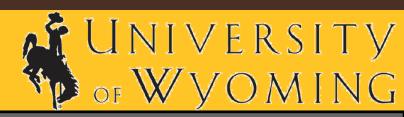
WEST CAMPUS ENERGY PLANT GLHN Architects & Engineers, Inc.



## WEST CAMPUS SATELLITE ENERGY PLANT EXTERIOR



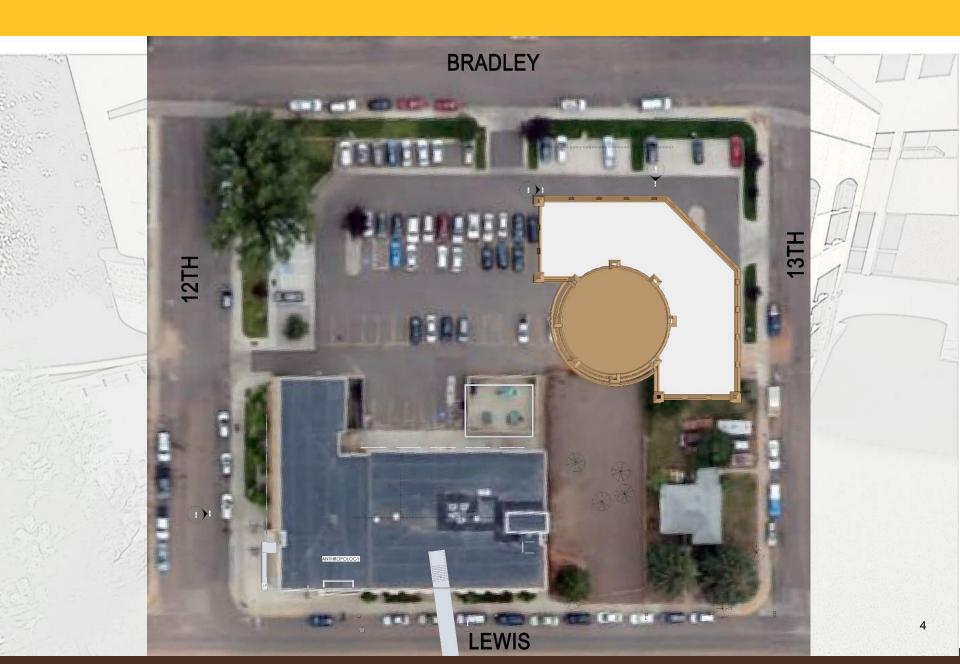
## GUIDING PRINCIPLES

**ENERGY EFFICIENCY** RELIABILITY **UTILITY COST SAVINGS FUTURE CAPACITY** CONSISTENT WITH CAMPUS PLANS LONG RANGE DEVELOPMENT PLAN HISTORIC PLAN UTILITY MASTER PLAN BEST VALUE FOR THE CITIZENS OF WYOMING

## CRITICAL ISSUES AT HAND

- MEETING NEEDS OF THE NEAR TERM FUTURE BUILDINGS
  - ENGINEERING EDUCATION AND RESEARCH BUILDING (HOT WATER/CHILLED WATER)
  - SCIENCE INITIATIVE (HOT WATER/CHILLED WATER)-APRIL 2021
- MEET LONG TERM CAMPUS HEATING AND COOLING NEEDS
  - LRDP/UMP ESTIMATE 1-3% GROWTH PER YEAR
  - EXCEEDING CURRENT CAPACITY
  - EFFICIENT EQUIPMENT OPERATION
  - SECURING LONG TERM HEATING FUEL SOURCES (COAL/GAS)
- AGING INFRASTRUCTURE

## LOCATION-NORTHEAST OF ANTHROPOLOGY



# NE CORNER FROM BRADLEY AND 13<sup>TH</sup>



## NW CORNER FROM BRADLEY



## SE CORNER FROM LEWIS AND 13<sup>TH</sup>



# WEST FAÇADE FROM 12<sup>TH</sup>



# WEST CAMPUS SATELLITE ENERGY PLANT- IMPACT ON PLANNED CAMPUS GREENSPACE



CONSTRUCTION WILL ELIMINATE 5,000 SQUARE FEET OF GREENSPACE FORESEEN IN LRDP

## COST IMPLICATIONS OF EDAC RECOMMENDATION

### CLASSICAL DESIGN AND 20% INCREASE IN PLANT CAPACITY

- PREVIOUSLY PROPOSED CONCEPT CONSTR. COST-\$23.5M
- CONSTRUCTION COST INCREASE FOR 20% UPSIZE AND CLASSICAL ARCHITECTURE-\$5.0M INCLUDES:
  - INCREASED SITE DISTRIBUTION-\$1.4M
  - INCREASED MECH/ELECT CAPACITY-\$900K
  - EXTERIOR WALLS-\$760K (FAÇADE AND GLAZING)
  - > INTERCONNECTION OF PLANT UTILITIES-\$600K
  - > PLANT WING INTERCONNECTION AND STONE TANK FACADE- \$400K
  - > INTERCONNECTION OF BASEMENT STRUCTURES-\$400K
  - MAJOR DESIGN CHANGES (SITE LOCATION AND BUILDING TYPE) WILL REQUIRE ADDITIONAL DESIGN PERIOD SCHEDULE OF UP TO 5 MONTHS AND INCREASED DESIGN FEES OF UP TO \$500K



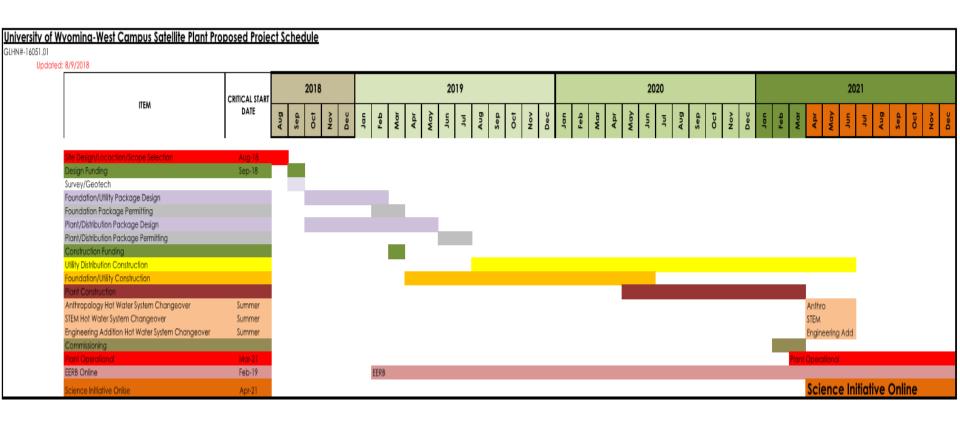




# UW ACTION ITEMS/SCHEDULE

#### WHAT IS NEEDED TO MOVE FORWARD?

- FINAL CONCEPT DESIGN
- FINAL LOCATION SELECTION
- FINAL SCOPE SELECTION
- PROJECT FUNDING



### SITE AERIALS-UNIVERSITY OF WYOMING WEST CAMPUS



# MOVING FORWARD

### **END OF PRESENTATION**