

A FEW WORDS

ABOUT THE TEAM



Holly Lennihan

Director of Sustainable Design, Senior Associate

Hickok Cole Architects



Roger Frechette
Managing Principal
Interface Engineering

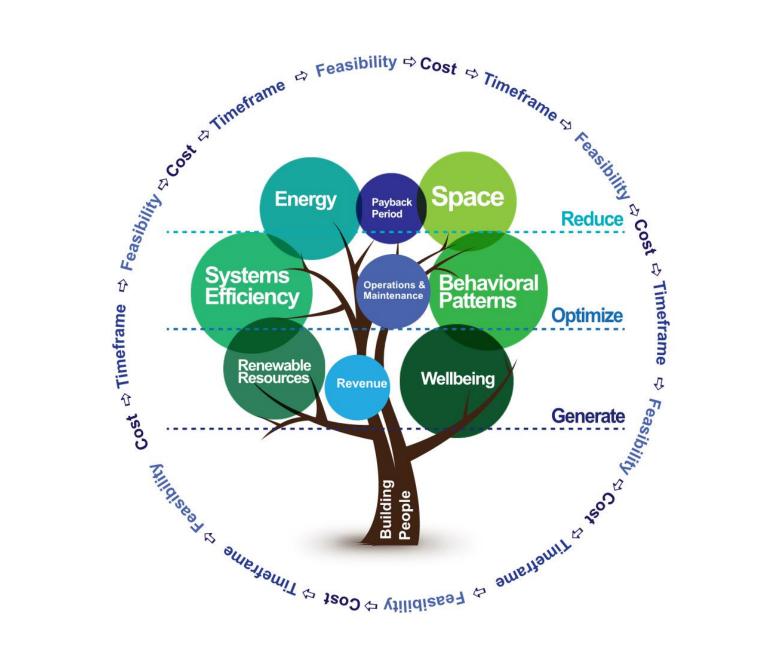




PROJECT

GOALS

- Develop a workplace environment that is state of the art
- Consistent, flexible and adaptable 21st century work environment
- Work environment that makes it easy to collaborate with our members and other partners/ vendors
- Showcase the contributions of Earth and space science
- Push the limits of the building performance in terms of energy, water, the work environment; Net Zero
- Raise the visibility of AGU through this project



EXISTING BUILDING





LOOKING WEST ON FLORIDA AVENUE



LOOKING NORTH UP 20TH STREET



CORNER OF 20TH STREET AND FLORIDA AVENUE



LOOKING EAST ON FLORIDA AVENUE

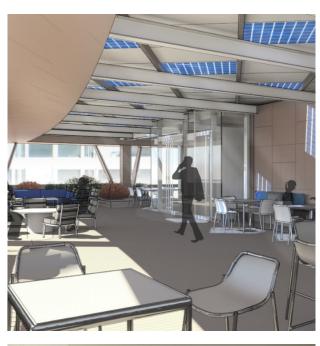


THE A & E

- 1. Radiant Ceiling Grid & DC lights
- 2. The Hy-Phy Wall and Biophilia
- 3. PV Array as Amenity on the Roof
- 4. Transparency and Openness









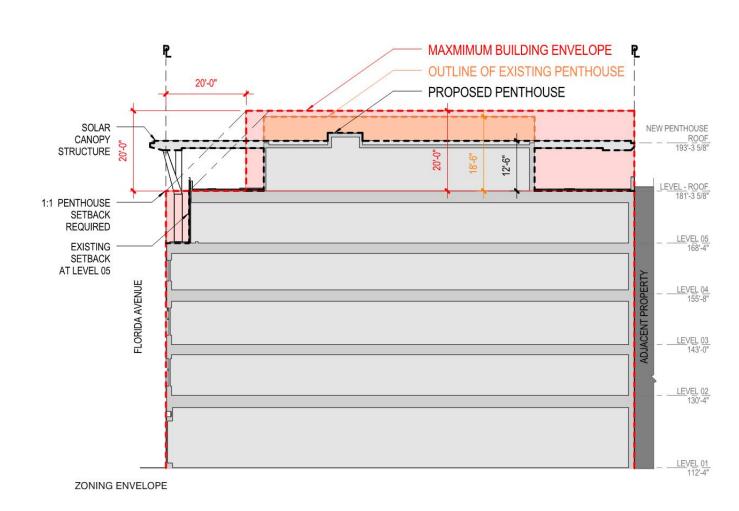
JURISDICTIONAL

CHALLENGES & APPROVALS

COMMUNITY ENGAGEMENT

- ZP&D COMMITTEE OF THE ANC (2/25)
- DUPONT CIRCLE CONSERVANCY (3/08)
- DUPONT CIRCLE CITIZENS ASSOCIATION (3/16)
- COMMUNITY MEETING AT AGU (3/16)
- HISTORIC PRESERVATION REVIEW BOARD HEARING
- **ZP&D COMMITTEE OF THE ANC** (4/06)
- DUPONT CIRCLE CONSERVANCY (4/12)
- ANC 2B APRIL MEETING (4/13)
- DUPONT CIRCLE CITIZENS ASSOCIATION (5/20)

