Jeremy Jewart Construction Management Option



Baldwin High School Pittsburgh, PA

Dr. Riley October 30, 2006

TECHNICAL ASSIGNMENT #2 Construction Project Management

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Executive Summary

This technical assignment encompasses a number of the actual construction management responsibilities that are required to adequately manage a construction project. Enclosed within, you will find a detailed schedule, site layout plan, assemblies estimate, detailed structural systems estimate, and a general conditions estimate. These were compiled to show the extensive level of detail and a summarized cost breakdown of some of the major building pieces that have and will be going into the facility.

To receive a better understanding of Baldwin High School's renovations and additions, we must first take a closer look at the project's detailed schedule. On the schedule, work picks up during Phase I of the project in September of 2006, and is accounted for until closeout of this section in January of 2007. Because the project has five phases and is currently in the middle of Phase I completion, illustrating this phase was used for the most up-to-date information available.

The schedule adequately serves as a reference base to complete activities on time, but a proper site layout plan also alleviates a vast number of schedule concerns. Accompanying the Phase I schedule will be further elaboration on the site orientation at this time. The site layout plan depicts proper material staging areas, temporary facilities, and access roadways during Phase I of the project. Implementation of the new gym, natatorium, and lock room areas will be examined here.

To give a better understanding of the cost budgeting on the project, a series of estimates have also been compiled. The first estimate is an assemblies estimate and it concentrates primarily on the equipment added during Phase I of construction. Take-offs of the equipment were performed for the sole purpose of elaboration on the innovative approaches that Baldwin School District is taking to comply with today's 21st century standards. The estimate accounts for 1.5% of the total building cost.

The second estimate performed was a detailed structural estimate. This provided primarily the superstructure and foundation materials that will be needed during Phase II & III of the renovation. An extensive curtain wall system will be introduced to the southern part of the building and its structural components were of great interest to examine further. Phase I has been discussed thoroughly during Technical Report #1 so a brief incite into the costs of upcoming activities in Phases II & III were thought to be a source for good comparison. Accumulating 9.5% of the total building cost, this estimate portrays one of the "big-ticket" items that will bring Baldwin High School to the forefront of modernization in high school facilities.

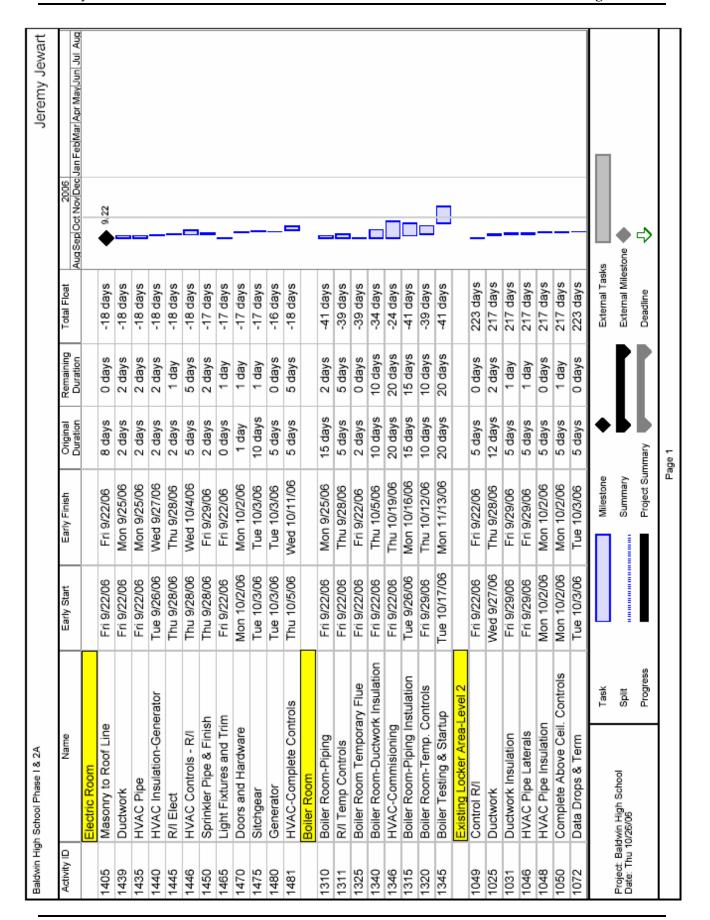
The last estimate assembled was a general conditions estimate. This estimate was used to accurately compare some of the up-front costs of the project to other building costs that were estimated as well. The general conditions estimate accounts for 3.6% of the total building cost, and plays a somewhat insignificant role in determination of the entire \$54,552,000.00 estimated budget.

