# WHEN GIS WORKS

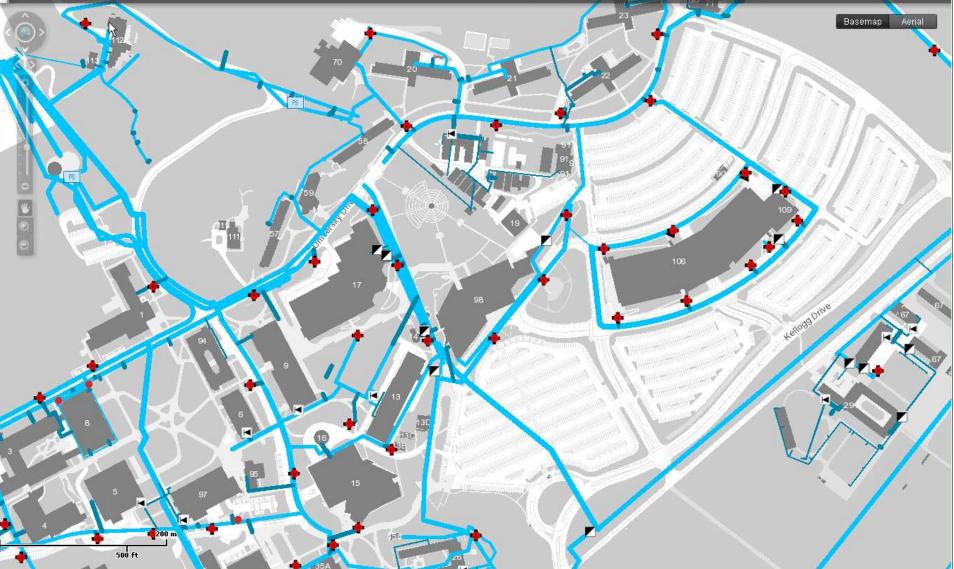
How a Campus Uses Data for Sustainability