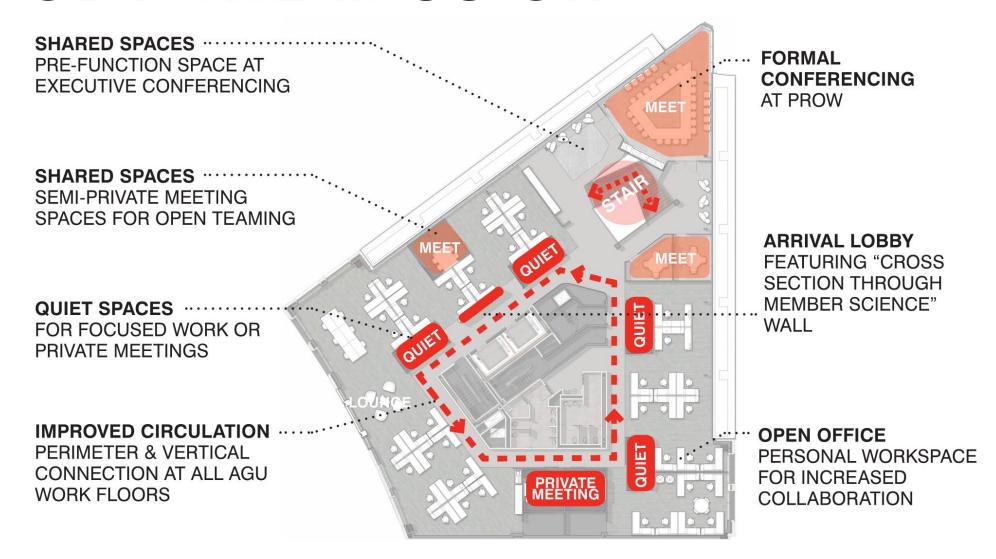
RENOVATION@AGU.ORG



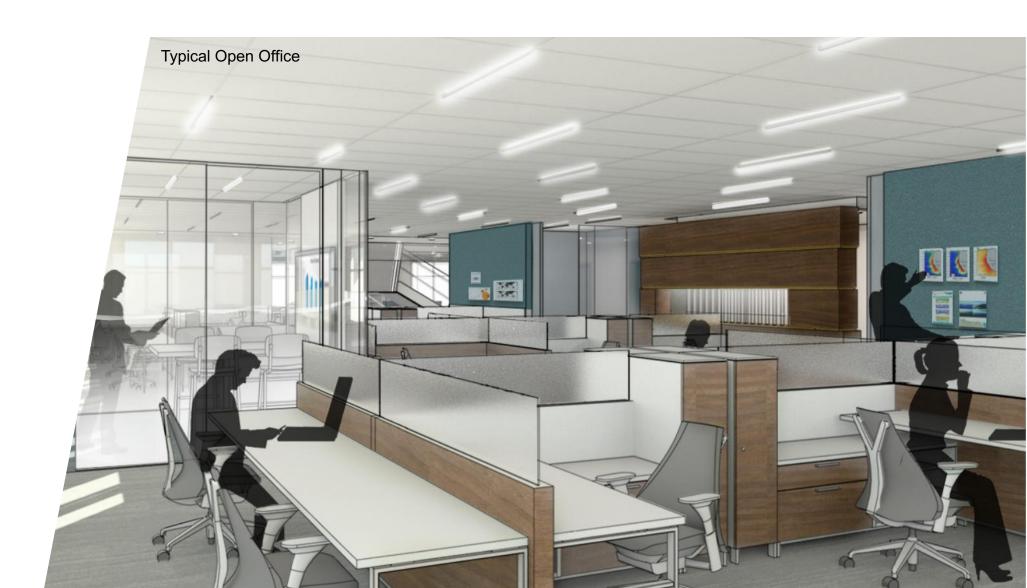


A NEW WAY OF WORKING

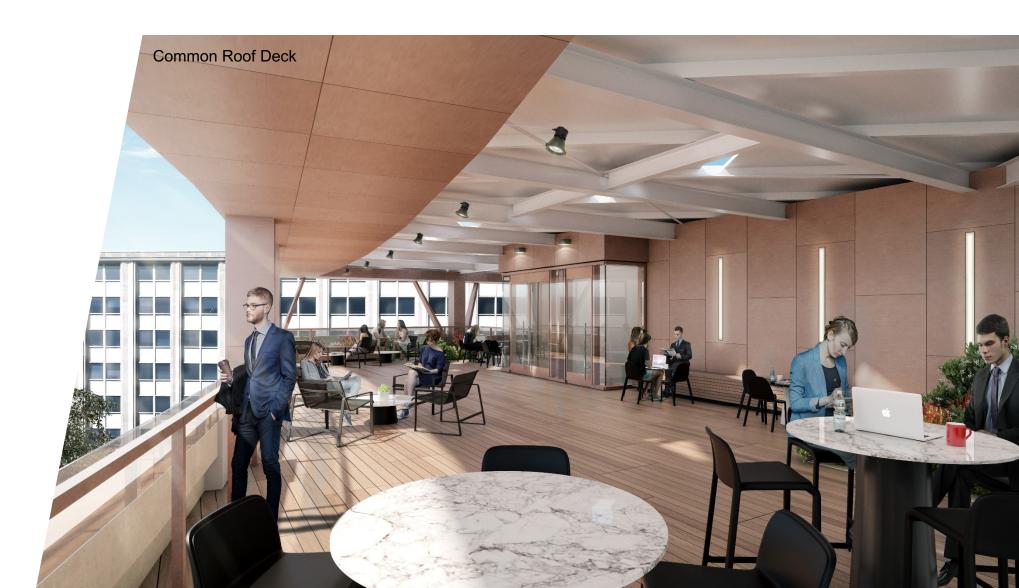
EMBODY THE MISSION



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THINKING ABOUT THE OCCUPANTS