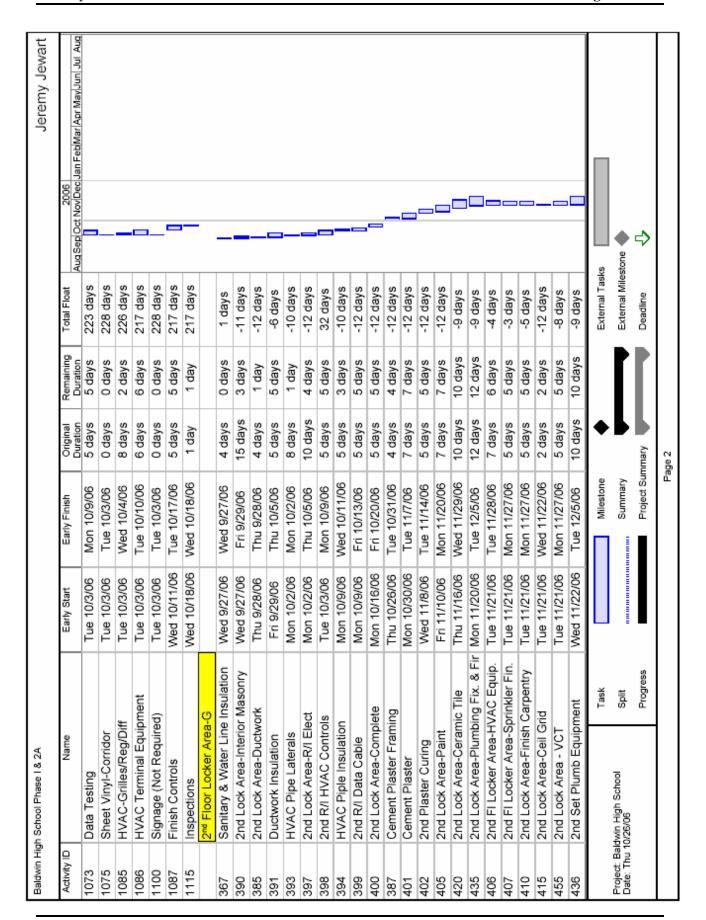
Detailed Project Schedule

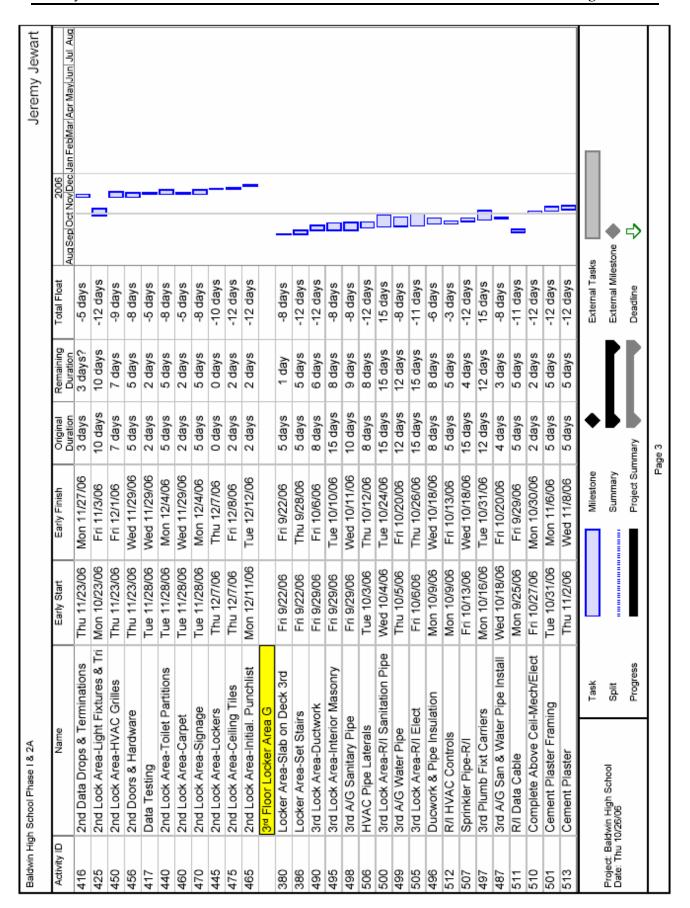
The detailed schedule of Baldwin High School's additions and renovations can be depicted below. The schedule adequately illustrates the project's sequencing process during the 1st Phase of construction. Demolition of the existing pool and locker room structure was initially started in January of 2006 and was completed by September of 2006. It has been omitted from the schedule however, due to brevity. The schedule's activities are shown from the end of September 2006 up until Phase I completion in April of 2007.

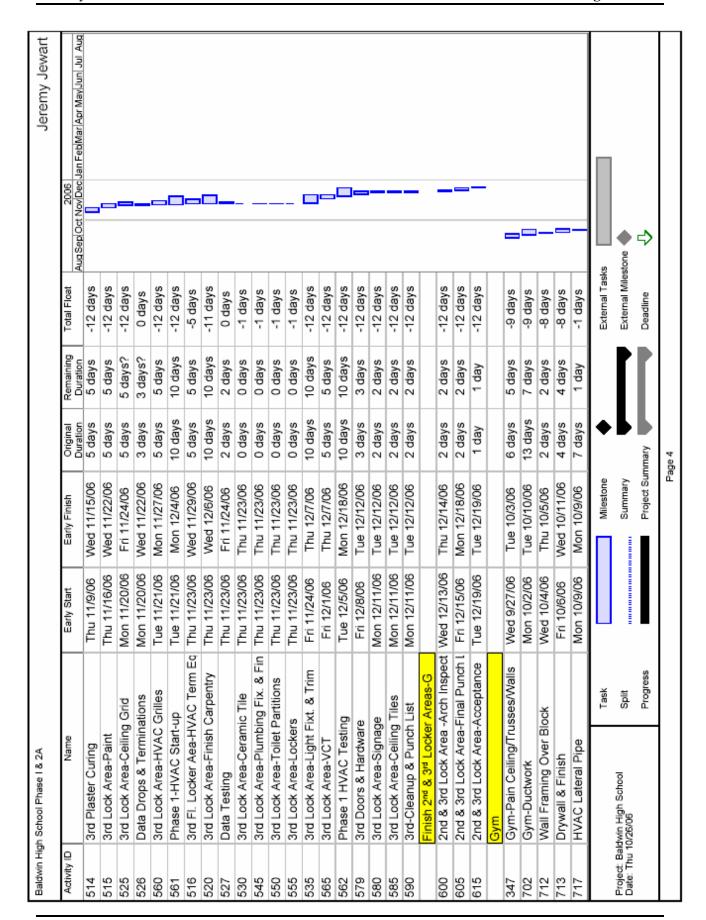
The sequencing depicts construction of the new electric and boiler rooms; alongside erection of the new gymnasium, natatorium, and locker room areas. Listed are 182 activities and their early starts, finishes, and allotments for float time. The sequencing of trades induced a decrease in the overall project time-frame of the renovation. This was a primary concern due to the opening day of school on August 22, 2006. Continual usage of this process will see Phase I completion by April 9, 2007. This will allow for summer 07' activities to be held in the gym, natatorium, and pool areas of the newly refurbished building.

