



SAN MATEO COUNTY  
**COMMUNITY**  
COLLEGE DISTRICT

# Bond Oversight Committee CIP Project Update

November 7, 2013

# District Demographics

(as of October '13)

	<b>Campus Acreage</b>	<b>Gross Square Feet</b>	<b>Assignable Square Footage</b>	<b>Buildings</b>	<b>Parking</b>	<b>Student Headcount</b> (Spring '13)	<b>Student FTES</b> (Spring '13)	<b>Full-Time Faculty &amp; Staff</b> (Spring '13)
<b>Cañada</b>	132	352,695	237,946	20	1,688	6,790	1,903	157
<b>CSM</b>	154	702,110	463,699	36	4,108	9,401	3,267	267
<b>Skyline</b>	110	541,764	371,092	30	2,495	10,053	3,471	235
<b>Chancellor's Office</b>	N/A	24,929	13,383	1	Incl. in CSM	0	0	205
<b>TOTAL</b>	396	1,621,498	1,086,120	87	8,291	26,244	8,641	864

"Facilities Excellence"

# Cañada College Tennis Courts

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- ▶ Project Budget

  - ▶ \$1,026,817

- ▶ Project Scope

  - ▶ Installation of modular restroom, grading and repaving of parking lot, installation of parking lot lighting, security cameras and new bleachers. The courts have been resurfaced and will receive new wind screens and netting.

- ▶ Schedule

  - ▶ Construction: October 2012 - December 2012

# Cañada College Tennis Courts



# CSM Edison Lot

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- ▶ Project Budget

  - ▶ \$3,950,000

- ▶ Project Scope

  - ▶ Demolish Buildings 20, 20A and Greenhouse, and rebuild parking lot, pedestrian walkways, landscaping and lighting.

- ▶ Schedule

  - ▶ Design submitted to DSA: May 2013

  - ▶ DSA approval anticipated: December 2013

  - ▶ Bid & Construction: Pending Supreme Court Ruling

# CSM Edison Lot

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# CSM East Perimeter Road Sidewalk Addition

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- ▶ Project Budget
  - ▶ \$150,000
- ▶ Project Scope
  - ▶ New sidewalk to prevent students from walking in the road with oncoming traffic.
- ▶ Schedule
  - ▶ Construction: Spring 2014

# CSM East Perimeter Road (Existing Condition)

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# CSM North Gateway Phase II

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- ▶ Project Budget
  - ▶ \$15,600,000 (\$6M Measure A and \$9.6M State Capital Outlay)
- ▶ Project Scope
  - ▶ Demolition of existing buildings #21 – 29.
  - ▶ Creation of new Gateway Plaza, renovation of existing parking lots 6 A-D.
  - ▶ New Plaza and amphitheater, pedestrian pathways, landscaping and energy efficient LED parking lot lights.
- ▶ Schedule
  - ▶ Construction: Summer 2013 – Summer 2014

# CSM North Gateway

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## ▶ Lawsuit Status

- ▶ Site has been idle in April due to neighbor lawsuit
- ▶ The Courts has issued a ruling on 4/29/13 allowing us to proceed with the balance of the project while the appeal process takes its course

## ▶ Construction Status

- ▶ Initial phase complete
  - ▶ Buildings 21-30 demolition and on-site crushing/recycling
  - ▶ Concrete materials of the buildings have been crushed and sifted for reuse on construction of the parking lots
- ▶ Construction resumed from June 2013
  - ▶ Rough grading work , underground utilities and conduit installations are nearing completion
  - ▶ Amphitheater seating and 'Plaza of the Sun' are being prepared for concrete placement
- ▶ Project Completion expected in Summer 2014