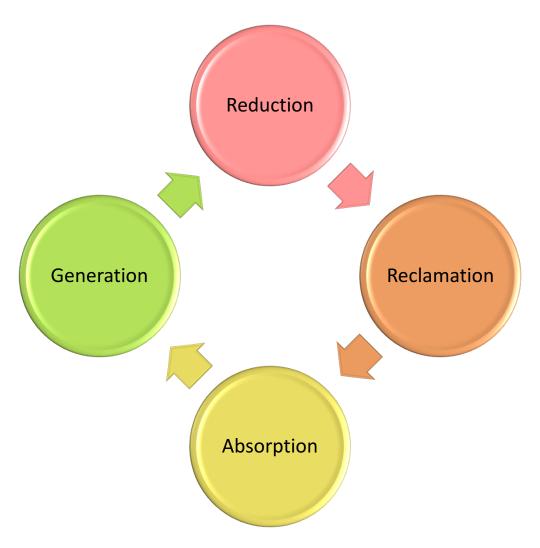
WELLNESS





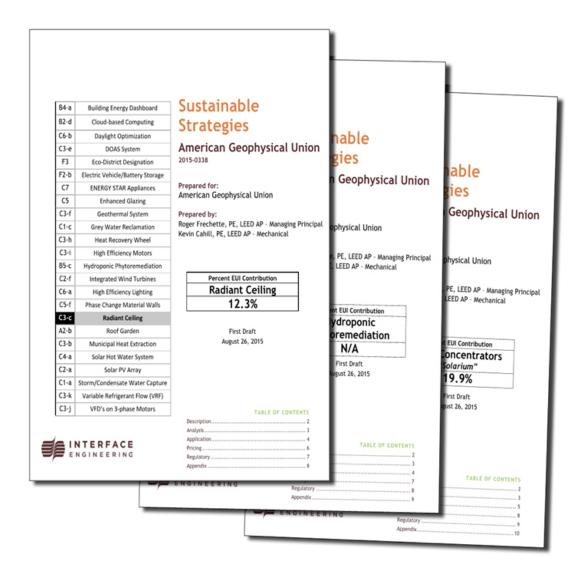
HIGH PERFORMANCE DESIGN

METHODOLOGY



EXPLORING ALL OF THE OPTIONS

PROCESS



HIGH PERFORMANCE DESIGN

STRATEGIES

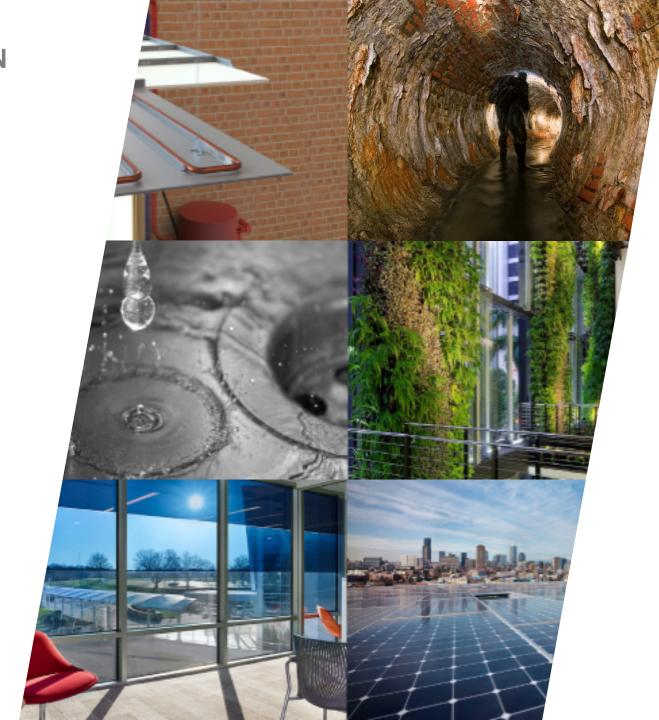
- Solar Photovoltaics (PV)
- Enhanced Envelope Insulation
- Free Cooling Condenser Operation
- DC Powered Workspace
- Direct Current LED Lighting
- Hydroponic Phytoremediation (Hy-Phy)
- Heat Recovery Water Chiller
- Dynamic Glass Shading
- Triple-Pane Glazing
- Dedicated Outside Air System (DOAS)
