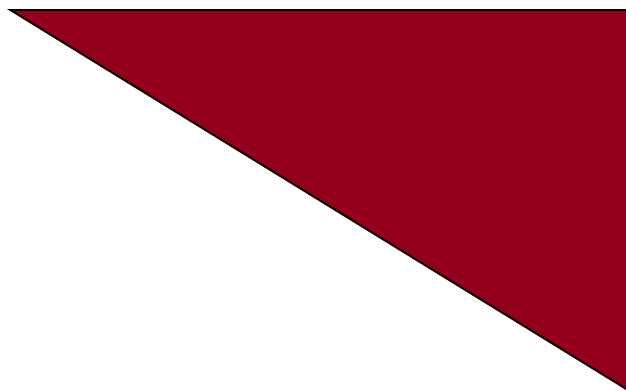




**SANTA ANA**  

---

**C O L L E G E**



# **Santa Ana College**

**Facilities Meeting**

**March 21, 2017**





SAC Facilities Committee  
March 21, 2017  
1:30p.m. – 3:00p.m.  
SAC Foundation Board Room, S-215

---

***THE FACILITIES COMMITTEE** is the participatory governance committee responsible for identifying and prioritizing capital projects including scheduled maintenance projects. It serves as an information and exchange body on facilities projects that are in construction or that are being planned.*

*Santa Ana College Participatory Governance Structure Handbook (May 27, 2015)*

---

### **Agenda**

1. Welcome and Introductions
2. Public Comments
3. Approval of Minutes: ACTION
  - February 21, 2017
4. Project Updates- Carri Matsumoto/ Darryl Taylor/ Matt Schoeneman INFORMATION
  - Bond Projects Update
  - SAC Active Project Update
  - Scheduled Maintenance Projects
5. Standing Reports (5mins.) INFORMATION
  - HEPSS Task Force - Don Mahany
  - Facilities Report – Mark Wheeler
  - Environmental Task Force – Susan Sherod
6. Accreditation INFORMATION
7. Old Business
- Accessible Parking Spaces – Lot #6 INFORMATION
8. New Business
  - Gender Neutral Bathroom Conversion
9. Other

Next Meeting - Tuesday, April 18, 2017

---

*The mission of Santa Ana College is to be a leader and partner in meeting the intellectual, cultural, technological, workforce and economic development needs of our diverse community. Santa Ana College prepares students for transfer, employment, careers and lifelong intellectual pursuit in a dynamic learning environment.*

---



**SAC FACILITIES MEETING  
MINUTES – FEB 21, 2017  
1:30P.M. – 3:00P.M.**

Draft for Approval

The mission of Santa Ana College is to be a leader and partner in meeting the intellectual, cultural, technological and workforce development needs of our diverse community. Santa Ana College provides access and equity in a dynamic learning environment that prepares students for transfer, careers and lifelong intellectual pursuits in a global community.

Administrators		Academic Senate		CSEA	
Michael Collins, Co-chair	Christine Leon	Genice Gilreath(a)	Tommy Strong(a)	Sarah Salas(a)	Mike Turrentine(a)
Bart Hoffman(a)	Dan Mahany	Ben Hager	Valinda Tivenan(a)		
Nilo Lipiz	Veronica Oforlea	Brian Kehlenbach, Co-chair		<b>District Liaison</b>	
Eve Kikawa	Mark Wheeler	Noemi English		Carri Matsumoto	Darryl Taylor(a)
Rhonda Langston		Susan Sherod			
Guests				<b>Campus Safety &amp; Security</b>	
*Ray Stowell for Scott Baker	Elliott Jones	James "Marty" Rudd		*Scott Baker	
Harold Pierre	Roy Shahbazian	Aggie Kellet		<b>ASG Representative</b>	
Ron Jones	Michelle Parolise	Heller Sanchez		Mario Cruz	
<b>1. WELCOME AND INTRODUCTIONS</b>					
		Self-Introductions were made.		Meeting called to order – 1:32p.m.	
<b>2. PUBLIC COMMENTS</b>					
		Dr. Kehlenbach shared his appreciation and gratitude to Carri Matsumoto, Dr. Collins, Mark Wheeler as well as all the individuals and teams involved with the recent move of the N building to the Johnson Center. He further noted the outstanding execution of the project helped to put the department at ease. Dr. Collins concurred with Dr. Kehlenbach sentiments.			
<b>3. MINUTES</b>					
		<b>DISCUSSION/COMMENTS</b>		<b>ACTIONS/ FOLLOW UPS</b>	
		The following meeting minutes were presented for approval: September 20, 2016 October 18, 2016		Motion was moved by S. Sherod to approve the meeting minutes from September 20, 2016 and October 18, 2016. 2 <sup>nd</sup> – N. Lipiz The motion carried unanimously.	
<b>4. PROJECT UPDATES</b>					
		<b>DISCUSSION/COMMENTS</b>		<b>ACTIONS/ FOLLOW UPS</b>	
		Carrie Matsumoto provided Measure Q bond project updates, Scheduled Maintenance updates and Prop 39 Year Four projects. The major projects were highlighted. <ul style="list-style-type: none"> <li>This past weekend there was a planned campus outage to allow for energizing of the electrical panel in the new Electrical building. There will be more scheduled outages planned throughout the project</li> <li>Night shift work has begun related to in some of the seven buildings. Work consists of changing out the thermostats, checking the VAB boxes to monitor the airflow as well as some mechanical upgrades to equipment.</li> </ul>		<b>FOLLOW UPS</b> The Phasing will be brought back to the March meeting for the committee's review.	

PROJECT UPDATES (cont.)	DISCUSSION/COMMENTS	ACTIONS/ FOLLOW UPS
	<ul style="list-style-type: none"> <li>• The work in Phillips Hall will begin in summer and go into fall. Members were advised that the project will have a longer timeline as it consists of structural work.</li> <li>• The overall project is about 50% through, utility work 70% complete most of underground infrastructure in place.</li> <li>• Currently in the major phase of project by G and F.</li> <li>• The project has been delayed by the rains.</li> <li>• McCarthy is currently reassessing the schedule due to unforeseen conditions.</li> <li>• Working on reviewing summer access to buildings E, W and G, as well as coordinating paths of travel and minimize disruption.</li> <li>• District team worked on adding more access where possible and alleviate the congestion, and improve path of travel over the winter break.</li> </ul> <p>An overview of the Central Plant building and Electrical building was provided:</p> <ul style="list-style-type: none"> <li>• Vertical component completed.</li> <li>• The roof structure is in place. The roof will begin in a week or so depending on the weather.</li> <li>• Interior work is in progress, installing the rough mechanical, electrical, plumbing and major equipment.</li> <li>• Chillers have not been received however, the structural component has been installed.</li> <li>• Cooling towers have been installed.</li> </ul> <p>Electrical building</p> <ul style="list-style-type: none"> <li>• Roof has been completed, will come back and do some flash work.</li> <li>• Stucco completed.</li> <li>• Major electrical component installed. A critical phase of this area will be cutting over from the existing electrical to the new electrical. This work will require a planned shutdown.</li> </ul> <p><u>Emergency Relocation of the Music Building</u></p> <p>Ms. Matsumoto shared the details of the relocation of the Music building with the membership.</p> <p>Specifically, an emergency relocation needed to occur as there was an unforeseen condition that determined spring classes could not be held in the Music building.</p> <ul style="list-style-type: none"> <li>• Good opportunity to make some minor improvements carpet, paint, etc.</li> <li>• The repairs are hoped to be completed by Spring or Summer at the latest with a move in by fall.</li> </ul> <p>Ms. Matsumoto expressed her appreciation to the faculty and staff for their support in relocation of the different items. She was extremely pleased with the collaboration, commitment and efforts of the college and campus teams by executing this project quickly and efficiently.</p> <p>Dr. Kehlenbach shared how pleased the students are in the new area.</p> <p><u>Parking Lot at 17<sup>th</sup>/Bristol St.</u></p> <p>A re-design of the property was completed. The major change was adding a perimeter fence. The district is hoping that the re-design does not trigger a DSA resubmittal. The goal is to get final approval at a back check over the counter appointment in March. Goal is to have more parking for the campus.</p>	

