



mwa architects



Civic Design Review Phase 1

SEP Biosolids Project

May 15, 2017

Design Objective and Strategies

“CONFLUENCE OF TECHNOLOGY, COMMUNITY, AND ENVIRONMENT”

Objective

- To bring infrastructure, people, and environment together in an integrated urban campus that the community and SFPUC can take pride in.

Strategies

- Practical, efficient structures to house equipment
- Design features highlight functions and processes
- Daylighting operational spaces
- Durable, contemporary palette of materials
- Material colors/textures/patterns for visual interest and neighborhood scale
- Sustainable design and green infrastructure
- Integrated educational features and public art
- Campus vocabulary with consistent visual character

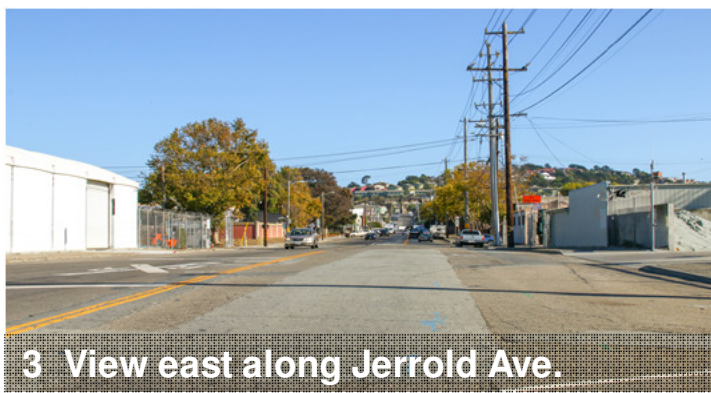
Existing Conditions



1 View from I-280



2 View west along Jerrold Ave.



3 View east along Jerrold Ave.



Southeast
Wastewater
Treatment
Plant

Project Site

Response to CDR Feedback

Buildings:

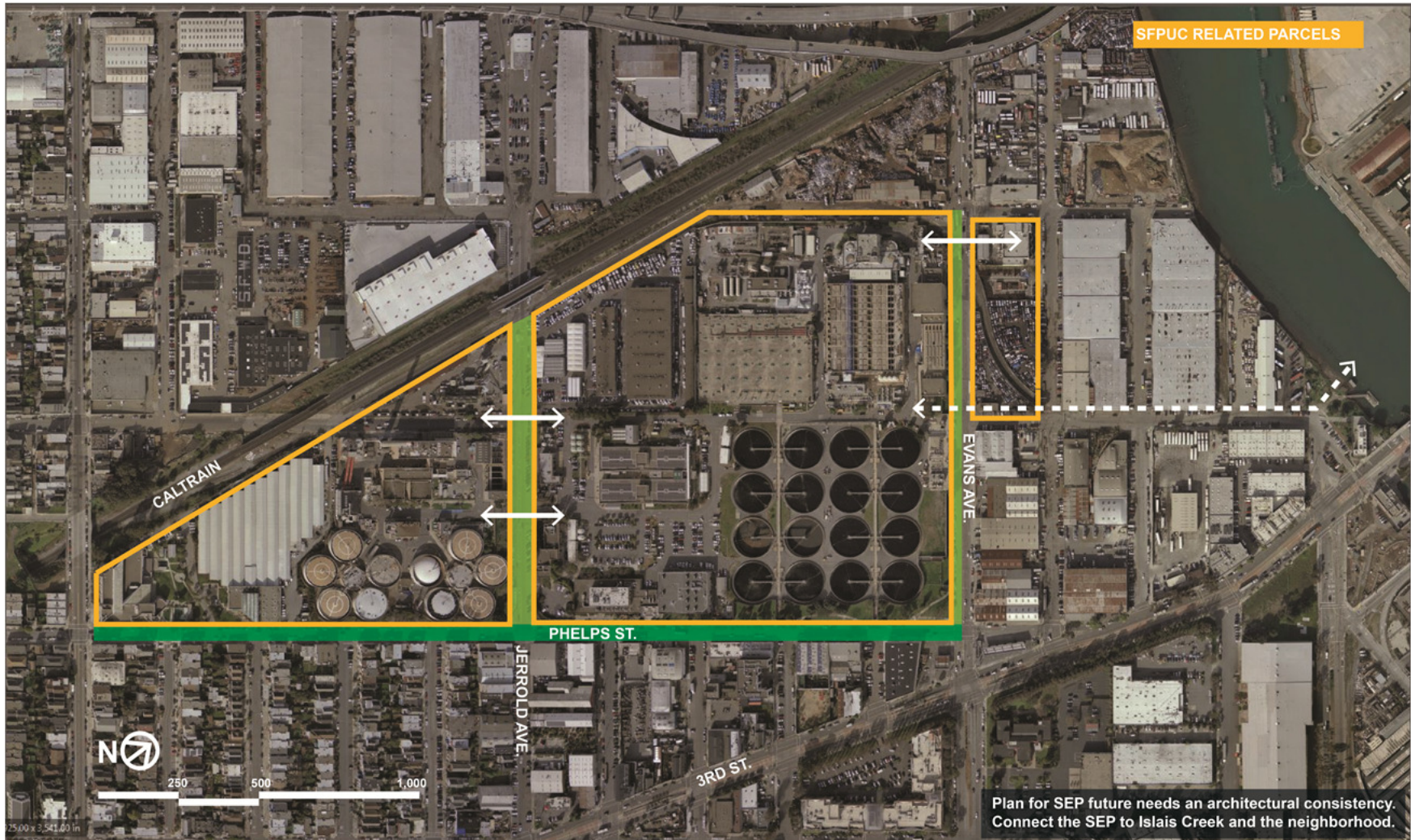
- Integrate the design into a cohesive campus while expressing the unique functions of each building
- Celebrate the honest expression and beauty of an industrial/machine aesthetic
- Simplify design with fewer, more purposeful gestures