## ▶ Contract Status

- ▶ \$2,270,377 (30% of total contract) paid through end of October 2013

# CSM North Gateway

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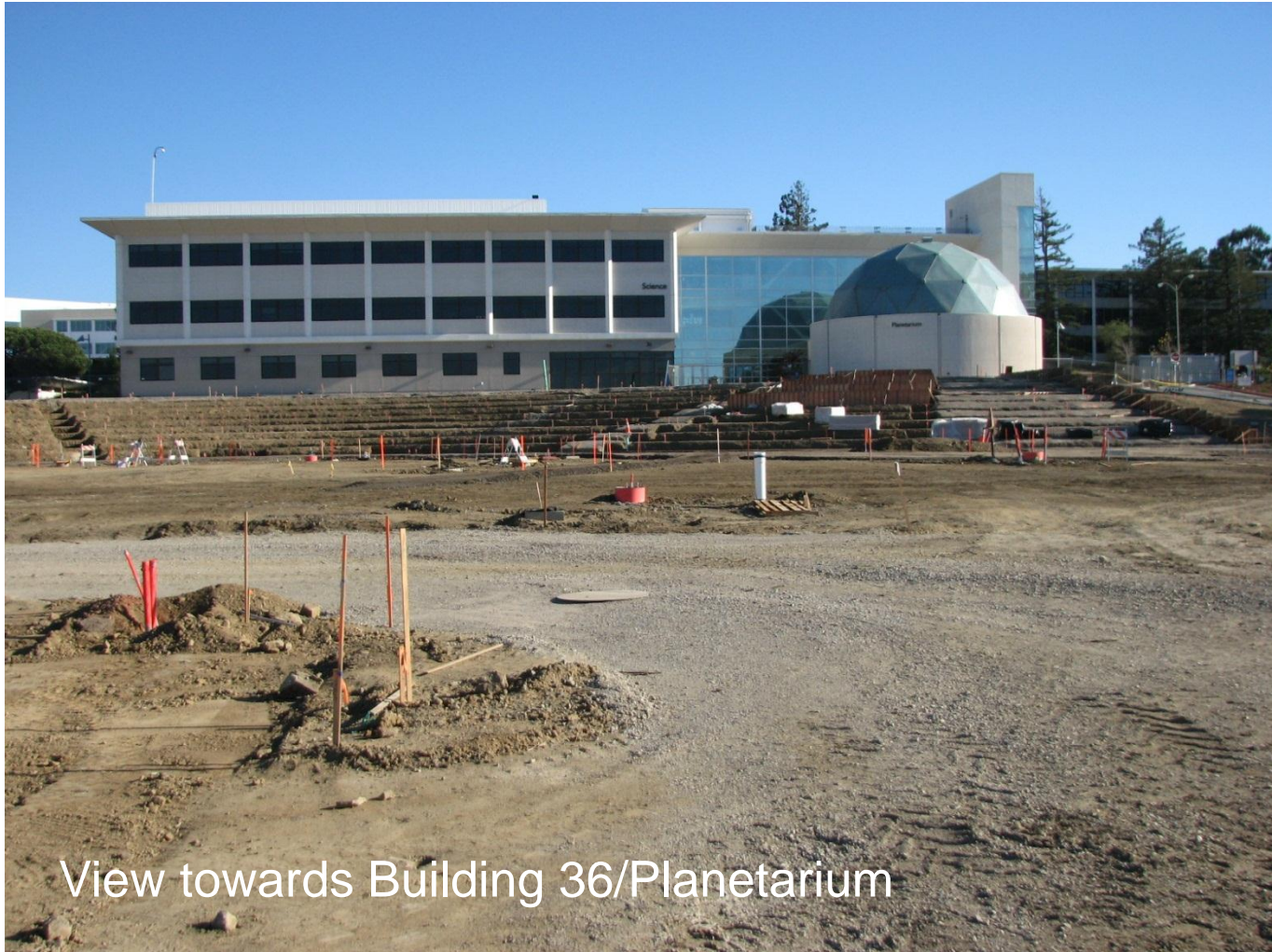


# CSM North Gateway Project Design



# CSM North Gateway

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View towards Building 36/Planetarium

