



**UNIVERSITY OF HOUSTON  
Campus Facilities Planning Committee  
Request for Project Approval Form**

1. **Project Number**
2. **Project Name** **Campus Utility  
Expansion**
3. **Committee Date** **April 10, 2009**
4. **Requesting Department** **Plant Operations**
5. **Contact Name & Phone Number** **Dave Irvin, x2-5579**
6. **Presenter:** **Dave Irvin**
7. **Description of Request**

This item requests site approval for an expansion of the Central Plant footprint needed to house additional equipment providing increased utility to the campus.

**Project Description**

The central plant will be expanded into parking lot 19F to the west by approximately 85 feet, adding approximately 10,000 GSF to the building.

Modification of the current plant equipment includes replacement of existing outdated chiller with 3 new 2500 Ton chillers; replacement of cooling towers 1-4 and addition of a cooling tower cell; replacement and modification of existing boilers to low pollution models; electrical equipment replacement; and associated utility modifications and improvements to support the new/ modified equipment.

Because of the increased chilled water production the project includes new chilled water piping and connections thru a tunnel into the campus chilled water system.

The project also replaces the existing screen wall surrounding existing equipment with a new screen wall with materials more similar to other campus buildings.

Project funding will come from CRDM. It will take almost all deferred maintenance funding from FY2008 thru FY2014.

**Background Information:**

This project is critical for Tier One and Campus expansion and has a number of goals.

- 1) Existing equipment in the Central Plant is past its manufacturer recommended life, is increasingly expensive to maintain and repair and must be replaced.
- 2) Because it is older equipment our current plant is energy inefficient and not as clean as new state of the art technology—a major problem in an air quality non attainment zone like Houston. The Federal Government and EPA have mandated that we replace existing equipment with new lower polluting equipment as part of the mandates to force Houston to meet clean air requirements. If we do not do so we will face increasingly higher fines.
- 3) With the increased efficiency we will reduce energy usage by 3-4%, save significant money and reduce the University’s carbon footprint dramatically.
- 4) Finally this project will increase the Central Plant capacity to serve the future buildings needed to support the Framework Plan and house Tier One Research, increased on campus housing, additional instructional and student support space. Without this project we will not have cooling capacity for any new projects including Freshmen housing, Bauer 3, Fleming addition and Engineering Student Services Building.

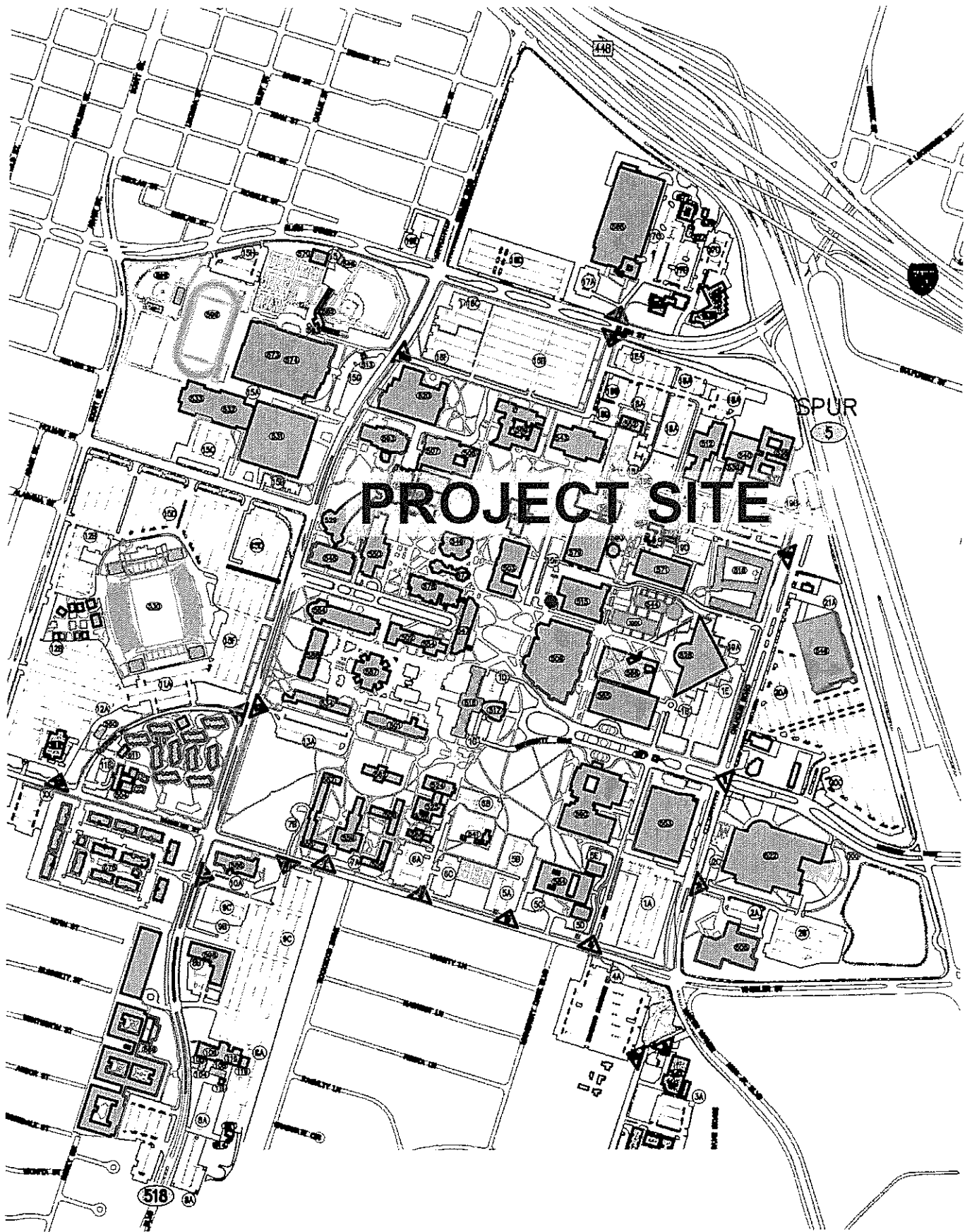
<b>8.</b>	<b>Cost of Project</b>	<b>\$45,000,000</b>
<b>9.</b>	<b>Source of Funding:</b>	<b>CRDM/Deferred Maintenance</b>
<b>10.</b>	<b>Proposed Start Date:</b>	<b>Upon BOR approval (April 2009)</b>

