

SECTION 00 91 03

ADDENDUM NO. 4

SUMMARY

This document includes requirements that clarify or supersede portions of the Request for Proposal. This Addendum is a Contract Document.

General

The following changes, additions and deletions shall be made to the following document(s); all other conditions shall remain the same.

A. PROPOSAL FORM

Item No.	Reference	Description
1.	Section 00 41 00	Appendix 1 to 00 41 00 Proposal Form – Life Cycle Cost Analysis Data, V.2 dated April 10, 2008, attached, replaces V.1 dated March 10, 2008.

B. SPECIFICATIONS

Item No.	Reference	Description
1.	Document 00 01 10	Table of Contents V.5 dated April 10, 2008, attached, supersedes V.4 dated April 4, 2008, adds Section 00 91 04 Addendum No. 4 and the Volume 2 – Technical Specification sections with the following revisions: a. Section number for “Joint Sealants” is changed to 32 13 73. b. Section number for “Metal Railings and handrails” is changed to 32 31 19.
2.	Section 00 91 04	Addendum No.4: Add this section to Volume 1 of the Specifications.
3.	Volume 2 – Technical Specifications	Delete the Table of Contents included with the February 5, 2008 issue of Volume 2 – Technical Specifications. Refer to Document 00 01 10 Table of Contents V.5.
4.	Section 31 10 00	There are two Specification Sections 31 10 00 in Volume 2. Delete in its entirety the section entitled “Clearing, Grubbing and Miscellaneous Demolition” and use the section entitled “Site Preparation” in this project.

C. CLARIFICATIONS

Item No.	Reference	Clarification
1.	Section 28 05 53	Security System Labeling – The section number in the footer should read 28 05 53 , instead of 28 00 53.
2.	Appendix A	<p>Sign Program – The cost of the following items shall be included in Alternate No. 6:</p> <ul style="list-style-type: none"> - LW – Individual letters, wall-mounted - PL – Logo plaque at columns - ID – Campus identification <p>The banners at the column are not included in the project, but the banner supports are, per Detail L5.4-2 in Addendum No. 1. The banner supports shall be included in the Base Bid.</p> <p>The granite boulder depicted in the picture showing the “Campus Identification” sign is included in the purchase allowance for granite.</p>

END OF SECTION

Appendix 1 to 00 41 00 Proposal Form – Life Cycle Cost Analysis Data

To Be Submitted With Design-Build Entity's Proposal

For the purpose of establishing a base line, District has prepared a life cycle cost analysis (LCCA), hard copy attached, based on the plans and specifications prepared by Gates and Associates, dated February 5, 2008, using a twenty-five (25) year life cycle period. The Microsoft Excel version of the Base Line LCCA is available on the District's website.

- Check this box if the work that the Design-Build Entity is proposing will not cause a significant impact to the base line life cycle cost of the project. Submit this form only. Hard copy of the Base Line LCCA need not be submitted with the Proposal.

If the DBE is proposing any alternates to the work, as designed by Gates and Associates, that will change the life cycle cost of the project as outlined in the base line provided, submit with the DBE's proposal, a LCCA consisting of the following information that illustrates the impact of such alternate(s). Include a narrative as necessary to explain any discrepancies or deviations from the base line LCCA. Use the base line LCCA as a template and the following guidelines.

1. **Proposed Light Fixtures Energy Costs:** If the DBE is proposing an alternate to the specified light fixtures, provide a revised analysis of the energy costs required to operate the alternate light fixtures, using the same annual operating cost assumptions in Table 1 of the base line LCCA.
2. **Proposed Security System Energy Costs:** No alternates will be accepted for security system per Document 00 11 19 Request for Proposal.
3. **Proposed Irrigation System Water Consumption Costs:** If the DBE is proposing an alternate to the specified irrigation system components, provide a revised analysis of the water consumption costs resulting from the use of the alternate irrigation system components, using the same annual operating cost assumptions in Table 3 of the base line LCCA. Note that no alternates will be accepted for irrigation controller per Document 00 11 19 Request for Proposal.
4. **Proposed Fountain Water Consumption Costs:** If the DBE is proposing an alternate to the Primary Gateway and the Arrival Zone water features that impacts water consumption provide a revised analysis of the water consumption costs resulting from the alternate(s), using the same annual operating cost assumptions in Table 4 of the base line LCCA.
5. **Non-Energy Operation, Maintenance and Repair Costs:** If the DBE is proposing any alternate work that would impact the non-energy operation, maintenance and repair costs of the Water Features, Lighting, Landscaping and Irrigation, Roadways and Parking Lots 1, 6 and 7, provide a revised analysis of the non-energy operation, maintenance and repair costs resulting from the alternate(s), using the same annual cost assumptions in Table 5 of the base line LCCA.

