50
12000010	8	8	0	Fill Piles @ Cc Zone 12	24APR06	3MAY06	14SEP06	25SEP06	100
12000020	9	9	0	Build Pile Caps @ Cc Zone 12	4MAY06	16MAY06	26SEP06	6OCT06	100
12000030	11	11	0	Build Grade Beams @ Cc Zone 12	17MAY06	1JUN06	9OCT06	23OCT06	100
12000040	12	12	0	Install UG Plumbing @ Cc Zone 12	24MAY06	9JUN06	16OCT06	31OCT06	100
12000050	15	15	0	Install Underslab Electrical @ Cc Zone 12	24MAY06	14JUN06	16OCT06	3NOV06	100
12000060	9	9	0	Backfill & Install Vapor Barrier @ Cc Zone 12	15JUN06	27JUN06	6NOV06	16NOV06	100
12000080	10	10	0	Place SOG @ Cc Zone 12	28JUN06	12JUL06	17NOV06	1DEC06	100
12000090	5	5	0	Erect Steel @ Zone 12	4OCT06	10OCT06	4DEC06	8DEC06	42
12000100	12	12	0	Place Metal Deck 2nd Fl @ Zone 12	11OCT06	26OCT06	11DEC06	27DEC06	42
12000110	15	15	0	Place Metal Deck on Roof @ Zone 12	27OCT06	16NOV06	28DEC06	18JAN07	42
12000120	5	5	0	Set HVAC Roof Equipment @ Zone 12	17NOV06	24NOV06	9FEB07	15FEB07	52
12000130	10	10	0	Rough MEP at Roof @ Zone 12	4DEC06	15DEC06	2FEB07	15FEB07	42
12000140	20	20	0	Install Roof @ Zone 12	18DEC06	16JAN07	16FEB07	16MAR07	42
12000150	10	10	0	Rough MEP 2nd Fl @ Zone 12	17NOV06	1DEC06	19JAN07	1FEB07	42
12000160	12	12	0	Place Concrete 2nd Fl @ Zone 12	4DEC06	19DEC06	16FEB07	6MAR07	52
12000170	8	8	0	SOFP 1st Fl @ Zone 12	20DEC06	2JAN07	7MAR07	16MAR07	52
12000180	8	8	0	SOFP 2nd Fl & Roof @ Zone 12	17JAN07	26JAN07	19MAR07	28MAR07	42
12000190	12	12	0	Detail Edges &Shoot Shear Studs 2nd Fl @ Zone 12	27OCT06	13NOV06	31JAN07	15FEB07	65
12000200	15	15	0	Detail Edges Roof @ Zone 12	17NOV06	8DEC06	26FEB07	16MAR07	67
13000010	16	16	0	Fill Piles @ Cc Zone 13	11APR06	2MAY06	18JAN07	8FEB07	196
13000020	21	21	0	Build Pile Caps @ Cc Zone 13	3MAY06	1JUN06	9FEB07	12MAR07	196
13000030	27	27	0	Build Grade Beams @ Cc Zone 13	2JUN06	11JUL06	13MAR07	18APR07	196
13000040	12	12	0	Install UG Plumbing @ Cc Zone 13	9JUN06	26JUN06	20MAR07	4APR07	196
13000050	27	27	0	Install Underslab Electrical @ Cc Zone 13	9JUN06	18JUL06	20MAR07	25APR07	196
13000060	12	12	0	Backfill & Install Vapor Barrier @ Cc Zone 13	19JUL06	3AUG06	26APR07	11MAY07	196
13000080	12	12	0	Place SOG @ Cc Zone 13	4AUG06	21AUG06	14MAY07	30MAY07	196
13000090	10	10	0	Erect Steel @ Zone 13	14NOV06	28NOV06	31MAY07	13JUN07	137
13000100	10	10	0	Place Metal Deck 2nd Fl @ Zone 13	29NOV06	12DEC06	14JUN07	27JUN07	137
13000110	15	15	0	Place Metal Deck on Roof @ Zone 13	13DEC06	4JAN07	28JUN07	19JUL07	137
13000120	5	5	0	Set HVAC Roof Equipment @ Zone 13	5JAN07	11JAN07	10AUG07	16AUG07	152
13000130	10	10	0	Rough MEP at Roof @ Zone 13	19JAN07	1FEB07	3AUG07	16AUG07	137
13000140	15	15	0	Install Roof @ Zone 13	2FEB07	23FEB07	17AUG07	7SEP07	137
13000150	10	10	0	Rough MEP 2nd Fl @ Zone 13	5JAN07	18JAN07	20JUL07	2AUG07	137
13000160	7	7	0	Place Concrete 2nd Fl @ Zone 13	19JAN07	29JAN07	22JAN08	30JAN08	255
13000170	8	8	0	SOFP 1st Fl @ Zone 13	30JAN07	8FEB07	31JAN08	11FEB08	255
13000180	8	8	0	SOFP 2nd Fl & Roof @ Zone 13	26FEB07	7MAR07	12FEB08	22FEB08	245
13000190	10	10	0	Detail Edges &Shoot Shear Studs 2nd Fl @ Zone 13	13DEC06	27DEC06	3AUG07	16AUG07	162
13000200	15	15	0	Detail Edges Roof @ Zone 13	5JAN07	25JAN07	17AUG07	7SEP07	157
14000010	13	13	0	Fill Piles @ Cc Zone 14	28MAR06	13APR06	10AUG07	28AUG07	349
14000020	16	16	0	Build Pile Caps @ Cc Zone 14	14APR06	5MAY06	29AUG07	20SEP07	349
14000030	21	21	0	Build Grade Beams @ Cc Zone 14	8MAY06	6JUN06	21SEP07	19OCT07	349
14000040	12	12	0	Install UG Plumbing @ Cc Zone 14	15MAY06	31MAY06	10OCT08	27OCT08	612
14000050	22	22	0	Install Underslab Electrical @ Cc Zone 14	15MAY06	14JUN06	10OCT08	10NOV08	612
14000060	12	12	0	Backfill & Install Vapor Barrier @ Cc Zone 14	15JUN06	30JUN06	11NOV08	26NOV08	612
14000080	12	12	0	Place SOG @ Cc Zone 14	3JUL06	19JUL06	28NOV08	15DEC08	612
14000090	7	7	0	Erect Steel @ Zone 14	29NOV06	7DEC06	16DEC08	24DEC08	520
15000010	8	8	0	Fill Piles @ Cc Zone 15	22MAR06	31MAR06	11SEP07	20SEP07	374
15000020	8	8	0	Build Pile Caps @ Cc Zone 15	3APR06	12APR06	21SEP07	2OCT07	374
15000030	13	13	0	Build Grade Beams @ Cc Zone 15	13APR06	1MAY06	3OCT07	19OCT07	374
15000040	10	10	0	Install UG Plumbing @ Cc Zone 15	20APR06	3MAY06	30OCT08	12NOV08	643
15000050	20	20	0	Install Underslab Electrical @ Cc Zone 15	20APR06	17MAY06	30OCT08	26NOV08	643
15000060	9	9	0	Backfill & Install Vapor Barrier @ Cc Zone 15	18MAY06	31MAY06	28NOV08	10DEC08	643
15000080	10	10	0	Place SOG @ Cc Zone 15	1JUN06	14JUN06	11DEC08	24DEC08	643
15000090	10	10	0	Erect Steel @ Zone 15	8DEC06	21DEC06	26DEC08	9JAN09	520
16000010	10	10	0	Fill Piles @ Cc Zone 16	7APR06	20APR06	23AUG06	6SEP06	96
16000020	12	12	0	Build Pile Caps @ Cc Zone 16	21APR06	8MAY06	7SEP06	22SEP06	96
16000030	14	14	0	Build Grade Beams @ Cc Zone 16	9MAY06	26MAY06	25SEP06	12OCT06	96
16000040	12	12	0	Install UG Plumbing @ Cc Zone 16	16MAY06	1JUN06	2OCT06	17OCT06	96

ACTIVITY ID	ORIG DUR	REM DUR	%	ACTIVITY DESCRIPTION	EARLY START	EARLY FINISH	LATE START	LATE FINISH	TOTAL FLOAT
16000050	17	17	0	Install Underslab Electrical @ Cc Zone 16	16MAY06	8JUN06	2OCT06	24OCT06	96
16000060	12	12	0	Backfill & Install Vapor Barrier @ Cc Zone 16	9JUN06	26JUN06	25OCT06	9NOV06	96
16000070	17	17	0	Build Foundation Walls @ Cc Zone 16	27JUN06	20JUL06	10NOV06	5DEC06	96
16000080	12	12	0	Place SOG @ Cc Zone 16	21JUL06	7AUG06	6DEC06	21DEC06	96
16000090	5	5	0	Erect Steel @ Zone 16	22DEC06	29DEC06	12JAN09	16JAN09	520
EW10100	94	94	0	Prepare Package EW-10: Hydrant Fueling	24JAN05*	6JUN05	25APR05	6SEP05	64
EW1010020	10	10	0	TCCo Prep Bid Pkge Asbestos & Demo	21JAN05	3FEB05	5AUG05	18AUG05	137
EW1010030	5	5	0	A/E Appr Scope Asbestos & Demo	4FEB05	10FEB05	19AUG05	25AUG05	137
EW1010040	0	0	0	BID PKGE SENT ASBESTOS & DEMO		10FEB05		25AUG05	137
EW1010050	15	15	0	Subs Prep Bids Asbestos & Demo	11FEB05	4MAR05	26AUG05	16SEP05	137
EW1010060	0	0	0	SUBMIT BIDS ASBESTOS & DEMO		4MAR05		16SEP05	137
EW1010070	20	20	0	Review Bids Asbestos & Demo	7MAR05	1APR05	19SEP05	14OCT05	137
EW1010080	0	0	0	AWARD ASBESTOS & DEMO		1APR05		14OCT05	137
EW1010140	2	2	0	TCCo Prep Bid Pkge Site Fence	1APR05	4APR05	28JUL05	29JUL05	82
EW1010150	2	2	0	A/E Appr Scope Site Fence	5APR05	6APR05	1AUG05	2AUG05	82
EW1010160	0	0	0	BID PKGE SENT SITE FENCE		6APR05		2AUG05	82
EW1010170	3	3	0	Subs Prep Bids Site Fence	7APR05	11APR05	3AUG05	5AUG05	82
EW1010180	0	0	0	SUBMIT BIDS SITE FENCE		11APR05		5AUG05	82
EW1010190	4	4	0	Review Bids Site Fence	12APR05	15APR05	8AUG05	11AUG05	82
EW1010200	0	0	0	AWARD SITE FENCE		15APR05		11AUG05	82
EW1010210	10	10	0	Procure/Deliver Site Fence	18APR05	29APR05	12AUG05	25AUG05	82
EW1010260	10	10	0	TCCo Prep Bid Pkge Site Trailer	18APR05*	29APR05	14JUL05	27JUL05	61
EW1010270	5	5	0	A/E Appr Scope Site Trailer	2MAY05	6MAY05	28JUL05	3AUG05	61
EW1010280	0	0	0	BID PKGE SENT SITE TRAILER		6MAY05		3AUG05	61
EW1010290	5	5	0	Subs Prep Bids Site Trailer	9MAY05	13MAY05	4AUG05	10AUG05	61
EW1010300	0	0	0	SUBMIT BIDS SITE TRAILER		13MAY05		10AUG05	61
EW1010310	5	5	0	Review Bids Site Trailer	16MAY05	20MAY05	11AUG05	17AUG05	61
EW1010320	0	0	0	AWARD SITE TRAILER		20MAY05		17AUG05	61
EW1010330	95	95	0	Submit Site Trailer Shop Drwgs	23MAY05	5OCT05	18AUG05	3JAN06	61
EW1010340	40	40	0	Appr Site Trailer Shop Drwgs	31AUG05	26OCT05	28NOV05	24JAN06	61
EW1010350	45	45	0	Proc/Del Site Trailer	13OCT05	15DEC05	11JAN06	15MAR06	61
EW1010360	10	10	0	TCCo Issue Addendum Site Prep	19MAY05	2JUN05	16JUN05	29JUN05	19
EW1010370	10	10	0	Revise Bid Per Addn Site Prep	3JUN05	16JUN05	30JUN05	14JUL05	19
EW1010380	15	15	0	TCCo Prep Bid Pkge Site Prep	28FEB05	18MAR05	20APR05	10MAY05	37
EW1010390	5	5	0	A/E Appr Scope Site Prep	21MAR05	25MAR05	11MAY05	17MAY05	37
EW1010400	0	0	0	BID PKGE SENT SITE PREP		25MAR05		17MAY05	37
EW1010410	20	20	0	Subs Prep Bids Site Prep	28MAR05	22APR05	18MAY05	15JUN05	37
EW1010420	0	0	0	SUBMIT BIDS SITE PREP		22APR05		15JUN05	37
EW1010430	12	12	0	Review Bids Site Prep	17JUN05	5JUL05	15JUL05	1AUG05	19
EW1010440	0	0	0	AWARD SITE PREP		20JUL05		1AUG05	8
EW1010450	90	90	0	Submit Site Drainage Shop Drwgs	21JUL05	25NOV05	2AUG05	7DEC05	8
EW1010460	40	40	0	Appr Site Drainage Shop Drwgs	21OCT05	16DEC05	2NOV05	29DEC05	8
EW1010470	60	60	0	Coordinate & Fabricate Pre-Cast Site Drainage	4NOV05	31JAN06	16AUG06	8NOV06	197
EW1010480	5	5	0	TCCo Issue Addendum Departures Roadway	21OCT05	27OCT05	21FEB07	27FEB07	337
EW1010490	5	5	0	Revise Bid Per Addn Departures Roadway	28OCT05	3NOV05	28FEB07	6MAR07	337
EW1010500	10	10	0	TCCo Prep Bid Pkge Departures Roadway	25AUG05	8SEP05	9JAN07	22JAN07	347
EW1010510	5	5	0	A/E Appr Scope Departures Roadway	9SEP05	15SEP05	23JAN07	29JAN07	347
EW1010520	0	0	0	BID PKGE SENT DEAPRTURES ROADWAY		15SEP05		29JAN07	347
EW1010530	15	15	0	Subs Prep Bids Departures Roadway	16SEP05	6OCT05	30JAN07	20FEB07	347
EW1010540	0	0	0	SUBMIT BIDS DEAPRTURES ROADWAY		6OCT05		20FEB07	347
EW1010550	10	10	0	Review Bids Departures Roadway	4NOV05	17NOV05	7MAR07	20MAR07	337
EW1010560	0	0	0	AWARD DEPARTURES ROADWAY		17NOV05		20MAR07	337
EW1010570	90	90	0	Submit Roadway Pre-Cast Shop Drwgs	18NOV05	29MAR06	21MAR07	26JUL07	337
EW1010580	90	90	0	Appr Roadway Pre-Cast Shop Drwgs	19DEC05	26APR06	18APR07	23AUG07	337
EW1010590	110	110	0	Coordinate & Fabricate Roadway Pre-Cast	18JAN06	22JUN06	16MAY07	19OCT07	337
EW1010600	10	10	0	TCCo Issue Addendum Landside Roadways	21FEB06	6MAR06	13FEB07	27FEB07	249
EW1010610	10	10	0	Revise Bid Per Addn Landside Roadways	28FEB06	13MAR06	21FEB07	6MAR07	249
EW1010620	10	10	0	TCCo Prep Bid Pkge Landside Roadways	9JAN06*	20JAN06	2JAN07	15JAN07	249
EW1010630	10	10	0	A/E Appr Scope Landside Roadways	23JAN06	3FEB06	16JAN07	29JAN07	249
EW1010640	0	0	0	BID PKGE SENT LANDSIDE ROADWAYS		3FEB06		29JAN07	249
EW1010650	10	10	0	Subs Prep Bids Landside Roadways	6FEB06	17FEB06	30JAN07	12FEB07	249
EW1010660	0	0	0	SUBMIT BIDS LANDSIDE ROADWAYS		17FEB06		12FEB07	249
EW1010670	10	10	0	Review Bids Landside Roadways	14MAR06	27MAR06	7MAR07	20MAR07	249
EW1010680	0	0	0	AWARD LANDSIDE ROADWAYS		27MAR06		20MAR07	249
EW1010690	90	90	0	Submit Landside Roadways Shop Drwgs	28MAR06	2AUG06	21MAR07	26JUL07	249
EW1010700	90	90	0	Appr Landside Roadways Shop Drwgs	25APR06	30AUG06	18APR07	23AUG07	249
EW1010710	110	110	0	Coordinate & Fabricate Landside Roadways Matls	23MAY06	26OCT06	16MAY07	19OCT07	249