- Exhaust Air Heat Recovery
- Rain Water Collection & Reuse
- Daylight Responsive Controls (DRC)
- Dynamic Toilet Room Exhausting
- Variable Frequency Drives
- Radiant Ceiling Cooling System
- Occupancy Sensors & Controls
- Condensate Water Collection & Reuse
- Sewer Heat Exchange System
- Low-Flow Plumbing Fixtures
- Recycled Water Flushing
- Access Control Power Management
- Energy Usage Display Monitors

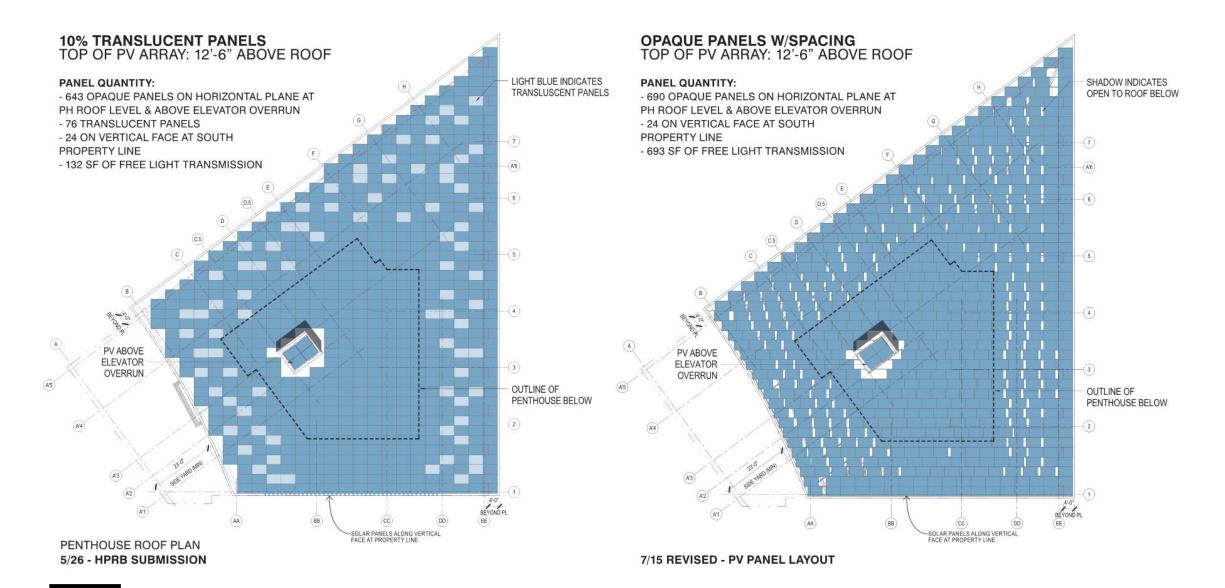


HIGH PERFORMANCE DESIGN

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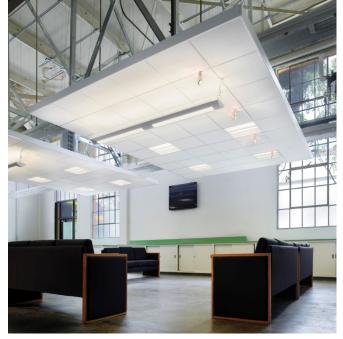