PROJECT UPDATES (cont.)	DISCUSSION/COMMENTS	ACTIONS/ FOLLOW UPS
	<p>In addition, she provided an overview for the committee’s review:</p> <ul style="list-style-type: none"> <li>• 2015-2016 Scheduled Maintenance New Projects</li> <li>• 2016-2017 Scheduled Maintenance Projects</li> <li>• Current Capital Projects</li> <li>• Requested Projects - It was noted that the Football Field Fence &amp; Gate project is moving forward</li> <li>• Year Four – Prop. 39 Projects – it was clarified that the EMS upgrade are for 15 buildings not related to the Central Plant’s 7 buildings. Hoping to bring all the building to one uniformed platform on an Energy Management System.</li> </ul> <p>The following was noted related to the Door Hardware project. The Door Hardware project is currently on hold due to lack of funding and the cost associated with it. The campus has a plan to change out door hardware across the campus throughout all their facilities. Some of the buildings hardware has already been changed out and there is another schedule for the remainder of the campus.</p> <p>If was clarified is that the Door Hardware project is different from the Door Replacement. The Door Replacement project is related to the replacement of the automatic doors.</p> <p>Each campus has a working committee reviewing access control. The district is surveying each door with Campus Safety and Maintenance on each campus to determine an access control approach for each building as well as a solution for lock down.</p>	
<b>5. Standing Reports</b>	<b>DISCUSSION/COMMENTS</b>	<b>ACTIONS/ FOLLOW UPS</b>
<b>HEPSS (Health, Emergency Preparedness, Sa and Security)Task Force</b>	<p>Don Mahany provided an overview of the February 2, 2017 HEPSS meeting. In addition to the report, he noted the following:</p> <ul style="list-style-type: none"> <li>• Campus Safety now has a dispatcher responding to calls.</li> <li>• Membership encouraged to sign up for Live Safe.</li> <li>• Due to the ongoing construction, the Student Emergency Notifications document that is read to students at the start of each semester has been modified. <ul style="list-style-type: none"> <li>o The Evacuation Map on the back has been removed and students are advised to evacuate to the closest parking lot.</li> </ul> </li> <li>• Safety presentations were made at the Deans and faculty meeting during flex week.</li> <li>• Important to improve the relationship between building captains, floor wardens and faculty. <ul style="list-style-type: none"> <li>o Specifically, when an instructor is notified to evacuate, it is extremely important that the faculty member responds immediately.</li> </ul> </li> </ul>	
<b>Facilities Report</b>	<p>Mark Wheeler, facilities manager provided the membership with an extensive overview of the work of his department: In addition, he noted:</p> <ul style="list-style-type: none"> <li>• The Spot has received new carpet and furniture.</li> <li>• The college is conducting a test run for furniture for the new science building; specifically 5 classrooms have received new furniture. The team is gathering feedback.</li> <li>• There have been some light issues on campus, lights out on some exterior buildings due to the Central Plant project, in Lot 6 and outside of the F building. The team is</li> </ul>	

Standing Reports (cont.)	DISCUSSION/COMMENTS	ACTIONS/ FOLLOW UPS
	<ul style="list-style-type: none"> <li>• working diligently on repairs.               <ul style="list-style-type: none"> <li>○ Floodlights have been placed on the roofs of the building exteriors to light the areas affected.</li> </ul> </li> <li>• Elevator repair in the D. bldg.</li> <li>• Ceiling tiles, ballests, lamps completed in Russell Hall.</li> <li>• Installed new tables in A-214.</li> </ul> Electrical installation in the machine shop and fashion lab.	
Environmental Task Force	Susan Sherod provided a presentation to the membership regarding ways to increase bike use on campus. She noted the following: <ul style="list-style-type: none"> <li>• Ideas for making bike use safe.</li> <li>• Educate students and offer incentives.</li> <li>• Work with OCTA to provide necessary bike parking at the train and bus stations.</li> <li>• Important to support alternative commuter methods.</li> <li>• Reduces carbon footprint.</li> <li>• Offer infrastructure that supports the bike user safety.</li> </ul> <ul style="list-style-type: none"> <li>○ It was noted that there is discussion regarding supporting bike riders within the landscape plans for the new Johnson Center.</li> </ul> Members were encouraged to review the presentation material for further information.	

6. Accreditation	DISCUSSION/COMMENTS	ACTIONS/ FOLLOW UPS										
	<p><u>Mission Statement Review</u>            The committee reviewed the College Mission Statement and made the following notations:</p> <table border="1" data-bbox="562 862 1499 1523"> <thead> <tr> <th data-bbox="562 862 749 943">Broad Educational Purposes</th> <th data-bbox="749 862 869 943">Intended Student Population</th> <th data-bbox="869 862 1073 943">Types of Degrees and Other Credentials</th> <th data-bbox="1073 862 1312 943">Commitment to Student Learning and Achievement</th> <th data-bbox="1312 862 1499 943">Other</th> </tr> </thead> <tbody> <tr> <td data-bbox="562 943 749 1523">           Stated             Notes:            Santa Ana College provides access and equity in a dynamic (add – <b>successful</b>) learning environment...             “Learning” should be in the mission statement.         </td> <td data-bbox="749 943 869 1523">           Stated         </td> <td data-bbox="869 943 1073 1523">           Stated             Notes:            Does not mention Baccalaureate degrees but neither are any other degrees.         </td> <td data-bbox="1073 943 1312 1523">           Notes:            Talks about preparing a student but does not mention the student successfully reaching goal.             Passive and indirectly in regards to learning and achievement.            Bounces around that.             Add...SAC is a <b>committed</b> leader.             Santa Ana College provides (add – <b>students</b>) access...             “Transformation of Students lives.         </td> <td data-bbox="1312 943 1499 1523">           Great if end product is something that could be memorized.         </td> </tr> </tbody> </table>	Broad Educational Purposes	Intended Student Population	Types of Degrees and Other Credentials	Commitment to Student Learning and Achievement	Other	Stated  Notes: Santa Ana College provides access and equity in a dynamic (add – <b>successful</b> ) learning environment...  “Learning” should be in the mission statement.	Stated	Stated  Notes: Does not mention Baccalaureate degrees but neither are any other degrees.	Notes: Talks about preparing a student but does not mention the student successfully reaching goal.  Passive and indirectly in regards to learning and achievement. Bounces around that.  Add...SAC is a <b>committed</b> leader.  Santa Ana College provides (add – <b>students</b> ) access...  “Transformation of Students lives.	Great if end product is something that could be memorized.	
Broad Educational Purposes	Intended Student Population	Types of Degrees and Other Credentials	Commitment to Student Learning and Achievement	Other								
Stated  Notes: Santa Ana College provides access and equity in a dynamic (add – <b>successful</b> ) learning environment...  “Learning” should be in the mission statement.	Stated	Stated  Notes: Does not mention Baccalaureate degrees but neither are any other degrees.	Notes: Talks about preparing a student but does not mention the student successfully reaching goal.  Passive and indirectly in regards to learning and achievement. Bounces around that.  Add...SAC is a <b>committed</b> leader.  Santa Ana College provides (add – <b>students</b> ) access...  “Transformation of Students lives.	Great if end product is something that could be memorized.								