ACTIVITY ID	ORIG DUR	REM DUR	%	ACTIVITY DESCRIPTION	EARLY START	EARLY FINISH	LATE START	LATE FINISH	TOTAL FLOAT
EW1010720	5	5	0	TCCo Issue Addendum Exterior Lighting	10APR06	14APR06	9NOV06	15NOV06	150
EW1010730	5	5	0	Revise Bid Per Addn Exterior Lighting	17APR06	21APR06	16NOV06	22NOV06	150
EW1010740	10	10	0	TCCo Prep Bid Pkge Exterior Lighting	27FEB06*	10MAR06	28SEP06	11OCT06	150
EW1010750	5	5	0	A/E Appr Scope Exterior Lighting	13MAR06	17MAR06	12OCT06	18OCT06	150
EW1010760	0	0	0	BID PKGE SENT EXTERIOR LIGHTING		17MAR06		18OCT06	150
EW1010770	15	15	0	Subs Prep Bids Exterior Lighting	20MAR06	7APR06	19OCT06	8NOV06	150
EW1010780	0	0	0	SUBMIT BIDS EXTERIOR LIGHTING		7APR06		8NOV06	150
EW1010790	10	10	0	Review Bids Exterior Lighting	24APR06	5MAY06	24NOV06	7DEC06	150
EW1010800	0	0	0	AWARD EXTERIOR LIGHTING		5MAY06		7DEC06	150
EW1010810	40	40	0	Submit Exterior Lighting Shop Drwgs	8MAY06	3JUL06	8DEC06	5FEB07	150
EW1010820	40	40	0	Appr Exterior Lighting Shop Drwgs	30MAY06	25JUL06	2JAN07	27FEB07	150
EW1010830	100	100	0	Coordinate & Fabricate Exterior Lighting	26JUL06	14DEC06	28FEB07	19JUL07	150
EW1010840	5	5	0	TCCo Issue Addendum Exterior Signage	10APR06	14APR06	9JAN07	15JAN07	190
EW1010850	5	5	0	Revise Bid Per Addn Exterior Signage	17APR06	21APR06	16JAN07	22JAN07	190
EW1010860	10	10	0	TCCo Prep Bid Pkge Exterior Signage	27FEB06*	10MAR06	24NOV06	7DEC06	190
EW1010870	5	5	0	A/E Appr Scope Exterior Signage	13MAR06	17MAR06	8DEC06	14DEC06	190
EW1010880	0	0	0	BID PKGE SENT EXTERIOR SIGNAGE		17MAR06		14DEC06	190
EW1010890	15	15	0	Subs Prep Bids Exterior Signage	20MAR06	7APR06	15DEC06	8JAN07	190
EW1010900	0	0	0	SUBMIT BIDS EXTERIOR SIGNAGE		7APR06		8JAN07	190
EW1010910	10	10	0	Review Bids Exterior Signage	24APR06	5MAY06	23JAN07	5FEB07	190
EW1010920	0	0	0	AWARD EXTERIOR SIGNAGE		5MAY06		5FEB07	190
EW1010930	30	30	0	Submit Exterior Signage Shop Drwgs	8MAY06	19JUN06	6FEB07	20MAR07	190
EW1010940	40	40	0	Appr Exterior Signage Shop Drwgs	30MAY06	25JUL06	28FEB07	24APR07	190
EW1010950	60	60	0	Coordinate & Fabricate Exterior Signage	26JUL06	18OCT06	25APR07	19JUL07	190
EW1010960	5	5	0	TCCo Issue Addendum Landscaping	22MAY06	26MAY06	4APR07	10APR07	220
EW1010970	5	5	0	Revise Bid Per Addn Landscaping	30MAY06	5JUN06	11APR07	17APR07	220
EW1010980	10	10	0	TCCo Prep Bid Pkge Landscaping	10APR06*	21APR06	21FEB07	6MAR07	220
EW1010990	5	5	0	A/E Appr Scope Landscaping	24APR06	28APR06	7MAR07	13MAR07	220
EW1011000	0	0	0	BID PKGE SENT LANDSCAPING		28APR06		13MAR07	220
EW1011010	15	15	0	Subs Prep Bids Landscaping	1MAY06	19MAY06	14MAR07	3APR07	220
EW1011020	0	0	0	SUBMIT BIDS LANDSCAPING		19MAY06		3APR07	220
EW1011030	10	10	0	Review Bids Landscaping	6JUN06	19JUN06	18APR07	1MAY07	220
EW1011040	0	0	0	AWARD LANDSCAPING		19JUN06		1MAY07	220
EW1011050	20	20	0	Submit Landscaping Shop Drwgs	20JUN06	18JUL06	2MAY07	30MAY07	220
EW1011060	20	20	0	Appr Landscaping Shop Drwgs	12JUL06	8AUG06	23MAY07	20JUN07	220
EW1011070	20	20	0	Procure Landscaping Matls	9AUG06	6SEP06	21JUN07	19JUL07	220
EW1011080	10	10	0	TCCo Issue Addendum Site Utilities	26OCT05	8NOV05	20DEC05	4JAN06	38
EW1011090	10	10	0	Revise Bid Per Addn Site Utilities	2NOV05	15NOV05	28DEC05	11JAN06	38
EW1011100	10	10	0	TCCo Prep Bid Pkge Site Utilities	14SEP05	27SEP05	7NOV05	18NOV05	38
EW1011110	5	5	0	A/E Appr Scope Site Utilities	28SEP05	4OCT05	21NOV05	28NOV05	38
EW1011120	0	0	0	BID PKGE SENT SITE UTILITIES		4OCT05		28NOV05	38
EW1011130	15	15	0	Subs Prep Bids Site Utilities	5OCT05	25OCT05	29NOV05	19DEC05	38
EW1011140	0	0	0	SUBMIT BIDS SITE UTILITIES		25OCT05		19DEC05	38
EW1011150	10	10	0	Review Bids Site Utilities	16NOV05	30NOV05	12JAN06	25JAN06	38
EW1011160	0	0	0	AWARD SITE UTILITIES		30NOV05		25JAN06	38
EW1011170	30	30	0	Submit Site Utilities Shop Drwgs	1DEC05	13JAN06	26JAN06	9MAR06	38
EW1011180	40	40	0	Appr Site Utilities Shop Drwgs	22DEC05	17FEB06	16FEB06	13APR06	38
EW1011190	40	40	0	Coordinate & Fab/Proc Site Utilities Matls	16JAN06	13MAR06	10MAR06	4MAY06	38
EW1011200	90	90	0	Coordinate & Fabricate Pipe for Site Drainage	5DEC05	12APR06	14SEP06	22JAN07	197
EW101200	10	10	0	TCCo Issue Addendum Pavement	23NOV05	7DEC05	23JAN07	5FEB07	294
EW101210	10	10	0	Revise Bid Per Addn Pavement	1DEC05	14DEC05	30JAN07	12FEB07	294
EW101220	10	10	0	TCCo Prep Bid Pkge Pavement	12OCT05	25OCT05	8DEC06	21DEC06	294
EW101230	5	5	0	A/E Appr Scope Pavement	26OCT05	1NOV05	22DEC06	29DEC06	294
EW101240	0	0	0	BID PKGE SENT PAVEMENT		1NOV05		29DEC06	294
EW101250	15	15	0	Subs Prep Bids Pavement	2NOV05	22NOV05	2JAN07	22JAN07	294
EW101260	0	0	0	SUBMIT BIDS PAVEMENT		22NOV05		22JAN07	294
EW101270	10	10	0	Review Bids Pavement	15DEC05	29DEC05	13FEB07	27FEB07	294
EW101280	0	0	0	AWARD PAVEMENT		29DEC05		27FEB07	294
EW101290	20	20	0	Submit Pavement Shop Drwgs	30DEC05	27JAN06	28FEB07	27MAR07	294
EW101300	20	20	0	Appr Pavement Shop Drwgs	23JAN06	17FEB06	21MAR07	17APR07	294
EW101320	10	10	0	TCCo Issue Addendum External Works	4APR06	17APR06	24NOV06	7DEC06	164
EW101330	10	10	0	Revise Bid Per Addn External Works	11APR06	24APR06	1DEC06	14DEC06	164
EW101340	10	10	0	TCCo Prep Bid Pkge External Works	21FEB06*	6MAR06	12OCT06	25OCT06	164
EW101350	5	5	0	A/E Appr Scope External Works	7MAR06	13MAR06	26OCT06	1NOV06	164
EW101360	0	0	0	BID PKGE SENT EXTERNAL WORKS		13MAR06		1NOV06	164
EW101370	15	15	0	Subs Prep Bids External Works	14MAR06	3APR06	2NOV06	22NOV06	164
EW101380	0	0	0	SUBMIT BIDS EXTERNAL WORKS		3APR06		22NOV06	164

ACTIVITY ID	ORIG DUR	REM DUR	%	ACTIVITY DESCRIPTION	EARLY START	EARLY FINISH	LATE START	LATE FINISH	TOTAL FLOAT
EW101390	10	10	0	Review Bids External Works	25APR06	8MAY06	15DEC06	29DEC06	164
EW101400	0	0	0	AWARD EXTERNAL WORKS		8MAY06		29DEC06	164
EW101410	30	30	0	Submit External Works Shop Drwgs	9MAY06	20JUN06	2JAN07	12FEB07	164
EW101420	20	20	0	Appr External Works Shop Drwgs	14JUN06	12JUL06	6FEB07	6MAR07	164
EW101430	30	30	0	Coordinate & Fabricate External Works Matls	13JUL06	23AUG06	7MAR07	17APR07	164
EW10150	0	0	0	SUBMIT TAA EW-10: Hydrant Fueling	1APR05		1JUL05		64
EW101650	90	90	0	Submit Utility Removal/Relocation Shop Drwgs	21JUL05	25NOV05	2AUG05	7DEC05	8
EW101660	40	40	0	Appr Utility Removal/Relocation Shop Drwgs	21OCT05	16DEC05	2NOV05	29DEC05	8
EW101770	90	90	0	Submit Site Utilities Shop Drwgs	21JUL05	25NOV05	2AUG05	7DEC05	8
EW101780	40	40	0	Appr Site Utilities Shop Drwgs	21OCT05	16DEC05	2NOV05	29DEC05	8
EW101790	60	60	0	Coordinate & Fabricate Wire for New 5kv Elect	4NOV05	31JAN06	21APR06	17JUL06	116
EW101800	5	5	0	TCCo Issue Addendum Hydrant Fueling	7OCT05	13OCT05	27JAN06	2FEB06	77
EW101810	5	5	0	Revise Bid Per Addn Hydrant Fueling	14OCT05	20OCT05	3FEB06	9FEB06	77
EW101820	10	10	0	TCCo Prep Bid Pkge Hydrant Fueling	25AUG05	8SEP05	14DEC05	28DEC05	77
EW101830	5	5	0	A/E Appr Scope Hydrant Fueling	9SEP05	15SEP05	29DEC05	5JAN06	77
EW101840	0	0	0	BID PKGE SENT HYDRANT FUELING		15SEP05		5JAN06	77
EW101850	15	15	0	Subs Prep Bids Hydrant Fueling	16SEP05	6OCT05	6JAN06	26JAN06	77
EW101860	0	0	0	SUBMIT BIDS HYDRANT REFUELING		6OCT05		26JAN06	77
EW101870	5	5	0	Review Bids Hydrant Fueling	21OCT05	27OCT05	10FEB06	16FEB06	77
EW101880	0	0	0	AWARD HYDRANT FUELING		27OCT05		16FEB06	77
EW101890	90	90	0	Submit Hydrant Fueling Shop Drwgs	28OCT05	8MAR06	17FEB06	26JUN06	77
EW101900	90	90	0	Appr Hydrant Fueling Shop Drwgs	18NOV05	29MAR06	13MAR06	18JUL06	77
EW101910	120	120	0	*Coordinate & Fabricate Hydrant Fueling Matls*	*4JAN06*	*22JUN06*	*24APR06*	*11OCT06*	77
EW10200	49	49	0	PA Review TAA EW-10: Hydrant Fueling	1APR05	9JUN05	1JUL05	9SEP05	64
EW10210	0	0	0	PA ISSUE RIDER A TAA EW-10: Hydrant Fueling	10JUN05		12SEP05		64
EW10220	53	53	0	Design Team Inc Rider A EW-10: Hydrant Fueling	10JUN05	24AUG05	12SEP05	23NOV05	64
EW10230	14	14	0	PA Rev RIDER A Comments TAA EW-10: Hydrant Fuel	25AUG05	14SEP05	25NOV05	14DEC05	64
EW10250	0	0	0	PA ISSUE NTP EW-10: Hydrant Fueling		28SEP05		29DEC05	64
EW1100	160	160	0	Prepare Package EW-1: Asbestos	19OCT04*	6JUN05	8MAR05	20OCT05	96
EW1150	0	0	0	SUBMIT TAA EW-1: Asbestos	27APR05		13SEP05		96
EW1200	19	19	0	PA Review TAA EW-1: Asbestos	27APR05	23MAY05	13SEP05	7OCT05	96
EW1210	0	0	0	PA ISSUE RIDER A TAA EW-1 Asbestos	24MAY05		10OCT05		96
EW1250	0	0	0	PA ISSUE NTP EW-1: Asbestos		31MAY05		14OCT05	96
EW2100	79	79	0	Prepare Package EW-2: Construction Security	24JAN05*	13MAY05	18MAY05	8SEP05	81
EW2150	0	0	0	SUBMIT TAA EW-2: Construction Security	1APR05		27JUL05		81
EW2200	12	12	0	PA Review TAA EW-2: Construction Security	1APR05	18APR05	27JUL05	11AUG05	81
EW2210	0	0	0	PA ISSUE RIDER A TAA EW-2: Construction Security	19APR05		12AUG05		81
EW2220	10	10	0	Design Team Inc Rider A EW-2: Construction Sec	19APR05	2MAY05	12AUG05	25AUG05	81
EW2250	0	0	0	PA ISSUE NTP EW-2: Construction Security		2MAY05		25AUG05	81
EW3100	156	156	0	Prepare Package EW-3: Site Trailer	24JAN05*	1SEP05	21JUN05	31JAN06	104
EW3150	0	0	0	SUBMIT TAA EW-3: Site Trailer	2SEP05		1FEB06		104
EW3200	14	14	0	PA Review TAA EW-3: Site Trailer	2SEP05	22SEP05	1FEB06	21FEB06	104
EW3210	0	0	0	PA ISSUE RIDER A TAA EW-3: Site Trailer	23SEP05		22FEB06		104
EW3220	10	10	0	Design Team Inc Rider A TAA EW-3: Site Trailer	23SEP05	6OCT05	22FEB06	7MAR06	104
EW3250	0	0	0	PA ISSUE NTP EW-3: Site Trailer		14OCT05		15MAR06	104
EW4100	100	100	0	Prepare Package EW-4: Demolition	25OCT04*	17MAR05	22NOV04	14APR05	20
EW4150	0	0	0	SUBMIT TAA EW-4: Demolition	21JAN05		18FEB05		20
EW4200	90*	90*	0	PA Review TAA EW-4: Demolition	21JAN05	27MAY05	18FEB05	27JUN05	20
EW4210	0	0	0	PA ISSUE RIDER A TAA EW-4: Demolition	14MAR05		11APR05		20
EW4220	35	35	0	Design Team Inc Rider A TAA EW-4: Demolition	14MAR05	29APR05	11APR05	27MAY05	20
EW4230	20	20	0	Design Team Inc Rider B TAA EW-4: Demolition	8JUL05	4AUG05	5AUG05	1SEP05	20
EW4240	47	47	0	PA ISSUE RIDER B TAA EW-4: Demolition	2MAY05	7JUL05	31MAY05	4AUG05	20
EW4250	0	0	0	PA ISSUE NTP EW-4: Demolition		16SEP05		14OCT05	20
EW4260	20	20	0	PA Review RIDER B Response TAA EW-4: Demolition	5AUG05	1SEP05	2SEP05	30SEP05	20
EW5100	130	130	0	Prepare Package EW-5: Site Preparation	19OCT04*	22APR05	29OCT04	4MAY05	8
EW5150	0	0	0	SUBMIT TAA EW-5: Site Preparation	28FEB05		10MAR05		8
EW5200	40	40	0	PA Review TAA EW-5: Site Preparation	28FEB05	22APR05	10MAR05	4MAY05	8
EW5210	0	0	0	PA ISSUE RIDER A TAA EW-5: Site Preparation	15APR05		27APR05		8
EW5220	24	24	0	Design Team Inc Rider A EW-5: Site Preparation	15APR05	18MAY05	27APR05	31MAY05	8
EW5230	16	16	0	Design Team Inc Rider B EW-5: Site Preparation	11JUL05	1AUG05	24AUG05	15SEP05	32
EW5240	35	35	0	PA ISSUE RIDER B TAA EW-5: Site Preparation	19MAY05	8JUL05	1JUN05	20JUL05	8
EW5250	0	0	0	PA ISSUE NTP EW-5: Site Preparation		19SEP05		2NOV05	32
EW5260	25	25	0	PA Review RIDER B Comments TAA EW-5: Site Prep	2AUG05	6SEP05	16SEP05	20OCT05	32
EW7100	150	150	0	Prepare Package EW-7: Landside Civil Works	24JAN05*	24AUG05	21DEC05	25JUL06	232
EW7150	0	0	0	SUBMIT TAA EW-7: Landside Civil Works	25AUG05		26JUL06		232
EW7200	29	29	0	PA Review TAA EW-7: Landside Civil Works	25AUG05	5OCT05	26JUL06	5SEP06	232
EW7210	0	0	0	PA ISSUE RIDER A EW-7: Landside Civil Works	6OCT05		6SEP06		232