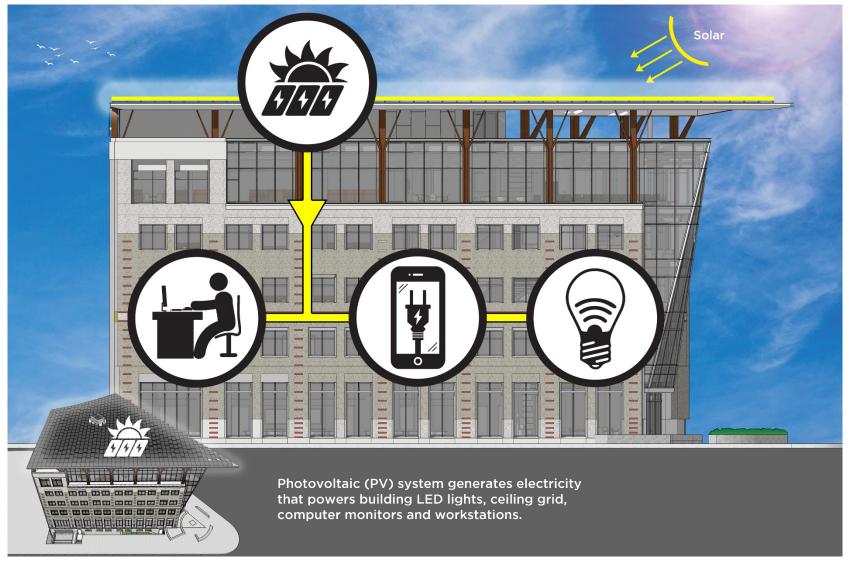
PHOTOVOLTAIC ARRAY AND THE DC GRID



16-Port DC Power Module



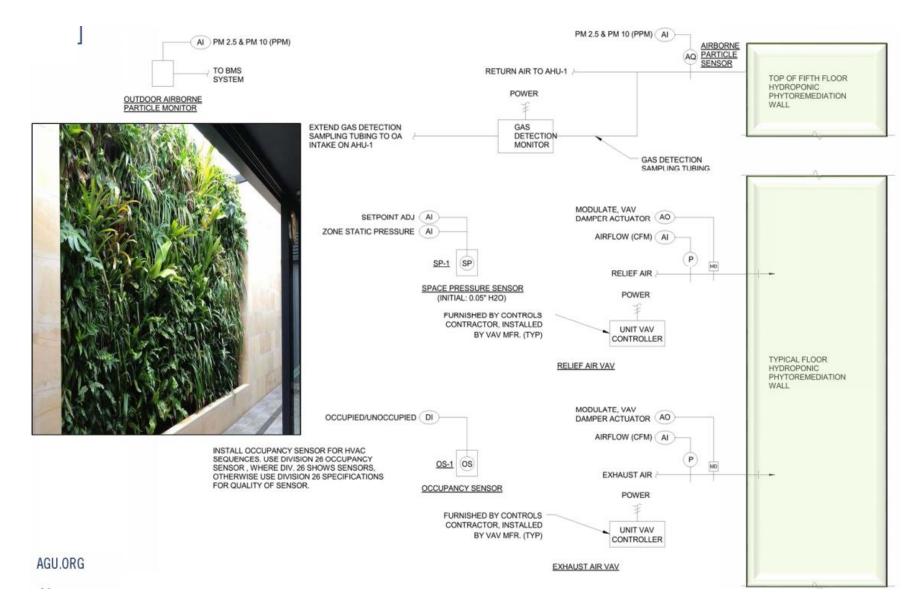
Electrified Ceiling Grid



PHOTOVOLTAIC ARRAY AND THE DC GRID