**Boykin Witherspoon III** 

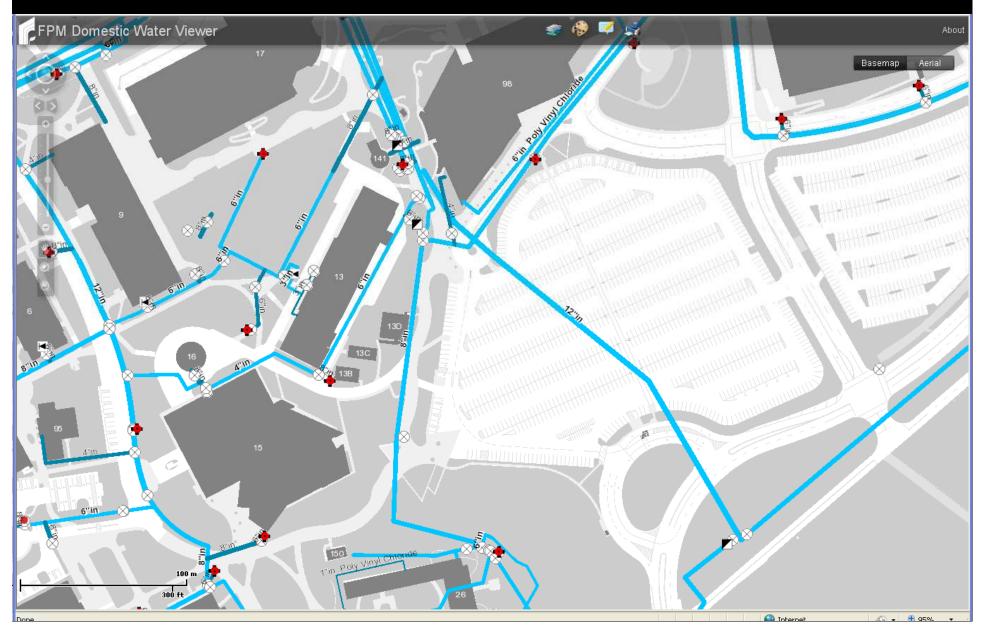
# WORKS

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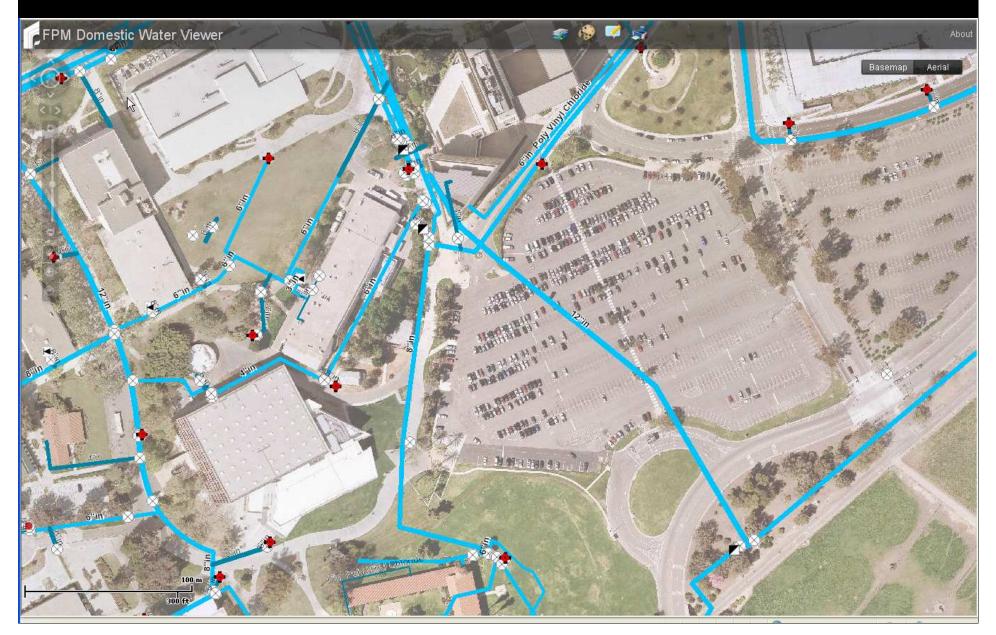
FPM Domestic Water Viewer



## HOW DO I KNOW IT WORKS



### WATER WORKS



# WHO WORKS

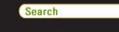
#### FP&M Mapping Portal

CAL POLY POMONA

Map Gallery

FP&M Homepage | CGISR | Directory

GO



#### 1





Click any of icons below to launch a map service.

#### Sewer Map

Contains gravity mains, manholes, lateral lines, fittings, cleanouts, and overall network structure. This map also links to videos, pictures, and plans.

Home

#### Natural Gas

Contains mainlines, meters, pressure regulators, fittings and overall network structure. This map also links to pictures and plans.



GAS NATURAL

Domestic Water Contains mainlines, control valve, fittings and overall network structure of the domestic water system. Reclaimed water system is also available via the layer list icon.



#### Electric 4160 4160 Lines and feeders are shown on this map along. When zoomed in transformers, panels and other electrical structures are available.



#### Lighting

All high voltage Landscape lighting is included in this map from streetlights to bollard lighting.



Contact Us

Contains gravity mains, manholes, lateral lines, fiftings, culverts, outlets and overall network structure. This map also links to videos, pictures, and plans.

Storm Drains



HVAC CHILLED & HOT WATER

#### HVAC Water Systems Contains mainlines, control valve, fittings and overall network structure of both Chilled and Reclaimed water systems.



Reclaimed Water

Contains mainlines, control valve, fittings and overall network structure of the reclaimed water system. Domestic water system is also available via the layer list icon



Electric 12KV 12KV Lines and feeders are shown on this map along. When zoomed in transformers, panels and other electrical structures are available.



