

# *LEADING THE WAY* **CampusEnergy**2022

Feb. 15-18 | Westin Boston Seaport District Hotel | Boston, Mass.





# Abbott Power Plant New Clarifier

Jacob Price, PE, PRVN Consultants, Inc.

LEADING THE WAY  
**CampusEnergy2022**

Feb.15-18 Westin Boston Seaport District Hotel Boston, MA



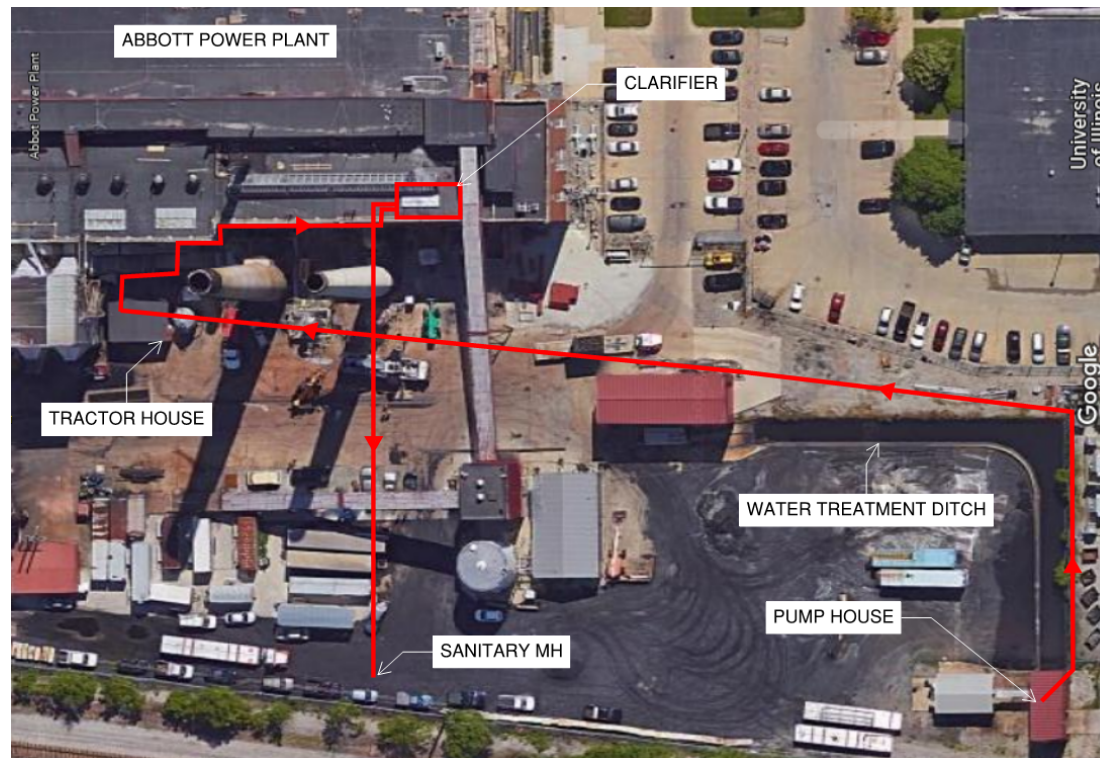
# Abbott Power Plant

- 3 Natural Gas Boilers
- 3 Coal Boilers
- 2 Combustion Turbines with HRSG's
- 10 Steam Turbines
- Feeds 150 and 50 psig steam to campus





# Existing Pretreatment System



LEADING THE WAY  
**CampusEnergy2022**

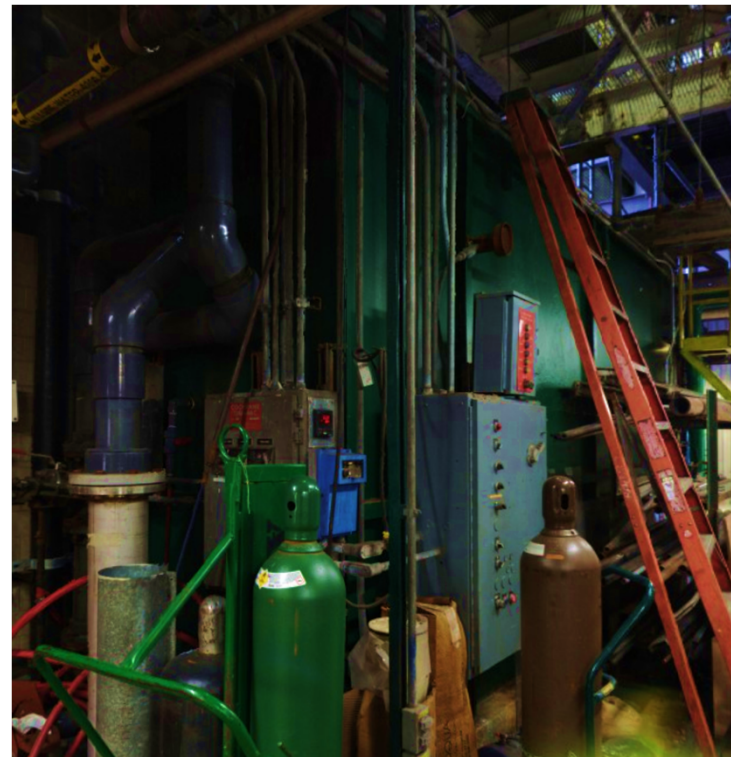
Feb.15-18 | Westin Boston Seaport District Hotel | Boston, MA