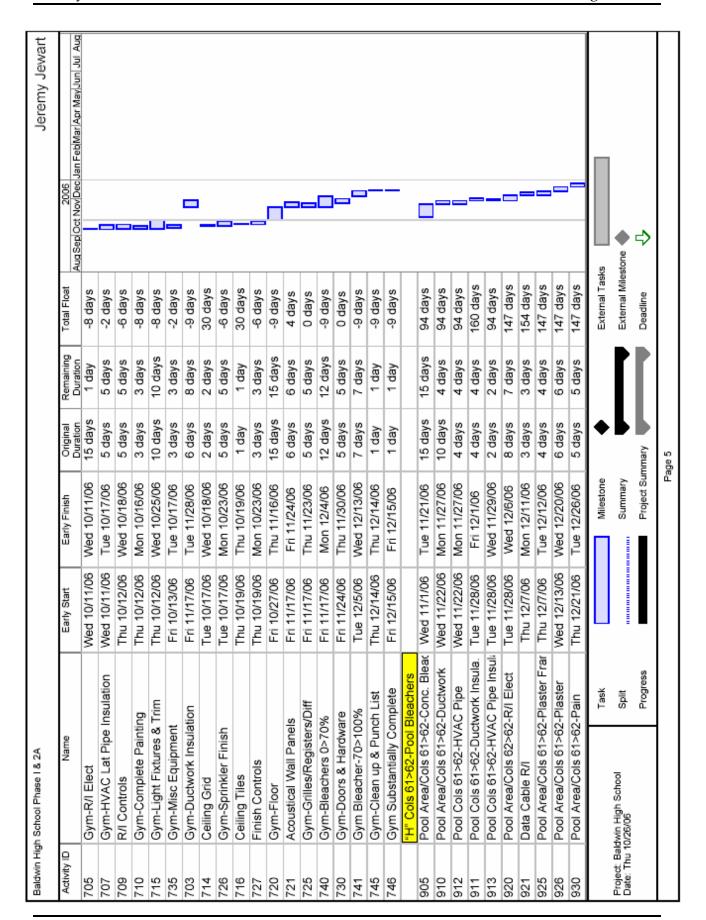


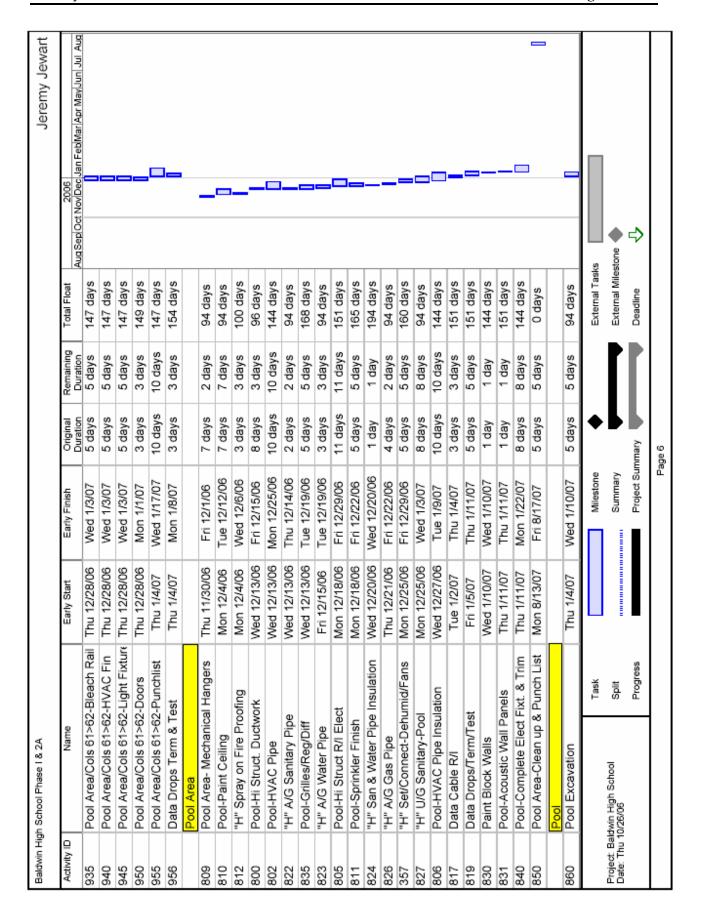


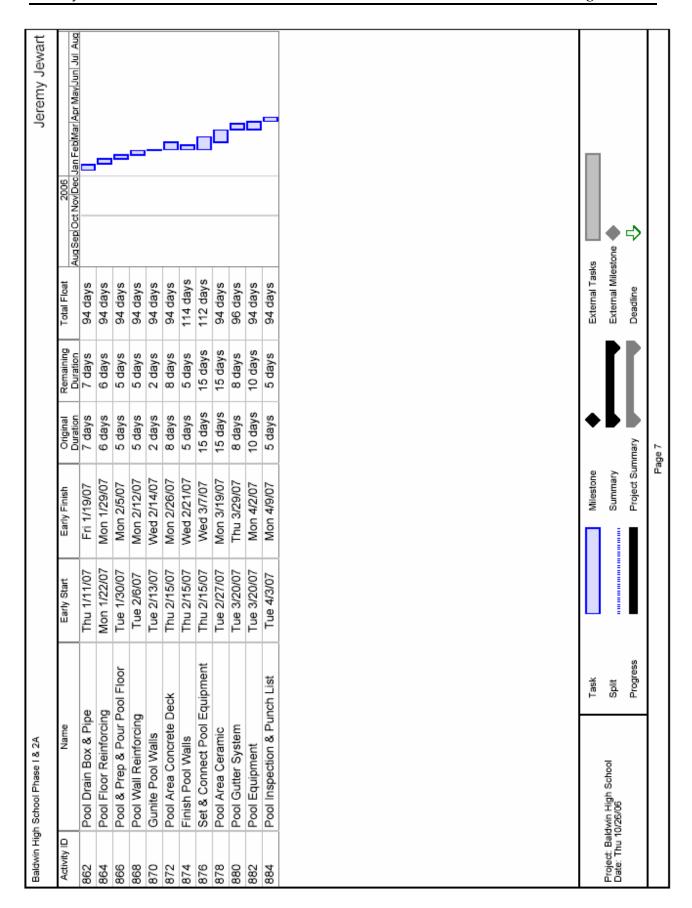






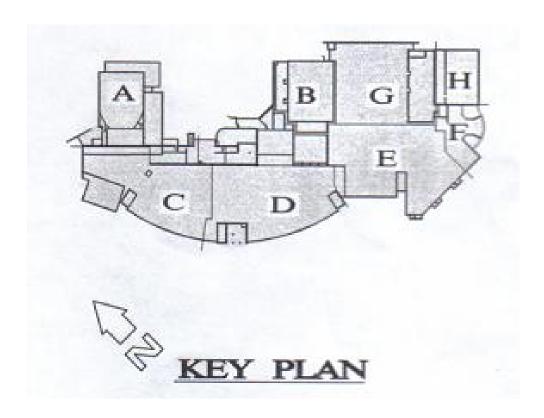


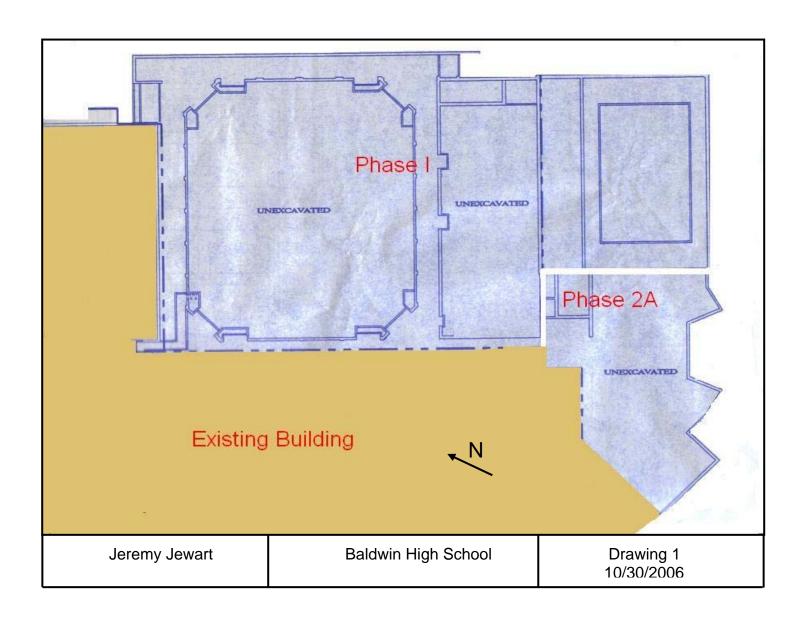


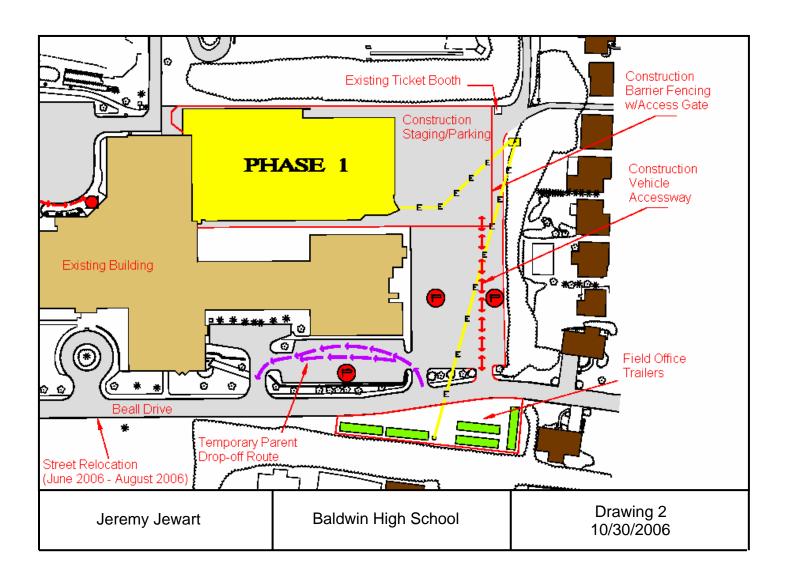


Site Layout Planning

The site layout devised for this technical assignment focuses primarily on Phase I of construction. Temporary facilities, staging areas, and paths of egress have been properly noted and can help to visualize movement on the site. A more elaborate sequencing and phasing site model has also been included. This was incorporated to alleviate any uncertainties that were posed by activities on the schedule that were not properly assigned to one of the five phasing spots on previous sequencing plans.



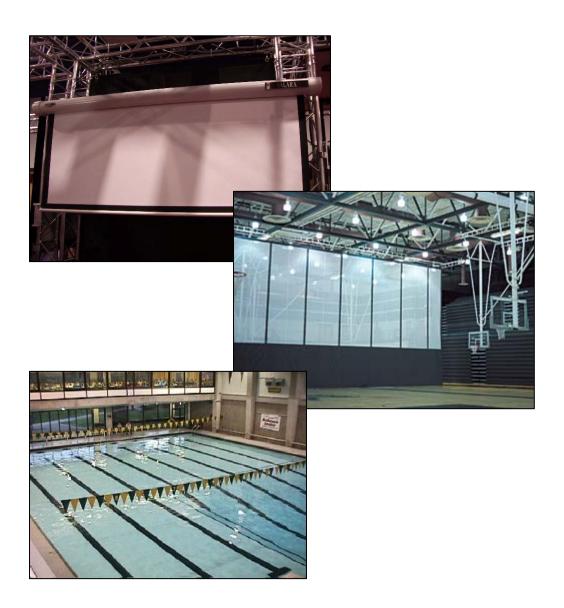




Assemblies Estimate

Baldwin High School is currently performing construction in the 2nd phase of its sequencing process. Completion of Phase I included additions and renovations of the gym, swimming, and natorium areas of the facility. To further elaborate on the project's complexity and initial cost breakdown, an assemblies estimate was performed for the equipment installed at this time. Take-offs were taken in order to illustrate some of the new audio/visual equipment that students are currently utilizing in these areas.

The total equipment cost shows the dollar amount of new technological features added in just the 1st Phase of this three year long project. It also illustrates how "small" this figure is (\$821,300.00), 1.5% of the total building construction cost of \$54,552,000.00.