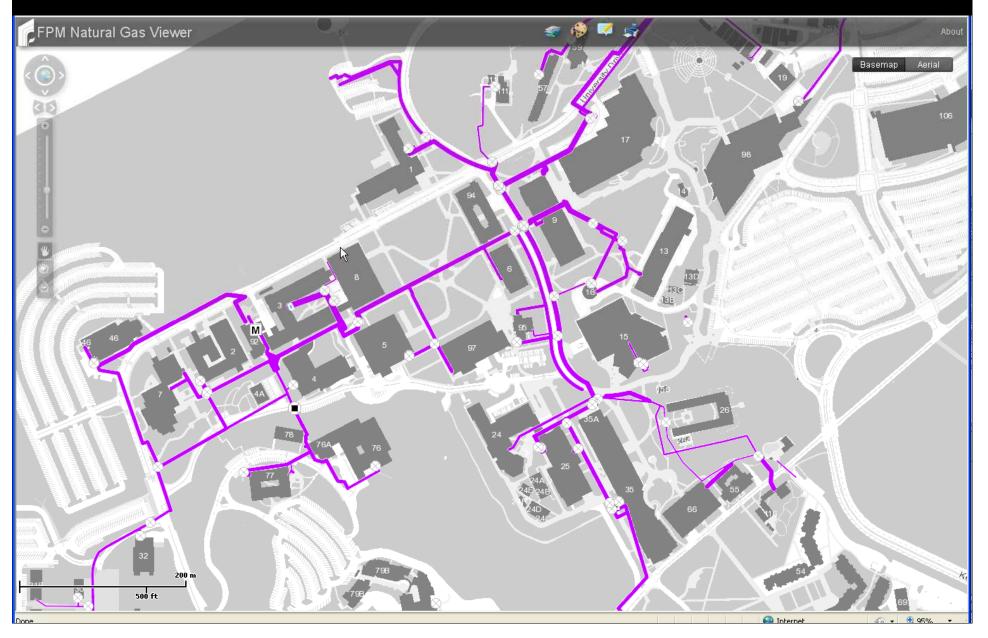
Telecom This map contains fiber optic and copper Telecom/Datacom conduit locations.



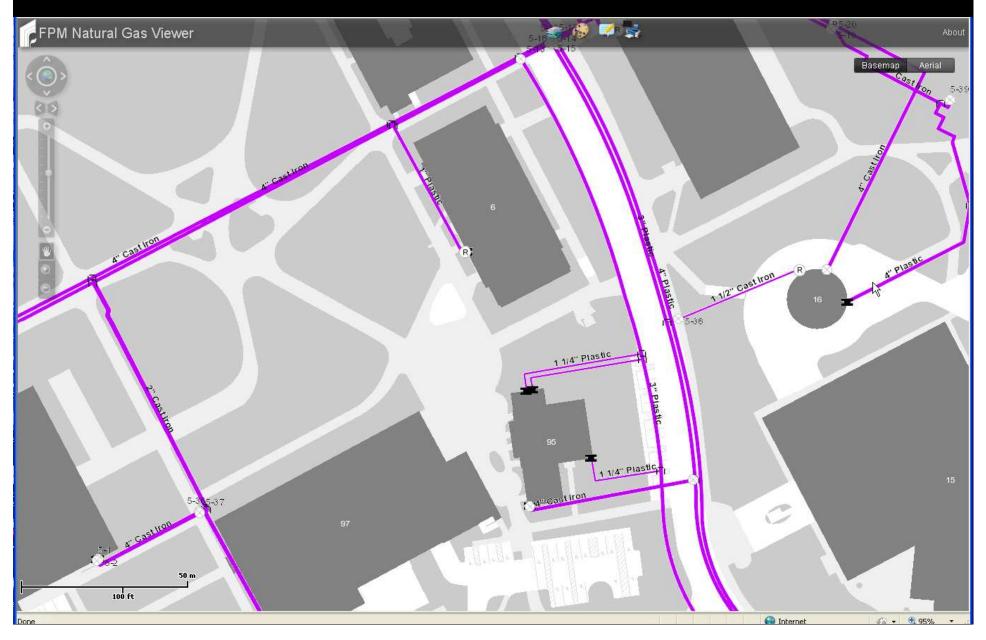
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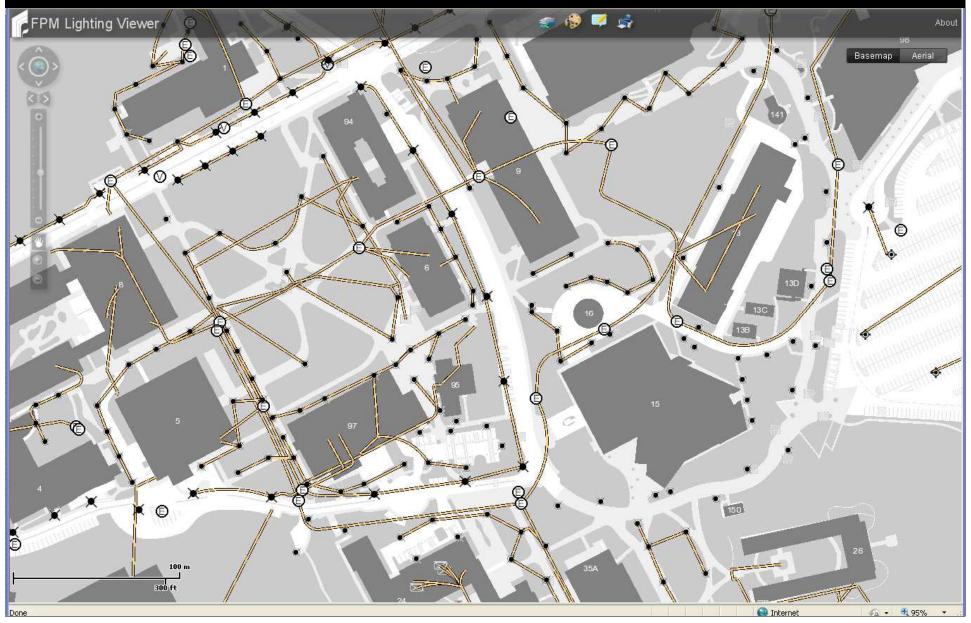
## **GAS WORKS**