 INTERNATIONAL  
DISTRICT ENERGY  
ASSOCIATION

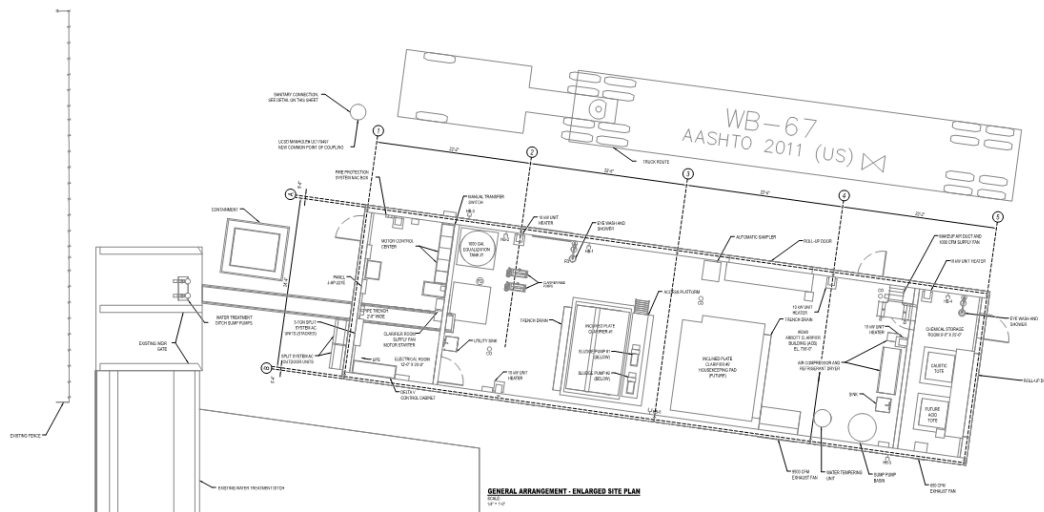


# Existing System Limitations

- Flow limitations
- Clarifier past useful lifespan
- Spread throughout the plant property
- New iEPA Compliance Regulations