7. Old Business	DISCUSSION/COMMENTS	ACTIONS/ FOLLOW UPS
	<p><b>Parking</b>  The membership discussed the October recommendation noted below and feedback was provided from the respective constituency groups.</p> <ul style="list-style-type: none"> <li>• Lot #6 –release 56 staff stalls which would add them back into the lot for students.</li> <li>• Lot #11 – Take 48 parking stalls and designate them for staff parking.</li> <li>• Reallocate the 8 “staff” stalls from Lot #6 to Lot#1 along 17<sup>th</sup> street curbside area.</li> </ul>	<p>The following motion was moved by B. Hager and 2<sup>nd</sup> by R. Langston to:</p> <ul style="list-style-type: none"> <li>• Release 56 staff stalls in Lot #6 back into the lot for student use.</li> <li>• Take 48 parking stalls from Lot #11 and designate them for staff parking.</li> <li>• Reallocate the 8 “staff” stalls from Lot #6 to Lot#1 along 17<sup>th</sup> street curbside area.</li> </ul> <p>The motion carried unanimously.</p>
8. New Business	DISCUSSION/COMMENTS	ACTIONS/ FOLLOW UPS
9. Other	DISCUSSION/COMMENTS	ACTIONS/ FOLLOW UPS

Adjourned at 3:08p.m.

SUBMITTED BY Geni Lusk 3/3/2017



**SANTA ANA COLLEGE  
FACILITIES COMMITTEE MEETING  
MARCH 15, 2017**







## PROJECTS

- ▶ Dunlap Hall Renovation - Completed
- ▶ Central Plant & Infrastructure
- ▶ Johnson Student Center
- ▶ Johnson Demolition
- ▶ Science Center & Building J Demolition
- ▶ 17<sup>th</sup> & Bristol Street Parking Lot



# PROJECT UPDATE SANTA ANA COLLEGE CENTRAL PLANT AND INFRASTRUCTURE

## Project Summary:

- ▶ Construction of a new 18,000 square foot two-story central plant building, a new electrical building and replacement of all underground utilities (domestic water, sewer, fire water, storm drain, gas, electric and data).
- ▶ Mechanical Upgrades to seven (7) buildings connecting them to the new central plant building.
- ▶ Improvement to the aesthetic character of the campus by major improvement of the landscaping incorporating drought tolerant design features, construction of an amphitheater between the Dunlap building and library, and replacement of concrete paving along pedestrian walkways with new concrete and pavers throughout the campus.
- ▶ Central Plant facts:
  - ▶ Reduces electrical loads during peak demand periods.
  - ▶ Includes a new Energy Management System (EMS) to be able to control building temperatures and monitor system remotely.
  - ▶ Building is designed to meet LEED Silver certification.

## Budget:

- ▶ \$68.17 million



New Central Plant



# PROJECT UPDATE SANTA ANA COLLEGE CENTRAL PLANT AND INFRASTRUCTURE

## Current Activities:

- ▶ Installation storm drain and sewer lines
- ▶ Install anchor tanks at Central Plant Building
- ▶ Install soffit, sheathing, lath and waterproofing at Central Plant Building
- ▶ Install louvers and roof system at the electrical building
- ▶ Install sand and pavers (phase 3)



## Upcoming Activities:

- ▶ Spring Break – electrical shutdowns to Buildings A, C, D, L, N, P and S in order to replace 5 oil switches on east electrical loop
- ▶ Install irrigation sleeves (phase 3)
- ▶ Install site lighting – quad infrastructure
- ▶ Install chilled water lines – Central Plant Building

## Current Status:

- ▶ There have been numerous unforeseen conditions encountered and weather delays.
- ▶ Night shift work has begin on various buildings for mechanical upgrades.
- ▶ The project is 53.8% complete.

## Target Occupancy/Completion

- ▶ December 2017 (under review)
- ▶ Project Close-Out 2018 (under review)



# PROJECT UPDATE SANTA ANA COLLEGE JOHNSON DEMOLITION

## Project Summary:

- ▶ Demolition of existing Johnson Student Center.

## Current Status:

- ▶ Decommissioning activities for the demolition began in summer 2016.
- ▶ Target out-to-bid spring/summer 2017.
- ▶ Target demolition to be undertaken in phases - target start interior demolition fall 2017 target start exterior/hard demolition winter 2017 through spring 2018 to mitigate noise impacts with least amount of occupants on site during the winter holiday break.

## Budget:

- ▶ \$2.5 million





# PROJECT UPDATE SANTA ANA COLLEGE JOHNSON STUDENT CENTER

## Project Summary:

- ▶ Construction of a 59,638 square foot new Johnson Student Center.

## Current Status:

- ▶ Design Development Phase.
- ▶ Review ongoing regarding furniture and equipment configurations with College and user groups ongoing.
- ▶ DSA approval anticipated June 2018.
- ▶ New Target construction start Spring 2019.
- ▶ Target occupancy fall 2020.

## Budget:

- ▶ \$40.7 million target

\$38.96 million funded by Measure Q

Note: Budget is currently deficient by \$1.74 million

## Programs Include:

- ▶ Campus Store
- ▶ Grab-n-Go / Coffee & Juice
- ▶ DSPS
- ▶ EOPS/CARE & CalWORKS
- ▶ Student Financial Services
- ▶ SSSP / Upward Bound
- ▶ Warehouse
- ▶ Reprographics
- ▶ Conference Center
- ▶ Financial Aid
- ▶ Student Placement
- ▶ Health & Wellness Center
- ▶ DSPS
- ▶ Office of Student Life
- ▶ ASG
- ▶ The Spot





# PROJECT UPDATE SANTA ANA COLLEGE SCIENCE CENTER

## Project Summary:

- ▶ Construction of a new 65,428 square foot science center housing modern laboratories, classrooms, lecture classrooms, and faculty offices.
- ▶ Demolition of (3) J Buildings.