Date: \_\_\_\_\_

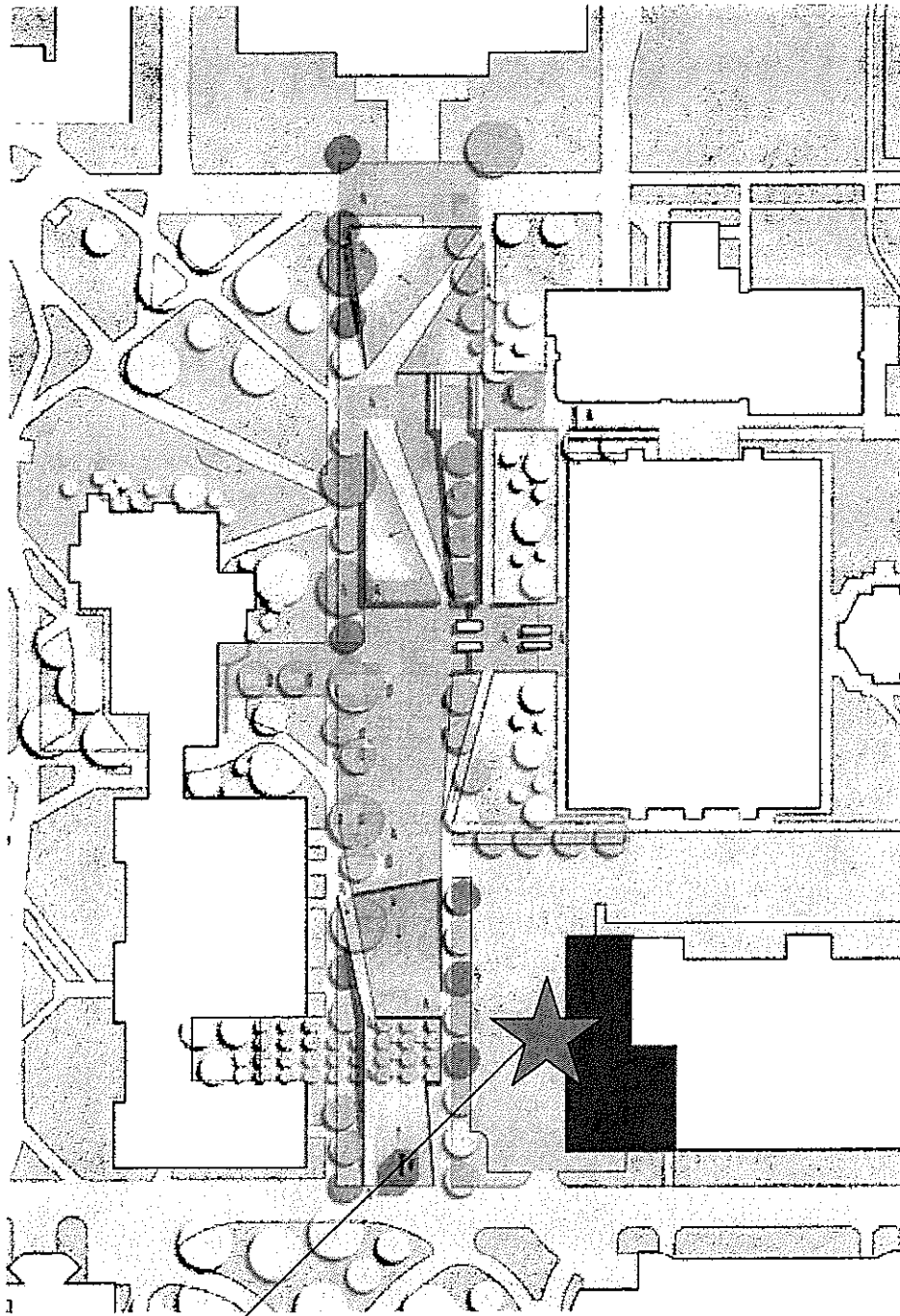
Dave Irvin  
Associate Vice Chancellor/Associate Vice President  
Plant Operations

Attachments:

Project location plan  
Framework Precinct Plan



**LOCATION PLAN**



**Project Site**

**FRAMEWORK PLAN PRECINCT LOCATION**

F&A – 3.1.5