ACTIVITY ID	ORIG DUR	REM DUR	%	ACTIVITY DESCRIPTION	EARLY START	EARLY FINISH	LATE START	LATE FINISH	TOTAL FLOAT
EW7220	11	11	0	Design Team Inc Rider A EW-7: Landside Civil	6OCT05	20OCT05	6SEP06	20SEP06	232
EW7250	0	0	0	PA ISSUE NTP EW-7: Landside Civil Works		3NOV05		4OCT06	232
EW8100	94	94	0	Prepare Pckge EW-8: Airside Civil/Term Interface	24JAN05*	6JUN05	18MAR05	29JUL05	38
EW8150	0	0	0	SUBMIT TAA EW-8: Airside Civil/Term Interface	1APR05		25MAY05		38
EW8200	48	48	0	PA Review TAA EW-8: Airside Civil/Term Interface	1APR05	8JUN05	25MAY05	2AUG05	38
EW8210	0	0	0	PA ISSUE RIDER A EW-8: Airside Civil/Term Inter	9JUN05		3AUG05		38
EW8220	47	47	0	Design Team Inc Rider A EW-8: Airside Civil/Term	9JUN05	15AUG05	3AUG05	7OCT05	38
EW8230	20	20	0	PA Review RIDER A Comments EW-8: Airside Civil	16AUG05	13SEP05	10OCT05	4NOV05	38
EW8250	0	0	0	PA ISSUE NTP EW-8: Airside Civil/Term Interface		27SEP05		7APR06	134
EW9100	104	104	0	Prepare Package EW-9: External Works Finishing	27JUN05*	21NOV05	19APR06	14SEP06	206
EW9150	0	0	0	SUBMIT TAA EW-9: External Works Finishing	26SEP05		19JUL06		206
EW9200	29	29	0	PA Review TAA EW-9: External Works Finishing	26SEP05	3NOV05	19JUL06	28AUG06	206
EW9210	0	0	0	PA ISSUE RIDER A TAA EW-9: Ext Works Finishing	4NOV05		29AUG06		206
EW9220	12	12	0	Design Team Inc Rider A EW-9: Ext Works Finish	4NOV05	21NOV05	29AUG06	14SEP06	206
EW9250	0	0	0	PA ISSUE NTP EW-9: External Works Finishing		12DEC05		4OCT06	206
T10100	155	155	0	Prepare Package T-10: Communication & IT	10JAN05*	17AUG05	3JUN05	12JAN06	102
T101020	5	5	0	TCCo Prep Bid Pkge Piles	16MAY05	20MAY05	15JUN05	21JUN05	21
T101030	5	5	0	A/E Appr Scope Piles	23MAY05	27MAY05	22JUN05	28JUN05	21
T101040	0	0	0	BID PKGE SENT PILES		27MAY05		28JUN05	21
T101050	5	5	0	Subs Prep Bids Piles	31MAY05	6JUN05	29JUN05	6JUL05	21
T101060	0	0	0	SUBMIT BIDS PILES		6JUN05		6JUL05	21
T101070	5	5	0	Review Bids Piles	7JUN05	13JUN05	7JUL05	13JUL05	21
T101080	0	0	0	AWARD PILES		13JUN05		13JUL05	21
T101090	98	98	0	Submit Piles Shop Drwgs	14JUN05	31OCT05	16AUG05	4JAN06	44
T101100	90	90	0	Appr Piles Shop Drwgs	18JUL05	21NOV05	19SEP05	25JAN06	44
T101110	100	100	0	Coordinate & Fabricate Production Piles	15SEP05	6FEB06	17OCT05	9MAR06	22
T101120	15	15	0	TCCo Issue Addendum Foundations	19AUG05	9SEP05	21SEP05	11OCT05	22
T101130	15	15	0	Revise Bid Per Addn Foundations	12SEP05	30SEP05	12OCT05	1NOV05	22
T101140	10	10	0	TCCo Prep Bid Pkge Foundations	16MAY05	27MAY05	2AUG05	15AUG05	54
T101150	5	5	0	A/E Appr Scope Foundations	31MAY05	6JUN05	16AUG05	22AUG05	54
T101160	0	0	0	BID PKGE SENT FOUNDATIONS		6JUN05		22AUG05	54
T101170	20	20	0	Subs Prep Bids Foundations	7JUN05	5JUL05	23AUG05	20SEP05	54
T101180	0	0	0	SUBMIT BIDS FOUNDATIONS		5JUL05		20SEP05	54
T101190	20	20	0	Review Bids Foundations	3OCT05	28OCT05	2NOV05	30NOV05	22
T101200	0	0	0	AWARD FOUNDATIONS		28OCT05		30NOV05	22
T101210	60	60	0	Submit Foundations Shop Drwgs	31OCT05	25JAN06	1DEC05	27FEB06	22
T101220	60	60	0	Appr Foundations Shop Drwgs	29NOV05	23FEB06	30DEC05	27MAR06	22
T101230	56	56	0	Submit Piles Shop Drwgs for Load Test	14JUN05	31AUG05	14JUL05	30SEP05	21
T101240	10	10	0	TCCo Issue Addendum Underslab Electrical	10OCT05	21OCT05	8NOV05	21NOV05	21
T101250	10	10	0	Revise Bid Per Addn Underslab Electric	24OCT05	4NOV05	22NOV05	6DEC05	21
T101260	10	10	0	TCCo Prep Bid Pkge Underslab Electrical	26AUG05	9SEP05	27SEP05	10OCT05	21
T101270	5	5	0	A/E Appr Scope Underslab Electrical	12SEP05	16SEP05	11OCT05	17OCT05	21
T101280	0	0	0	BID PKGE SENT UNDERSLAB ELECTRICAL		16SEP05		17OCT05	21
T101290	15	15	0	Subs Prep Bids Underslab Electrical	19SEP05	7OCT05	18OCT05	7NOV05	21
T101300	0	0	0	SUBMIT BIDS UNDERSLAB ELECTRICAL		7OCT05		7NOV05	21
T101310	10	10	0	Review Bids Underslab Electrical	7NOV05	18NOV05	7DEC05	20DEC05	21
T101320	0	0	0	AWARD UNDERSLAB ELECTRICAL		18NOV05		20DEC05	21
T101330	60	60	0	Submit Underslab Electrical Shop Drwgs	21NOV05	15FEB06	21DEC05	17MAR06	21
T101340	60	60	0	Appr Underslab Electrical Shop Drwgs	13DEC05	9MAR06	13JAN06	7APR06	21
T101350	20	20	0	Appr Load Test Piles Shop Drwgs	18AUG05	15SEP05	19SEP05	14OCT05	21
T101360	10	10	0	TCCo Issue Addendum Underslab Plumbing	10OCT05	21OCT05	8NOV05	21NOV05	21
T101370	10	10	0	Revise Bid Per Addn Underslab Plumbing	24OCT05	4NOV05	22NOV05	6DEC05	21
T101380	10	10	0	TCCo Prep Bid Pkge Underslab Plumbing	26AUG05	9SEP05	27SEP05	10OCT05	21
T101390	5	5	0	A/E Appr Scope Underslab Plumbing	12SEP05	16SEP05	11OCT05	17OCT05	21
T101400	0	0	0	BID PKGE SENT UNDERSLAB PLUMBING		16SEP05		17OCT05	21
T101410	15	15	0	Subs Prep Bids Underslab Plumbing	19SEP05	7OCT05	18OCT05	7NOV05	21
T101420	0	0	0	SUBMIT BIDS UNDERSLAB PLUMBING		7OCT05		7NOV05	21
T101430	10	10	0	Review Bids Underslab Plumbing	7NOV05	18NOV05	7DEC05	20DEC05	21
T101440	0	0	0	AWARD UNDERSLAB PLUMBING		18NOV05		20DEC05	21
T101450	60	60	0	Submit Underslab Plumbing Shop Drwgs	21NOV05	15FEB06	21DEC05	17MAR06	21
T101460	60	60	0	Appr Underslab Plumbing Shop Drwgs	13DEC05	9MAR06	13JAN06	7APR06	21
T101470	20	20	0	Coordinate & Fabricate Piles for Load Test	16SEP05	13OCT05	17OCT05	11NOV05	21
T101480	5	5	0	TCCo Issue Addendum Structural Steel	26AUG05	1SEP05	30SEP05	6OCT05	24
T101490	5	5	0	Revise Bid Per Addn Structural Steel	26AUG05	1SEP05	30SEP05	6OCT05	24
T10150	0	0	0	SUBMIT TAA T-10: Communication & IT	18AUG05		13JAN06		102
T101500	10	10	0	TCCo Prep Bid Pkge Structural Steel	11JUL05	22JUL05	18AUG05	31AUG05	28
T101510	5	5	0	A/E Appr Scope Structural Steel	25JUL05	29JUL05	1SEP05	8SEP05	28