# CSM North Gateway

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View towards pedestrian spine and parking lots  
(Formwork and reinforcement for the amphitheater seat walls in the foreground)

# CSM North Gateway

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Grading Work at 'Plaza of the Sun'  
(View along the N-axis towards the bay)

# CSM North Gateway

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Underground conduits being installed



# CSM North Gateway

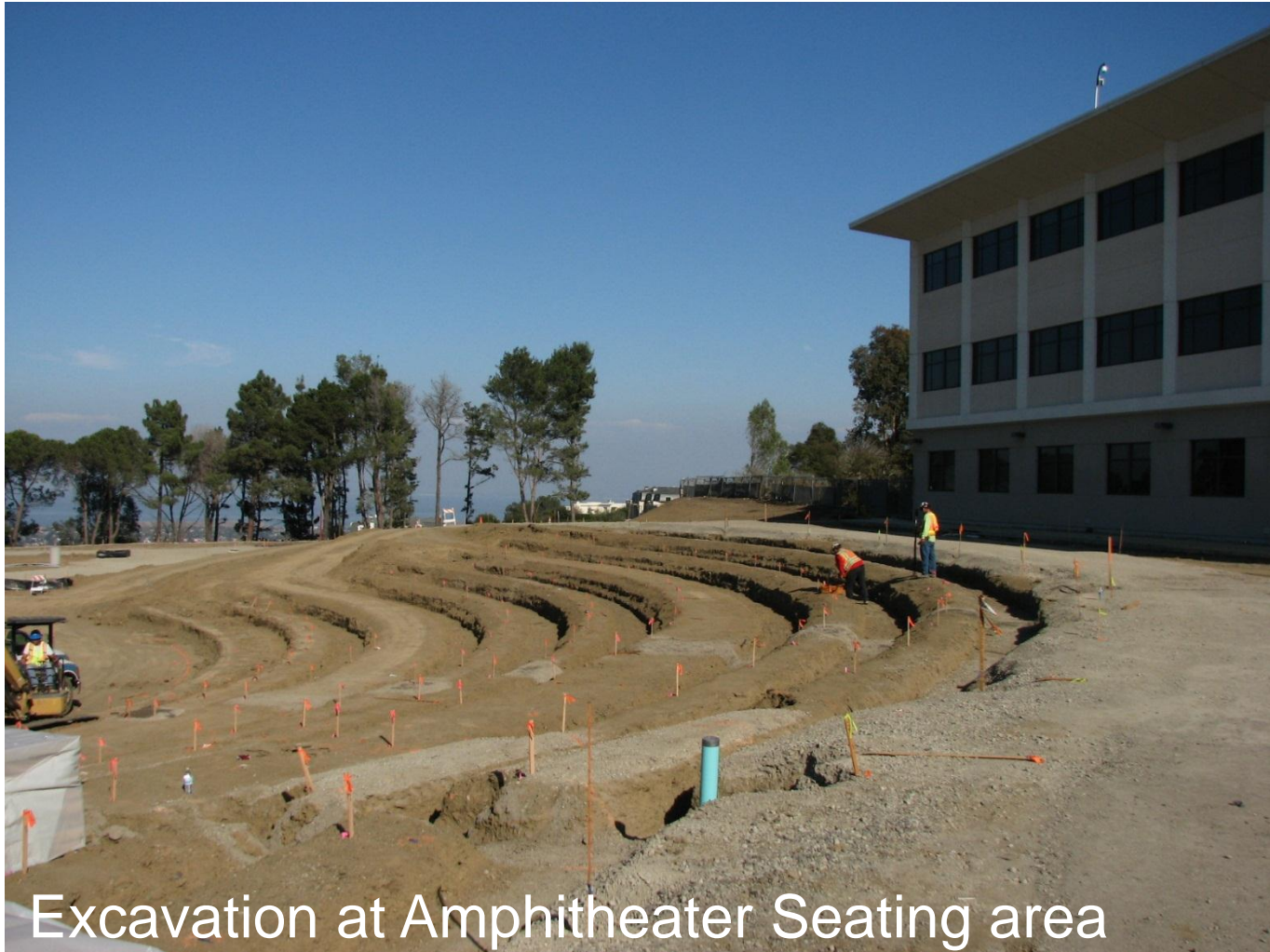
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Subgrade work for new perimeter road  
(crushed concrete from demolished buildings used as aggregate base)