## Current Status:

- ▶ New DSA submittal December 22, 2016 – DSA review ongoing.
- ▶ District constructability review ongoing.
- ▶ DSA approval anticipated September 2017.
- ▶ Target construction start January 2018.
- ▶ Target occupancy summer 2020.

## Budget:

- ▶ \$73.38 million



## Programs Include:

- ▶ Division Office
- ▶ Faculty Offices
- ▶ (2) Standard Classrooms
- ▶ (1) Large Classroom
- ▶ (1) Large Divisible Classroom
- ▶ (1) Computer Lab
- ▶ (1) Engineering Lab & Support Space
- ▶ (6) Biology Labs & Support Space
- ▶ (2) Geology Labs & Support Space
- ▶ (5) Chemistry Labs & Support Space
- ▶ (1) Physics Labs & Support Space
- ▶ Student Collaboration Areas





# PROJECT UPDATE SANTA ANA COLLEGE BUILDING J DEMOLITION (SCIENCE CENTER)

## Project Summary:

- ▶ The existing J Buildings house the custodial department, the Quick Copy Center, storage for Maintenance & Operations (M&O), and storage for welding program.
- ▶ All programs/storage areas need to be relocated.
- ▶ Demolition of (3) J Buildings – part of the Science Project.

## Current Status:

- ▶ Three options for the relocation of the welding program have been presented to the Campus. Due to budget and constraints within the area, additional options are being developed by the architect.
- ▶ The District will be adding industrial shelving to the existing M&O Building to accommodate the storage items.
- ▶ The custodial department will temporarily relocate to the M&O Building until their future location on the 2<sup>nd</sup> floor in the Central Plant building has been completed.
- ▶ Target decommissioning activities of J Buildings winter break 2017.

## Budget:

- ▶ Included in Science Center Budget.





# PROJECT UPDATE SANTA ANA COLLEGE TEMPORARY VILLAGE PHASE 4

## Project Summary:

- ▶ Relocation of Quick Copy Center into Temporary Village prior to demolition of (3) J Buildings.

## Current Status:

- ▶ Village VL-312 is no longer available as it houses the Middle College High School.
- ▶ A new interim location in VL-107 is being considered. HGA will commence re-design to accommodate the Quick Copy Center into the new location.
- ▶ Improvements to VL-107 are anticipated for late-July 2017.
- ▶ Relocation of Quick Copy Center anticipated for winter break 2017.



## Budget:

- ▶ Included in Science Center Budget.





# PROJECT UPDATE SANTA ANA COLLEGE PARKING LOT AT 17<sup>TH</sup>/BRISTOL ST.

## Project Summary:

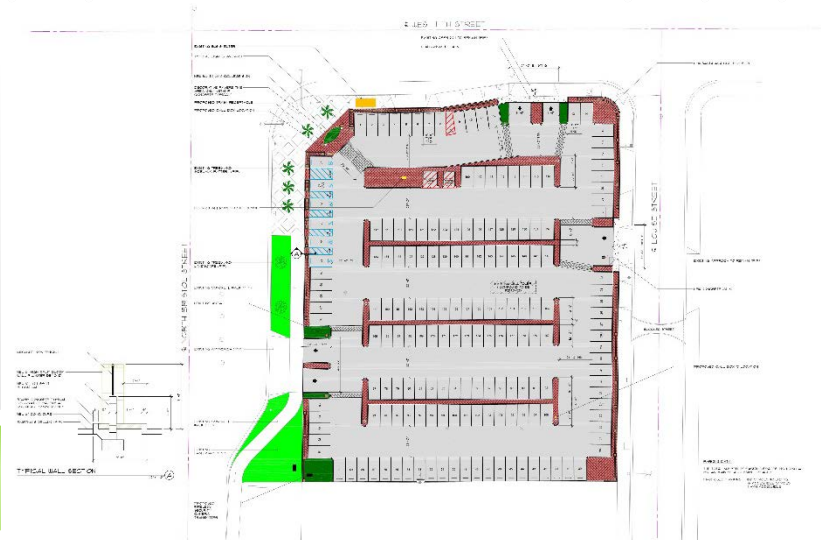
- ▶ New surface parking lot.

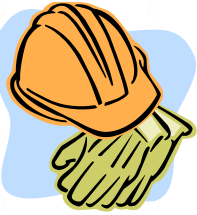
## Current Status:

- ▶ New District and Campus approved final design.
- ▶ Plans submitted to City of Santa Ana Department of Public Works on March 8, 2016.
- ▶ New Re-submittal of plans to DSA on March 10, 2017. DSA review ongoing.
- ▶ Target construction start fall 2017.

## Budget:

- ▶ \$2.5 million
- ▶ Acquisition of property was paid by Measure E funds.





# NEW 2016-2017 SCHEDULED MAINTENANCE PROJECTS

## **Santa Ana College**

State Allocation 2017                      \$440,000

- ▶ Lighting Contact/Relays (D, H, L, R, T)
- ▶ Window Replacement (H)
- ▶ Water Conservation



# NEW 2016-2017 SCHEDULED MAINTENANCE PROJECTS SANTA ANA COLLEGE

PROJECT	STATUS	ESTIMATED BUDGET
Lighting Contact/Relays (D, H, L, R, T)	This project is currently in construction in conjunction with the Proposition 39 year 4 EMS building upgrade project.	\$61,123
Window Replacement (H)	Anticipated DSA submittal March 2017. A schedule for implementation of work is under review with the College.	\$351,129
Water Conservation	Project is in planning.	\$27,748 (under review)
<b>TOTAL ALLOCATION</b>		<b>\$440,000</b>



# 2015-2016 SCHEDULED MAINTENANCE NEW PROJECTS

## **Santa Ana College**

State Allocation 2016                      \$1,837,665

- ▶ Roof Replacement (W)
- ▶ Roof Replacement (E, G, K & S)
- ▶ Water Conservation
- ▶ Door Replacement (C, H, L, R, S)
- ▶ Flooring Repair (Gym)
- ▶ Flooring Repair (Dance)
- ▶ Painting (C, P, S)
- ▶ Waste Oil Tank Removal & Replacement (K)
- ▶ Carpet Replacement ( B, L, S) - carryover from SM 2015 - \$149,650.