ACTIVITY ID	ORIG DUR	REM DUR	%	ACTIVITY DESCRIPTION	EARLY START	EARLY FINISH	LATE START	LATE FINISH	TOTAL FLOAT
T101520	0	0	0	BID PKGE SENT STRUCTURAL STEEL		29JUL05		8SEP05	28
T101530	15	15	0	Subs Prep Bids Structural Steel	1AUG05	19AUG05	9SEP05	29SEP05	28
T101540	0	0	0	SUBMIT BIDS STRUCTURAL STEEL		19AUG05		29SEP05	28
T101550	10	10	0	Review Bids Structural Steel	2SEP05	16SEP05	7OCT05	20OCT05	24
T101560	0	0	0	AWARD STRUCTURAL STEEL		16SEP05		20OCT05	24
T101570	65	65	0	Mill Order for Piles	14JUN05	14SEP05	15JUL05	14OCT05	22
T101580	60	60	0	Coordinate Underslab Utilities	28DEC05	23MAR06	27JAN06	21APR06	21
T101600	10	10	0	TCCo Issue Addendum Super Concrete	24OCT05	4NOV05	16MAR06	29MAR06	99
T101610	10	10	0	Revise Bid Per Addn Super Concrete	7NOV05	18NOV05	30MAR06	12APR06	99
T101620	10	10	0	TCCo Prep Bid Pkge Super Concrete	12SEP05*	23SEP05	1FEB06	14FEB06	99
T101630	5	5	0	A/E Appr Scope Super Concrete	26SEP05	30SEP05	15FEB06	22FEB06	99
T101640	0	0	0	BID PKGE SENT Super CONCRETE		30SEP05		22FEB06	99
T101650	15	15	0	Subs Prep Bids Super Concrete	3OCT05	21OCT05	23FEB06	15MAR06	99
T101660	0	0	0	SUBMIT BIDS Super CONCRETE		21OCT05		15MAR06	99
T101670	10	10	0	Review Bids Super Concrete	21NOV05	5DEC05	13APR06	26APR06	99
T101680	0	0	0	AWARD Superstucture CONCRETE		5DEC05		26APR06	99
T101690	69	69	0	Submit Superstructure Concrete Shop Drwgs	6DEC05	15MAR06	27APR06	3AUG06	99
T101700	50	50	0	Appr Superstructure Concrete Shop Drwgs	25JAN06	5APR06	15JUN06	24AUG06	99
T101710	20	20	0	Deliver Superstructure Concrete	6APR06	3MAY06	25AUG06	22SEP06	99
T101720	10	10	0	TCCo Issue Addendum SOFP	26SEP05	7OCT05	20DEC05	4JAN06	60
T101730	10	10	0	Revise Bid Per Addn SOFP	10OCT05	21OCT05	5JAN06	18JAN06	60
T101740	10	10	0	TCCo Prep Bid Pkge SOFP	12AUG05*	25AUG05	7NOV05	18NOV05	60
T101750	5	5	0	A/E Appr Scope SOFP	26AUG05	1SEP05	21NOV05	28NOV05	60
T101760	0	0	0	BID PKGE SENT SOFP		1SEP05		28NOV05	60
T101770	15	15	0	Subs Prep Bids SOFP	2SEP05	23SEP05	29NOV05	19DEC05	60
T101780	0	0	0	SUBMIT BIDS SOFP		23SEP05		19DEC05	60
T101790	10	10	0	Review Bids SOFP	24OCT05	4NOV05	19JAN06	1FEB06	60
T101800	0	0	0	AWARD SOFP		4NOV05		1FEB06	60
T101810	111	111	0	Submit SOFP Shop Drwgs	7NOV05	14APR06	2FEB06	11JUL06	60
T101820	60	60	0	Appr SOFP Shop Drwgs	10FEB06	5MAY06	8MAY06	1AUG06	60
T101830	49	49	0	Deliver SOFP	8MAY06	17JUL06	2AUG06	10OCT06	60
T101960	5	5	0	TCCo Issue Addendum BHS	10OCT05	14OCT05	9NOV05	15NOV05	22
T101970	5	5	0	Revise Bid Per Addn BHS	10OCT05	14OCT05	9NOV05	15NOV05	22
T101980	10	10	0	TCCo Prep Bid Pkge BHS	12AUG05	25AUG05	28SEP05	11OCT05	32
T101990	5	5	0	A/E Appr Scope BHS	26AUG05	1SEP05	12OCT05	18OCT05	32
T10200	26	26	0	PA Review TAA T-10: Communication & IT	18AUG05	23SEP05	19JAN06	24FEB06	106
T102000	0	0	0	BID PKGE SENT BHS		1SEP05		18OCT05	32
T102010	15	15	0	Subs Prep Bids BHS	2SEP05	23SEP05	19OCT05	8NOV05	32
T102020	0	0	0	SUBMIT BIDS BHS		23SEP05		8NOV05	32
T102030	10	10	0	Review Bids BHS	17OCT05	28OCT05	16NOV05	30NOV05	22
T102040	0	0	0	AWARD BHS		28OCT05		30NOV05	22
T102080	5	5	0	TCCo Issue Addendum Curtainwall	31OCT05	4NOV05	9DEC05	15DEC05	28
T102090	10	10	0	Revise Bid Per Addn Curtainwall	7NOV05	18NOV05	16DEC05	30DEC05	28
T10210	0	0	0	PA ISSUE RIDER A TAA T-10: Communication & IT	26SEP05		27FEB06		106
T102100	10	10	0	TCCo Prep Bid Pkge Curtainwall	19SEP05*	30SEP05	27OCT05	9NOV05	28
T102110	5	5	0	A/E Appr Scope Curtainwall	3OCT05	7OCT05	10NOV05	16NOV05	28
T102120	0	0	0	BID PKGE SENT CURTAINWALL		7OCT05		16NOV05	28
T102130	15	15	0	Subs Prep Bids Curtainwall	10OCT05	28OCT05	17NOV05	8DEC05	28
T102140	0	0	0	SUBMIT BIDS CURTAINWALL		28OCT05		8DEC05	28
T102150	10	10	0	Review Bids Curtainwall	21NOV05	5DEC05	3JAN06	16JAN06	28
T102160	0	0	0	AWARD CURTAINWALL		5DEC05		16JAN06	28
T102170	90	90	0	Submit Curtainwall Shop Drwgs	6DEC05	13APR06	17JAN06	23MAY06	28
T102180	60	60	0	Appr Curtainwall Shop Drwgs	9FEB06	4MAY06	22MAR06	14JUN06	28
T102190	300	300	0	Coordinate & Fabricate Curtainwall	5MAY06	11JUL07	15JUN06	20AUG07	28
T10220	10	10	0	Design Team Inc Rider A TAA T-10: Comm & IT	26SEP05	7OCT05	27FEB06	10MAR06	106
T102200	5	5	0	TCCo Issue Addendum Exterior Masonry	21FEB06	27FEB06	5APR06	11APR06	31
T102210	10	10	0	Revise Bid Per Addn Exterior Masonry	28FEB06	13MAR06	12APR06	25APR06	31
T102220	10	10	0	TCCo Prep Bid Pkge Exterior Masonry	9JAN06*	20JAN06	22FEB06	7MAR06	31
T102230	5	5	0	A/E Appr Scope Exterior Masonry	23JAN06	27JAN06	8MAR06	14MAR06	31
T102240	0	0	0	BID PKGE SENT EXTERIOR MASONRY		27JAN06		14MAR06	31
T102250	15	15	0	Subs Prep Bids Exterior Masonry	30JAN06	17FEB06	15MAR06	4APR06	31
T102260	0	0	0	SUBMIT BIDS EXTERIOR MASONRY		17FEB06		4APR06	31
T102270	10	10	0	Review Bids Exterior Masonry	14MAR06	27MAR06	26APR06	9MAY06	31
T102280	0	0	0	AWARD EXTERIOR MASONRY		27MAR06		9MAY06	31
T102290	50	50	0	Submit Exterior Masonry Shop Drwgs	28MAR06	6JUN06	10MAY06	20JUL06	31
T102300	30	30	0	Appr Exterior Masonry Shop Drwgs	16MAY06	27JUN06	29JUN06	10AUG06	31
T102310	60	60	0	Coordinate & Fabricate Exterior Masonry	28JUN06	21SEP06	11AUG06	3NOV06	31

ACTIVITY ID	ORIG DUR	REM DUR	%	ACTIVITY DESCRIPTION	EARLY START	EARLY FINISH	LATE START	LATE FINISH	TOTAL FLOAT
T102320	5	5	0	TCCo Issue Addendum Metal Panels	31OCT05	4NOV05	16DEC05	22DEC05	33
T102330	10	10	0	Revise Bid Per Addn Metal Panels	7NOV05	18NOV05	23DEC05	9JAN06	33
T102340	10	10	0	TCCo Prep Bid Pkge Metal Panels	19SEP05*	30SEP05	3NOV05	16NOV05	33
T102350	5	5	0	A/E Appr Scope Metal Panels	3OCT05	7OCT05	17NOV05	23NOV05	33
T102360	0	0	0	BID PKGE SENT METAL PANELS		7OCT05		23NOV05	33
T102370	15	15	0	Subs Prep Bids Metal Panels	10OCT05	28OCT05	25NOV05	15DEC05	33
T102380	0	0	0	SUBMIT BIDS METAL PANELS		28OCT05		15DEC05	33
T102390	10	10	0	Review Bids Metal Panels	21NOV05	5DEC05	10JAN06	23JAN06	33
T102400	0	0	0	AWARD METAL PANELS		5DEC05		23JAN06	33
T102410	60	60	0	Submit Metal Panels Shop Drwgs	6DEC05	2MAR06	24JAN06	18APR06	33
T102420	60	60	0	Appr Metal Panels Shop Drwgs	2FEB06	27APR06	22MAR06	14JUN06	33
T102430	250	250	0	Coordinate & Fabricate Metal Panels	28APR06	23APR07	15JUN06	8JUN07	33
T10250	0	0	0	PA ISSUE NTP T-10: Communication & IT		21OCT05		22JAN07	316
T104440	5	5	0	TCCo Issue Addendum Windows	31OCT05	4NOV05	2DEC05	8DEC05	23
T104450	10	10	0	Revise Bid Per Addn Windows	7NOV05	18NOV05	9DEC05	22DEC05	23
T104460	10	10	0	TCCo Prep Bid Pkge Windows	19SEP05*	30SEP05	20OCT05	2NOV05	23
T104470	5	5	0	A/E Appr Scope Windows	3OCT05	7OCT05	3NOV05	9NOV05	23
T104480	0	0	0	BID PKGE SENT WINDOWS		7OCT05		9NOV05	23
T104490	15	15	0	Subs Prep Bids Windows	10OCT05	28OCT05	10NOV05	1DEC05	23
T104500	0	0	0	SUBMIT BIDS WINDOWS		28OCT05		1DEC05	23
T104510	10	10	0	Review Bids Windows	21NOV05	5DEC05	23DEC05	9JAN06	23
T104520	0	0	0	AWARD WINDOWS		5DEC05		9JAN06	23
T104530	50	50	0	Submit Windows Shop Drwgs	6DEC05	15FEB06	10JAN06	21MAR06	23
T104540	40	40	0	Appr Windows Shop Drwgs	12JAN06	9MAR06	14FEB06	11APR06	23
T104550	145	145	0	Coordinate & Fabricate Windows	10MAR06	3OCT06	12APR06	3NOV06	23
T104560	10	10	0	TCCo Issue Addendum Storefronts	21FEB06	6MAR06	15MAR06	28MAR06	16
T104570	10	10	0	Revise Bid Per Addn Storefronts	7MAR06	20MAR06	29MAR06	11APR06	16
T104580	10	10	0	TCCo Prep Bid Pkge Storefronts	9JAN06*	20JAN06	31JAN06	13FEB06	16
T104590	5	5	0	A/E Appr Scope Storefronts	23JAN06	27JAN06	14FEB06	21FEB06	16
T104600	0	0	0	BID PKGE SENT STOREFRONTS		27JAN06		21FEB06	16
T104610	15	15	0	Subs Prep Bids Storefronts	30JAN06	17FEB06	22FEB06	14MAR06	16
T104620	0	0	0	SUBMIT BIDS STOREFRONTS		17FEB06		14MAR06	16
T104630	10	10	0	Review Bids Storefronts	21MAR06	3APR06	12APR06	25APR06	16
T104640	0	0	0	AWARD STOREFRONTS		3APR06		25APR06	16
T104650	60	60	0	Submit Storefronts Shop Drwgs	4APR06	27JUN06	26APR06	20JUL06	16
T104660	40	40	0	Appr Storefronts Shop Drwgs	23MAY06	19JUL06	15JUN06	10AUG06	16
T104670	200	200	0	Coordinate & Fabricate Storefronts	20JUL06	2MAY07	11AUG06	24MAY07	16
T104680	10	10	0	TCCo Issue Addendum Garage Doors	29NOV05	12DEC05	3JAN06	16JAN06	23
T104690	10	10	0	Revise Bid Per Addn Garage Doors	13DEC05	27DEC05	17JAN06	30JAN06	23
T104700	10	10	0	TCCo Prep Bid Pkge OH Doors	17OCT05*	28OCT05	17NOV05	1DEC05	23
T104710	5	5	0	A/E Appr Scope Garage Doors	31OCT05	4NOV05	2DEC05	8DEC05	23
T104720	0	0	0	BID PKGE SENT GARAGE DOORS		4NOV05		8DEC05	23
T104730	15	15	0	Subs Prep Bids Garage Doors	7NOV05	28NOV05	9DEC05	30DEC05	23
T104740	0	0	0	SUBMIT BIDS GARAGE DOORS		28NOV05		30DEC05	23
T104750	10	10	0	Review Bids Garage Doors	29DEC05	11JAN06	31JAN06	13FEB06	23
T104760	0	0	0	AWARD GARAGE DOORS		11JAN06		13FEB06	23
T104770	60	60	0	Submit Garage Doors Shop Drwgs	12JAN06	6APR06	14FEB06	9MAY06	23
T104780	30	30	0	Appr Garage Doors Shop Drwgs	17MAR06	27APR06	19APR06	31MAY06	23
T104790	200	200	0	Coordinate & Fabricate Garage Doors	28APR06	9FEB07	1JUN06	15MAR07	23
T105920	10	10	0	TCCo Issue Addendum Roofing	28FEB06	13MAR06	30MAR06	12APR06	22
T105930	10	10	0	Revise Bid Per Addn Roofing	14MAR06	27MAR06	13APR06	26APR06	22
T105940	10	10	0	TCCo Prep Bid Pkge Roofing	16JAN06*	27JAN06	15FEB06	1MAR06	22
T105950	5	5	0	A/E Appr Scope Roofing	30JAN06	3FEB06	2MAR06	8MAR06	22
T105960	0	0	0	BID PKGE SENT ROOFING		3FEB06		8MAR06	22
T105970	15	15	0	Subs Prep Bids Roofing	6FEB06	27FEB06	9MAR06	29MAR06	22
T105980	0	0	0	SUBMIT BIDS ROOFING		27FEB06		29MAR06	22
T105990	10	10	0	Review Bids Roofing	28MAR06	10APR06	27APR06	10MAY06	22
T106000	0	0	0	AWARD ROOFING		10APR06		10MAY06	22
T106010	34	34	0	Submit Roofing Shop Drwgs	11APR06	26MAY06	11MAY06	28JUN06	22
T106020	30	30	0	Appr Roofing Shop Drwgs	8MAY06	19JUN06	8JUN06	20JUL06	22
T106030	175	175	0	Coordinate & Fabricate Roofing	20JUN06	27FEB07	21JUL06	29MAR07	22
T106040	10	10	0	TCCo Issue Addendum Flight Tube Cladding	20DEC05	4JAN06	3FEB06	16FEB06	31
T106050	10	10	0	Revise Bid Per Addn Flight Tube Claddng	5JAN06	18JAN06	17FEB06	3MAR06	31
T106060	10	10	0	TCCo Prep Bid Pkge Flight Tube Cladding	7NOV05	18NOV05	21DEC05	5JAN06	31
T106070	5	5	0	A/E Appr Scope Flight Tube Cladding	21NOV05	28NOV05	6JAN06	12JAN06	31
T106080	0	0	0	BID PKGE SENT FLIGHT TUBE CLADDING		28NOV05		12JAN06	31
T106090	15	15	0	Subs Prep Bids Flight Tube Cladding	29NOV05	19DEC05	13JAN06	2FEB06	31