6. **Replacement Costs:** If the DBE is proposing any alternate work that would impact the replacement cost of the Water Features, Lighting, Landscaping and Irrigation, provide a revised analysis of the replacement costs resulting from the alternate(s), using the same cost assumptions in Table 6 of the base line LCCA.
7. **Summary Sheet:** If providing revised cost analyses as required above, provide a revised Summary Sheet as in the Base Line.

End of Appendix 1 to Proposal Form – LCCA Data

(Copy of Base Line LCCA follows in the next pages)

Cañada College Gateways, Circulation and Parking Project				
Base Line Life Cycle Cost Analysis				
Summary Sheet				
Energy and Utility Cost Data				
Item	25 Year Electrical Consumption	25 year Water Consumption		
Lighting Upgrades	\$ 225,648.29	\$ -		
Security Systems	\$ 262.80	\$ -		
Fountain Pumping System	negligible	\$ 5,034.85		
Irrigation system	negligible	\$ 128,411.40		
Non Energy Operations, Maintenance and Repair				
Item	25 year Operational Cost	25 Year Maintenance Cost	25 Year Repair Costs	
Water Features	\$ -	\$ 166,800	\$ 10,400	
Lighting	\$ -	\$ 145,550	\$ 28,100	
Landscape	\$ -	\$ 508,000	\$ 50,800	
Roadways	\$ -	\$ 45,500	\$ 1,315,800	
Parking Lots	\$ -	\$ 76,500	\$ 1,232,415	
Replacement Costs				
Item	System or Component Needing Replacement	Replacement Costs	Replacement Cycle	# of replacement in 25 years
Water Features	Mechanical	\$ 25,000.00	1 x / 25 years	1
Lighting	Lamps Ballasts	\$ 115,322.50	Lamps -25% once a year Ballasts-100% every 10 years	Lamps=25 Ballasts=2.5
Landscape	Landscaping Irrigation	\$ 461,710.00	landscaping - 25% every 5 years Irrigation-40% every 10 years	25% Lanscaping-5 40% Irrigation-5
Roadways	To be slurry sealed every 5 years--no replacement cost			
Parking Lots	To be slurry sealed every 5 years--no replacement cost			
Residual Value				
Item	System or Component Needing Replacement	Replacement Costs	Replacement Cycle	# of replacement in 25 years
N/A for this project	0	0	0	0
Non Monetary Benefits or Costs				
Overall Project Benefits				
1. The overall effect of this project will create a safe, beautiful and comfortable environment for the campus community.				
2. The intent of this environment is enhance the educational/campus experience of each student, faculty and staff.				
3. This updated look and feel will encourage social activities and outdoor events for students and the greater community				
4. The enhanced park like environment will attract new students and help increase enrollment in general..				
5. The improved lighting and surveillance system reflects the Cañada's commitment to providing a safe and well lit campus for the active evening program.				