# CSM North Gateway

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Excavation at Amphitheater Seating area

# Skyline College

## Theater Seat Replacement Project

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- ▶ Budget
  - ▶ \$250,000
- ▶ Scope
  - ▶ Replace original seats that were installed in 1969
  - ▶ Upgrade existing step lights to LED
  - ▶ Theater interior painting
- ▶ Schedule
  - ▶ Summer 2013

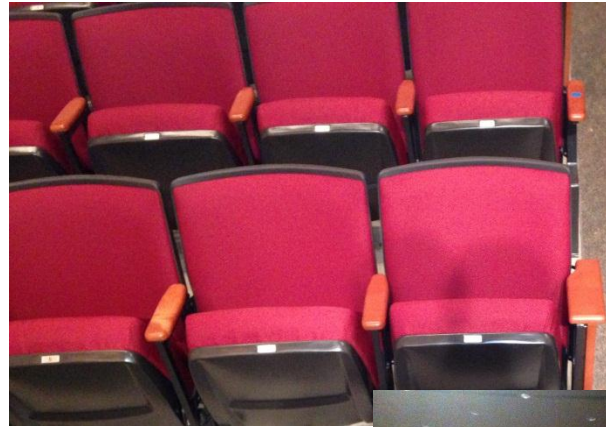
# Skyline College Theater Seat Replacement Project

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**BEFORE**



**AFTER**



- 522 Seats replaced



# District Wide Athletic Fields Replacement

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- ▶ Budget
  - ▶ \$6,000,000 (Redevelopment)
- ▶ Project Scope
  - ▶ Installation of new next generation synthetic turf at the 8 existing synthetic turf fields on three campuses.
- ▶ Schedule
  - ▶ Summer 2013
    - College of San Mateo Football Field - Completed
    - Skyline College Lower Soccer Field - Completed
  - ▶ Winter 2013
    - Cañada College Soccer Field
    - Skyline College Upper Soccer Field
  - ▶ Summer 2014
    - College of San Mateo Baseball Field
    - Skyline College Upper Baseball Field
  - ▶ Summer 2015
    - College of San Mateo Softball Field
    - Skyline College Baseball Field



Cañada College



Skyline College



College of San Mateo



# CSM Football Field Turf Replacement



# Skyline Lower Soccer Field





# District Wide Sustainability Plan

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- ▶ Project Budget
  - ▶ \$65,000
- ▶ Schedule
  - ▶ October 2013 – June 2014
  - ▶ Plans for all three colleges presented to the Board of Trustees on September 12, 2013

# Cañada College Goals

## Sustainability Plan Goals

Goal Number	Area of Sustainability	Established Goal
1	Campus and Awareness	5 Water Conservation and Efficiency Establish water use baseline for the campus by the end of 2013. Establish ambitious annual water use reduction goals by May 2014, and implement appropriate water efficiency measures to meet the goals. Evaluate goals every three years.
		6 Solid Waste Management Expand waste reduction and recycling programs to include organic waste diversion, exceed statewide landfill diversion goal of 75% by 2020 and strive to achieve zero waste. Increase campus participation in waste reduction, reuse, and recycling.
2	Curriculum	7 Transportation Establish a Vehicle Miles Travelled (VMT) baseline for the campus by May 2014. Reduce the reliance of students, faculty and staff on single occupancy vehicle commutes by 10% within the next 5 years.
3	The Built Environment	8 Sustainable Procurement Increase college efforts to source all goods and services from organizations that are committed to social responsibility and environmental sustainability. Establish procurement guidelines by Fall 2013, reviewed bi-annually.
		9 Renewable Energy and Onsite Generation Continue to study feasibility of procuring and/or generating renewable energy. Share findings with the campus community periodically.
4	Energy Conservation and Efficiency	10 Climate Action Plan Continue to reduce greenhouse gas emissions through the implementation of the Cañada College Sustainability Plan. Begin the development of the Climate Action Plan.
		11 Sustainability Plan Management Institutionalize the Sustainability Committee by Fall Semester 2013. Evaluate the progress of Sustainability Plan implementation and disseminate findings to the campus community. Update the Sustainability Plan at least every three years.