ACTIVITY ID	ORIG DUR	REM DUR	%	ACTIVITY DESCRIPTION	EARLY START	EARLY FINISH	LATE START	LATE FINISH	TOTAL FLOAT
T106100	0	0	0	SUBMIT BIDS FLIGHT TUBE CLADDING		19DEC05		2FEB06	31
T106110	10	10	0	Review Bids Flight Tube Cladding	19JAN06	1FEB06	6MAR06	17MAR06	31
T106120	0	0	0	AWARD FLIGHT TUBE CLADDING		1FEB06		17MAR06	31
T106130	30	30	0	Submit Flight Tube Cladding Shop Drwgs	2FEB06	16MAR06	20MAR06	28APR06	31
T106140	60	60	0	Appr Flight Tube Cladding Shop Drwgs	10MAR06	2JUN06	24APR06	18JUL06	31
T106150	170	170	0	Coordinate & Fabricate Flight Tube Cladding	5JUN06	2FEB07	19JUL06	20MAR07	31
T106160	10	10	0	TCCo Issue Addendum Air Train Cladding	20DEC05	4JAN06	15MAY06	26MAY06	101
T106170	10	10	0	Revise Bid Per Addn Air Train Cladding	5JAN06	18JAN06	30MAY06	12JUN06	101
T106180	10	10	0	TCCo Prep Bid Pkge Air Train Cladding	7NOV05	18NOV05	3APR06	14APR06	101
T106190	5	5	0	A/E Appr Scope Air Train Cladding	21NOV05	28NOV05	17APR06	21APR06	101
T106200	0	0	0	BID PKGE SENT AIR TRAIN CLADDING		28NOV05		21APR06	101
T106210	15	15	0	Subs Prep Bids Air Train Cladding	29NOV05	19DEC05	24APR06	12MAY06	101
T106220	0	0	0	SUBMIT BIDS AIR TRAIN CLADDING		19DEC05		12MAY06	101
T106230	10	10	0	Review Bids Air Train Cladding	19JAN06	1FEB06	13JUN06	26JUN06	101
T106240	0	0	0	AWARD AIR TRAIN CLADDING		1FEB06		26JUN06	101
T106250	30	30	0	Submit Air Train Cladding Shop Drwgs	2FEB06	16MAR06	27JUN06	8AUG06	101
T106260	60	60	0	Appr Air Train Cladding Shop Drwgs	10MAR06	2JUN06	2AUG06	25OCT06	101
T106270	190	190	0	Coordinate & Fabricate Air Train Cladding	5JUN06	5MAR07	26OCT06	26JUL07	101
T106280	10	10	0	TCCo Issue Addendum Drywall/Ceilings	28FEB06	13MAR06	23AUG06	6SEP06	124
T106290	10	10	0	Revise Bid Per Addn Drywall/Ceilings	14MAR06	27MAR06	7SEP06	20SEP06	124
T106300	10	10	0	TCCo Prep Bid Pkge Drywall/Ceilings	16JAN06*	27JAN06	12JUL06	25JUL06	124
T106310	5	5	0	A/E Appr Scope Drywall/Ceilings	30JAN06	3FEB06	26JUL06	1AUG06	124
T106320	0	0	0	BID PKGE SENT DRYWALL/CEILINGS		3FEB06		1AUG06	124
T106330	15	15	0	Subs Prep Bids Drywall/Ceilings	6FEB06	27FEB06	2AUG06	22AUG06	124
T106340	0	0	0	SUBMIT BIDS DRYWALL/CEILINGS		27FEB06		22AUG06	124
T106350	10	10	0	Review Bids Drywall/Ceilings	28MAR06	10APR06	21SEP06	4OCT06	124
T106360	0	0	0	AWARD DRYWALL/CEILINGS		10APR06		4OCT06	124
T106370	30	30	0	Submit Drywall/Ceilings Shop Drwgs	11APR06	22MAY06	5OCT06	15NOV06	124
T106380	30	30	0	Appr Drywall/Ceilings Shop Drwgs	2MAY06	13JUN06	26OCT06	7DEC06	124
T106390	70	70	0	Coordinate & Fabricate Drywall/Ceilings	14JUN06	21SEP06	8DEC06	20MAR07	124
T106400	10	10	0	TCCo Issue Addendum Doors & Hardware	6DEC05	19DEC05	30MAY06	12JUN06	121
T106410	10	10	0	Revise Bid Per Addn Doors & Hardware	20DEC05	4JAN06	13JUN06	26JUN06	121
T106420	10	10	0	TCCo Prep Bid Pkge Doors & Hardware	24OCT05	4NOV05	17APR06	28APR06	121
T106430	5	5	0	A/E Appr Scope Doors & Hardware	7NOV05	11NOV05	1MAY06	5MAY06	121
T106440	0	0	0	BID PKGE SENT DOORS & HARDWARE		11NOV05		5MAY06	121
T106450	15	15	0	Subs Prep Bids Doors & Hardware	14NOV05	5DEC05	8MAY06	26MAY06	121
T106460	0	0	0	SUBMIT BIDS DOORS & HARDWARE		5DEC05		26MAY06	121
T106470	10	10	0	Review Bids Doors & Hardware	5JAN06	18JAN06	27JUN06	11JUL06	121
T106480	0	0	0	AWARD DOORS & HARDWARE		18JAN06		11JUL06	121
T106490	60	60	0	Submit Doors & Hardware Shop Drwgs	19JAN06	13APR06	12JUL06	4OCT06	121
T106500	40	40	0	Appr Doors & Hardware Shop Drwgs	10MAR06	4MAY06	30AUG06	25OCT06	121
T106510	100	100	0	Coordinate & Fabricate Doors & Hardware	5MAY06	26SEP06	26OCT06	20MAR07	121
T106520	10	10	0	TCCo Issue Addendum Misc Metals/Stairs	28DEC05	11JAN06	17APR06	28APR06	76
T106530	10	10	0	Revise Bid Per Addn Misc Metals/Stairs	12JAN06	25JAN06	1MAY06	12MAY06	76
T106540	10	10	0	TCCo Prep Bid Pkge Misc Metals/Stairs	14NOV05*	28NOV05	6MAR06	17MAR06	76
T106550	5	5	0	A/E Appr Scope Misc Metals/Stairs	29NOV05	5DEC05	20MAR06	24MAR06	76
T106560	0	0	0	BID PKGE SENT MISC METALS/STAIRS		5DEC05		24MAR06	76
T106570	15	15	0	Subs Prep Bids Misc Metals/Stairs	6DEC05	27DEC05	27MAR06	14APR06	76
T106580	0	0	0	SUBMIT BIDS MISC METALS/STAIRS		27DEC05		14APR06	76
T106590	10	10	0	Review Bids Misc Metals/Stairs	26JAN06	8FEB06	15MAY06	26MAY06	76
T106600	0	0	0	AWARD MISC METALS/STAIRS		8FEB06		26MAY06	76
T106610	40	40	0	Submit Misc Metals/Stairs Shop Drwgs	9FEB06*	6APR06	30MAY06	25JUL06	76
T106620	40	40	0	Appr Misc Metals/Stairs Shop Drwgs	3MAR06	27APR06	20JUN06	15AUG06	76
T106630	150	150	0	Coordinate & Fabricate Misc Metals/Stairs	28APR06	29NOV06	16AUG06	20MAR07	76
T106640	10	10	0	TCCo Issue Addendum VCT & Carpet	10APR06	21APR06	7MAR07	20MAR07	230
T106650	10	10	0	Revise Bid Per Addn VCT & Carpet	24APR06	5MAY06	21MAR07	3APR07	230
T106660	10	10	0	TCCo Prep Bid Pkge VCT & Carpet	27FEB06*	10MAR06	23JAN07	5FEB07	230
T106670	5	5	0	A/E Appr Scope VCT & Carpet	13MAR06	17MAR06	6FEB07	12FEB07	230
T106680	0	0	0	BID PKGE SENT VCT & CARPET		17MAR06		12FEB07	230
T106690	15	15	0	Subs Prep Bids VCT & Carpet	20MAR06	7APR06	13FEB07	6MAR07	230
T106700	0	0	0	SUBMIT BIDS VCT & CARPET		7APR06		6MAR07	230
T106710	10	10	0	Review Bids VCT & Carpet	8MAY06	19MAY06	4APR07	17APR07	230
T106720	0	0	0	AWARD VCT & CARPET		19MAY06		17APR07	230
T106730	15	15	0	Submit VCT & Carpet Shop Drwgs	22MAY06	12JUN06	18APR07	8MAY07	230
T106740	20	20	0	Appr VCT & Carpet Shop Drwgs	13JUN06	11JUL06	9MAY07	6JUN07	230
T106750	225	225	0	Coordinate & Fabricate VCT & Carpet	12JUL06	30MAY07	7JUN07	24APR08	230
T106760	10	10	0	TCCo Issue Addendum Terrazzo	28FEB06	13MAR06	19OCT06	1NOV06	164

ACTIVITY ID	ORIG DUR	REM DUR	%	ACTIVITY DESCRIPTION	EARLY START	EARLY FINISH	LATE START	LATE FINISH	TOTAL FLOAT
T106770	10	10	0	Revise Bid Per Addn Terrazzo	14MAR06	27MAR06	2NOV06	15NOV06	164
T106780	10	10	0	TCCo Prep Bid Pkge Terrazzo	16JAN06*	27JAN06	7SEP06	20SEP06	164
T106790	5	5	0	A/E Appr Scope Terrazzo	30JAN06	3FEB06	21SEP06	27SEP06	164
T106800	0	0	0	BID PKGE SENT TERRAZZO		3FEB06		27SEP06	164
T106810	15	15	0	Subs Prep Bids Terrazzo	6FEB06	27FEB06	28SEP06	18OCT06	164
T106820	0	0	0	SUBMIT BIDS TERRAZZO		27FEB06		18OCT06	164
T106830	10	10	0	Review Bids Terrazzo	28MAR06	10APR06	16NOV06	30NOV06	164
T106840	0	0	0	AWARD TERRAZZO		10APR06		30NOV06	164
T106850	15	15	0	Submit Terrazzo Shop Drwgs	11APR06	1MAY06	1DEC06	21DEC06	164
T106860	20	20	0	Appr Terrazzo Shop Drwgs	2MAY06	30MAY06	22DEC06	22JAN07	164
T106870	280	280	0	Coordinate & Fabricate Terrazzo	31MAY06	6JUL07	23JAN07	28FEB08	164
T106880	10	10	0	TCCo Issue Addendum Millwork	25JAN06	7FEB06	1MAY06	12MAY06	67
T106890	10	10	0	Revise Bid Per Addn Millwork	8FEB06	22FEB06	15MAY06	26MAY06	67
T106900	10	10	0	TCCo Prep Bid Pkge Millwork	12DEC05*	23DEC05	20MAR06	31MAR06	67
T106910	5	5	0	A/E Appr Scope Millwork	27DEC05	3JAN06	3APR06	7APR06	67
T106920	0	0	0	BID PKGE SENT MILLWORK		3JAN06		7APR06	67
T106930	15	15	0	Subs Prep Bids Millwork	4JAN06	24JAN06	10APR06	28APR06	67
T106940	0	0	0	SUBMIT BIDS MILLWORK		24JAN06		28APR06	67
T106950	10	10	0	Review Bids Millwork	23FEB06	8MAR06	30MAY06	12JUN06	67
T106960	0	0	0	AWARD MILLWORK		8MAR06		12JUN06	67
T106970	80	80	0	Submit Millwork Shop Drwgs	9MAR06	29JUN06	13JUN06	4OCT06	67
T106980	40	40	0	Appr Millwork Shop Drwgs	25MAY06	21JUL06	30AUG06	25OCT06	67
T106990	345	345	0	Coordinate & Fabricate Millwork	24JUL06	29NOV07	26OCT06	6MAR08	67
T107100	10	10	0	TCCo Issue Addendum Painting	28FEB06	13MAR06	24NOV06	7DEC06	189
T107110	10	10	0	Revise Bid Per Addn Painting	14MAR06	27MAR06	8DEC06	21DEC06	189
T107120	10	10	0	TCCo Prep Bid Pkge Painting	16JAN06*	27JAN06	12OCT06	25OCT06	189
T107130	5	5	0	A/E Appr Scope Painting	30JAN06	3FEB06	26OCT06	1NOV06	189
T107140	0	0	0	BID PKGE SENT PAINTING		3FEB06		1NOV06	189
T107150	15	15	0	Subs Prep Bids Painting	6FEB06	27FEB06	2NOV06	22NOV06	189
T107160	0	0	0	SUBMIT BIDS PAINTING		27FEB06		22NOV06	189
T107170	10	10	0	Review Bids Painting	28MAR06	10APR06	22DEC06	8JAN07	189
T107180	0	0	0	AWARD PAINTING		10APR06		8JAN07	189
T107190	15	15	0	Submit Painting Shop Drwgs	11APR06*	1MAY06	9JAN07	29JAN07	189
T107200	15	15	0	Appr Painting Shop Drwgs	2MAY06	22MAY06	30JAN07	20FEB07	189
T107210	20	20	0	Procure Painting	23MAY06	20JUN06	21FEB07	20MAR07	189
T107220	10	10	0	TCCo Issue Addendum Ornamental Metal	24APR06	5MAY06	23AUG06	6SEP06	85
T107230	10	10	0	Revise Bid Per Addn Ornamental Metal	8MAY06	19MAY06	7SEP06	20SEP06	85
T107240	10	10	0	TCCo Prep Bid Pkge Ornamental Metal	13MAR06*	24MAR06	12JUL06	25JUL06	85
T107250	5	5	0	A/E Appr Scope Ornamental Metal	27MAR06	31MAR06	26JUL06	1AUG06	85
T107260	0	0	0	BID PKGE SENT ORNAMENTAL METAL		31MAR06		1AUG06	85
T107270	15	15	0	Subs Prep Bids Ornamental Metal	3APR06	21APR06	2AUG06	22AUG06	85
T107280	0	0	0	SUBMIT BIDS ORNAMENTAL METAL		21APR06		22AUG06	85
T107290	10	10	0	Review Bids Ornamental Metal	22MAY06	5JUN06	21SEP06	4OCT06	85
T107300	0	0	0	AWARD ORNAMENTAL METAL		5JUN06		4OCT06	85
T107310	60	60	0	Submit Ornamental Metal Shop Drwgs	6JUN06*	29AUG06	5OCT06	29DEC06	85
T107320	40	40	0	Appr Ornamental Metal Shop Drwgs	26JUL06	20SEP06	24NOV06	22JAN07	85
T107330	250	250	0	Coordinate & Fabricate Ornamental Metal	21SEP06	14SEP07	23JAN07	16JAN08	85
T107340	10	10	0	TCCo Issue Addendum Specialties	3MAR06	16MAR06	23AUG06	6SEP06	121
T107350	10	10	0	Revise Bid Per Addn Specialties	17MAR06	30MAR06	7SEP06	20SEP06	121
T107360	10	10	0	TCCo Prep Bid Pkge Specialties	19JAN06	1FEB06	12JUL06	25JUL06	121
T107370	5	5	0	A/E Appr Scope Specialties	2FEB06	8FEB06	26JUL06	1AUG06	121
T107380	0	0	0	BID PKGE SENT SPECIALTIES		8FEB06		1AUG06	121
T107390	15	15	0	Subs Prep Bids Specialties	9FEB06	2MAR06	2AUG06	22AUG06	121
T107400	0	0	0	SUBMIT BIDS SPECIALTIES		2MAR06		22AUG06	121
T107410	10	10	0	Review Bids Specialties	31MAR06	13APR06	21SEP06	4OCT06	121
T107420	0	0	0	AWARD SPECIALTIES		13APR06		4OCT06	121
T107430	60	60	0	Submit Specialties Shop Drwgs	14APR06*	10JUL06	5OCT06	29DEC06	121
T107440	40	40	0	Appr Specialties Shop Drwgs	5JUN06	31JUL06	24NOV06	22JAN07	121
T107450	280	280	0	Coordinate & Fabricate Specialties	1AUG06	6SEP07	23JAN07	28FEB08	121
T107460	10	10	0	TCCo Issue Addendum Equipment	2FEB06	15FEB06	23AUG06	6SEP06	141
T107470	10	10	0	Revise Bid Per Addn Equipment	16FEB06	2MAR06	7SEP06	20SEP06	141
T107480	10	10	0	TCCo Prep Bid Pkge Equipment	20DEC05	4JAN06	12JUL06	25JUL06	141
T107490	5	5	0	A/E Appr Scope Equipment	5JAN06	11JAN06	26JUL06	1AUG06	141
T107500	0	0	0	BID PKGE SENT EQUIPMENT		11JAN06		1AUG06	141
T107510	15	15	0	Subs Prep Bids Equipment	12JAN06	1FEB06	2AUG06	22AUG06	141
T107520	0	0	0	SUBMIT BIDS EQUIPMENT		1FEB06		22AUG06	141
T107530	10	10	0	Review Bids Equipment	3MAR06	16MAR06	21SEP06	4OCT06	141