ASSEMBLIES ESTIMATE Detailed Worksheet						
Project Name: Baldwin High School Dates of Construction: September 2005 - February 2006						
	Stage Equipment	Qty	Unit	Price	Amount	
11060.000	TY Curtains & Equipment	1	allw	\$25,000.00	\$25,000.00	
11060.005	Pipe Grid 1/2"	365	Inft	\$30.00	\$10,950.00	
11060.010	Cycloramia Curtain & Track	70	Inft	\$25.00	\$1,750.00	
	cyclorallia cartain a riaci			Total	\$37,700.00	
Audiovisua	l Equipment	Qty	Unit	Price	Amount	
11130.001	Projection Screens 8'	5	each	\$2,500.00	\$12,500.00	
11130.002	Projection Screens 10'	2	each	\$3,000.00	\$6,000.00	
11130.003	Projection Screens 11'	2	each	\$3,300.00	\$6,600.00	
11130.004	Projection Screens 16'	2	each	\$5,000.00	\$10,000.00	
				Total	\$35,100.00	
Loading Do	ck Equipment	Qty	Unit	Price	Amount	
11160.001	Loading Dock Bumpers	5	each	\$200.00	\$1,000.00	
				Total	\$1,000.00	
Athletic and	Therapeutic Equipment	Qty	Unit	Price	Amount	
11480.001	Gym Divider Curtain	240	Inft	\$75.00	\$18,000.00	
	Scoreboard Existing Gym	2	each	\$14,000.00	\$28,000.00	
	Basket Ball Goals Competition	2	each	\$7,500.00	\$15,000.00	
	Basket Ball Goals Competition- ETR		each	\$7,500.00		
	Basket Ball Goals Practice	4	each	\$5,000.00	\$20,000.00	
	Basket Ball Goals Practice- ETR		each	\$5,000.00		
	Scoreboards Pool	1	allw	\$29,000.00	\$29,000.00	
	Volleyball Equipment	1	lpsm	\$5,000.00	\$5,000.00	
	Scoreboards Gym	1	allw	\$28,000.00	\$28,000.00	
11480.006		ı,	lpsm	\$25,000.00	\$25,000.00	
11481.000	Pool Equipment	ı	allw	\$400,000.00	\$400,000.00	
				Total	\$568,000.00	
Laboratory		Qty	Unit	Price	Amount	
	Acid Storage Cabinet	1	each	\$8,500.00	\$8,500.00	
	Emergency Showers	3	each	\$7,500.00	\$22,500.00	
11460.005	Fume Hoods	10	each	\$10,000.00	\$100,000.00	
	Spray Booth	4 1	each	\$10,000.00 \$400,000.00	\$40,000.00	
11481.000	Flammable Storage Cabinet	1	each	Total	\$8,500.00 \$179,500.00	
				· otai	1173,300.00	
			Total Facili		£831 300 00	
			Total Equip	ment.	\$821,300.00	
			% of Project	t Cost:	1.51	

Detailed Structural Systems Estimate

The Detailed Structural Systems Estimate was compiled using RS Means unit/cost data. Items that were included make up most of the superstructure and foundation components of the building for its southern wing. Take-offs were documented, so that a cost comparison could be utilized to compare costs with a major structural section of the facility. The southern most face of the building encompasses the new construction of a curtain wall, which will span its entirety. This unique feature is what led to compiling an estimate of this specific nature for this particular part of the building. A detailed analysis was performed and an estimated building cost of \$5,153,147.00 was achieved. This is 9.5% of the total building construction cost.

Detailed Structural Systems Estimate Worksheet						
Project Name: Baldwin High School						
Dates of Construction: September 2005 - February 2006						
Foundations		Qty	Unit	Price	Amount	
02450.001	Caissons 30" Dia	24	Inft	\$65.00	\$1,560.00	
02450.002	Caissons 36" Dia	161	Inft	\$92.00	\$14,812.00	
02450.003	Caissons 40" Dia	11	Inft	\$114.00	\$1,254.00	
02450.004	Caissons 42" Dia	183	Inft	\$125.00	\$22,875.00	
02450.005	Caissons 48" Dia	392	Inft	\$163.00	\$63,896.00	
02450.006	Caissons 54" Dia	36	Inft	\$206.00	\$7,416.00	
02450.007	Caissons 60" Dia	16	Inft	\$255.00	\$4,080.00	
02450.008 02450.009	Caissons 66" Dia Caissons 72" Dia	53 9	Inft Inft	\$308.00 \$367.00	\$16,324.00 \$3,303.00	
					,	
02450.010	Rock Sockets (2'/Caisson)	67	cuyd	\$500.00	\$33,500.00	
				Total	\$169,020.00	
Cast- in- Plac	ce Concrete	Qty	Unit	Price	Amount	
03300.039	Grade Beams GB 1-5	150.00	Inft	\$96.00	\$14,400.00	
03300.040	Grade Beams GB 6- 9	60.00	Inft	\$98.00	\$5,880.00	
03300.041	Grade Beams GB 10-14	145.00	Inft	\$96.00	\$13,920.00	
03300.042	Grade Beams GB 15-23	170.00	Inft	\$98.00	\$16,660.00	
03300.043	Grade Beams GB 24-39	380.00	Inft	\$84.00	\$31,920.00	
03300.044 03300.045	Grade Beams GB 40- 52 Grade Beams GB 53	190.00 15.00	Inft Inft	\$74.00 \$125.00	\$14,060.00 \$1,875.00	
03300.039 03300.040	Spread Footing 4'x4'x1' Spread Footing 4'x4'x1.5'	99.00 14.00	each each	\$270.00 \$390.00	\$26,730.00 \$5,460.00	
03300.040	Spread Footing 4 x4 x1.5 Spread Footing 4'x4'x1'	1.00	each each	\$185.00	\$5,980.00	
03300.041	Spread Footing 4 X4 X1 Spread Footing 3'x3'x1'	13.00	each	\$460.00	\$22,790.00	
03300.042	Spread Footing 5'x5'x1.33'	43.00	each	\$530.00	\$32,430.00	
03300.044	Spread Footing 5'x5'x1.5'	47.00	each	\$690.00	\$13,920.00	
03300.045	Spread Footing 6'x6'x1.5'	16.00	each	\$870.00	\$6,540.00	
03300.046	Spread Footing 7'x7'x1.5'	6.00	each	\$1,090.00	\$1,395.00	
03300.047	Spread Footing 8'x8'x2'	1.00	each	\$1,395.00	\$1,130.00	
03300.048	Spread Footing 8'x8'x1.5'	1.00	each	\$1,130.00	\$2,590.00	
03300.049	Spread Footing 5'x5'x1'	7.00	each	\$370.00	\$2,410.00	
03300.050	Spread Footing 8'x8'x1.75'	2.00	each	\$1,205.00	\$1,205.00	
03300.051	Spread Footing 9'x9'x2'	1.00	each	\$1,600.00	\$1,600.00	
03300.075	Concrete Walls 10"	2070.00	sqft	\$27.35	\$56,614.50	
03300.076	Concrete Walls 12"	2840.00	sqft	\$28.75	\$81,650.00	
03300.077	Concrete Walls 14"	1400.00	sqft	\$30.00	\$42,000.00	
03300.078 03300.079	Concrete Walls 15" Concrete Walls 18"	1715.00	sqft	\$30.65 \$32.50	\$52,564.75 \$76,862.50	
03300.079	Concrete Walls 18 Concrete Walls 20"	2365.00 250.00	sqft sqft	\$32.50	\$8,500.00	
03300.080	Concrete wans 20	230.00	sqit	Total	\$541,086.75	
				TOTAL	¥341,000.73	