# College of San Mateo Goals

Goal Number	Area of Sustainability	Established Goal	
3	The "Human Component"	Behaviors of the entire college community are crucial to the success of sustainability initiatives; for example, levels of awareness, participation, and engagement, and the commitment of individuals to collaboration are critical to the success of this necessarily collective effort.	Verification, of Physical or Portfolio ing tools by lish annual 5% below efficiency mid-2015.
4	The Built Environment	<p>Collaborate with SMCCCD Facilities to develop the next generation of Master Planning Sustainability Goals for the Built Environment. Existing goals include:</p> <ul style="list-style-type: none"> <li>• Reduce Operating Costs through Renewable and Energy Efficient Capital Projects</li> <li>• All new projects to be LEED Silver and modernization projects designed to be LEED Certified</li> <li>• Every new project to exceed Title 24 requirements by 15%</li> <li>• Mandatory PG&amp;E Energy Efficiency/Savings by Design Application</li> <li>• Mandatory Life Cycle Cost Analysis on Major Equipment</li> </ul>	<p>Verification, Energy Star Benchmarking s, establish implement to meet ars. ricous and</p> <p>ie college supplies, rces from o social ainability. Fall 2013,</p>

reviewed bi-annually, and updated as necessary.

# Skyline College

Goal Number	Area of Sustainability	Established Goal
2	Campus and Community Education and Awareness	Encourage participation in and awareness of sustainability issues through effective education and engagement. Publicize sustainability events and programs in campus media outlets including Skyline Shines, the Skyline View and the campus sustainability website. Positively influence the campus community to embrace and champion sustainable behaviors at Skyline, in the community, and in their personal lives. Establish Skyline College as a cultural center for sustainability and environmental justice in the north County of San Mateo. Institutionalize the Sustainable Ambassador Network as a shared governance Task Force by Fall Semester 2013.
3	Curriculum Development	When appropriate to a program of study, creatively integrate environmental awareness, social responsibility and sustainability into existing course student learning outcomes (SLOs). Connect institutional student learning outcomes (ISLOs) with sustainability, and explore the creation of sustainability theme pathway in General Education core requirements. Develop new curricula and training programs focused on sustainability and the environment. Create certificate and degree programs in Environmental Science and Energy Systems Technology and Management by spring 2014; continue to create service learning opportunities with sustainability focus.
4	The Built Environment	Collaborate with SMCCCD Facilities to develop the next generation of Master Planning Sustainability Goals for the Built Environment. Existing goals include: <ul style="list-style-type: none"> <li>• Reduce Operating Costs through Renewable and Energy Efficient Capital Projects</li> <li>• All new projects to be LEED Silver and modernization projects designed to be LEED Certified</li> <li>• Every new project to exceed Title 24 requirements by 15%</li> <li>• Mandatory PG&amp;E Energy Efficiency/Savings by Design Application</li> <li>• Mandatory Life Cycle Cost Analysis on Major Equipment</li> </ul>

# District Wide Digital Infrastructure Mapping Project

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- ▶ Project Budget
  - ▶ \$35,000
- ▶ Scope
  - ▶ Consolidation of all information related to underground utilities. Final product will be layers on a Google Earth background image.