ACTIVITY ID	ORIG DUR	REM DUR	%	ACTIVITY DESCRIPTION	EARLY START	EARLY FINISH	LATE START	LATE FINISH	TOTAL FLOAT
T107540	0	0	0	AWARD EQUIPMENT		16MAR06		4OCT06	141
T107550	60	60	0	Submit Equipment Shop Drwgs	17MAR06*	9JUN06	5OCT06	29DEC06	141
T107560	40	40	0	Appr Equipment Shop Drwgs	5MAY06	30JUN06	24NOV06	22JAN07	141
T107570	250	250	0	Coordinate & Fabricate Equipment	3JUL06	26JUN07	23JAN07	16JAN08	141
T108580	10	10	0	TCCo Issue Addendum Signage	28DEC05	11JAN06	6MAR06	17MAR06	46
T108590	10	10	0	Revise Bid Per Addn Signage	12JAN06	25JAN06	20MAR06	31MAR06	46
T108600	10	10	0	TCCo Prep Bid Pkge Signage	14NOV05*	28NOV05	20JAN06	2FEB06	46
T108610	5	5	0	A/E Appr Scope Signage	29NOV05	5DEC05	3FEB06	9FEB06	46
T108620	0	0	0	BID PKGE SENT SIGNAGE		5DEC05		9FEB06	46
T108630	15	15	0	Subs Prep Bids Signage	6DEC05	27DEC05	10FEB06	3MAR06	46
T108640	0	0	0	SUBMIT BIDS SIGNAGE		27DEC05		3MAR06	46
T108650	10	10	0	Review Bids Signage	26JAN06	8FEB06	3APR06	14APR06	46
T108660	0	0	0	AWARD SIGNAGE		8FEB06		14APR06	46
T108670	120	120	0	Submit Signage Shop Drwgs	21FEB06*	9AUG06	17APR06	4OCT06	39
T108680	80	80	0	Appr Signage Shop Drwgs	9MAY06	30AUG06	5JUL06	25OCT06	39
T108690	100	100	0	Coordinate & Fabricate Signage	31AUG06	23JAN07	26OCT06	20MAR07	39
T108700	10	10	0	TCCo Issue Addendum Air Train/Tube Painting	3MAR06	16MAR06	21SEP06	4OCT06	141
T108710	10	10	0	Revise Bid Per Add Air Train/Tube Paint	17MAR06	30MAR06	5OCT06	18OCT06	141
T108720	10	10	0	TCCo Prep Bid Pkge Air Train/Tube Painting	19JAN06	1FEB06	9AUG06	22AUG06	141
T108730	5	5	0	A/E Appr Scope Air Train/Tube Painting	2FEB06	8FEB06	23AUG06	29AUG06	141
T108740	0	0	0	BID PKGE SENT AIR TRAIN/TUBE PAINTING		8FEB06		29AUG06	141
T108750	15	15	0	Subs Prep Bids Air Train/Tube Painting	9FEB06	2MAR06	30AUG06	20SEP06	141
T108760	0	0	0	SUBMIT BIDS AIR TRAIN/TUBE PAINTING		2MAR06		20SEP06	141
T108770	10	10	0	Review Bids Air Train/Tube Painting	31MAR06	13APR06	19OCT06	1NOV06	141
T108780	0	0	0	AWARD AIR TRAIN/TUBE PAINTING		13APR06		1NOV06	141
T108790	40	40	0	Submit Air Train/Tube Painting Shop Drwgs	14APR06	9JUN06	2NOV06	29DEC06	141
T108800	20	20	0	Appr Air Train/Tube Painting Shop Drwgs	5JUN06	30JUN06	22DEC06	22JAN07	141
T108810	40	40	0	Procure Air Train/Tube Painting	3JUL06	28AUG06	23JAN07	20MAR07	141
T108820	5	5	0	TCCo Issue Addendum HVAC Airside	7NOV05	11NOV05	16MAY06	22MAY06	132
T108830	10	10	0	Revise Bid Per Addn HVAC Airside	14NOV05	28NOV05	23MAY06	6JUN06	132
T108840	10	10	0	TCCo Prep Bid Pkge HVAC Airside	26SEP05*	7OCT05	4APR06	17APR06	132
T108850	5	5	0	A/E Appr Scope HVAC Airside	10OCT05	14OCT05	18APR06	24APR06	132
T108860	0	0	0	BID PKGE SENT HVAC AIRSIDE		14OCT05		24APR06	132
T108870	15	15	0	Subs Prep Bids HVAC Airside	17OCT05	4NOV05	25APR06	15MAY06	132
T108880	0	0	0	SUBMIT BIDS HVAC AIRSIDE		4NOV05		15MAY06	132
T108890	10	10	0	Review Bids HVAC Airside	29NOV05	12DEC05	7JUN06	20JUN06	132
T108900	0	0	0	AWARD HVAC AIRSIDE		12DEC05		20JUN06	132
T108910	50	50	0	Submit HVAC Airside Shop Drwgs	13DEC05	23FEB06	21JUN06	30AUG06	132
T108920	50	50	0	Appr HVAC Airside Shop Drwgs	5JAN06	16MAR06	13JUL06	21SEP06	132
T108930	300	300	0	Coordinate & Fabricate HVAC Airside	17MAR06	21MAY07	22SEP06	27NOV07	132
T108940	5	5	0	TCCo Issue Addendum HVAC Wetside	7NOV05	11NOV05	14JUN06	20JUN06	152
T108950	10	10	0	Revise Bid Per Addn HVAC Wetside	14NOV05	28NOV05	21JUN06	5JUL06	152
T108960	10	10	0	TCCo Prep Bid Pkge HVAC Wetside	26SEP05*	7OCT05	2MAY06	15MAY06	152
T108970	5	5	0	A/E Appr Scope HVAC Wetside	10OCT05	14OCT05	16MAY06	22MAY06	152
T108980	0	0	0	BID PKGE SENT HVAC WETSIDE		14OCT05		22MAY06	152
T108990	15	15	0	Subs Prep Bids HVAC Wetside	17OCT05	4NOV05	23MAY06	13JUN06	152
T109000	0	0	0	SUBMIT BIDS HVAC WETSIDE		4NOV05		13JUN06	152
T109010	10	10	0	Review Bids HVAC Wetside	29NOV05	12DEC05	6JUL06	19JUL06	152
T109020	0	0	0	AWARD HVAC WETSIDE		12DEC05		19JUL06	152
T109030	50	50	0	Submit HVAC Wetside Shop Drwgs	13DEC05	23FEB06	20JUL06	28SEP06	152
T109040	50	50	0	Appr HVAC Wetside Shop Drwgs	5JAN06	16MAR06	10AUG06	19OCT06	152
T109050	300	300	0	Coordinate & Fabricate HVAC Wetside	17MAR06	21MAY07	20OCT06	26DEC07	152
T109060	5	5	0	TCCo Issue Addendum HVAC Equip	26SEP05	30SEP05	22DEC05	29DEC05	62
T109070	5	5	0	Revise Bid Per Addn HVAC Equip	3OCT05	7OCT05	30DEC05	6JAN06	62
T109080	5	5	0	TCCo Prep Bid Pkge HVAC Equip	12AUG05*	18AUG05	23NOV05	30NOV05	72
T109090	5	5	0	A/E Appr Scope HVAC Equip	19AUG05	25AUG05	1DEC05	7DEC05	72
T109100	0	0	0	BID PKGE SENT HVAC EQUIP		25AUG05		7DEC05	72
T109110	10	10	0	Subs Prep Bids HVAC Equip	26AUG05	9SEP05	8DEC05	21DEC05	72
T109120	0	0	0	SUBMIT BIDS HVAC EQUIP		9SEP05		21DEC05	72
T109130	5	5	0	Review Bids HVAC Equip	10OCT05	14OCT05	9JAN06	13JAN06	62
T109140	0	0	0	AWARD HVAC EQUIP		14OCT05		13JAN06	62
T109150	60	60	0	Submit HVAC Equip Shop Drwgs	17OCT05	11JAN06	16JAN06	10APR06	62
T109160	50	50	0	Appr HVAC Equip Shop Drwgs	21NOV05	1FEB06	21FEB06	1MAY06	62
T109170	440	440	0	Coordinate & Fabricate HVAC Equip	2FEB06	25OCT07	2MAY06	24JAN08	62
T109180	10	10	0	TCCo Issue Addendum HVAC Controls/BMS	29NOV05	12DEC05	3APR06	14APR06	86
T109190	10	10	0	Revise Bid Per Addn HVAC Controls/BMS	13DEC05	27DEC05	17APR06	28APR06	86
T109200	10	10	0	TCCo Prep Bid Pkge HVAC Controls/BMS	17OCT05*	28OCT05	17FEB06	3MAR06	86

ACTIVITY ID	ORIG DUR	REM DUR	%	ACTIVITY DESCRIPTION	EARLY START	EARLY FINISH	LATE START	LATE FINISH	TOTAL FLOAT
T109210	5	5	0	A/E Appr Scope HVAC Controls/BMS	31OCT05	4NOV05	6MAR06	10MAR06	86
T109220	0	0	0	BID PKGE SENT HVAC CONTROLS/BMS		4NOV05		10MAR06	86
T109230	15	15	0	Subs Prep Bids HVAC Controls/BMS	7NOV05	28NOV05	13MAR06	31MAR06	86
T109240	0	0	0	SUBMIT BIDS HVAC CONTROLS/BMS		28NOV05		31MAR06	86
T109250	10	10	0	Review Bids HVAC Controls/BMS	28DEC05	11JAN06	1MAY06	12MAY06	86
T109260	0	0	0	AWARD HVAC CONTROLS/BMS		11JAN06		12MAY06	86
T109270	120	120	0	Submit HVAC Controls/BMS Shop Drwgs	12JAN06*	30JUN06	15MAY06	1NOV06	86
T109280	60	60	0	Appr HVAC Controls/BMS Shop Drwgs	28APR06	24JUL06	30AUG06	22NOV06	86
T109290	135	135	0	Coordinate & Fabricate HVAC Controls/BMS	25JUL06	2FEB07	24NOV06	6JUN07	86
T109300	10	10	0	TCCo Issue Addendum Air Train Connector	6DEC05	19DEC05	27MAR06	7APR06	76
T109310	10	10	0	Revise Bid Per Addn Air Train Connector	20DEC05	4JAN06	10APR06	21APR06	76
T109320	10	10	0	TCCo Prep Bid Pkge Air Train Connector	24OCT05*	4NOV05	10FEB06	24FEB06	76
T109330	5	5	0	A/E Appr Scope Air Train Connector	7NOV05	11NOV05	27FEB06	3MAR06	76
T109340	0	0	0	BID PKGE SENT AIR TRAIN CONNECTOR		11NOV05		3MAR06	76
T109350	15	15	0	Subs Prep Bids Air Train Connector	14NOV05	5DEC05	6MAR06	24MAR06	76
T109360	0	0	0	SUBMIT BIDS AIR TRAIN CONNECTOR		5DEC05		24MAR06	76
T109370	10	10	0	Review Bids Air Train Connector	5JAN06	18JAN06	24APR06	5MAY06	76
T109380	0	0	0	AWARD AIR TRAIN CONNECTOR		18JAN06		5MAY06	76
T109390	50	50	0	Submit Air Train Connector MEP Shop Drwgs	19JAN06	30MAR06	8MAY06	18JUL06	76
T109400	50	50	0	Appr Air Train Connector MEP Shop Drwgs	9FEB06	20APR06	30MAY06	8AUG06	76
T109410	220	220	0	Coordinate & Fab Air Train Connector MEP Matls	21APR06	5MAR07	9AUG06	20JUN07	76
T109420	5	5	0	TCCo Issue Addendum High Voltage/Equip	10OCT05	14OCT05	30MAY06	5JUN06	161
T109430	5	5	0	Revise Bid Per Addn High Voltage/Equip	17OCT05	21OCT05	6JUN06	12JUN06	161
T109440	10	10	0	TCCo Prep Bid Pkge High Voltage/Equip	12AUG05	25AUG05	17APR06	28APR06	171
T109450	5	5	0	A/E Appr Scope High Voltage/Equip	26AUG05	1SEP05	1MAY06	5MAY06	171
T109460	0	0	0	BID PKGE SENT HIGH VOLTAGE/EQUIP		1SEP05		5MAY06	171
T109470	15	15	0	Subs Prep Bids High Voltage/Equip	2SEP05	23SEP05	8MAY06	26MAY06	171
T109480	0	0	0	SUBMIT BIDS HIGH VOLTAGE/EQUIP		23SEP05		26MAY06	171
T109490	10	10	0	Review Bids High Voltage/Equip	24OCT05	4NOV05	13JUN06	26JUN06	161
T109500	0	0	0	AWARD HIGH VOLTAGE/EQUIP		4NOV05		26JUN06	161
T109510	50	50	0	Submit High Voltage/Equip Shop Drwgs	7NOV05	18JAN06	27JUN06	6SEP06	161
T109520	50	50	0	Appr High Voltage/Equip Shop Drwgs	29NOV05	8FEB06	19JUL06	27SEP06	161
T109530	80	80	0	Coordinate & Fabricate High Voltage/Equip	9FEB06	2JUN06	28SEP06	22JAN07	161
T109540	5	5	0	TCCo Issue Addendum Light & Power	10OCT05	14OCT05	11APR06	17APR06	127
T109550	5	5	0	Revise Bid Per Addn Light & Power	17OCT05	21OCT05	18APR06	24APR06	127
T109560	10	10	0	TCCo Prep Bid Pkge Light & Power	12AUG05	25AUG05	28FEB06	13MAR06	137
T109570	5	5	0	A/E Appr Scope Light & Power	26AUG05	1SEP05	14MAR06	20MAR06	137
T109580	0	0	0	BID PKGE SENT LIGHT & POWER		1SEP05		20MAR06	137
T109590	15	15	0	Subs Prep Bids Light & Power	2SEP05	23SEP05	21MAR06	10APR06	137
T109600	0	0	0	SUBMIT BIDS LIGHT & POWER		23SEP05		10APR06	137
T109610	10	10	0	Review Bids Light & Power	24OCT05	4NOV05	25APR06	8MAY06	127
T109620	0	0	0	AWARD LIGHT & POWER		4NOV05		8MAY06	127
T109630	100	100	0	Submit Light & Power Shop Drwgs	7NOV05	30MAR06	9MAY06	28SEP06	127
T109640	60	60	0	Appr Light & Power Shop Drwgs	26JAN06	20APR06	27JUL06	19OCT06	127
T109650	300	300	0	Coordinate & Fabricate Light & Power	21APR06	26JUN07	20OCT06	26DEC07	127
T109660	10	10	0	TCCo Issue Addendum Fire Alarm	21NOV05	5DEC05	25APR06	8MAY06	107
T109670	10	10	0	Revise Bid Per Addn Fire Alarm	6DEC05	19DEC05	9MAY06	22MAY06	107
T109680	10	10	0	TCCo Prep Bid Pkge Fire Alarm	10OCT05	21OCT05	14MAR06	27MAR06	107
T109690	5	5	0	A/E Appr Scope Fire Alarm	24OCT05	28OCT05	28MAR06	3APR06	107
T109700	0	0	0	BID PKGE SENT FIRE ALARM		28OCT05		3APR06	107
T109710	15	15	0	Subs Prep Bids Fire Alarm	31OCT05	18NOV05	4APR06	24APR06	107
T109720	0	0	0	SUBMIT BIDS FIRE ALARM		18NOV05		24APR06	107
T109730	10	10	0	Review Bids Fire Alarm	20DEC05	4JAN06	23MAY06	6JUN06	107
T109740	0	0	0	AWARD FIRE ALARM		4JAN06		6JUN06	107
T109750	80	80	0	Submit Fire Alarm Shop Drwgs	5JAN06	27APR06	7JUN06	28SEP06	107
T109760	60	60	0	Appr Fire Alarm Shop Drwgs	24FEB06	18MAY06	27JUL06	19OCT06	107
T109770	300	300	0	Coordinate & Fabricate Fire Alarm	19MAY06	25JUL07	20OCT06	26DEC07	107
T109980	10	10	0	TCCo Issue Addendum Plumbing	21NOV05	5DEC05	27JUN06	11JUL06	151
T109990	10	10	0	Revise Bid Per Addn Plumbing	6DEC05	19DEC05	12JUL06	25JUL06	151
T1100	238	238	0	Prepare Package T-1: Foundations/Piles	4AUG04*	12JUL05	2SEP04	10AUG05	21
T110000	10	10	0	TCCo Prep Bid Pkge Plumbing	10OCT05	21OCT05	15MAY06	26MAY06	151
T110010	5	5	0	A/E Appr Scope Plumbing	24OCT05	28OCT05	30MAY06	5JUN06	151
T110020	0	0	0	BID PKGE SENT PLUMBING		28OCT05		5JUN06	151
T110030	15	15	0	Subs Prep Bids Plumbing	31OCT05	18NOV05	6JUN06	26JUN06	151
T110040	0	0	0	SUBMIT BIDS PLUMBING		18NOV05		26JUN06	151
T110050	10	10	0	Review Bids Plumbing	20DEC05	4JAN06	26JUL06	8AUG06	151
T110060	0	0	0	AWARD PLUMBING		4JAN06		8AUG06	151