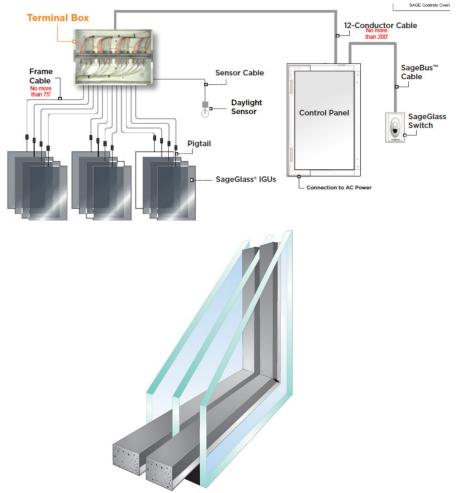


HYDROPONIC PHYTOREMEDIATION 'HY-PHY' WALL

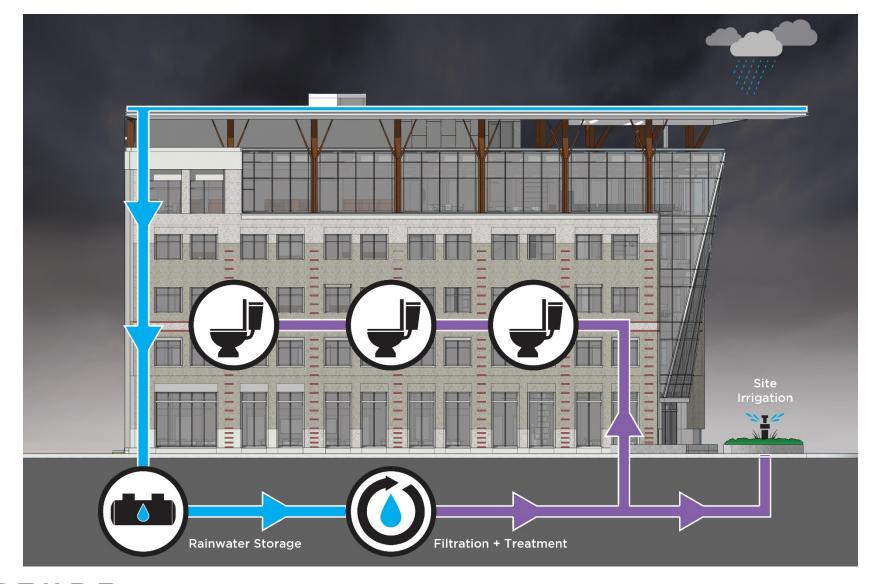


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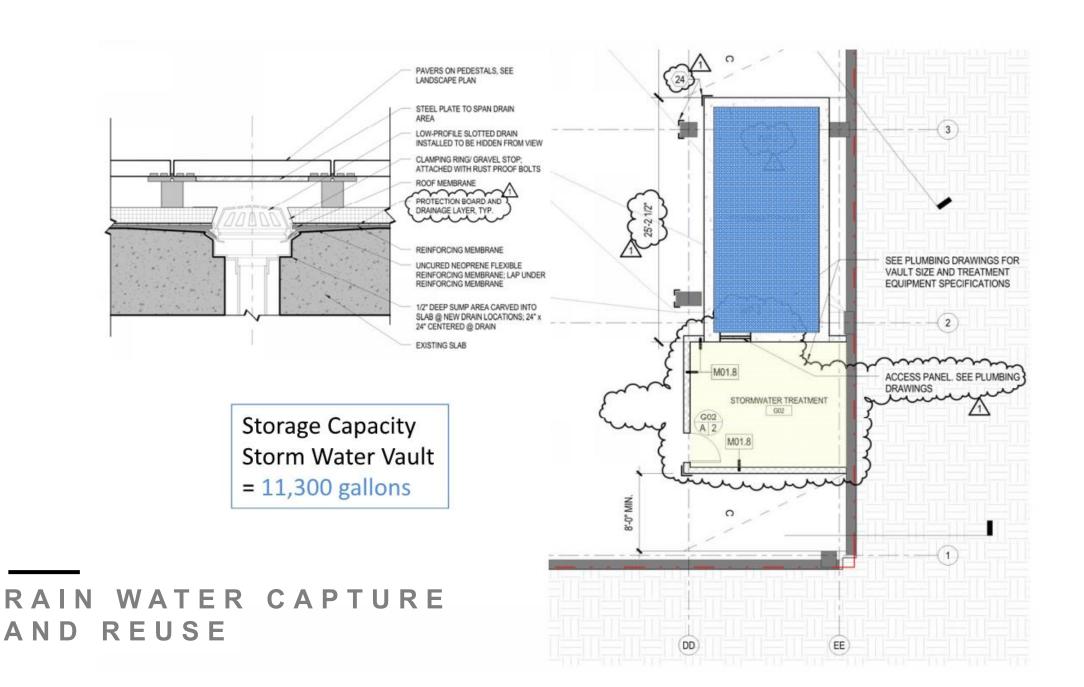