Masonry		Qty	Unit	Price	Amount
04200.020	Block 6"	1900.00	sqft	\$8.00	\$15,200.00
04200.021	Block 8"	26250.00	sqft	\$10.00	\$262,500.00
04200.022	Block 10"	2190.00	sqft	\$12.00	\$26,280.00
04200.023	Block 12"	4850.00	sqft	\$14.00	\$67,900.00
04200.024	Block 14"	4770.00	sqft	\$16.00	\$76,320.00
04200.025	Block 16"	6380.00	sqft	\$18.00	\$114,840.00
04200.026	Block 18"	1870.00	sqft	\$20.00	\$37,400.00
04200.027	Block 20"	10540.00	sqft	\$26.00	\$5,184.00
04200.030	Foundation Block 8"	3265.00	sqft	\$12.00	\$39,180.00
04200.031	Foundation Block 12"	6543.00	sqft	\$16.00	\$104,688.00
04200.032	Foundation Block 14"	2245.00	sqft	\$18.00	\$40,410.00
04200.033	Foundation Block 16"	1205.00	sqft	\$20.00	\$24,100.00
04200.034	Foundation Block 18"	5740.00	sqft	\$22.00	\$126,280.00
04200.035	Foundation Block 20"	3715.00	sqft	\$26.00	\$96,590.00
				Total	\$1,036,872.00
Metals		Qty	Unit	Price	Amount
05100.002	Columns	340.00	tons	\$3,000.00	\$1,020,000.00
08900.003	ACC Column (Curtain Wall)	10.00	each	\$2,500.00	\$25,000.00
05200.001	Gym & Pool Trusses	110.00	tons	\$3,000.00	\$330,000.00
05300.001	Metal Deck	150000.00	sqft	\$2.00	\$300,000.00
05300.002	Roof Deck	133475.00	sqft	\$2.00	\$266,950.00
05300.003	Acoustic Deck	26640.00	sqft	\$3.50	\$93,240.00
08900.001	Curtainwall Spandrel and Vision	14750.00	sqft	\$43.00	\$634,250.00
				Total	\$2,669,440.00
				ΤΟΙΔΙ	\$2,009,440.00
	loor Beams and Girders	Length	Qty	lbs	Amount
05100.001	W 8x10	8.00	220	lbs 17,600.00	
				lbs	Amount
05100.001 05100.002	W 8x10 W 8x10	8.00 12.00	220 18	17,600.00 2,160.00	Amount
05100.001 05100.002 05100.003	W 8x10 W 8x10 W 10x12	8.00 12.00 6.00	220 18 26	15s 17,600.00 2,160.00 1,872.00	Amount
05100.001 05100.002 05100.003 05100.004	W 8x10 W 8x10 W 10x12 W 10x12	8.00 12.00 6.00 8.00	220 18 26 24	17,600.00 2,160.00 1,872.00 2,304.00	Amount
05100.001 05100.002 05100.003	W 8x10 W 8x10 W 10x12	8.00 12.00 6.00	220 18 26	15s 17,600.00 2,160.00 1,872.00	Amount
05100.001 05100.002 05100.003 05100.004 05100.005 05100.006	W 8x10 W 8x10 W 10x12 W 10x12 W 10x12 W 10x71	8.00 12.00 6.00 8.00 20.00 22.00	220 18 26 24 16 6	17,600.00 2,160.00 1,872.00 2,304.00 3,840.00 9,372.00	Amount
05100.001 05100.002 05100.003 05100.004 05100.005	W 8x10 W 8x10 W 10x12 W 10x12 W 10x12	8.00 12.00 6.00 8.00 20.00	220 18 26 24 16	17,600.00 2,160.00 1,872.00 2,304.00 3,840.00	Amount
05100.001 05100.002 05100.003 05100.004 05100.005 05100.006	W 8x10 W 8x10 W 10x12 W 10x12 W 10x12 W 10x71 W 12x30	8.00 12.00 6.00 8.00 20.00 22.00	220 18 26 24 16 6	17,600.00 2,160.00 1,872.00 2,304.00 3,840.00 9,372.00 2,880.00	Amount
05100.001 05100.002 05100.003 05100.004 05100.005 05100.006	W 8x10 W 8x10 W 10x12 W 10x12 W 10x12 W 10x71	8.00 12.00 6.00 8.00 20.00 22.00	220 18 26 24 16 6	17,600.00 2,160.00 1,872.00 2,304.00 3,840.00 9,372.00	Amount
05100.001 05100.002 05100.003 05100.004 05100.005 05100.006 05100.007 05100.008	W 8x10 W 8x10 W 10x12 W 10x12 W 10x12 W 10x71 W 12x30	8.00 12.00 6.00 8.00 20.00 22.00	220 18 26 24 16 6	17,600.00 2,160.00 1,872.00 2,304.00 3,840.00 9,372.00 2,880.00	Amount
05100.001 05100.002 05100.003 05100.004 05100.005 05100.006 05100.007 05100.008	W 8x10 W 8x10 W 10x12 W 10x12 W 10x12 W 10x71 W 12x30 W 18x26	8.00 12.00 6.00 8.00 20.00 22.00 12.00	220 18 26 24 16 6 8	1bs 17,600.00 2,160.00 1,872.00 2,304.00 3,840.00 9,372.00 2,880.00 4,368.00 39,200.00 2,800.00	Amount
05100.001 05100.002 05100.003 05100.004 05100.005 05100.006 05100.007 05100.008	W 8x10 W 8x10 W 10x12 W 10x12 W 10x12 W 10x71 W 12x30 W 18x26 W 18x35	8.00 12.00 6.00 8.00 20.00 22.00 12.00 12.00	220 18 26 24 16 6 8 14	1bs 17,600.00 2,160.00 1,872.00 2,304.00 3,840.00 9,372.00 2,880.00 4,368.00 39,200.00	Amount
05100.001 05100.002 05100.003 05100.004 05100.005 05100.006 05100.007 05100.008 05100.009 05100.010 05100.011	W 8x10 W 8x10 W 10x12 W 10x12 W 10x12 W 10x71 W 12x30 W 18x26 W 18x35 W 18x35 W 18x35	8.00 12.00 6.00 8.00 20.00 22.00 12.00 12.00 16.00 40.00 46.00	220 18 26 24 16 6 8 14 70 2	1bs 17,600.00 2,160.00 1,872.00 2,304.00 3,840.00 9,372.00 2,880.00 4,368.00 39,200.00 2,800.00 3,200.00	Amount