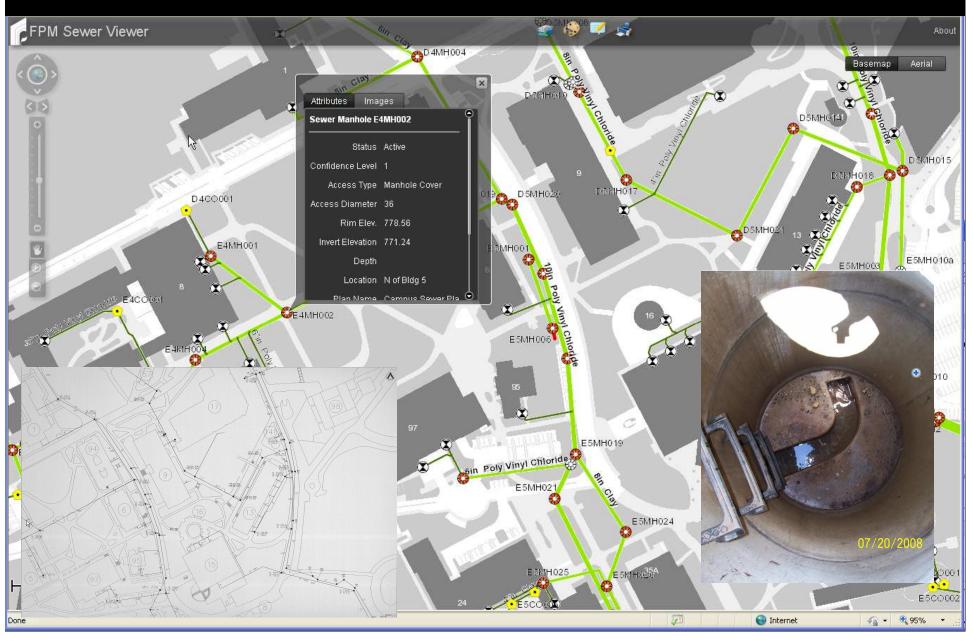
### **GAS WORKS**



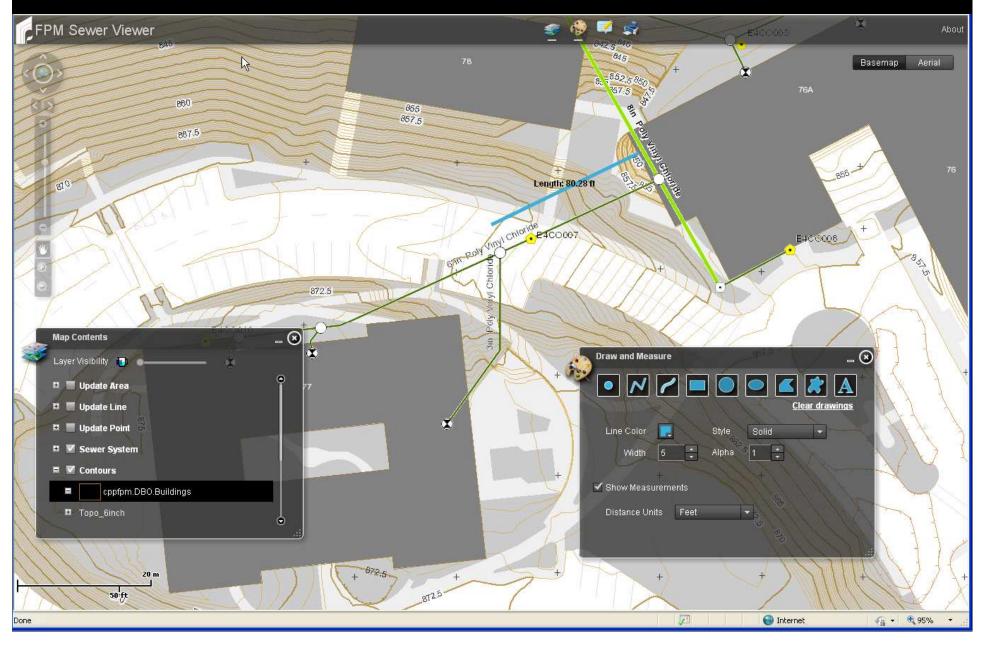
### LIGHT WORK



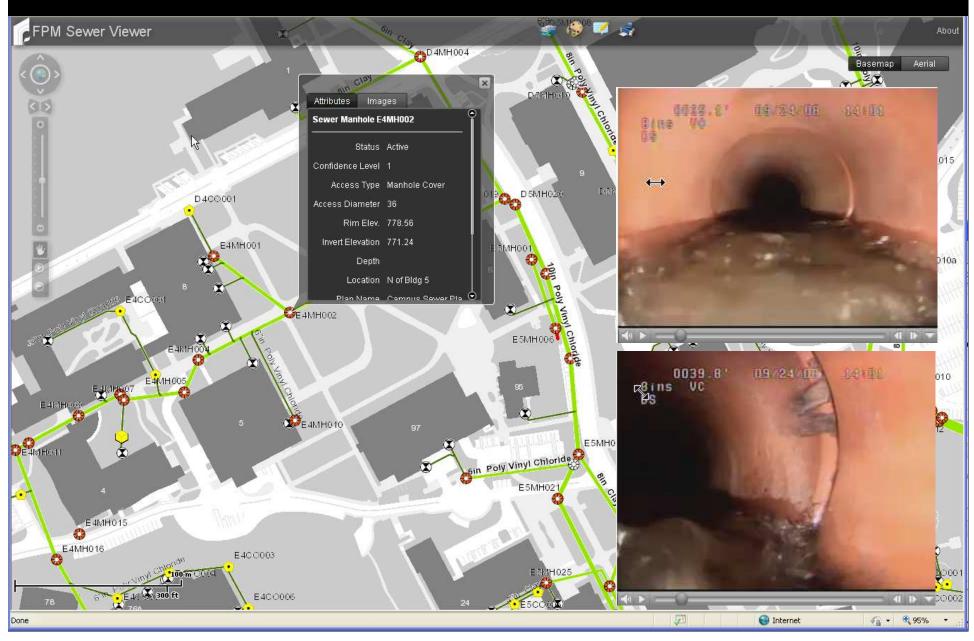
### **HOW DOES SEWER WORK**



### **HOW DOES SEWER WORK**



### **HOW DOES SEWER WORK**



### **OTHER WORK**

#### **Campus Basemaps**

Click any of icons below to launch a map service.



General Basemap A good map to start with! Take a minute and get acquainted with our mapviewer and campus.



Landscape Map This is a categorical map of landscape.

A map of the campus' many soils.



Landuse Map This is a categorical map of landuses across the campus.

This is a more graphical map for

Basemap 2

presentation.

#### LANDUSE

Contours Elevation da be easily vi one foot co with 6" cont

Elevation data for our entire campus can be easily viewed in this map. There are one foot contours for the entire property with 6" contours for inner campus.

#### Maps in Progress

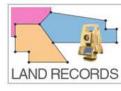
SOILS

Click any of icons below to launch a map service.

Soils



Buildings Map This map will launch a service to will view individual floors of most buildings on campus. Only the highlighted buildings are available at this time.



Land Records Map Campus Land Records and transactions can be searched or viewed chronologically in this map.