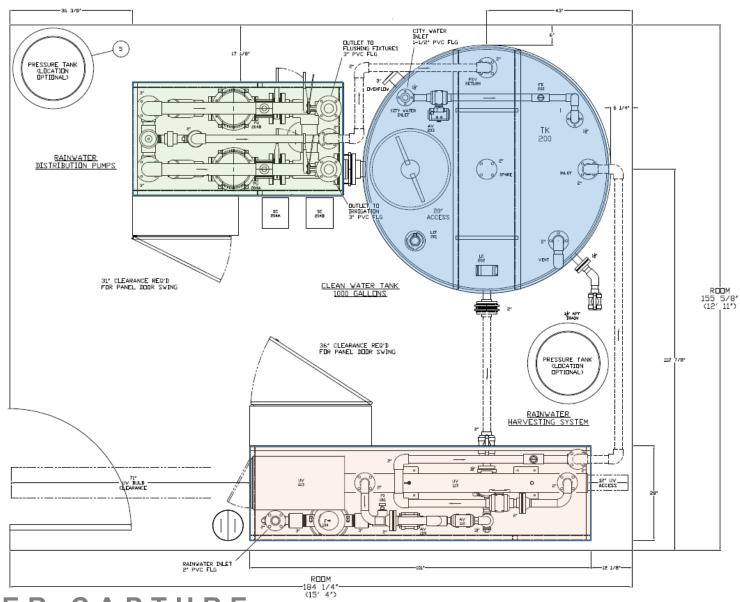


DYNAMIC GLAZING

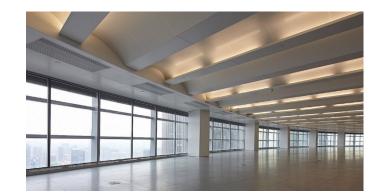


RAIN WATER CAPTURE AND REUSE

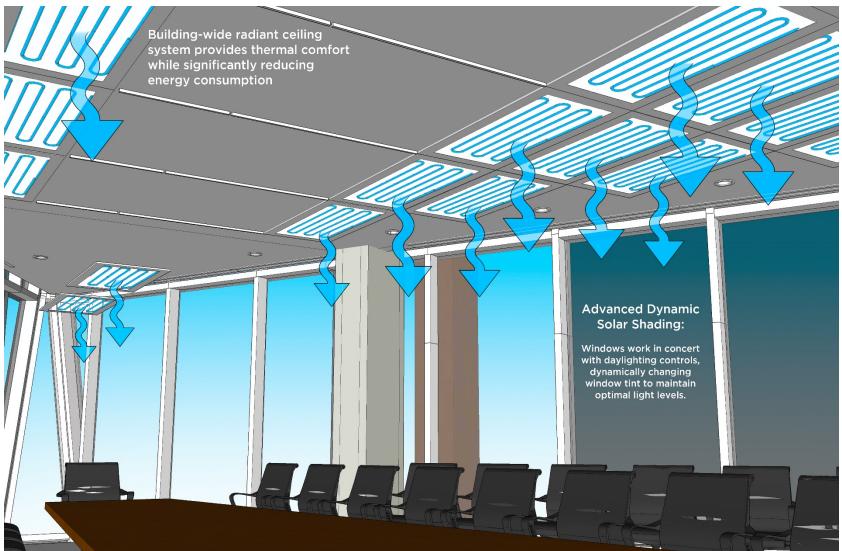




RAIN WATER CAPTURE AND REUSE





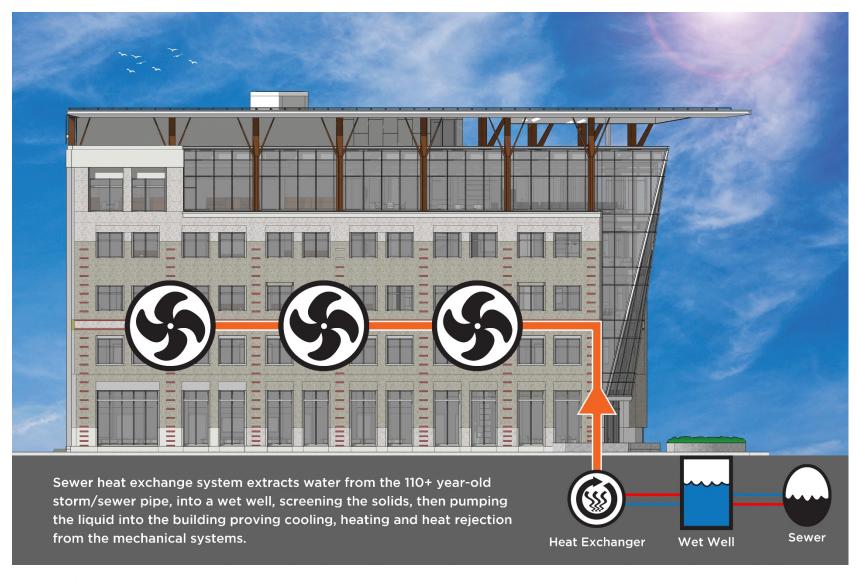


RADIANT CEILING SYSTEM

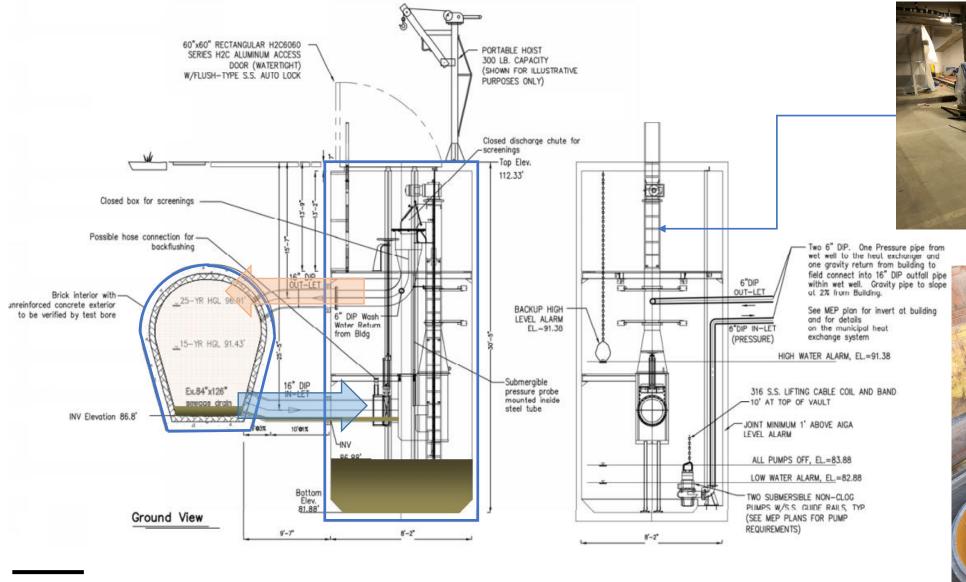


