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February 20, 2015

San Jose State University

Project: ASC 2015- Sustainable Building & LEED Problem Statement

Subject: Final Scoring Detail

Dear Nathaniel,

Congratulations on competing in the ASC 2015 Sustainable Building & LEED Problem Statement, I hope you found the experience both educational and enjoyable. We understand how much effort goes into preparing for the competition every year and to your credit the level of preparation showed, the judges were extremely impressed with the level of competition this year:

<u>Team</u>	<u>Score</u>
University of Florida	78.08
Colorado State University	76.40
University of Washington	71.80
University of New Mexico	63.51

Attached is a scoring summary sheet detailing how well your team performed on: the prequalification, each of the five problems and the addendum. The median and average scores of each problem are given for comparison. The total median and average scores for the written portion of the problem statement are shown at the top of the sheet along with your team's total score. In the upper right of the sheet your team's rank against the other competitors is shown for both the written and oral portions of the competition. The last pages detail a breakdown of how the judges scored your team on each written problem.

The Skanska problem statement team enjoyed the competition this year and we hope to see you all back for next year's event. If you have any questions please feel free to contact me at [Anthony.spinelli@skanska.com](mailto:Anthony.spinelli@skanska.com).

Very Truly,

*Anthony J. Spinelli*

Anthony J. Spinelli  
Project Manager

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cc: ASC 2015 Problem Scoring

	Median Score	Average Score	San Jose State
<b>83 Totals</b>	<b>50.95</b>	<b>48.30</b>	<b>30.25</b>

## Prequalification

5 

Number of AP on Team  
Format  
Sustainable Thoughts  
Green Achievements  
Page Count

Maximum Possible	Median Score	Average Score	San Jose State
1			0.00
1			0.00
1			0.50
1			0.50
1			1.00
<b>Prequalification Totals</b>	<b>3.25</b>	<b>3.13</b>	<b>2.00</b>

### Rank Against Other Teams

Written Response:	Bottom Third
Oral Presentation:	Bottom Third
Overall Score:	Bottom Third

## LEED Credit Comparison

10 

Overall Project Review  
Materials Category  
Recommendation of Rating System

Maximum Possible	Median Score	Average Score	San Jose State
3			-
2			-
5			3.50
<b>LEED Credit Comparison</b>	<b>4.45</b>	<b>4.86</b>	<b>3.50</b>

## On-Site Renewable

20 

Solar Panel Design  
Additional Renewable  
Alternate Energy Sources

Maximum Possible	Median Score	Average Score	San Jose State
12			5.50
6			2.50
2			0.50
<b>On-Site Renewable</b>	<b>14.00</b>	<b>13.03</b>	<b>8.50</b>

## Life Cycle Analysis

15 

Annual Energy Use  
Life Cycle Analysis  
Subcontractor Selection  
Incentives & Rebates  
Fixture Recommendation

Maximum Possible	Median Score	Average Score	San Jose State
2			1.50
6.5			2.50
2			2.00
3.5			1.50
1			-
<b>Life Cycle Analysis</b>	<b>10.00</b>	<b>9.50</b>	<b>7.50</b>

## Carbon Footprint

15 

Bid Comparison  
Local vs. Out of Town

Maximum Possible	Median Score	Average Score	San Jose State
10			3.00
5			-
<b>Carbon Footprint</b>	<b>10.50</b>	<b>9.17</b>	<b>3.00</b>

## Water Collection and Use

15 

Irrigation Consumption  
Rain Water Collection  
Cistern

Maximum Possible	Median Score	Average Score	San Jose State
6			2.00
6			2.00
3			1.75
<b>Water Collection and Use</b>	<b>6.75</b>	<b>7.08</b>	<b>5.75</b>

## Addendum

3 

Bonus Questions - Estimated Ridership 64000  
Bonus Questions - Gallons Saved 11000 (27000)  
Bonus Questions - Improve Ridership  
Formatting  
Exceeded Page Count

Maximum Possible	Median Score	Average Score	San Jose State
1			-
1			-
1			-
-5			-
-10			-
<b>Addendum Totals</b>	<b>2.00</b>	<b>1.53</b>	<b>-</b>