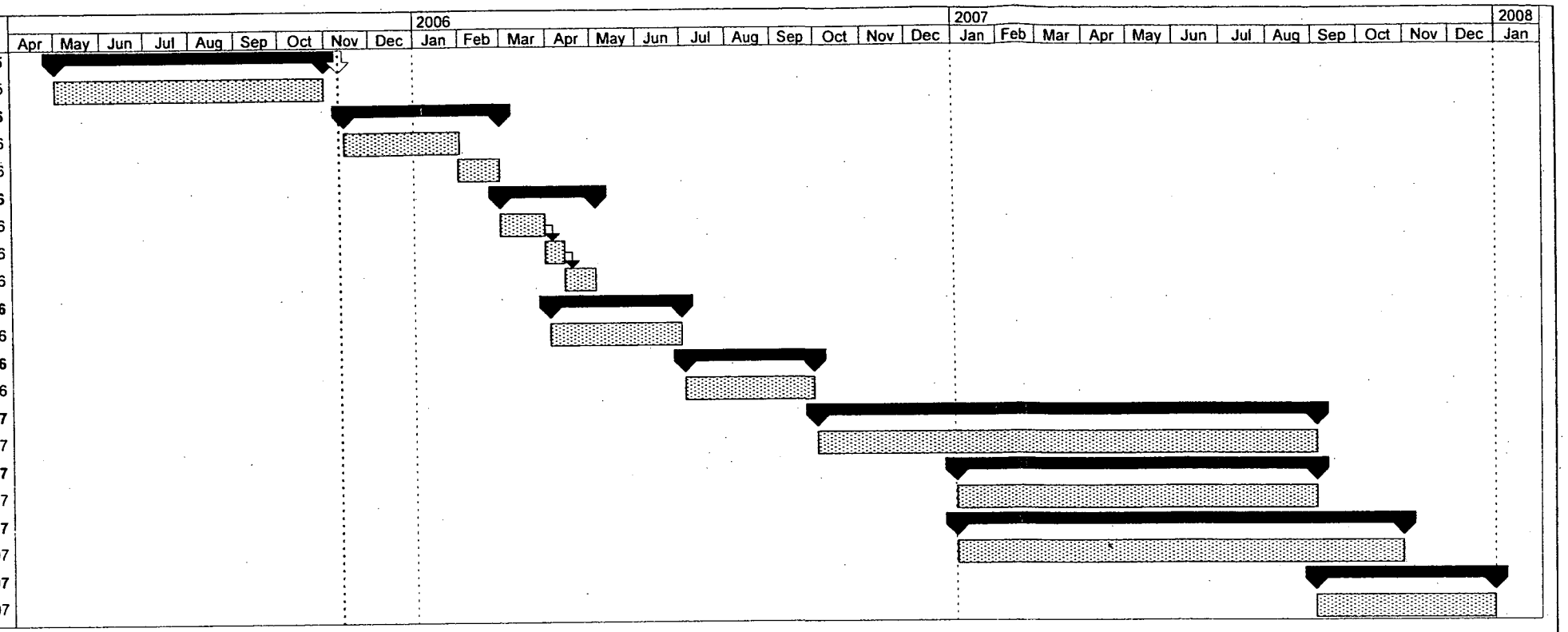
ACTIVITY ID	ORIG DUR	REM DUR	%	ACTIVITY DESCRIPTION	EARLY START	EARLY FINISH	LATE START	LATE FINISH	TOTAL FLOAT
T110070	60	60	0	Submit Plumbing Shop Drwgs	5JAN06	30MAR06	9AUG06	1NOV06	151
T110080	40	40	0	Appr Plumbing Shop Drwgs	24FEB06	20APR06	28SEP06	22NOV06	151
T110090	214	214	0	Coordinate & Fabricate Plumbing	21APR06	23FEB07	24NOV06	27SEP07	151
T110100	10	10	0	TCCo Issue Addendum Fire Protection	21NOV05	5DEC05	18MAY06	1JUN06	124
T110110	10	10	0	Revise Bid Per Addn Fire Protection	6DEC05	19DEC05	2JUN06	15JUN06	124
T110120	10	10	0	TCCo Prep Bid Pkge Fire Protection	10OCT05	21OCT05	6APR06	19APR06	124
T110130	5	5	0	A/E Appr Scope Fire Protection	24OCT05	28OCT05	20APR06	26APR06	124
T110140	0	0	0	BID PKGE SENT FIRE PROTECTION		28OCT05		26APR06	124
T110150	15	15	0	Subs Prep Bids Fire Protection	31OCT05	18NOV05	27APR06	17MAY06	124
T110160	0	0	0	SUBMIT BIDS FIRE PROTECTION		18NOV05		17MAY06	124
T110170	10	10	0	Review Bids Fire Protection	20DEC05	4JAN06	16JUN06	29JUN06	124
T110180	0	0	0	AWARD FIRE PROTECTION		4JAN06		29JUN06	124
T110190	60	60	0	Submit Fire Protection Shop Drwgs	5JAN06	30MAR06	30JUN06	25SEP06	124
T110200	40	40	0	Appr Fire Protection Shop Drwgs	24FEB06	20APR06	21AUG06	16OCT06	124
T110210	303	303	0	Coordinate & Fabricate Fire Protection	21APR06	29JUN07	17OCT06	26DEC07	124
T110220	5	5	0	TCCo Issue Addendum Elevators	26SEP05	30SEP05	24APR06	28APR06	146
T110230	5	5	0	Revise Bid Per Addn Elevators	3OCT05	7OCT05	1MAY06	5MAY06	146
T110240	10	10	0	TCCo Prep Bid Pkge Elevators	12AUG05	25AUG05	13MAR06	24MAR06	146
T110250	5	5	0	A/E Appr Scope Elevators	26AUG05	1SEP05	27MAR06	31MAR06	146
T110260	0	0	0	BID PKGE SENT ELEVATORS		1SEP05		31MAR06	146
T110270	15	15	0	Subs Prep Bids Elevators	2SEP05	23SEP05	3APR06	21APR06	146
T110280	0	0	0	SUBMIT BIDS ELEVATORS		23SEP05		21APR06	146
T110290	10	10	0	Review Bids Elevators	10OCT05	21OCT05	8MAY06	19MAY06	146
T110300	0	0	0	AWARD ELEVATORS		21OCT05		19MAY06	146
T110340	5	5	0	TCCo Issue Addendum Escalators/Walkways	26SEP05	30SEP05	24APR06	28APR06	146
T110350	5	5	0	Revise Bid Per Addn Escalators/Walkways	3OCT05	7OCT05	1MAY06	5MAY06	146
T110360	10	10	0	TCCo Prep Bid Pkge Escalators/Walkways	12AUG05	25AUG05	13MAR06	24MAR06	146
T110370	5	5	0	A/E Appr Scope Escalators/Walkways	26AUG05	1SEP05	27MAR06	31MAR06	146
T110380	0	0	0	BID PKGE SENT ESCALATORS/WALKWAYS		1SEP05		31MAR06	146
T110390	15	15	0	Subs Prep Bids Escalators/Walkways	2SEP05	23SEP05	3APR06	21APR06	146
T110400	0	0	0	SUBMIT BIDS ESCALATORS/WALKWAYS		23SEP05		21APR06	146
T110410	10	10	0	Review Bids Escalators/Walkways	10OCT05	21OCT05	8MAY06	19MAY06	146
T110420	0	0	0	AWARD ESCALATORS/WALKWAYS		21OCT05		19MAY06	146
T110430	120	120	0	Submit Escalators/Walkways Shop Drwgs	24OCT05	13APR06	22MAY06	9NOV06	146
T110440	120	120	0	Appr Escalators/Walkways Shop Drwgs	6DEC05	25MAY06	5JUL06	21DEC06	146
T110450	380	380	0	Coordinate & Fabricate Escalators/Walkways	31MAR06	27SEP07	26OCT06	24APR08	146
T110460	5	5	0	jetBlue Issue Addendum Jet Bridges	10OCT05	14OCT05	19JUL06	25JUL06	196
T110470	5	5	0	Revise Bid Per Addn Jet Bridges	17OCT05	21OCT05	26JUL06	1AUG06	196
T110480	10	10	0	jetBlue Prep Bid Pkge Jet Bridges	12AUG05	25AUG05	6JUN06	19JUN06	206
T110490	5	5	0	A/E Appr Scope Jet Bridges	26AUG05	1SEP05	20JUN06	26JUN06	206
T110500	0	0	0	BID PKGE SENT JET BRIDGES		1SEP05		26JUN06	206
T110510	15	15	0	Subs Prep Bids Jet Bridges	2SEP05	23SEP05	27JUN06	18JUL06	206
T110520	0	0	0	SUBMIT BIDS JET BRIDGES		23SEP05		18JUL06	206
T110530	10	10	0	Review Bids Jet Bridges	24OCT05	4NOV05	2AUG06	15AUG06	196
T110540	0	0	0	AWARD JET BRIDGES		4NOV05		15AUG06	196
T110580	10	10	0	TCCo Issue Addendum Security	10APR06	21APR06	30MAY06	12JUN06	35
T110590	10	10	0	Revise Bid Per Addn Security	24APR06	5MAY06	13JUN06	26JUN06	35
T110600	10	10	0	TCCo Prep Bid Pkge Security	27FEB06*	10MAR06	17APR06	28APR06	35
T110610	5	5	0	A/E Appr Scope Security	13MAR06	17MAR06	1MAY06	5MAY06	35
T110620	0	0	0	BID PKGE SENT SECURITY		17MAR06		5MAY06	35
T110630	15	15	0	Subs Prep Bids Security	20MAR06	7APR06	8MAY06	26MAY06	35
T110640	0	0	0	SUBMIT BIDS SECURITY		7APR06		26MAY06	35
T110650	10	10	0	Review Bids Security	8MAY06	19MAY06	27JUN06	11JUL06	35
T110660	0	0	0	AWARD SECURITY		19MAY06		11JUL06	35
T110670	80	80	0	Submit Security Shop Drwgs	22MAY06	13SEP06	12JUL06	1NOV06	35
T110680	60	60	0	Appr Security Shop Drwgs	12JUL06	4OCT06	30AUG06	22NOV06	35
T110690	250	250	0	Coordinate & Fabricate Security	5OCT06	28SEP07	24NOV06	16NOV07	35
T110700	10	10	0	TCCo Issue Addendum Communication & IT	10APR06	21APR06	15MAY06	26MAY06	25
T110710	10	10	0	Revise Bid Per Addn Communication & IT	24APR06	5MAY06	30MAY06	12JUN06	25
T110720	10	10	0	TCCo Prep Bid Pkge Communication & IT	27FEB06*	10MAR06	3APR06	14APR06	25
T110730	5	5	0	A/E Appr Scope Communication & IT	13MAR06	17MAR06	17APR06	21APR06	25
T110740	0	0	0	BID PKGE SENT COMMUNICATION & IT		17MAR06		21APR06	25
T110750	15	15	0	Subs Prep Bids Communication & IT	20MAR06	7APR06	24APR06	12MAY06	25
T110760	0	0	0	SUBMIT BIDS COMMUNICATION & IT		7APR06		12MAY06	25
T110770	10	10	0	Review Bids Communication & IT	8MAY06	19MAY06	13JUN06	26JUN06	25
T110780	0	0	0	AWARD COMMUNICATION & IT		19MAY06		26JUN06	25
T110790	80	80	0	Submit Communication & IT Shop Drwgs	22MAY06*	13SEP06	27JUN06	18OCT06	25

