

A glowing lightbulb with a circuit board overlay. The lightbulb is the central focus, with its filament glowing brightly. The background is a soft, blue-tinted gradient. Overlaid on the lightbulb and extending to the edges of the frame are white circuit board traces and nodes, symbolizing technology and modernization.

# FACILITIES UPGRADES

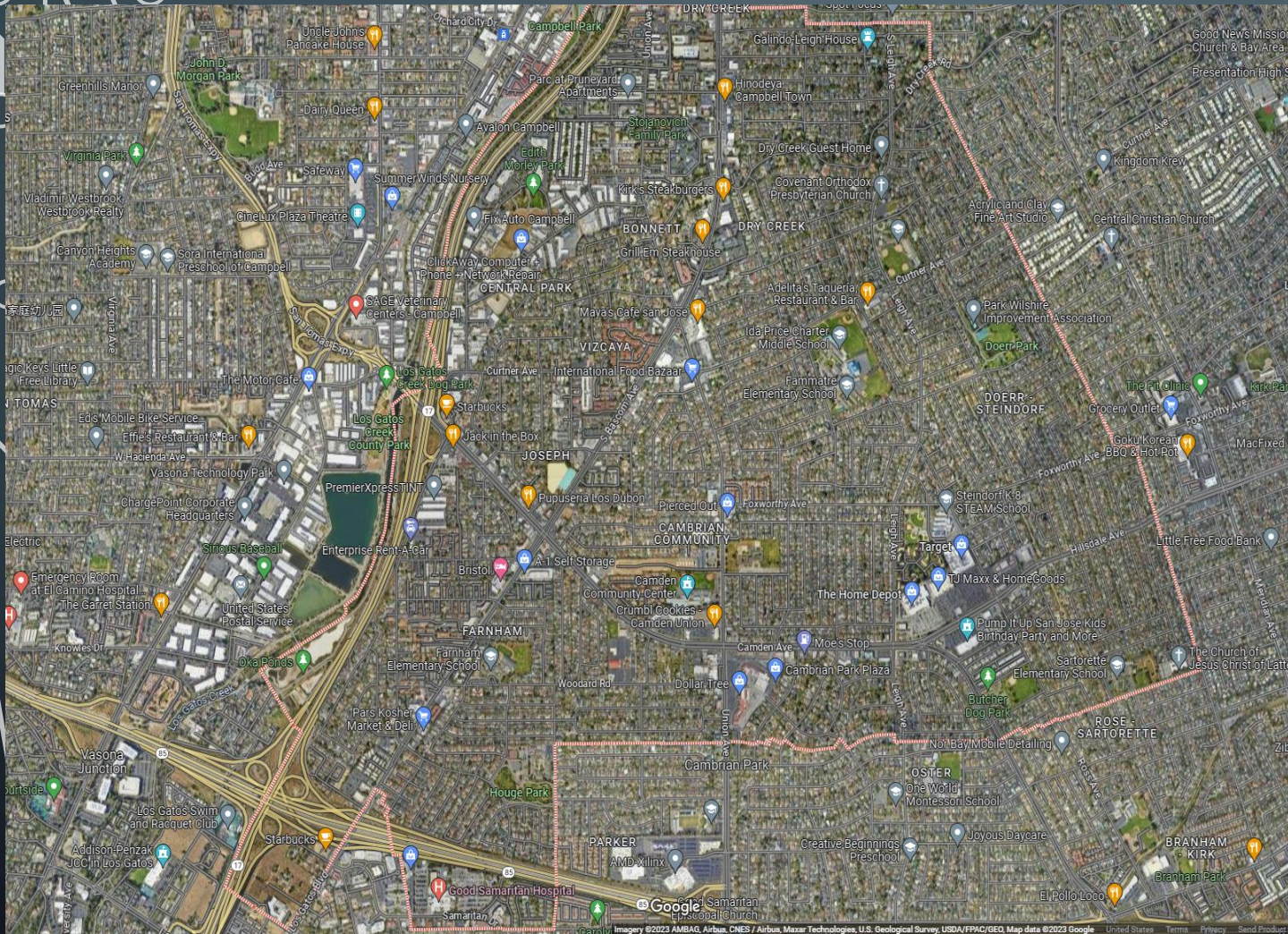
CAMBRIAN SCHOOL DISTRICT

CENTRICA BUSINESS SOLUTIONS



# CAMBRIAN SCHOOL DISTRICT

## FACILITIES COMPONENTS



Lighting Retrofit



Irrigation Systems



Touchless Restrooms



Summary



# ENERGY CONSERVATION MEASURE (ECM) #1

## EXTERIOR LED LIGHTING AND CONTROLS

- Replace / retrofit existing interior incandescent, fluorescent, and High Intensity Discharge (HID) lighting in all facilities with LED. Install occupancy controls where required to meet CA Title 24 energy standards, including Bluetooth occupancy controls with dimming in classrooms, offices, and multipurpose rooms.
- Special scope items include RGB (multi-color spectrum) lighting in elementary school special need classrooms and RGB theatrical lighting in the multipurpose rooms.
- Replace all existing exterior high pressure sodium (HPS), metal halide (MH), and fluorescent fixtures with LED. Install Title 24 compliant controls for any fixtures greater than 40 watts and below 24' (very few fixtures qualify for this which will save the school on exterior controls).
- Additional building mounted exterior lighting added to underlit areas, which includes Bagby multi-use building mount west exterior and between buildings D&E; Sartorette south front and south rear areas.