# 2015-2016 SCHEDULED MAINTENANCE PROJECTS SANTA ANA COLLEGE

PROJECT	STATUS	ESTIMATED BUDGET
Roof Replacement (W)	Notice of completion approved by Board of Trustees on August 15, 2016. Project to be closed.	\$357,235
Roof Replacement (E, G, K, S)	Notice of completion approved by Board of Trustees on February 6, 2017. Project to be closed.	\$1,059,100
Waste Oil Tank Replacement	Project completed on January 5, 2017. Project to be closed.	\$62,540 (under review)
Water Conservation	Ongoing coordination with the Central Plant design team to review locations of controllers to be installed.	\$80,000 (under review)
Door Replacement ( C, H, L, R, S)	Contractor was approved by Board of Trustees February 27, 2017. The doors have been ordered, and due to a lengthy procurement timeline, the installation will commence in April 2017.	\$100,530
Flooring Repair (G)	Phase 1- Gym floor repair was completed on August 4, 2016. Phase 2- Resurface and restripe, schedule TBD.	\$100,005
Dance Room Floor Repair (G)	Anticipated approval of contractor on April 12, 2017. Anticipated construction has been coordinated with faculty and will commence mid-May 2017.	Included in Flooring Repair Budget
Painting (C, P, S)	Schedule under review. Budget under review. Central Plant coordination of construction activities.	\$78,255 (under review)
Carpet Replacement (B, L, S)	Installation in Buildings B and L has been completed. Installation in Building S for the IT department has been completed. District is working with Counselling Department to coordinate installation dates.	SM 2015 carryover
<b>TOTAL ALLOCATION</b>		<b>\$1,837,665</b>

# CURRENT CAPITAL PROJECTS SANTA ANA COLLEGE

PROJECT	STATUS	ESTIMATED BUDGET
Emergency Blue Phone & Path of Travel (SAC, DMC, CEC, OCSRTA)	DSA submittal December 16, 2016. DSA review ongoing.	\$986,745
Chavez Hall Renovation	Currently developing scope of work to remediate/renovate building.	\$262,500 (under review)
Barrier Removal Exterior	Parking Lot 6 path of travel improvements. This project will be completed in 2 phases. Phase 1 of this project, which will add 8 interim accessible parking stalls, will commence on March 16. Phase 2, will add 9 accessible stalls, as well as a new driveway with roller curb, is in the planning stages. Bid documents are being prepared for anticipated release mid-March 2017. Work to be completed in summer 2017.	\$275,000 (under review)

# REQUESTED PROJECTS SANTA ANA COLLEGE

PROJECT	STATUS	ESTIMATED BUDGET
Football Field Fence & Gate	The materials have been ordered and anticipated installation is April 2017.	\$14,000 (SAC Redevelopment Funds)
Hammond Hall Clean Room	A fourth set of comments have been received from DSA, requesting significant structural and accessible upgrades to the entire building. Options are being reviewed by the District and the College.	\$113,500 (SAC Grant Funds)
Orange County Sheriff's Regional Training Academy – Block Wall	The contractor mobilized on February 8, 2017, and construction is ongoing.	\$645,808 (SAC Redevelopment Funds)
All Call Fire Alarm	Re-programming has commenced on the M&O Building and Building S. Additional re-programming is being scheduled by Central Plant's electrical sub-contractor.	\$125,000 (under review)
CEC Mural	Schedule under review. College to confirm when art murals have been completed.	\$8,530 (SAC Diversified Trust Fund)



## YEAR FOUR PROP 39 PROJECTS SANTA ANA COLLEGE

### Project Summary:

- ▶ Energy Management Systems (EMS) upgrade at Santa Ana College (15 buildings), Digital Media Center and Orange County Sheriff's Regional Training Academy.

### Current Status:

- ▶ Work has commenced at Santa Ana College on February 13, 2017.
- ▶ Buildings I, G, L, M, and X are ongoing.

### Budget:

- ▶ \$1,096,152





# QUESTIONS



Facilities Committee

HEPSS report

**March 21, 2017**

Room S-215 at 1:30

*The mission of Santa Ana College is to be a leader and partner in meeting the intellectual, cultural, technological, workforce and economic development needs of our diverse community. Santa Ana College prepares students for transfer, employment, careers and lifelong intellectual pursuit in a dynamic learning environment.*

MEMBERSHIP

Rebecca Barnard	<b>Renee Miller</b>	Michael Collins	Gary Dominguez	Gary Fangrat CEC
<b>Scott Baker</b>	Andy Gonis	Nilo Lipiz	<b>Donald Mahany</b>	Amy Treat, DSPS
<b>Don Maus</b>	Toni Bland	<b>Mark Wheeler</b>	<b>Norma Castillo</b>	

*Bold font indicates members in attendance*

*Meeting called to order – 1:00p.m.*

OLD BUSINESS	DISCUSSION/COMMENTS	ACTIONS
Starting with a clean slate	None	None
<b>New Business</b>		
Strapping file cabinets and objects so they don't fall during an earthquake	Don Maus was talking about strapping items that could fall during an earthquake. He walked around the room looking for things that could fall and hurt someone. We need to be mindful in classrooms, offices and at home	Maus
Emergency Response Training for maintenance and Operations	We want to provide updated emergency response training for the M&O people. When we have more people we want to discuss this in more detail	Wheeler
Where do the Dean's go after an earthquake or event on campus	We were reminded that the Deans should go to the Security building after a significant earthquake. At the Safety and Security building we will decide if we need to open the EOC	Baker
EOC Training	We want to discuss in detail further training and a EOC drill	Collins/ Baker/ Mahany
<b>STANDING REPORTS</b>		
SAC – Scott Baker	All is well on the campus, nothing major to report	Baker
Risk Management – Don Maus	3 hand injuries, all minor	Maus
<b>Next Meeting</b>	<b>DISCUSSION/COMMENTS</b>	<b>ACTIONS/OUTCOME/FOLLOW UPS</b>
April 6, 2017		



## SAC FACILITIES UPDATE

March 21, 2017

- New metal on back gate of soccer field
- New white board in OT lab
- Repaired gas leaks in R and CDC
- Repaired roof leaks in multiple buildings Installed replacement LED light fixtures and replaced builds in multiple locations in campus.
- Serviced all back flows on campus and scheduling replacements of some. Bad shape.
- Hired a new Skilled Maintenance Worker.