8' x 8' – 150 year old sewer





MUNICIPAL HEAT EXCHANGE

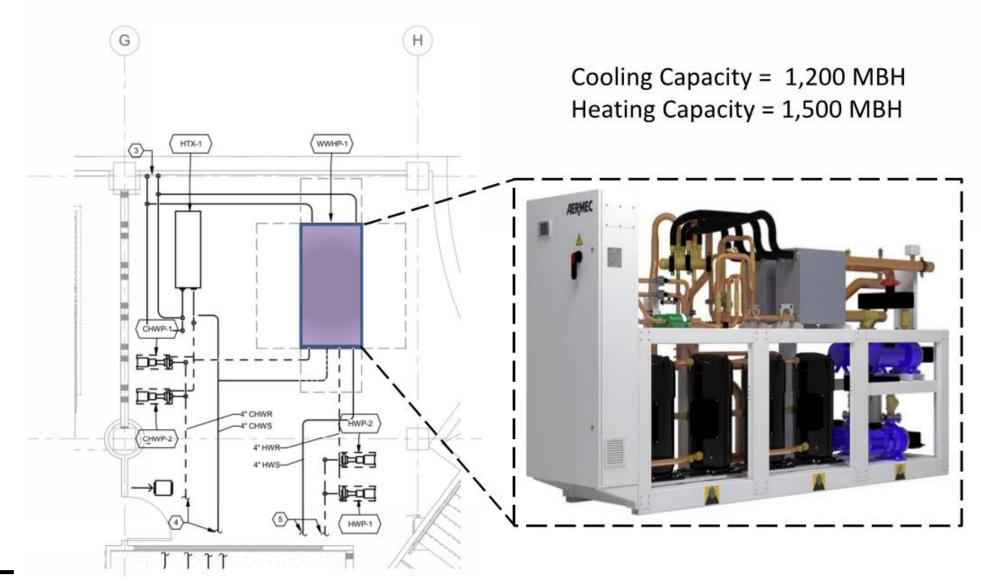






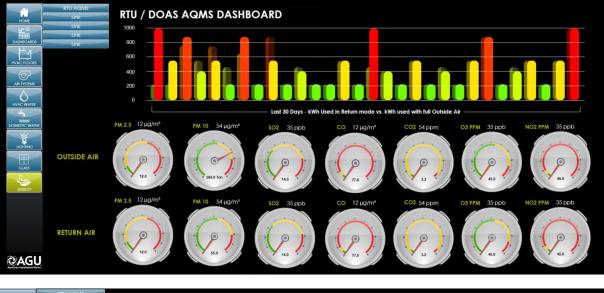
MUNICIPAL HEAT EXCHANGE

Wet Well & Sewer Connection

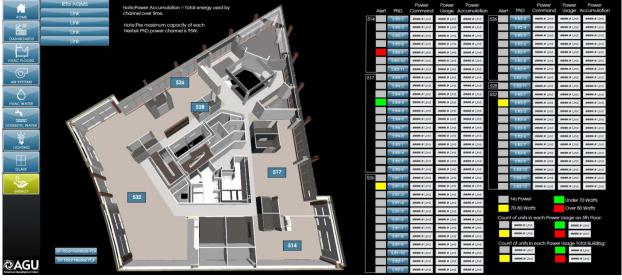


MUNICIPAL HEAT EXCHANGE









INTEGRATED BUILDING TECHNOLOGIES