05100.001 05100.002 05100.003 05100.004 05100.005 05100.006 05100.007 05100.008 05100.009 05100.010 05100.011	W 8x10 W 8x10 W 10x12 W 10x12 W 10x12 W 10x71 W 12x30 W 18x26 W 18x35 W 18x35 W 18x35 W 18x35	8.00 12.00 6.00 8.00 20.00 22.00 12.00 16.00 40.00 46.00	220 18 26 24 16 6 8 14 70 2 2	1bs 17,600.00 2,160.00 1,872.00 2,304.00 3,840.00 9,372.00 2,880.00 4,368.00 39,200.00 2,800.00 3,200.00 6,400.00	Amount
05100.001 05100.002 05100.003 05100.004 05100.005 05100.006 05100.007 05100.008 05100.009 05100.010 05100.011	W 8x10 W 8x10 W 10x12 W 10x12 W 10x12 W 10x71 W 12x30 W 18x26 W 18x35 W 18x35 W 18x35 W 18x35 W 18x40 W 18x46	8.00 12.00 6.00 8.00 20.00 22.00 12.00 12.00 16.00 40.00 46.00	220 18 26 24 16 6 8 14 70 2 2	1bs 17,600.00 2,160.00 1,872.00 2,304.00 3,840.00 9,372.00 2,880.00 4,368.00 39,200.00 2,800.00 3,200.00 6,400.00 4,048.00	Amount
05100.001 05100.002 05100.003 05100.004 05100.005 05100.006 05100.007 05100.008 05100.009 05100.010 05100.011 05100.012 05100.013 05100.014	W 8x10 W 8x10 W 10x12 W 10x12 W 10x12 W 10x71 W 12x30 W 18x26 W 18x35 W 18x35 W 18x35 W 18x35 W 18x40 W18x40 W18x46 W18x50	8.00 12.00 6.00 8.00 20.00 22.00 12.00 12.00 16.00 40.00 46.00 20.00 22.00 22.00	220 18 26 24 16 6 8 14 70 2 2 8 4 84	1bs 17,600.00 2,160.00 1,872.00 2,304.00 3,840.00 9,372.00 2,880.00 4,368.00 39,200.00 2,800.00 3,200.00 6,400.00 4,048.00 92,400.00	Amount
05100.001 05100.002 05100.003 05100.004 05100.005 05100.006 05100.007 05100.008 05100.009 05100.010 05100.011 05100.012 05100.013 05100.014 05100.015	W 8x10 W 8x10 W 10x12 W 10x12 W 10x12 W 10x71 W 12x30 W 18x26 W 18x35 W 18x35 W 18x35 W 18x35 W 18x35 W 18x35 W 18x35	8.00 12.00 6.00 8.00 20.00 22.00 12.00 12.00 16.00 40.00 46.00 20.00 22.00 22.00 24.00	220 18 26 24 16 6 8 14 70 2 2 8 4 84 4	1bs 17,600.00 2,160.00 1,872.00 2,304.00 3,840.00 9,372.00 2,880.00 4,368.00 39,200.00 2,800.00 3,200.00 6,400.00 4,048.00 92,400.00 5,280.00	Amount
05100.001 05100.002 05100.003 05100.004 05100.005 05100.006 05100.007 05100.008 05100.010 05100.011 05100.012 05100.013 05100.014 05100.015 05100.016	W 8x10 W 8x10 W 10x12 W 10x12 W 10x12 W 10x71 W 12x30 W 18x26 W 18x35 W 18x35 W 18x35 W 18x35 W 18x35 W 18x35 W 18x35 W 18x35	8.00 12.00 6.00 8.00 20.00 22.00 12.00 12.00 16.00 40.00 46.00 20.00 22.00 22.00 24.00 26.00	220 18 26 24 16 6 8 14 70 2 2 8 4 84 4 38	1bs 17,600.00 2,160.00 1,872.00 2,304.00 3,840.00 9,372.00 2,880.00 4,368.00 39,200.00 2,800.00 3,200.00 6,400.00 4,048.00 92,400.00 5,280.00 59,280.00	Amount
05100.001 05100.002 05100.003 05100.004 05100.005 05100.006 05100.007 05100.008 05100.010 05100.011 05100.012 05100.013 05100.014 05100.015 05100.016 05100.017	W 8x10 W 8x10 W 10x12 W 10x12 W 10x12 W 10x71 W 12x30 W 18x26 W 18x35 W 18x35 W 18x35 W 18x35 W 18x35 W 18x35 W 18x35 W 18x40 W 18x46 W 18x50 W 18x55 W 18x50 W 18x71	8.00 12.00 6.00 8.00 20.00 22.00 12.00 12.00 16.00 40.00 46.00 20.00 22.00 24.00 26.00 22.00	220 18 26 24 16 6 8 14 70 2 2 8 4 84 4 38 6	1bs 17,600.00 2,160.00 1,872.00 2,304.00 3,840.00 9,372.00 2,880.00 39,200.00 2,800.00 3,200.00 6,400.00 4,048.00 92,400.00 5,280.00 5,280.00 9,372.00	Amount
05100.001 05100.002 05100.003 05100.004 05100.005 05100.006 05100.007 05100.008 05100.010 05100.011 05100.012 05100.013 05100.014 05100.015 05100.016	W 8x10 W 8x10 W 10x12 W 10x12 W 10x12 W 10x71 W 12x30 W 18x26 W 18x35 W 18x35 W 18x35 W 18x35 W 18x35 W 18x35 W 18x35 W 18x35	8.00 12.00 6.00 8.00 20.00 22.00 12.00 12.00 16.00 40.00 46.00 20.00 22.00 22.00 24.00 26.00	220 18 26 24 16 6 8 14 70 2 2 8 4 84 4 38	1bs 17,600.00 2,160.00 1,872.00 2,304.00 3,840.00 9,372.00 2,880.00 4,368.00 39,200.00 2,800.00 3,200.00 6,400.00 4,048.00 92,400.00 5,280.00 59,280.00	Amount