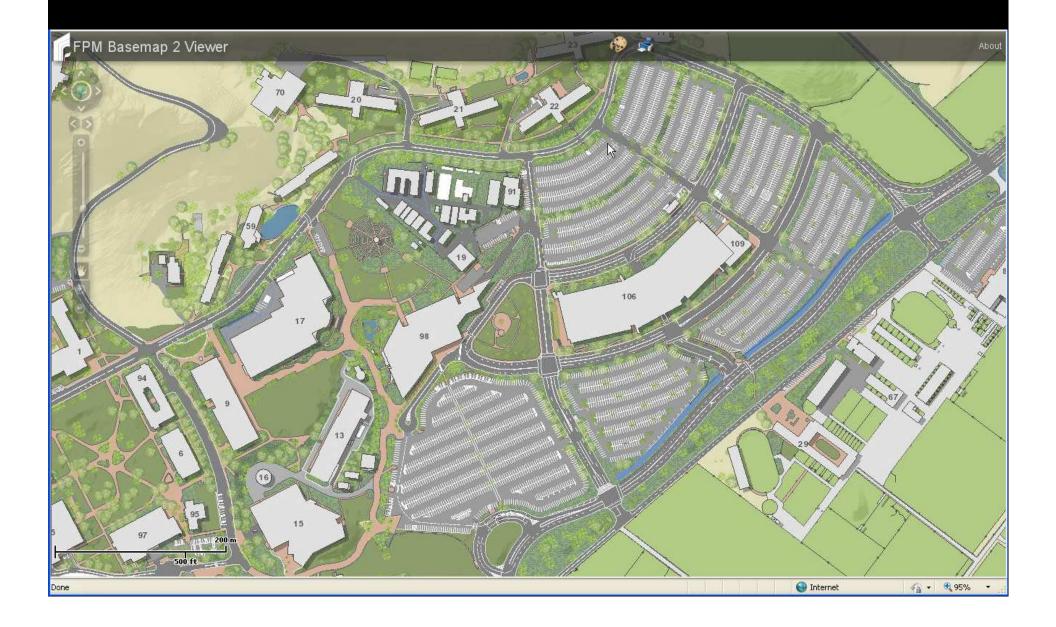


Irrigation This map is for testing purposes; it is unstable and not recommended for use.

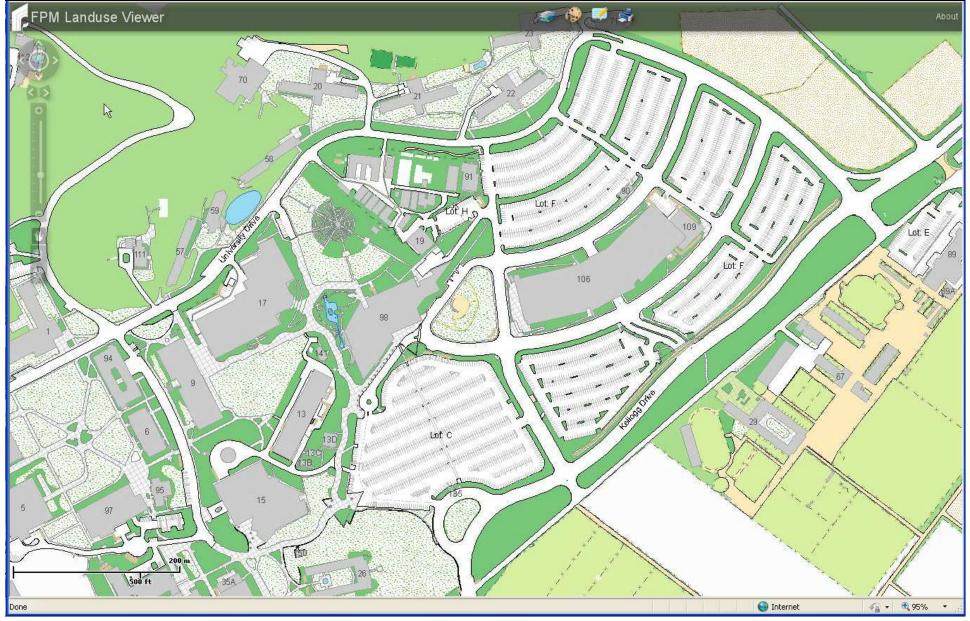
DIG Map This map is a good reference when digging at CSU Pomona.