## **CONSTRUCTION ALERT**

**Date:** March 13, 2017

**What:** Accessible Parking Spaces

**When:** 3/16/17 – 3/17/17

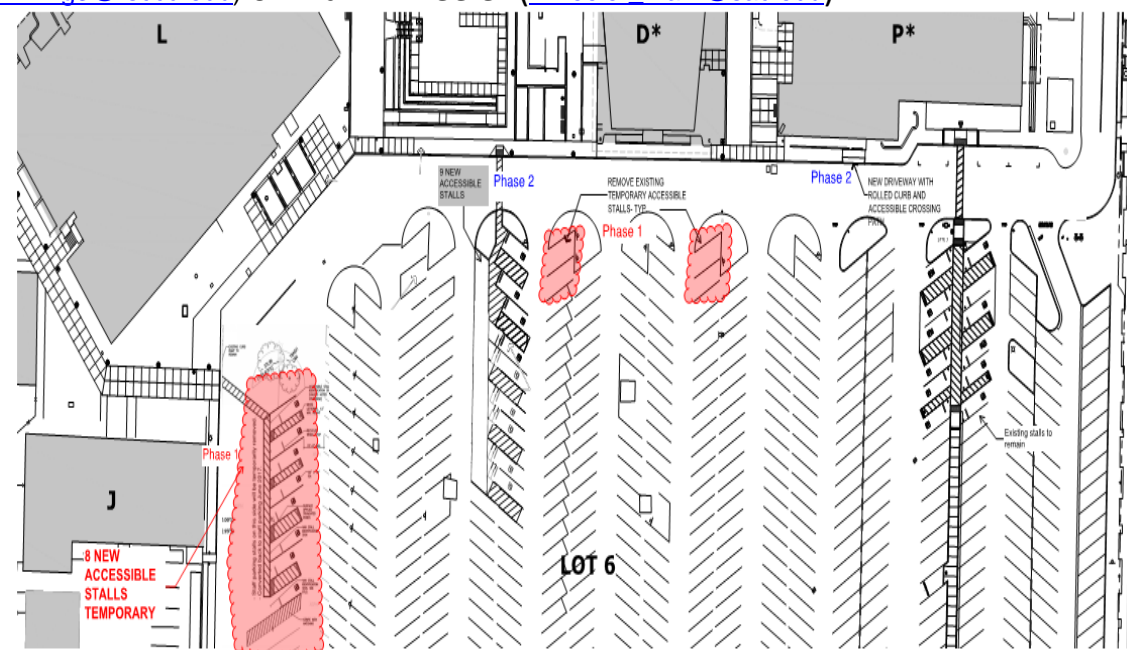
**Where:** Santa Ana College – Parking Lot #6

**Work Hours:** 7:00 a.m. – 3:30 p.m. (Subject to change based on unforeseen conditions or weather conditions and will be coordinated as needed with the campus)

### **Activities:**

The contractor will remove existing staff and motorcycle parking and will convert these into eight (8) accessible parking spaces. Six (6) accessible parking spaces currently located at the top of each row, nearest the buildings, will be removed (see drawing below). The area will be restricted and cordoned off for contractor use only.

If you have, any questions regarding this work please contact Gustavo Ibarra ([cumming3@rscdd.edu](mailto:cumming3@rscdd.edu)) or Mark Wheeler ([Wheeler\\_Mark@sac.edu](mailto:Wheeler_Mark@sac.edu)).



Shading with Solar Awnings  
while we wait...and wait..  
for new trees to come and grow

An Innovative Practical Solution  
For Reaching NetZero and  
Shading

# Case Study Bullitt Center

<http://www.ecobuilding.org/code-innovations/case-studies/solar-canopy-at-the-bullitt-center>



2012-9.6\_e5658

Bullitt Center Under Construction

photo: John Stamets

# ...more awning options

With or without  
photovoltaics, shade  
helps

- Over seating areas
- Over sidewalks
- Over bike parking facilities



Fabric is inexpensive... fabric today, perhaps photovoltaics in the future!

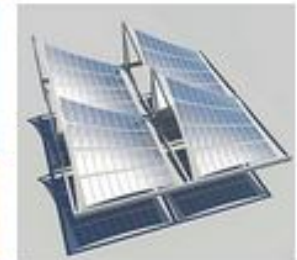
# Solar Fabric Generates Power

<http://inhabitat.com/flexible-lightweight-solar-fabric-by-ftl-solar/>

Flexible & Lightweight Solar Fabric by FTL Solar



**FTL Solar** has created a lightweight tensile fabric with integrated **thin film solar panels** that is capable of shading your deck while powering your home. Originally designed as easily deployable canopies for military applications, FTL's solar products are now available now for **solar parking lot** shades, rooftop building installations, and small and large solar tent structures. The **solar fabric** could even act as a shading for your sunny deck, and since it's a fabric it's easy to install without any heavy duty mounting hardware.





# Over Walkway or Bike Lane



<http://www.floriansolarproducts.com/canopy.html>

# ...an innovative approach

<http://www.curbed.com/2017/2/15/14619786/solar-canopy-sun-shade-carlo-ratti>

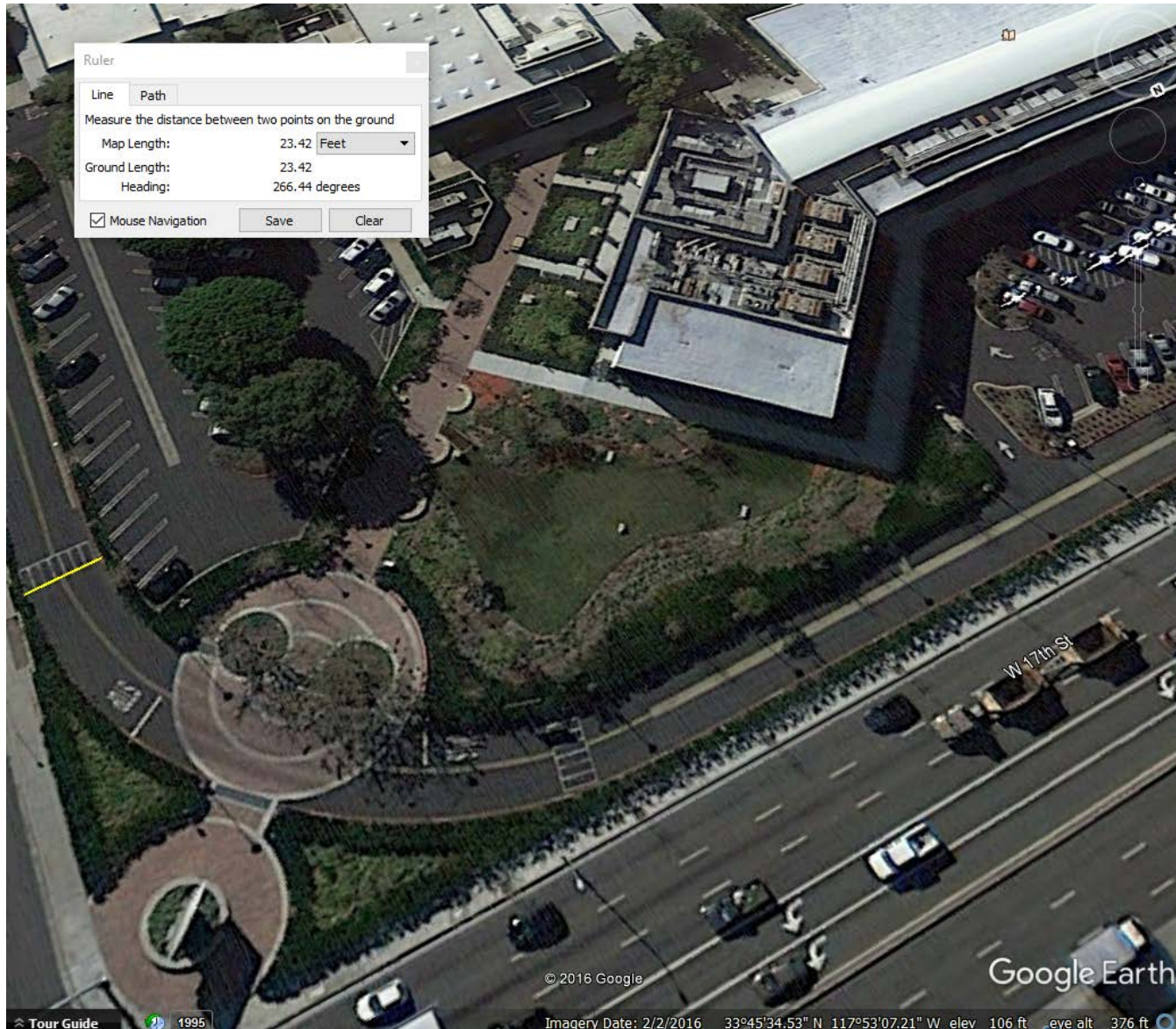


Photos by Pietro Leoni courtesy of [Carlo Ratti Associati](#)