05100.019	W12x14	12.00	64	10,752.00	
05100.020	W12x16	12.00	52	9,984.00	
05100.021	W12x18	12.00	8	1,728.00	
05100.022	W12x19	12.00	24	5,472.00	
05100.023	W12x26	12.00	8	2,496.00	
05100.024	W 14x22	8.00	26	4,576.00	
05100.025	W 14x22	10.00	24	5,280.00	
05100.026	W 16x26	12.00	10	3,120.00	
05100.027	W 16x31	20.00	8	4,960.00	
05100.028	W 16x40	16.00	4	2,560.00	
05100.029	W 16x50	16.00	4	3,200.00	
05100.030	W 16x57	16.00	8	7,296.00	
			2.0	00.4=0.00	
05100.031	W 21×44	18.00	28	22,176.00	
05100.032	W 21×50	18.00	20	18,000.00	
05100.033	W 21×57	14.00	26	20,748.00	
05100.034	W 24×55	24.00	44	58,080.00	
05100.034	W 24x55	32.00	32	56.320.00	
05100.035	W 24x62	26.00	20	32,240.00	
05100.037	W 24x68	26.00	4	7,072.00	
05100.037	W 24x76	30.00	6	13,680.00	
03100.030	2 1.0.7 0	30.00	Ü	10,000.00	
05100.039	W 27×55	12.00	2	1,320.00	
05100.040	W 27×84	12.00	4	4,032.00	
05100.041	W 30x99	22.00	22	47,916.00	
05100.042	W 30x108	22.00	6	14,256.00	
				736728 lbs	
			Total	245.56 tons	\$736,728.00
			Total Esti	mate	\$5,153,147.00