Landscape:

- Optimize and reinforce plant employee and walking tour pathways
- Create an area of repose at Building 600 for employees and public
- Reveal narrative of SE Plant functions in the design

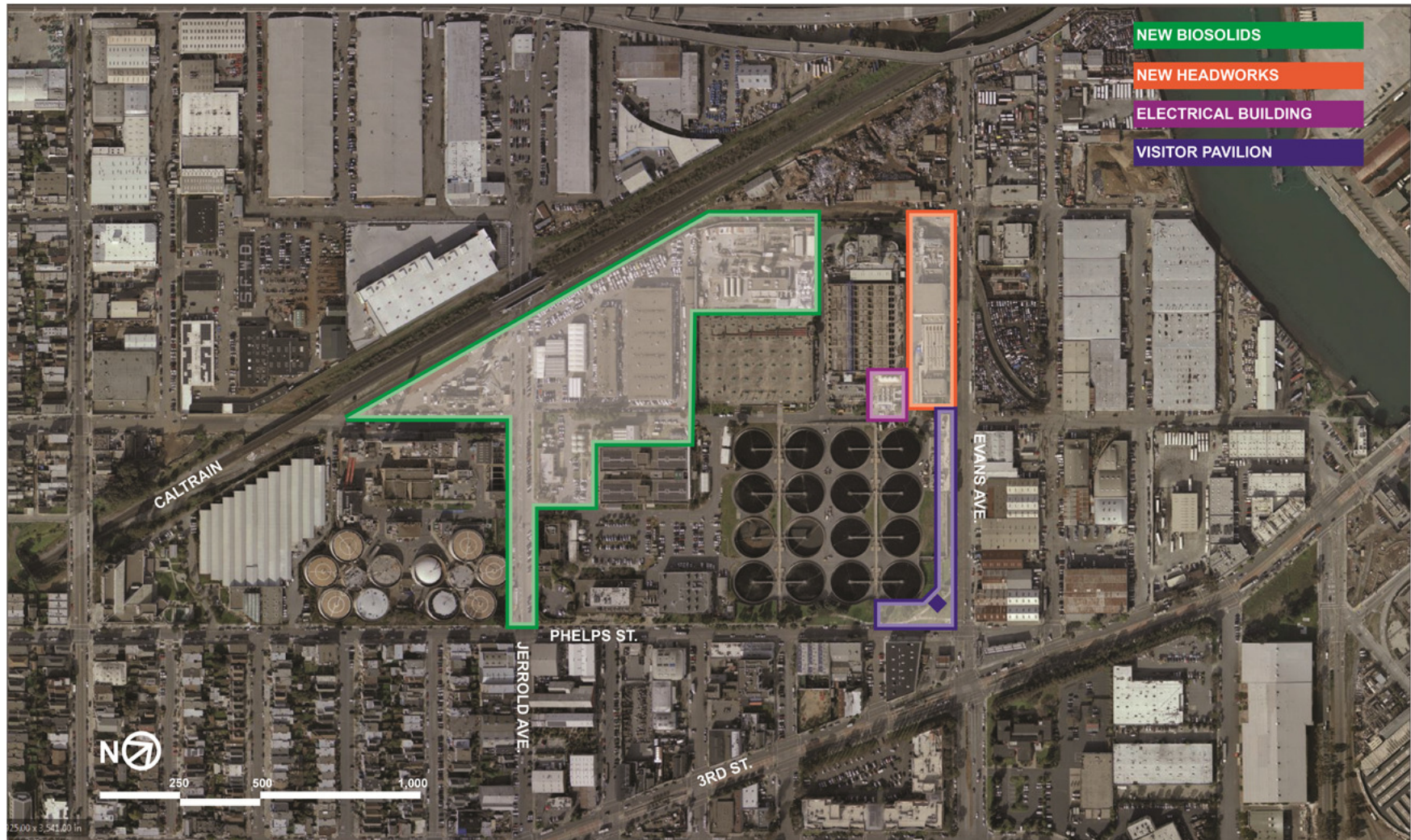
Campus Plan

Consolidate and Connect



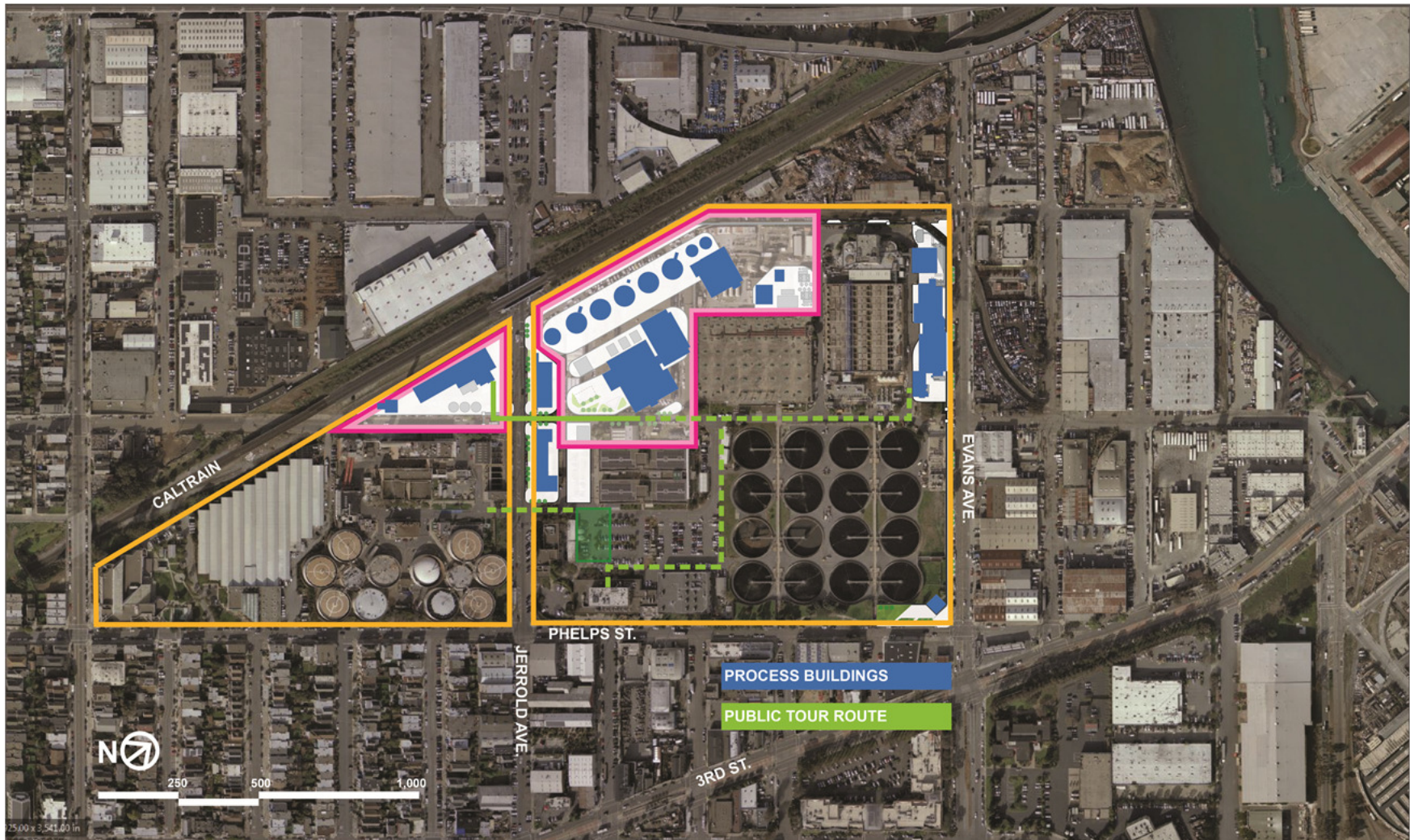