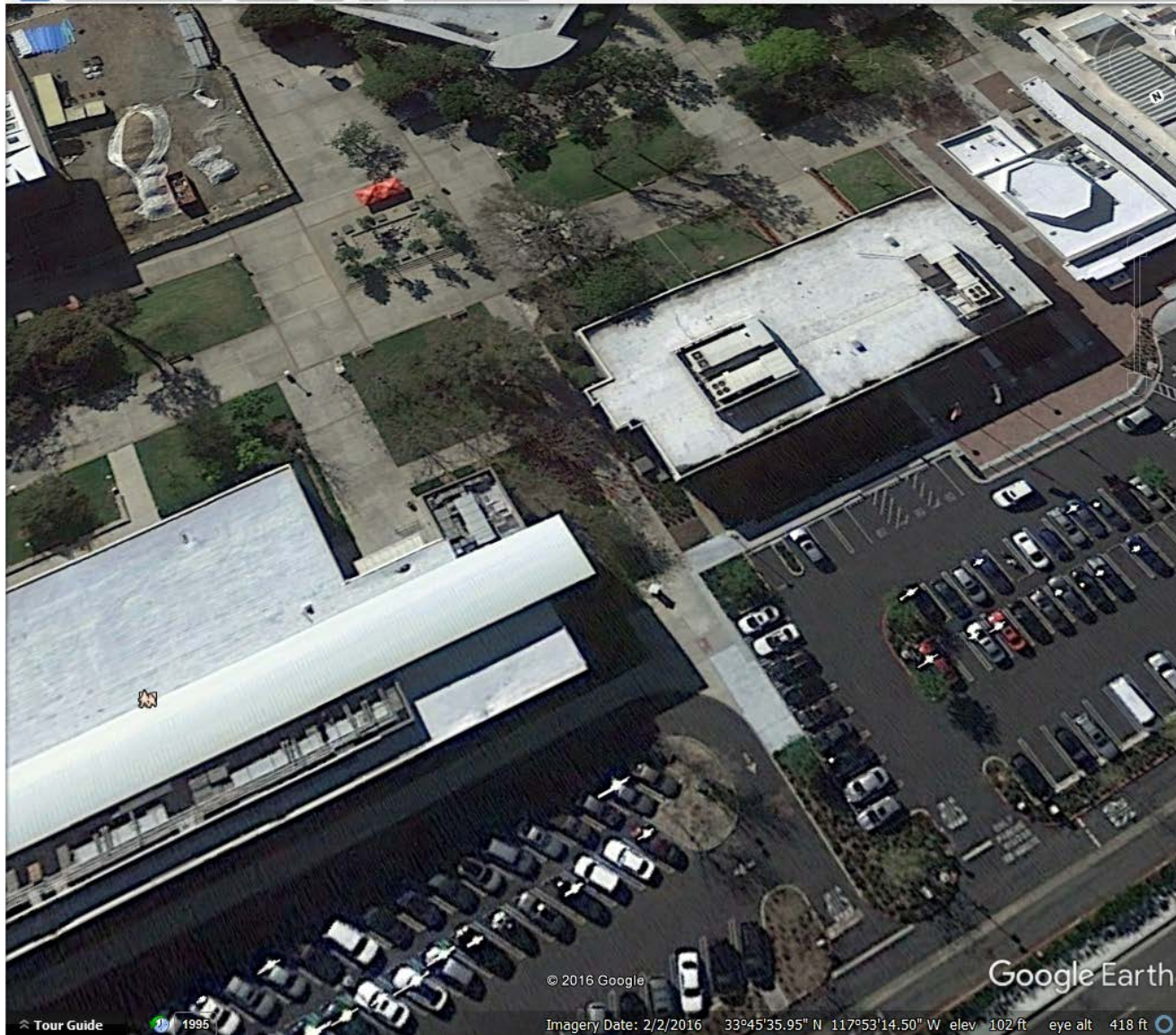
Imaginative architect and designer Carlo Ratti has had some bonkers ideas over the past year, including an [exercise-powered gym barge](#) and a [mile-high skyscraper park](#). But his latest project is on the sunnier side of feasibility. Literally.

The Sun&Shade is a light-reflecting canopy made of mirrors that automatically rotate to catch the sun's rays and fling them at a photovoltaic panel, "located a safe distance away." This generates clean electricity up top while cooling the shaded area beneath. A working prototype of the mirrored structure just debuted