# New Pretreatment Facility



LEADING THE WAY  
**CampusEnergy2022**

Feb.15-18 | Westin Boston Seaport District Hotel | Boston, MA

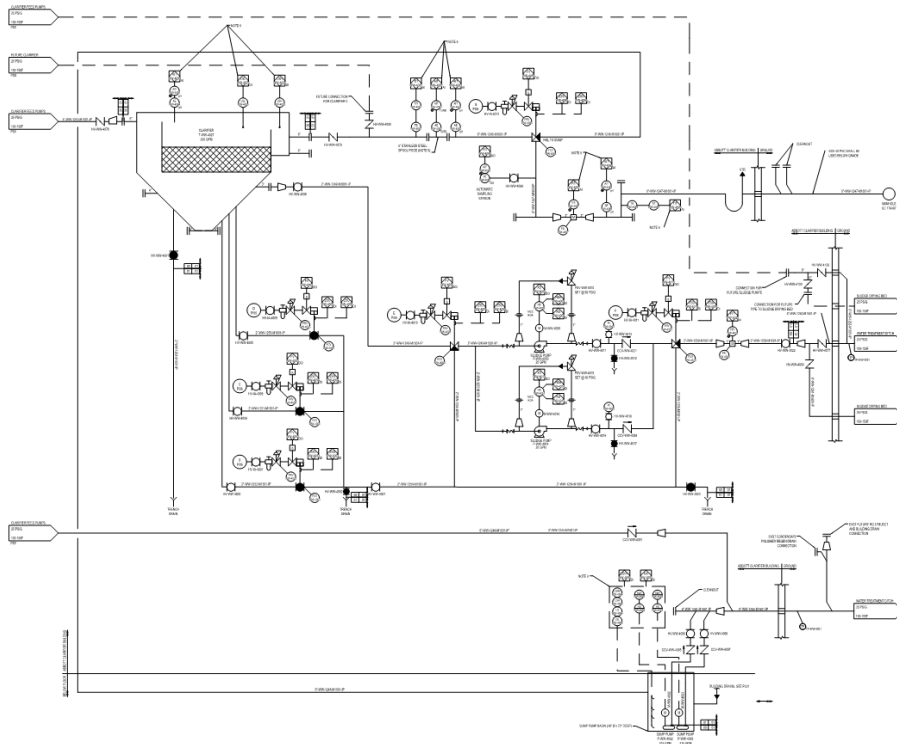
# New Clarifier

- Long Box Clarifier
- 200 GPM wastewater outlet/inlet
- 30 GPM sludge cycle





# Compliance Upgrades



**LEADING THE WAY**  
**CampusEnergy2022**

Feb.15-18 Westin Boston Seaport District Hotel Boston, MA



 **INTERNATIONAL  
DISTRICT ENERGY  
ASSOCIATION**

# Capacity Increase

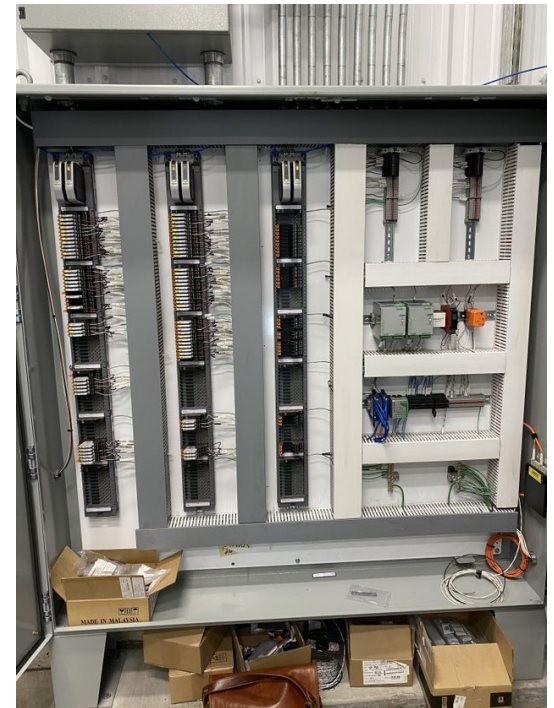


LEADING THE WAY  
**CampusEnergy2022**

Feb.15-18 Westin Boston Seaport District Hotel Boston, MA

 INTERNATIONAL  
DISTRICT ENERGY  
ASSOCIATION

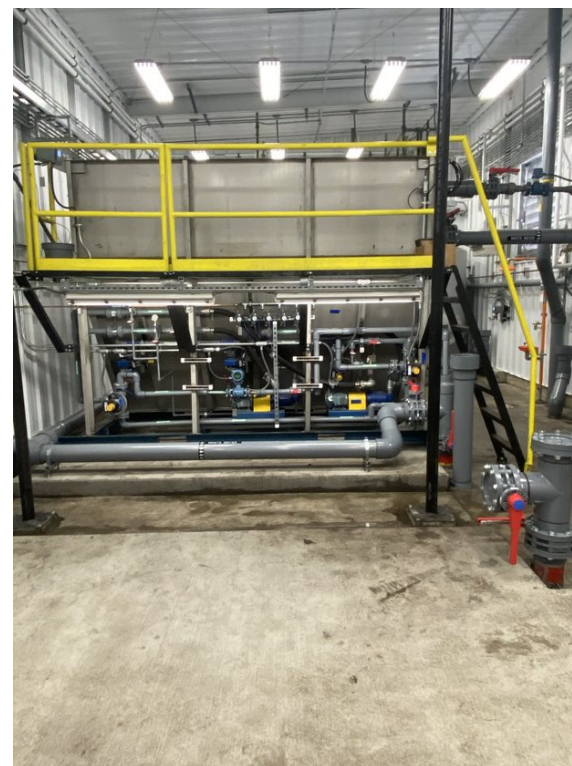
# Electrical and Controls





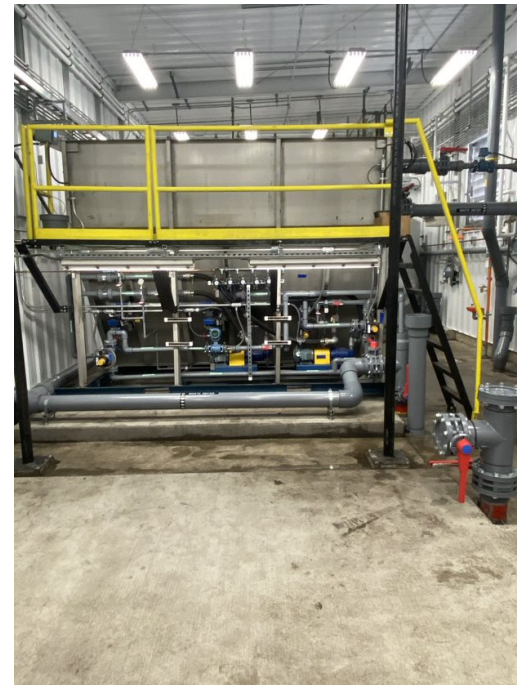
# Future Capacity

- Pad for future clarifier
- Piping sized to accommodate future new clarifier
- Spare capacity in auxiliary, electrical, and controls systems



# Lessons Learned

- Complicated contract structure
- Permitting
- Keep the team involved and informed



# Questions



LEADING THE WAY  
**CampusEnergy2022**

Feb.15-18 | Westin Boston Seaport District Hotel | Boston, MA

 INTERNATIONAL  
DISTRICT ENERGY  
ASSOCIATION



# Thank You

**Jacob Price, PE**



**Michael K. Brewer, PE**  
**Unable to attend**