Table 1. Proposed Light Fixtures Energy Costs								
Annual Operating Cost Assumptions								
two thirds of lights are on site light circuit and operate an average of 4.5 hours/day								
one third of lights are on night light circuit and operate an average of 12 hours/day								
SMCCCD pays \$0.15 / kwh for electricity								
Fixture	Lamp	Lamps per Fixture	Watts per Lamp	Watts per Fixture	Sheet	Number of Fixtures shown on Sheet	Total Wattage per item per sheet	Number of Lamps
MB1	CFTR32	1	34	34		0	0	0
HC6	LU150/55/ECO	2	180	360	E1.5	7	2520	14
	LU150/55/ECO	2	180	360	E1.6	6	2160	12
HC9	LU150/55/ECO	2	180	360	E1.5	2	720	4
	LU150/55/ECO	2	180	360	E1.6	2	720	4
HD2	LLU100/ECO	1	120	120	E1.3	5	600	5
	LLU100/ECO	1	120	120	E1.5	10	1200	10
	LLU100/ECO	1	120	120	E1.7	5	600	5
HD4	LLU100/ECO	1	120	120	E1.7	1	120	1
HE2	LU150/55/ECO	1	180	180	E1.5	1	180	1
HE3	LU150	1	180	180	E1.3	2	360	2
HE4	LU150	1	180	180	E1.5	6	1080	6
	LU150	1	180	180	E1.5	1	180	1
HE7	LU150	1	180	180	E1.0	1	180	1
	LU150	1	180	180	E1.5	1	180	1
LED1	White LED	18	4	72	E1.1	6	432	108
MA1	CMH20MR16/830/FL	1	25	25	E1.2	4	100	4
	CMH20MR16/830/FL	1	25	25	E1.1	4	100	4
MA2	CMH20MR16/830/FL	1	25	25	E1.2	8	200	8
	CMH20MR16/830/FL	1	25	25	E1.1	4	100	4
FA1	F32T8	1	31	31	E1.0	2	62	2
	F32T8	1	31	31	E1.2	9	279	9
FA2	F32T8	1	31	31	E1.2	1	31	1
HA3	LU100/ECO	1	120	120	E1.1	3	360	3
HA6	LU100/ECO, LU150/55/ECO	2	150	300	E1.1	13	3900	26
	LU100/ECO, LU150/55/ECO	2	150	300	E1.2	1	300	2
HA7	LU150/55/ECO	1	180	180			0	0
HA8	LU150/55/ECO	2	180	360	E1.1	2	720	4
HB3	LLU100/ECO	1	120	120	E1.3	6	720	6
	LLU100/ECO	1	120	120	E1.1	7	840	7
HB5	LLU100/ECO	1	120	120	E1.4	5	600	5
	LLU100/ECO	1	120	120	E1.6	1	120	1
	LLU100/ECO	1	120	120	E1.1	4	480	4
HC2	LU150/55/ECO	1	180	180	E1.4	5	900	5
	LU150/55/ECO	1	180	180	E1.6	2	360	2
HC3	LU150/55/ECO	1	180	180	E1.5	5	900	5
	LU150/55/ECO	1	180	180	E1.6	6	1080	6
Total Wattage							23,384	283
Total Kilowattage							23.38	
Annual Operating Cost Estimate for new lighting								
Daily kwh			164.86					
\$/kwh			0.15					
Daily energy cost			24.73					
Annual energy cost			\$ 9,025.93					
			\$ 225,648.29		25 Year Life Cost			

Table 2. Proposed Security System Energy Costs					
Annual Operating Cost Assumptions					
all security devices will operate 24 hours per day/7 days a week/365 days per year					
SMCCCD pays \$0.15 / kwh for electricity					
Item	Model	QTY	wattage	Total Wattage per item per sheet	sheet
License plate capture camera	REG-L1850XE-Extreme CCTV	3	24	72	SY1.1
		1	24	24	SY1.2
Day/night Camera		1	24	24	SY1.1
		1	24	24	SY1.2
Fixed Dome Camera	WV-CW484 Series w VW-CW4H Heater Unit- -Extreme CCTV	2	24	48	SY1.3
				Total Wattage	192
				Total Kilowattage	0.192
Annual Operating Cost Estimate for new lighting					
Daily kwh				0.19	
\$/kwh				0.15	
Daily energy cost				0.03	
Annual energy cost				\$ 10.51	
				\$ 262.80	25 Year Cost

Table 3. Proposed Irrigation System Water Consumption Costs						
Annual Operating Cost Assumptions						
all irrigation systems operate an average of 30 minutes/day for 30 days/month for 10 months/year						
SMCCCD pays \$4.00/ccf						
Item	Gallons per hour per device	QTY of devices	Total gallons per hour	Total gallons per operation	sheet	
areas of existing irrigation	no change	n/a	n/a	n/a	n/a	
new irrigation in Lot 7						
Rainbird Flex Riser - shrubs	2	13	26	13	L4.6	
Toro 12" pop up spray heads	47.4	120	5688	2844	L4.6	
Toro 12" pop up spray heads	72.6	12	871.2	435.6	L4.6	
Total New Gallons per Operation				3,292.6		
Total Annual Gallons				987,780.0		
Total Annual ccf				1,284.11		
						1 gallon = .13 cf
						1 gallon = .0013 ccf
Annual Operating Cost Estimate for Irrigation						
Annual Water Consumption in ccf			1,284			
\$/ccf			4			
Annual water cost			\$ 5,136.46			
			\$ 128,411.40	25 Year Cost		

Table 4. Proposed Fountain Water Consumption Costs					
<u>Annual Operating Cost Assumptions</u>					
water features operate 16 hours/day, 7 days/week, 52 weeks/year					
SMCCCD pays \$4.00/ccf					
Item	dimension of pump pit	starting quantity of water (gallons)	hourly loss due to evaporation	daily water loss (gallons)	sheet
Primary Gateway water feature	3'x6'x3'	54	10%	86.4	L5.2
Arrival Zone water feature	2.5'x2.5'x2'	12.5	10%	20	L5.2
Total Daily Water Loss due to Evaporation				106.4	
				Total Annual Gallons	38,729.6
				Total Annual ccf	50.35
				1 gallon = .13 cf	
				1 gallon = .0013 ccf	
Annual Operating Cost Estimate for Irrigation					
Annual Water Consumption in ccf			50		
\$/ccf			4		
Annual water cost			\$ 201.39		
			\$ 5,034.85	25 Year Cost	