# Plenty of room for Shaded bike parking at SAC NE corner



# Good Spaces for Shaded Bike Parking Near Building 'S'



© 2016 Google

Google Earth

Tour Guide

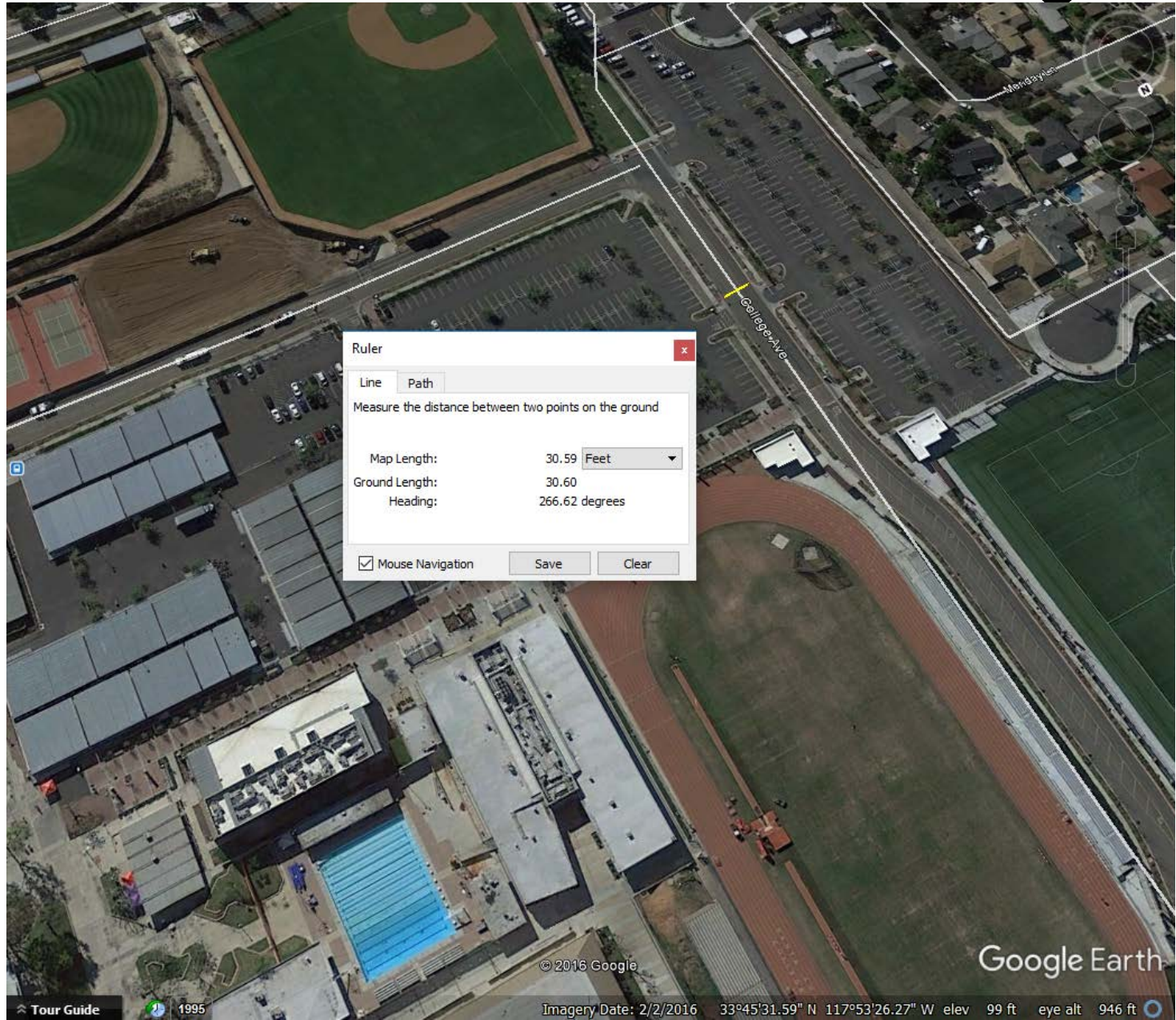
1995

Imagery Date: 2/2/2016 33°45'35.95" N 117°53'14.50" W elev 102 ft eye alt 418 ft

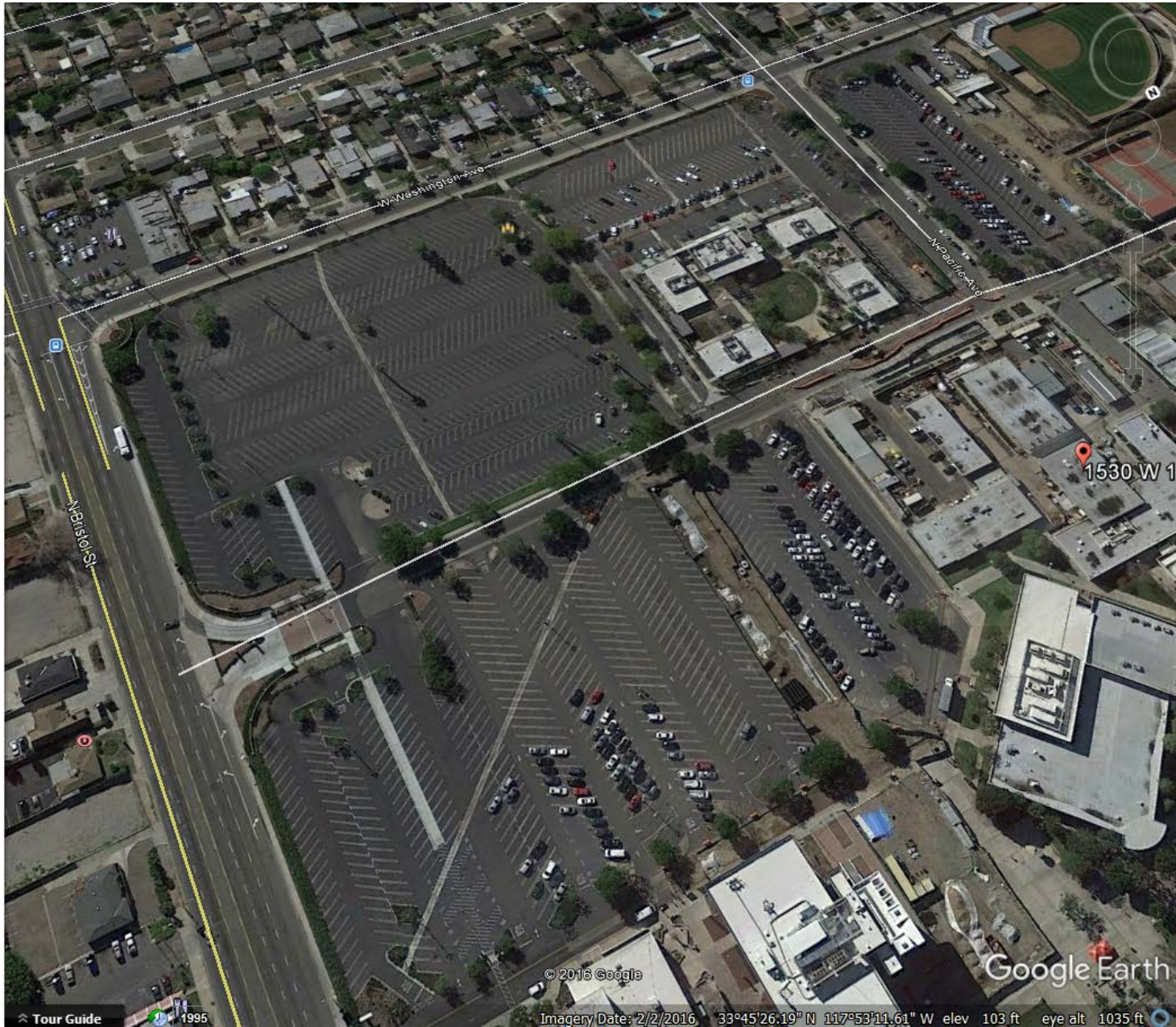
# A lot of non-shaded walks here...



# Need shaded area at the Village?



# Solar shading would be great here!



# Shade here, there, everywhere...

- It can be a hot or wet experience going from one point to another at SAC
- Some of the shading devices can provide some protection from rain as well
- In Santa Ana, we tend to need protection from sun in summer, and reduction of solar insolation is a plus, that helps reduce exterior heat. Misters would be a nice amenity on our hottest summer days.
- In winter, the rain can be a downpour, but it often doesn't continue so heavily for long, so any shelter is helpful to wait for a break