Problem #1 - LEED 2009 vs. LEED v4 Assessment

10 Total Points Possible

10 Total Points Possible		
<b>PART 1: Overall Project Review</b>	<b>3 Pts Possible</b>	<b>0</b>
SS - 2009	0.2	
WE - 2009	0.2	
EA - 2009	0.2	
MR - 2009	0.2	
IEQ - 2009	0.2	
IDP - 2009	0.2	
RPC - 2009	0.2	
LT - v4	0.2	
SS - v4	0.2	
WE - v4	0.2	
EA - v4	0.2	
MR - v4	0.2	
IEQ - v4	0.2	
Innovation - v4	0.2	
RP - v4	0.2	
Comments		
<b>PART 2: Materials Category</b>	<b>2 Pts Possible</b>	<b>0</b>
Credits of the future: do they mention all 3 credits and fully describe what each entails?	1	0
Did they research what needs to happen to accomplish credits of the future (EPDs, 3rd party certified products, "USGBC approved program")	0.25	0
Mention of MR credits being combined	0.75	0
Comments		Didn't even address this question
<b>PART 3: Recommendation of Rating System</b>	<b>5 Pts Possible</b>	<b>3.5</b>
Two or More Innovative Ideas	2	1
Are the innovative ideas realistic/attainable?	1	1
Were the innovative ideas explained well, easily understood?	1	1
Convincing	1	0.5
Comments		

15 Total Points Possible

San Jose

<b>Problem # 2 - Life Cycle Sustainability Analysis - Lighting</b>		
#1.a Correct light fixture take-off QTY	1	0.5
#1.b Use correct LA County power/cost formula (22.3)	0.5	0.5
#1.c Answer	0.5	0.5
#2.a Complete detailed life cycle analysis	3	2
#2.b Identify criteria and formula used	3	0
#2.c Organization of answer/data	0.5	0.5
#3.a Select correct subcontractor	2	2
#4.a Quality of incentives/rebates (1 pt ea. - max of 3)	3	1
#4.b Organization of answer/findings	0.5	0.5
#5.a Correct selection of light fixture	1	0
	15	7.5

Question 2- there was no analysis on LED vs Flors life cycle. Assumption was wrong.

Questions 2- no formula or thought process present

Question 3- LED's where the correct selection

15 Total  
Points  
Possible

San Jose State

Problem #3 - 4th St. Station Carbon Footprint			
Part I #1	Takeoff of Concrete CY	1.5	1
Part I #2	Bid comparison / least expensive	2.5	1.5
Part I #3	Carbon Footprint of each supplier / lowest	4	0.5
Part I #4	Best value supplier	2	0
Part II #1	Carbon footprint of crew	2	0
Part II #2	Carbon footprint of crew - local	1.5	0
Part II #3	Carbon footprint of crew - carpool	1.5	0
Total		15	3

Notes

Pt I - no supporting calculations shown

Pt I # 4 - do not appear to have answered this problem

Pt II - no backup for answer

15 Total Points Possible

SJSU

<b>Problem #4 - Water Usage and Collection</b>		
#1. a) Forumula	2	0.5
#1 b) $ET_o$	1	0.5
#1.c) Landscaped Areas	1	0
#1.d) Answer	1	0
#1.e) Organization	1	1
#2.a) Rainfall data by month	1	0.5
#2.b) Rainwater Collection Formula	1.5	
#2.c) Collection Area	1.5	0.25
#2.d ) Answer - Size of Cistern	1	0.25
#2.e) Organization	1	1
#3.a) Volume Calculation	0.5	0.25
#3.c) Graph/Method	1.5	1
#3.a) Answer & Organization	1	0.5

15

5.75

Good charts & organization

missing formulas

numbers are off by a factor of 10,  
can't tell why without any formulas

20 Total Points Possible

San Jose St

Problem #5 - Onsite Renewable Energy			
#1.a	Correct quantities	2	1
	Work is shown, correct equation is used	2	2
	Marked up drawing is accurate and realistic	1	0
#1.b	Work is shown and is correct	1	1
	Acknowledged factors other than initial cost	1	0
	Narrative is clear and illustrates the rationale	2	1.5
#1.c	i. Correct direction	1	0
	ii. Correct angle	1	0
	iii. Correct dates	0.5	0
	iii. Correct angles	0.5	0
#2a.	Product chosen, with cost and quantity	2	1
#2.b.	cost of panel support structure	1	0
#2.c	payback period, and cost assumptions	2	1
#2.d	Projected cost of maintenance	1	0.5
#3.a	Response is clear, concise, and realistic	0.5	0
#3.b	Response is clear, concise, and realistic	0.5	0
#3.c	Response is clear, concise, and realistic	0.5	0.5
#3.d	Response is clear, concise, and realistic	0.5	0

The three options should be much closer, it appears the sunpower calculations were thrown off

20

8.5