

Skyline College & Sustainability

San Mateo County Community College District
August 27, 2007

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BUILDINGS 3, 6, 7A and 8



"Facilities Excellence"

San Mateo County Community College District

Campus	History	Campus Acreage	Gross Square Footage	Assignable Square Footage	Student FTES (FY 06-07)	Student Headcount (Spring '07)	Parking
Cañada College Redwood City, CA	1968	132	262,506	176,984	4,622	6,230	1,700
College of San Mateo San Mateo, CA	1963	154	654,906	444,654	9,684	10,573	4,053
Skyline College San Bruno, CA	1969	110	524,269	357,741	7,520	8,364	2,031
Chancellor's Office San Mateo, CA	1978	N/A	24,929	24,929	0	0	Included in CSM
TOTAL	N/A	396	1,466,610	1,004,308	21,826	25,167	7,784

❖ CIP I - \$300 M

❖ CIP II - \$523 M

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Building 3 – Gymnasium Modernization

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❑ 40,851 GSF

- 1st Floor: Offices & Team Rooms 20,425 gsf
- 2nd Floor: Gym & Multi-Purpose Rooms 20,425 gsf

❑ 28,255 ASF

❑ Efficiency Factor: 69.16%

❑ Total Project Cost = \$10.4M



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Building 6 – Student Services Center

4

❑ 38,828 GSF

- 1st Floor

23,658 gsf

Bookstore, Security Office, Kitchen and Cafeteria,
Computer Laboratory, Student Study Area

- 2nd Floor

15,170 gsf

Student Activities, Multi-Cultural Center, 6 Conference
Rooms

❑ 34,942 ASF

❑ Efficiency Factor: 89.99%

❑ Total Project Cost = \$19M



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Building 7A – Science Annex

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❑ 28,975 GSF

- 1st Floor

4,963 gsf

Division Office

- 2nd Floor

12,006 gsf

4 Biology Labs

- 3rd Floor

12,006 gsf

3 Chemistry Labs

❑ 21,784 ASF

❑ Efficiency Factor: 75.18%

❑ Total Project Cost = \$14.1M



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Building 8 – Classroom Building Modernization

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❑ 44,668 GSF

- 1st Floor

15,788 gsf

Auto Shop, 3 Lecture Classrooms, 4 Comp. Labs

- 2nd Floor

14,280 gsf

11 Classrooms and one Computer Lab

- 3rd Floor

14,600 gsf

5 Multi-Use Classrooms

❑ 30,400 ASF

❑ Efficiency Factor: 69.06%

❑ Total Project Cost = \$14.6M



Sustainability Features

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- **Design Guidelines**
 - Design buildings with Leadership Energy and Environmental Design (LEED) certification in mind
 - Preference for LEED 1) Contractors, 2) Designers, 3) Engineers
 - Include Energy Monitoring systems: Utility Vision and “BMS”
 - Include PG&E Savings by Design program
- **Collaborative process; encourages sharing of ideas**

LEED Project Checklist

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- Sustainable Sites (SS)
- Water Efficiency (WE)
- Energy & Atmosphere (EA)
- Materials & Resources (MR)
- Indoor Environmental Quality (IEQ)
- Innovation & Design Process (IDP)



Improvements

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- ❑ Site near public transportation (SS Credit 4.1 Alternative Transportation: Public Transportation)
- ❑ Bicycle Storage (SS Credit 4.2 Alternative Transportation: Bicycle Storage)
- ❑ Light colored landscape paving
(SS Credit 7.1 Heat Island Effect: Non-roof)
- ❑ Light colored, single ply roofing
(Energy Star related) (Cool Roof)
(SS Credit 7.2 Heat Island Effect, Roof)
- ❑ Mechoshades at windows



Improvements

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- ❑ Energy efficient T-8 fixtures
(EA Credit 1 Optimize Energy Performance)
- ❑ Direct Digital Controls
(EA Credit 1 Optimize Energy Performance)
- ❑ Daylight Sensors (EA Credit 1 Optimize
Energy Performance)
- ❑ Occupancy Sensors
(EA Credit 1 Optimize Energy Performance)



Improvements

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- ❑ Automatic flush valve (toilets / urinals)
(WE Credit 1 Water efficiency)
- ❑ Lavatory faucets with push button handle
(WE Credit 1 Water efficiency)
- ❑ Water efficient irrigation system
(WE Credit 1 Water efficiency)
- ❑ Resilient flooring and carpet (IEQ Credit 4.3 Low –
Emitting materials, carpet)
- ❑ Low VOC (Volatile Organic Compound) paint (IEQ Credit
4.2 Low – Emitting materials, paints and coatings)



Improvements

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- ❑ Recycling stations throughout building (Prerequisite)
- ❑ Construction debris – 73% sorted for recyclable materials (MR Credit 2.1 Construction Waste Management: Divert 50% from Disposal)
- ❑ Utility Vision (EA Credit 5 Measurement & Verification)



Overall Campus Improvements

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- Building Management System (BMS) (EA Credit 1 Optimize Energy Performance)
- Heating / Hot Water Loop
- Lighting
- Co-Generation
(EA Credit 2.3 Renewable Energy, 20%)



Savings by Design

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- ❑ 28% more efficient than Title 24 requires (B6)
- ❑ Total of all PG&E Rebates: \$38, 546
 - Solarban 80 glazing, 1” thick, in Warm Gray or Clear
 - Daylight Sensors
 - Occupancy sensors in all spaces except corridors and lobbies
 - Direct / Indirect evaporative cooling – chemistry labs, dean’s offices, telecom closets, cadaver rooms and computer labs. Rooms with non-operable windows.
 - Direct evaporative cooling – lecture halls, teacher offices, biology labs and earth science labs. Rooms with operable windows.



Question & Answer

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