DEVELOPMENT

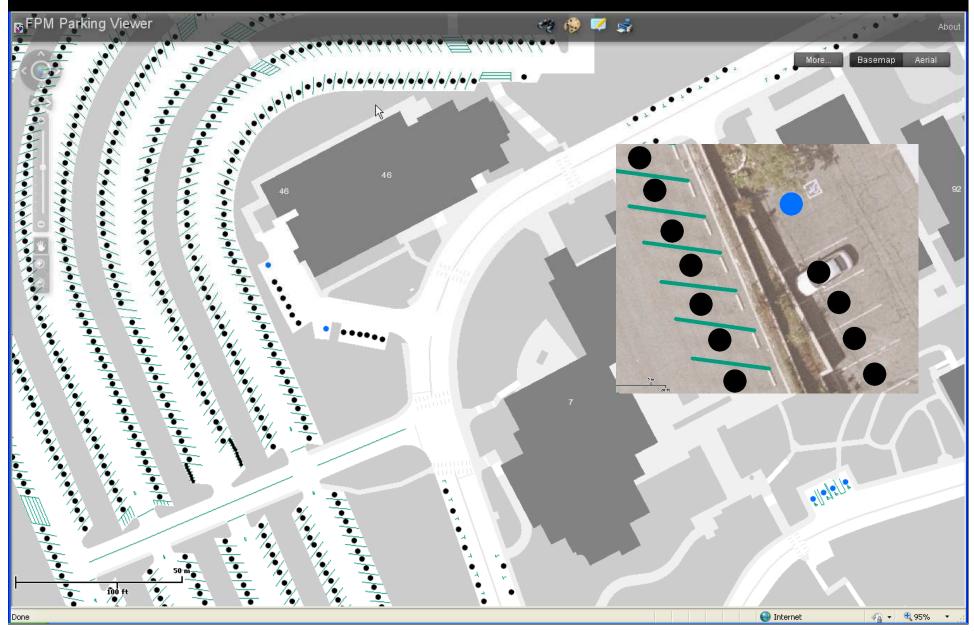
## PRETTY WORK



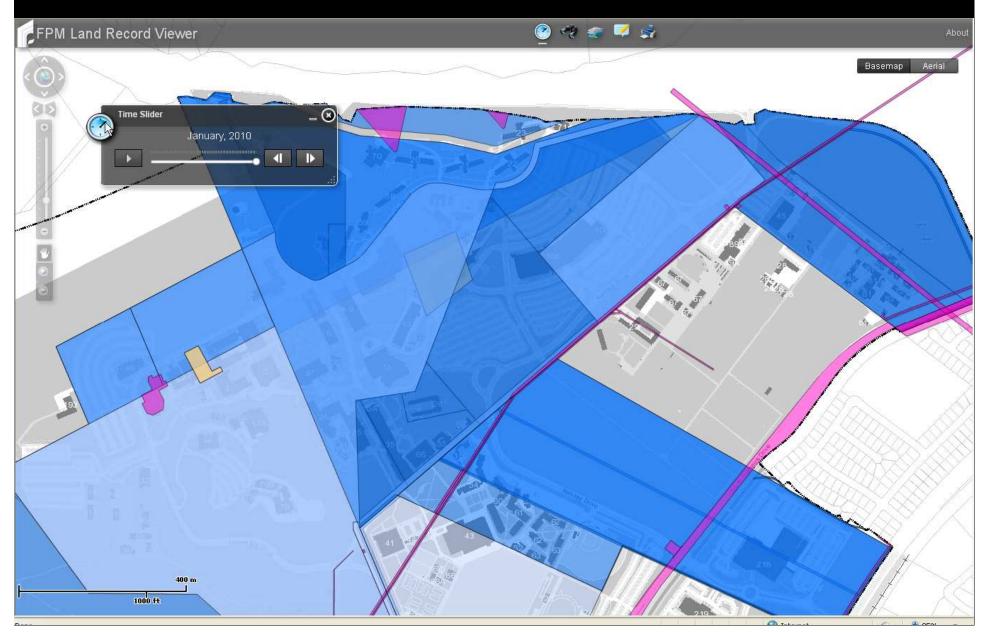
### WORK WORK



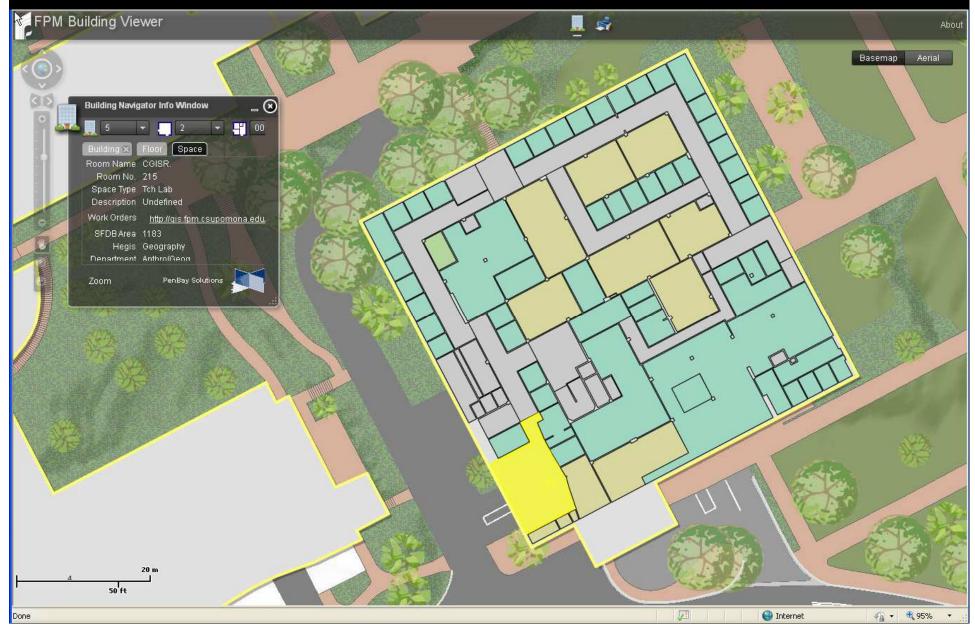
### **PARKING WORK**



### LEGAL WORK

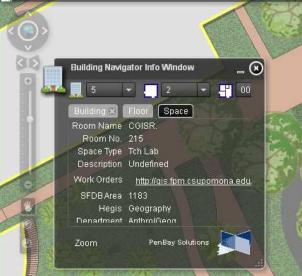


### HOW DO BUILDINGS WORK



### HOW DO BUILDINGS WORK

FPM Building Viewer



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#### Aerial GIS TMA Interface Space Report 005-0215 SFDB Open Work Orders Work Orders History Equipment **Closed Work Orders** <u>wo</u> **Date** Closed Request Number 01-11050 2/10/2001 3/15/2001 TOO COLD IN OFFICE HEATER UNIT NOT WORKING (PAGED PETE TMM) 01-12020 3/6/2001 4/30/2001 PM DX Units (Trimester) UNLCOK DOOR. ELECTRONIC ACCESS NOT WORKING (CALL TO BECKY ON 01-13024 3/22/2001 4/10/2001 3/21 ATTN PAUL TMM) 82 DEGREE IN RM. PLEASE ADJUST HEAT TEMPERATURE, TOO HOT, PAGED 01-13751 4/11/2001 4/27/2001 PETE GARCIA. (M.S.) 01-14104 4/12/2001 4/27/2001 A/C UNIT WENT OFF (PAGED PETE TMM) THE A/C IS OFF AGAIN AT UNIT IN ROOM. ROOM TEMP IS 73' (NO PAGE DUE 01-14149 4/12/2001 