Table 5. Non-Energy Operational, Maintenance and Repair Costs

Item	Non-Energy Operational Cost		Operational Cost		
1. Water Features	No daily operational costs		\$	-	
	Maintenance Cost Assumptions	Explanation of Cost Calculation	Annual Maintenance Cost	25 Year Cost/task	Total 25 Year Maintenance Cost
	Daily removal of surface debris	.25 hours each day \$40/hour for a groundskeeper 5 days/week 52 weeks/year 2 water features	\$ 5,200	\$ 130,000	
	Quarterly powerwashing	2 hours per washing \$40 per hour 4 times a year	\$ 640	\$ 16,000	
	Quarterly pump preventive maintenance	2 hours per maintenance \$52 per hour (engineer) 4 times a year	\$ 832	\$ 20,800	\$ 166,800
	Repair Cost Assumptions		Repair Costs	25 Year Cost/task	
	One repair per year average	4 hours each repair \$52/hours for engineer 2 water features	\$ 416	\$ 10,400	\$ 10,400
2. Lighting	Non-Energy Operational Cost Assumptions				
	No daily operational costs		\$	-	
	Maintenance Cost Assumptions	Explanation of Cost Calculation	Annual Maintenance Cost	Total 25 Year Cost Maintenance Cost	
	Replacement Lamps/Cleaning	25% replacement per year (as per Chief Engineer ,Jozsef Verez) 283*.25 = 70.75/year, say 71	\$ 5,822	\$ 145,550	

		Total number of new lamps = 283			
		Cost of each lamp, average \$30			
		Labor to replace the lamp--hour each			
		\$52 per hour (engineer)			
Repair Cost Assumptions			Repair Costs	Total 25 Year Cost Repair Cost	
Repair	1 x a year -repair damaged p	12 hours per incident \$52 per hour for engineer \$500 material cost	\$ 1,124.00	\$	28,100.00
3. Landscaping & Irrigation					
	Non-Energy Operational Cost Assumptions		Operational Cost		
	No daily operational costs		\$ -		
Addition of landscaping for Lot 7	Maintenance Cost Assumptions	Explanation of Cost Calculation	Annual Maintenance Cost	25 Year Cost/Task	Total 25 yr Landscaping Maintenance
	Maintain Landscaping	2 hours/day 2 day/week 50 week per year \$40/hour for groundskeeper	\$ 8,000	\$ 200,000	
	Maintain Irrigation System	2 hours per month for irrigation system 7 months /year \$40/hour for groundskeeper	\$ 560	\$ 14,000	
	Pruning Landscaping	8 hours x once a year to prune \$40/hour for groundskeeper	\$ 320	\$ 8,000	
				\$ -	
20% increase in landscaping in the arrival zone	Maintain Landscaping	1 hours /day 5days/week 50 weeks/year \$40/hour for groundskeeper	\$ 10,000	\$ 250,000	

	Maintain Irrigation System	4 hours per month for irrigation system 7 months /year \$40/hour for groundskeeper	\$ 1,120	\$ 28,000	
	Pruning Landscaping	8 hours x once a year to prune \$40/hour for groundskeeper	\$ 320	\$ 8,000	\$ 508,000
Repair Cost Assumptions			Annual Repair Costs	25 Year Cost/Task	Total 25 Year Repair Cost
	2 x a year-damaged plant material	4 hours to repair \$52/ hour \$300 average for cost/yr of plant material 2 x a year	\$ 1,016	\$ 25,400	
	2x a year damage to irrigation	4 hours to repair \$52/ hour \$300 average for cost/yr of plant material 2 x a year	\$ 1,016	\$ 25,400	\$ 50,800
4. Roadways					
	Non-Energy Operational Cost Assumptions		Operational Cost		
	No daily operational costs		\$ -		
Maintenance Cost Assumptions			Annual Maintenance Cost	25 Year Cost	Total 25 yr Roadways Maintenance Cost
	Sweeping	1.5 hour/per month 12 months/year \$40/hour for labor	\$ 720.00	\$ 18,000.00	
	Pot Hole Repair	15 hours/year \$40/hour labor \$500/year materials cost	\$ 1,100.00	\$ 27,500.00	\$ 45,500.00