# District Wide Digital Infrastructure Mapping Project

The image shows a Google Earth interface displaying a digital infrastructure map of a campus. The map is overlaid with a complex network of colored lines representing various utility systems. A popup window titled "LANDMARK" provides detailed information for a selected manhole.

**LANDMARK**

<b>Network:</b>	Sanitary Sewer
<b>ID:</b>	SSMH#002
<b>Type:</b>	Manhole
<b>Model:</b>	-
<b>Size:</b>	48" Diameter
<b>Cover:</b>	24" Cast Iron Frame and Cover
<b>Datum:</b>	-
<b>Surface Elevation:</b>	505.0 +/-
<b>Invert Out:</b>	500.5
<b>Inverts In:</b>	-
<b>Date Constructed:</b>	12/1960
<b>Notes:</b>	Buried?
<b>Source Document:</b>	<a href="#">Site Development Phase 1</a>
<b>Status:</b>	Not Verified

Copyright: CSW/Stuber-Stroeh Engineering

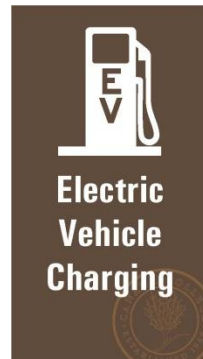
**Places**

- College of San Mateo
  - Air
  - Cable/Television
  - Communication
  - Electric
  - Fiber Optic
  - Fire Hydrants
  - Fire Alarm
  - Gas
  - Hydronic
  - Joint Trench
  - Lighting
  - Sanitary Sewer
    - Caps
    - Cleanouts
    - Filter Systems
    - Floor Drains
    - Grease Interceptors
    - Manholes
      - SSMH#001
      - SSMH#002
      - SSMH#003
      - SSMH#004
      - SSMH#005
      - SSMH#006
      - SSMH#007
      - SSMH#008
      - SSMH#009
      - SSMH#010
      - SSMH#011
      - SSMH#012
      - SSMH#013
      - SSMH#014
      - SSMH#015
      - SSMH#016
      - SSMH#017
      - SSMH#018
      - SSMH#019

# District Wide Electric Vehicle Charging Stations

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- ▶ Project Budget
  - ▶ \$242,000 (\$140K Measure A, \$102K CEC Grant and Match from Schneider Electric)
- ▶ Locations
  - ▶ 2 Parking Lots at each of the three Colleges
  - ▶ District Office Parking Lot
  - ▶ Wall Unit in the Automotive Technology Program at Skyline



# District Wide Electric Vehicle Charging Stations





# Cañada College & College of San Mateo LED Roadway & Parking Lot Lights

- ▶ **Project Budget**

- ▶ \$500,000

- ▶ **Project Scope**

- ▶ Retrofit parking lot and street light fixtures on the Canada and CSM campuses (288 Fixtures)

- ▶ **Schedule**

- ▶ RFP Release: December 2013
  - ▶ Design: January 2014
  - ▶ Bid & Construction: March 2014



Existing Cobra (Metal Halide)



LED

# Cañada College Solar Photovoltaic Project

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- ▶ Budget \$4,250,000.
  - ▶ \$2,788,421. Local Funds (PG&E Savings By Design funds)
  - ▶ \$961,579. California Solar Initiative funds
  - ▶ \$500,000. Prop. 39 funds (approximate)
- ▶ Project Scope
  - ▶ Design-Build project to build a 1.1 MW Solar Photovoltaic system at Cañada College.
- ▶ Schedule
  - ▶ Select successful vendor – Winter 2013
  - ▶ Design completion – Spring 2014
  - ▶ Construction Completion – Fall 2014

# Cañada College Solar Photovoltaic, Options

## ▶ Fixed Mount



## Single-Axis Trackers



# Proposition 39

## Energy Efficiency & Renewal Projects

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- ▶ College of San Mateo & Skyline College Cogen Replacement
- ▶ District Wide Measurement & Verification

# Question & Answer

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[www.smccd.edu/facilities](http://www.smccd.edu/facilities)

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