General Conditions Estimate

The general conditions estimate was calculated using current industry unit/cost figures, provided through RS Means Estimating Software. The total cost for general conditions is \$1,984,778.00 which is approximately 3.6% of the total construction cost of the project. Because this is a renovation project, the already existing building provided adequate utility tie-ins and alleviated some of the stress of having to rent a large number of temporary facilities. Many of the temporary utilities were accounted for by sub-contractor contracts and were not used to compile this estimate.

General Conditions Estimate						
Worksheet						
Project Name: Baldwin High School						
Dates of C	Construction: September 200 n & Project Management	05 - Februar Qty	y 2006 Unit	Price	Amount	
Supervision	Superintendent	52	weeks	\$1,313.00	\$68,276.00	
	Project Executive	44	weeks	\$1,495.00	\$65,780.00	
	Project Executive Project Manager	52	weeks	\$1,395.00	\$72,540.00	
	Project Manager	52	weeks	\$1,395.00	\$72,540.00	
	Assitant Project Manager	52	weeks	\$1,005.00	\$52,260.00	
		-		Total	\$331,396.00	
Site Prepara	ation	Qty	Unit	Price	Amount	
02200.001	Building Demolition	4,144,000.00	cuft	\$0.35	\$1,450,400.00	
02200.002	-	230.00	Inft	\$5,000.00	\$1,150,00	
02200.003	Remove Asphalt	86,200.00	sqft	\$0.50	\$43,100.00	
	Remove Roadway	20,400.00	sqft	\$0.85	\$17,340.00	
	Strip Topsoil	620.00	cuyd	\$8.00	\$4,960.00	
	Remove Chain Link Fence	230.00	Inft	\$4.00	\$920.00	
	Clear & Grubb Slope	0.33	acres	\$5,500.00	\$1,815.00	
02200.009		70.00	Inft	\$250.00	\$17,500.00	
02200.010	Remove Slab- On- Grade	3,240.00	sqft	\$4.00	\$12,960.00	
				Total	\$1,550,145.00	
Temporary	Utilities	Qty	Unit	Price	Amount	
	Temporary Power Hookups	52	weeks	\$3.14	\$163.28	
	Office Trailer	1	50'x10'	\$20,450.00	\$20,450.00	
	Office Trailer (modular classroom)		68'x28'	\$50,000.00	\$50,000.00	
02800.001	Chain Link Fence	1170	Inft	\$10.00	\$11,700.00	
	Chain Link Gate	3	each	\$600.00	\$1,800.00	
	Office Supplies	12	months		\$1,980.00	
	Office Telephone	12	months		\$2,688.00	
	Copy Machine	12 12	months		\$1,920.00	
01520.550	Computer Equiment Fax Machine	12	months		\$2,640.00 \$1,200.00	
01520.550		12	months months		\$7,200.00	
	Drinking Water & Cups	52	weeks	\$20.00	\$1,040.00	
	Portable Toilet	4	each	\$114.00	\$456.00	
01310.800	Portable Tollet	4	eacii	Total	\$103,237.00	
				TOTAL	\$105,257.00	
	Total General Cond. \$1,984,778.00					