Repair Cost Assumptions			Annual Repair Costs		Total Roadways Repair Costs
	Slurry Seal	\$.75/sq ft 292,400sq ft 1 x every 5 years	\$ 43,860.00	\$ 1,096,500.00	
	Striping	\$.15/sq ft 292,400sq ft 1 x every 5 years	\$ 8,772.00	\$ 219,300.00	\$ 1,315,800.00
5. Parking Lot 1 (Overlay)					
Maintenance Cost Assumptions	Explanation of Cost Calculation		Annual Maintenance Cost	25 Year Cost	Total 25 yr Lot 1 Maintenance Cost
	Sweeping	1 hour/per month 12 months/year \$40/hour for labor	\$ 480.00	\$ 12,000.00	
	Pot Hole Repair	1 hour/year \$40/hour labor \$500/year materials cost	\$ 540.00	\$ 13,500.00	\$ 25,500.00
Repair Cost Assumptions			Annual Repair Costs		Total 25 yr Repair Costs Lot 1
	Slurry Seal	\$.75/sq ft 120,150 sq ft 1 x every 5 years	\$ 18,022.50	\$ 450,562.50	
	Striping	\$.15/sq ft 120,150 sq ft 1 x every 5 years	\$ 3,604.50	\$ 90,112.50	\$ 540,675.00
6. Parking Lot 6 (Slurry Seal)					
Maintenance Cost Assumptions	Explanation of Cost Calculation		Annual Maintenance Cost	25 Year Cost	Total Lot 6

	Sweeping	1 hour/per month 12 months/year \$40/hour for labor	\$ 480.00	\$ 12,000.00	
	Pot Hole Repair	1 hour/year \$40/hour labor \$500/year materials cost	\$ 540.00	\$ 13,500.00	\$ 25,500.00
Repair Cost Assumptions			Annual Repair Costs		Total Repair Lot 6
	Slurry Seal	\$.75 /sq ft 98600 sq ft 1 x every 5 years	\$ 14,790.00	\$ 369,750.00	
	Striping	\$.15/sq ft 98,600 sq ft 1x every 5 years	\$ 2,958.00	\$ 73,950.00	\$ 443,700.00
7. Parking Lot 7 (New)					
Maintenance Cost Assumptions		Explanation of Cost Calculation	Annual Maintenance Cost	25 Year Cost	Total Lot 7
	Sweeping	1 hour/per month 12 months/year \$40/hour for labor	\$ 480.00	\$ 12,000.00	
	Pot Hole Repair	1 hour/year \$40/hour labor \$500/year materials cost	\$ 540.00	\$ 13,500.00	\$ 25,500.00
Repair Cost Assumptions			Annual Repair Costs		Total Repair Lot 7
	Slurry Seal	\$.75/sq ft 55,120 sq ft 1 x every 5 years	\$ 8,268.00	\$ 206,700.00	

Table 6. Replacement Costs							
Item	System or Component Needing Replacement	25 yr Replacement Costs	Replacement Cycle	# of replacement in 25 years			
Water Features	Mechanical	\$ 25,000.00	1 x / 25 years	1			
Lighting	25% of lamps per year 283 lamps \$30 per lamp one hour per lamp \$52/ hour for engineer 100% Ballast Replacement every 10 years \$70/ballast 1hour/ballast	\$ 115,322.50	Lamps -25% once a year Ballasts-100% every 10 years	Lamps=25 Ballasts=2.5			
Landscaping & Irrigation	20% of plant material every 5 years 40 hours labor \$40/ hour grounds keeper 20% of the irrigation system every 5 years 40 hours labor \$40/ hour grounds keeper	\$ 461,710.00	Landscaping-25% every 5 years Irrigation--40% every 5 years	Landscaping-5 Irrigation-5			
Roadways	To be slurry sealed every 5 years--no replacement cost						
Parking Lots	To be slurry sealed every 5 years--no replacement cost						
Landscaping Summary--Cost Approximation							
	Lot 7	Arrival Zone	Primary Gateway	Secondary Gateway			
Landscaping	\$ 27,000.00	\$ 100,000.00	\$ 40,000.00	\$ 7,200.00	\$ 174,200.00	Total Landscaping	
Irrigation	\$ 1,700.00	\$ 52,000.00	\$ 20,000.00	\$ 40,280.00	\$ 113,980.00	Total Irrigation	
	\$ 28,700.00	\$ 152,000.00	\$ 60,000.00	\$ 47,480.00			

DOCUMENT 00 01 10

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APPENDIX

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END OF DOCUMENT