ACTIVITY ID	ORIG DUR	REM DUR	%	ACTIVITY DESCRIPTION	EARLY START	EARLY FINISH	LATE START	LATE FINISH	TOTAL FLOAT
T110800	60	60	0	Appr Communication & IT Shop Drwgs	12JUL06	4OCT06	16AUG06	8NOV06	25
T110810	310	310	0	Coordinate & Fabricate Communication & IT	9AUG06	26OCT07	14SEP06	3DEC07	25
T1150	0	0	0	SUBMIT TAA T-1: Foundations/Piles	16MAY05		15JUN05		21
T1200	49	49	0	PA Review TAA T-1: Foundations/Piles	16MAY05	25JUL05	15JUN05	23AUG05	21
T1210	0	0	0	PA ISSUE RIDER A TAA T-1: Foundations/Piles	26JUL05		24AUG05		21
T12100	149	149	0	Prepare Package T-12: Life Safety & Emer Egress	13JAN05*	12AUG05	12APR06	9NOV06	316
T12150	0	0	0	SUBMIT TAA T-12: Life Safety & Emer Egress	15AUG05		10NOV06		316
T1220	18	18	0	Design Team Inc Rider A T-1: Foundations/Piles	26JUL05	18AUG05	24AUG05	19SEP05	21
T12200	30	30	0	PA Review TAA T-12: Life Safety & Emer Egress	15AUG05	26SEP05	10NOV06	22DEC06	316
T12210	0	0	0	PA ISSUE RIDER A TAA T-12: Life Safety & Emer Eg	27SEP05		26DEC06		316
T12220	9	9	0	Design Team Inc Rider A T-12: Life Safety & EmEg	27SEP05	7OCT05	26DEC06	8JAN07	316
T12250	0	0	0	PA ISSUE NTP T-12: Life Safety & Emer Egress		21OCT05		22JAN07	316
T1230	16	16	0	Foundations/Piles	19AUG05	12SEP05	7OCT05	28OCT05	34
T1250	0	0	0	PA ISSUE NTP T-1: Foundations/Piles		26SEP05		11NOV05	34
T2100	208	208	0	Prepare Package T-2: Structural	22OCT04*	17AUG05	26NOV04	21SEP05	24
T2150	0	0	0	SUBMIT TAA T-2: Structural	11JUL05		12AUG05		24
T2200	34	34	0	PA Review TAA T-2: Structural	11JUL05	25AUG05	12AUG05	29SEP05	24
T2210	0	0	0	PA ISSUE RIDER A TAA T-2: Structural	26AUG05		30SEP05		24
T2220	10	10	0	Design Team Inc Rider A TAA T-2: Structural	26AUG05	9SEP05	30SEP05	13OCT05	24
T2230	15	15	0	PA Review RIDER A Response TAA T-2: Structural	12SEP05	30SEP05	18NOV05	9DEC05	49
T2250	0	0	0	PA ISSUE NTP T-2: Structural		14OCT05		23DEC05	49
T3100	203	203	0	Prepare Package T-3: Baggage Handling	25OCT04*	11AUG05	24NOV04	13SEP05	22
T3150	0	0	0	SUBMIT TAA T-3: Baggage Handling	12AUG05		14SEP05		22
T3200	30	30	0	PA Review TAA T-3: Baggage Handling	12AUG05	23SEP05	14SEP05	25OCT05	22
T3210	0	0	0	PA ISSUE RIDER A TAA T-3: Baggage Handling	26SEP05		26OCT05		22
T3220	10	10	0	Design Team Inc Rider A T-3: Baggage Handling	26SEP05	7OCT05	26OCT05	8NOV05	22
T3250	0	0	0	PA ISSUE NTP T-3: Baggage Handling		21OCT05		13JAN06	57
T4100	183	183	0	Prepare Package T-4: Exterior Envelope	29NOV04*	17AUG05	13JAN05	30SEP05	31
T4150	0	0	0	SUBMIT TAA T-4: Exterior Envelope	12AUG05		27SEP05		31
T4200	30	30	0	PA Review TAA T-4: Exterior Envelope	12AUG05	23SEP05	6OCT05	16NOV05	38
T4210	0	0	0	PA ISSUE RIDER A TAA T-4: Exterior Envelope	26SEP05		17NOV05		38
T4220	10	10	0	Design Team Inc Rider A TAA T-4: Ext Envelope	26SEP05	7OCT05	17NOV05	1DEC05	38
T4250	0	0	0	PA ISSUE NTP T-4: Exterior Envelope		21OCT05		3NOV06	263
T5100	175	175	0	Prepare Package T-5: Interior Construction	9DEC04*	17AUG05	9MAR05	11NOV05	61
T5150	0	0	0	SUBMIT TAA T-5: Interior Construction	12AUG05		8NOV05		61
T5200	30	30	0	PA Review TAA T-5: Interior Construction	12AUG05	23SEP05	21DEC05	2FEB06	91
T5210	0	0	0	PA ISSUE RIDER A TAA T-5: Interior Construction	26SEP05		3FEB06		91
T5220	10	10	0	Design Team Inc Rider A TAA T-5: Interior Constr	26SEP05	7OCT05	3FEB06	16FEB06	91
T5250	0	0	0	PA ISSUE NTP T-5: Interior Construction		21OCT05		20MAR07	356
T6100	175	175	0	Prepare Package T-6: MEP	9DEC04*	17AUG05	10MAR05	14NOV05	62
T6150	0	0	0	SUBMIT TAA T-6: MEP	12AUG05		9NOV05		62
T6200	30	30	0	PA Review TAA T-6: MEP	12AUG05	23SEP05	9NOV05	21DEC05	62
T6210	0	0	0	PA ISSUE RIDER A TAA T-6: MEP	26SEP05		22DEC05		62
T6220	10	10	0	Design Team Inc Rider A TAA T-6: MEP	26SEP05	7OCT05	22DEC05	6JAN06	62
T6230	10	10	0	PA Review RIDER A Response TAA T-6 MEP	10OCT05	21OCT05	9JAN07	22JAN07	316
T6250	0	0	0	PA ISSUE NTP T-6: MEP		21OCT05		22JAN07	316
T7100	273	273	0	Prepare Package T-7: Vertical Transportation	16JUL04*	11AUG05	11FEB05	10MAR06	146
T7150	0	0	0	SUBMIT TAA T-7: Vertical Transportation	12AUG05		13MAR06		146
T7200	30	30	0	PA Review TAA T-7: Vertical Transportation	12AUG05	23SEP05	13MAR06	21APR06	146
T7210	0	0	0	PA ISSUE RIDER A TAA T-7: Vertical Transport	26SEP05		24APR06		146
T7220	10	10	0	Design Team Inc Rider A TAA T-7: VT	26SEP05	7OCT05	24APR06	5MAY06	146
T7250	0	0	0	PA ISSUE NTP T-7: Vertical Transportation		21OCT05		5FEB07	326
T8100	205	205	0	Prepare Package T-8: PLB	21OCT04*	11AUG05	1AUG05	19MAY06	196
T8150	0	0	0	SUBMIT TAA T-8: PLB	12AUG05		22MAY06		196
T8200	30	30	0	PA Review TAA T-8: PLB	12AUG05	23SEP05	22MAY06	3JUL06	196
T8210	0	0	0	PA ISSUE RIDER A TAA T-8: PLB	26SEP05		5JUL06		196
T8220	10	10	0	Design Team Inc Rider A TAA T-8: PLB	26SEP05	7OCT05	5JUL06	18JUL06	196
T8250	0	0	0	PA ISSUE NTP T-8: PLB		21OCT05		16JAN08	566
T9100	155	155	0	Prepare Package T-9: Security Data	10JAN05*	17AUG05	30JUN05	8FEB06	121
T9150	0	0	0	SUBMIT TAA T-9: Security Data	12AUG05		3FEB06		121
T9200	30	30	0	PA Review TAA T-9: Security Data	12AUG05	23SEP05	3FEB06	17MAR06	121
T9210	0	0	0	PA ISSUE RIDER A TAA T-9: Security Data	26SEP05		20MAR06		121
T9220	10	10	0	Design Team Inc Rider A TAA T-9: Security Data	26SEP05	7OCT05	20MAR06	31MAR06	121
T9250	0	0	0	PA ISSUE NTP T-9: Security Data		21OCT05		20MAR07	356

Section 1.2

Terminal 5 At Grade Connector Schedule

ID	Task Name	Start	Finish
1	**Planning**	**Mon 5/2/05**	**Mon 10/31/05**
2	Finalize Scope and Concept	Mon 5/2/05	Mon 10/31/05
3	**Design/Approval**	**Mon 11/14/05**	**Tue 2/28/06**
4	Prepare Design	Mon 11/14/05	Wed 2/1/06
5	TAA Review	Wed 2/1/06	Tue 2/28/06
6	**Contractor Selection**	**Wed 3/1/06**	**Wed 5/3/06**
7	Issue CD's For Bid	Wed 3/1/06	Thu 3/30/06
8	Review Proposals	Fri 3/31/06	Wed 4/12/06
9	Select and Award Contract	Thu 4/13/06	Wed 5/3/06
10	**Site Preparation**	**Mon 4/3/06**	**Fri 6/30/06**
11	Site Preparation	Mon 4/3/06	Fri 6/30/06
12	**Foundations**	**Mon 7/3/06**	**Fri 9/29/06**
13	Foundations	Mon 7/3/06	Fri 9/29/06
14	**Structure**	**Mon 10/2/06**	**Mon 9/3/07**
15	Columns and Exterior Skin	Mon 10/2/06	Mon 9/3/07
16	**Vertical Circulation**	**Tue 1/2/07**	**Mon 9/3/07**
17	Elevator/Escalator Core, Moving Walkways	Tue 1/2/07	Mon 9/3/07
18	**Mechanical Electrical Plumbing**	**Tue 1/2/07**	**Wed 10/31/07**
19	Rough and Finish MEP	Tue 1/2/07	Wed 10/31/07
20	**Final Testing and Inspections**	**Mon 9/3/07**	**Mon 12/31/07**
21	Final Testing and Inspections	Mon 9/3/07	Mon 12/31/07



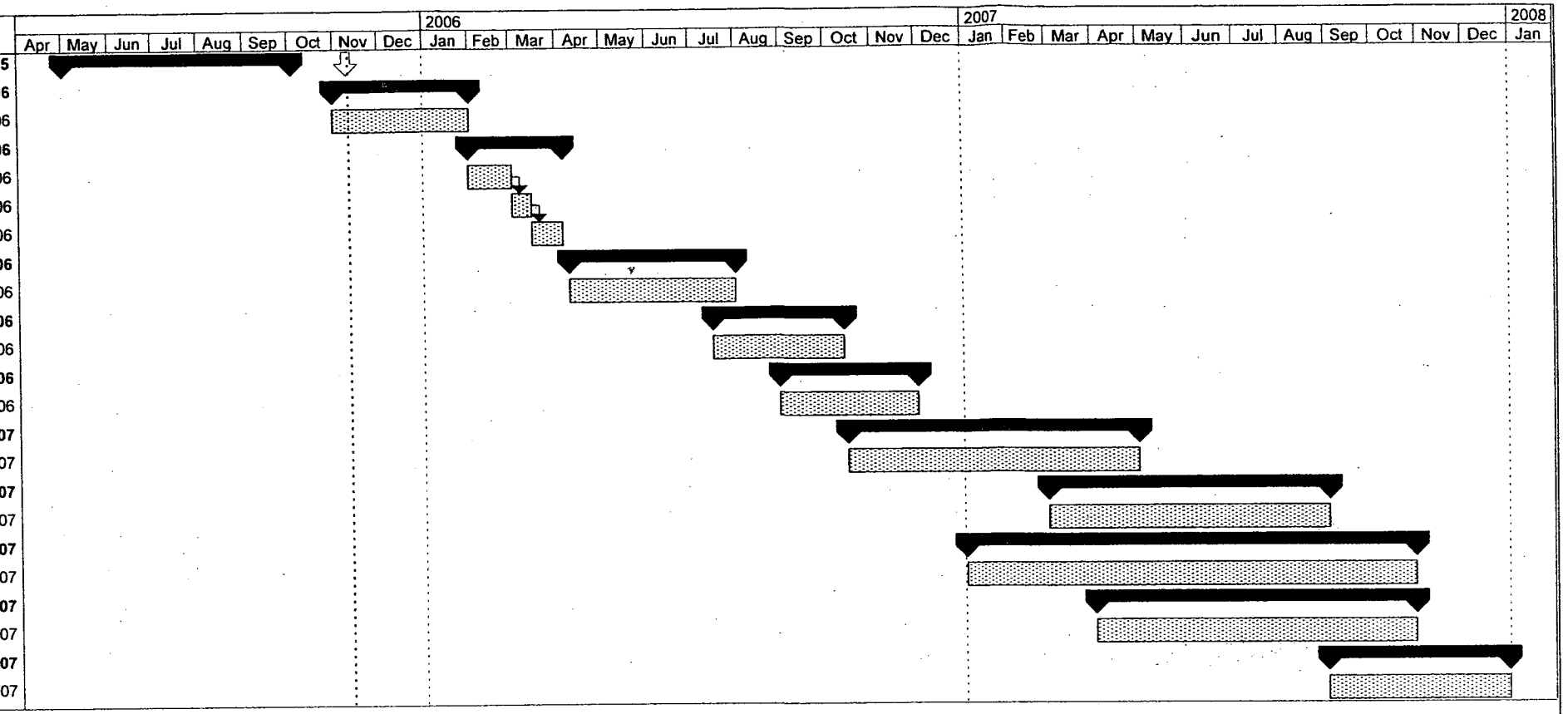
Project: Project1
Date: Thu 11/10/05

Task
Split
Progress
Milestone
Summary
Project Summary
External Tasks
External Milestone
Deadline

Section 1.3

Terminal 5-6 Parking Garage Schedule

ID	Task Name	Start	Finish
1	**Planning**	**Mon 5/2/05**	**Mon 10/3/05**
3	**Preliminary Design**	**Tue 11/1/05**	**Wed 2/1/06**
4	Prepare 20% Design	Tue 11/1/05	Wed 2/1/06
5	**Contractor Selection**	**Wed 2/1/06**	**Wed 4/5/06**
6	Issue RFP for Design/Build	Wed 2/1/06	Thu 3/2/06
7	Review Proposals	Fri 3/3/06	Wed 3/15/06
8	Select and Award Contract	Thu 3/16/06	Wed 4/5/06
9	**Final Design and Approval**	**Mon 4/10/06**	**Tue 8/1/06**
10	Design Drawings and Approval	Mon 4/10/06	Tue 8/1/06
11	**Preliminary Site Preparation**	**Mon 7/17/06**	**Fri 10/13/06**
12	Site Preparation	Mon 7/17/06	Fri 10/13/06
13	**Foundations**	**Fri 9/1/06**	**Fri 12/1/06**
14	Piles and Foundations	Fri 9/1/06	Fri 12/1/06
15	**Superstructure**	**Mon 10/16/06**	**Mon 4/30/07**
16	Columns, Pre-Cast and Concrete	Mon 10/16/06	Mon 4/30/07
17	**Vertical Circulation**	**Fri 3/2/07**	**Mon 9/3/07**
18	Elevator Core	Fri 3/2/07	Mon 9/3/07
19	**Mechanical Electrical Plumbing**	**Tue 1/2/07**	**Wed 10/31/07**
20	Rough and Finish MEP	Tue 1/2/07	Wed 10/31/07
21	**Site Roads**	**Mon 4/2/07**	**Wed 10/31/07**
22	Site Roads	Mon 4/2/07	Wed 10/31/07
23	**Final Testing and Inspections**	**Mon 9/3/07**	**Mon 12/31/07**
24	Final Testing and Inspections	Mon 9/3/07	Mon 12/31/07



Project: Project1
Date: Fri 11/11/05

Task | Progress | Summary | External Tasks | Deadline
Split | Milestone | Project Summary | External Milestone