4/30/2001 TO TIME OF DAY (TMM) 04/18 A/C UNIT NOT WORKING (PHONE PAGED PETE) 01-14412 4/19/2001 5/3/2001 COMPUTER LAB IS VERY COLD (PHONE PAGED PATE TMM) 01-14487 4/23/2001 5/7/2001 HIGH PITCHED NOISE COMING FROM A/C UNIT PAGED PETE (BOA) 01-16274 6/6/2001 6/18/2001 PM DX Units (Trimester) THE A/C UNIT IN ROOM IS LOCATED AND MOUNTED ON TOP OF ROOM, TOO 01-16406 6/1/2001 6/29/2001 HOT. PLEASE ADJUST TEMPERATURE. 1 2 3 4 5 >

50 ft

Done

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About

#### HOW DO WE KEEP THIS WORKING

Step one is to identify all of the GIS change agents:Changed all the terms and conditions for contractor deliverables

•Changed what we ask for in civil surveys

•Integrated our campus work order management system

•Integrated the CSU SFDB (Space and Facilities Database)

•Gave the trades tools to update and correct attributes and features

•Integrated Arbor Pro and the Project Management System

•Instituted the Reliability Index (better data as you work)

#### **ALWAYS WORKING**

**Boykin Witherspoon III** 

### Thank You