## ECM #3 WEATHERTRAK SMART IRRIGATION SYSTEM

- WeatherTrak irrigation smart controllers will be installed at all six schools and the District Office to achieve water-efficient irrigation scheduling.
- The WeatherTrak system includes flowsensors and master control valves to allow for remote monitoring and operation.
- This measure also includes a repair allowance to repair or replace damaged or defective irrigation components that were found non-operational during the site audit.

# ECM #4 TOUCHLESS FAUCETS/FLUSHOMETERS RESTROOMS

- Replace existing non-sensor inefficient faucets and flushometers (toilets & urinals) for all restrooms in each of the six schools and the District Office with high efficiency touchless systems to minimize transmission of germs.
- Each restroom will contain one non-sensored standard push-button operated faucet to ensure successful operation regardless of operability of the sensed units.

## Facilities Recommendations

ECM	Project	Measure R Budget	Centrica Cost	Difference/ Savings	Note
1	Interior/Exterior Lighting Retrofit and Control - LED (Fammatre, Farnham, Bagby, Sartorette, Price)	\$ 4,562,680	\$ 1,757,088	\$ 2,805,592	Measure R budget includes replacing all fixtures vs. retro-fit.
1.1	District Office (DO)	\$ -	\$ 233,619	\$ (233,619)	DO is not in Measure R for lighting
3	Irrigation Systems Replacement Schools	\$ 1,800,000	\$ 1,126,938	\$ 673,062	Tier II project in Measure R
3.1	District Office (DO)		\$ 154,444	\$ (154,444)	DO is not in Measure R for Irrigation
4	Touchless faucets and flushometers in student restrooms	\$ 565,000	\$ 403,346	\$ 161,654	Leaving one manual in restroom
4.1	District Office (DO)	-----	\$ 55,276	\$ (55,276)	DO is not in Measure R for Touchless
	<b>Totals</b>	<b>\$ 6,927,680</b>	<b>\$ 3,675,435</b>	<b>\$ 3,252,245</b>	

\* ECM = Energy Cost Measure



# PROCESS FOR GOVERNMENT CODE 4217 – ENERGY CONSERVATION

Recommending ECM 1,  
3, & 4

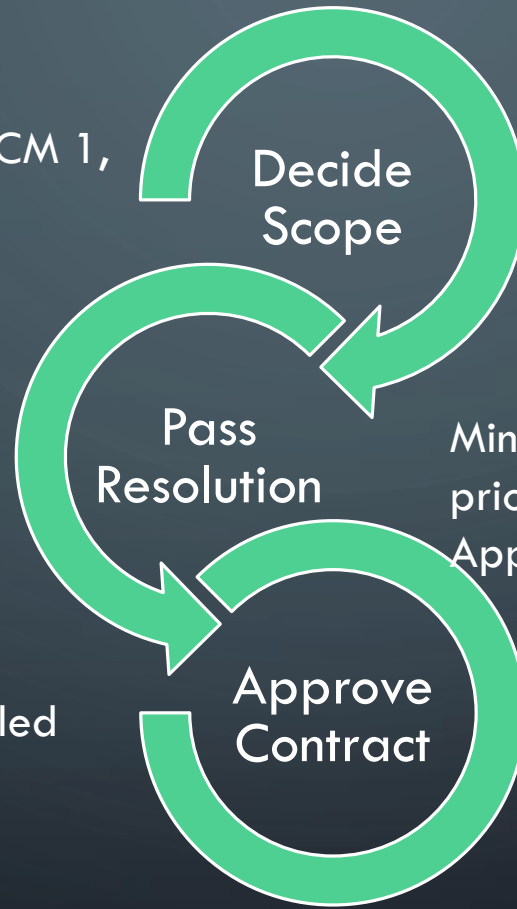
Decide  
Scope

Pass  
Resolution

Minimum - Two Weeks  
prior to Contract  
Approval

Regularly Scheduled  
Board Meeting

Approve  
Contract



# NEXT STEPS

- Approve Scope Based on Fiscal Efficiencies
- Oct. 19 - Issue two week public notice pursuant to 4217
- Nov. 2 - Approve contract Board meeting
- Determine Best Options for Open Ceilings Repair/Painting
  - ❖ Return to Board with staff recommendations within 30 days
- Work with Contractor, Architect, and Project Manager on Schedule and Work Coordination
  - ❖ Develop per site construction schedule for all approved ECMs within 60 days