Campus Plan

Phase 1 New Buildings



Interior Campus

Biosolids + Energy Recovery



Green Spine



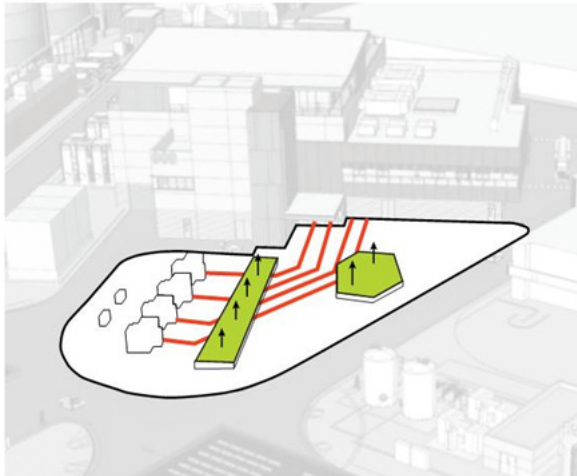
Building 600 Entry Count

Previous Design



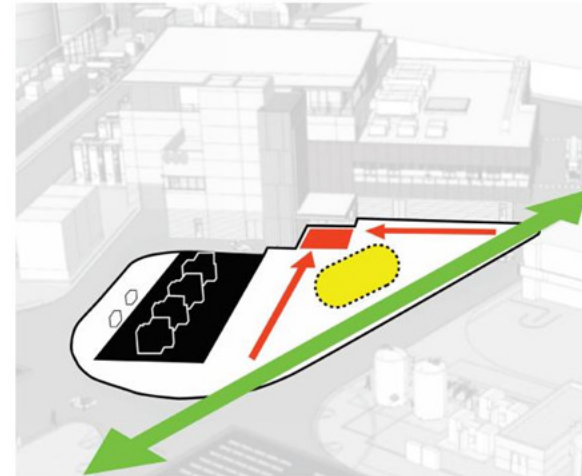
Building 600 Entry Court

Site Opportunities and Constraints



EXTRUDING THE LANDSCAPE

By elevating proposed planting areas we are able to avoid conflicts with the electrical duct banks and other underground utilities. These raised planters begin to give form to the plaza and could serve as buffers from adjacencies while also providing informal seating opportunities.

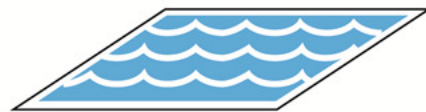
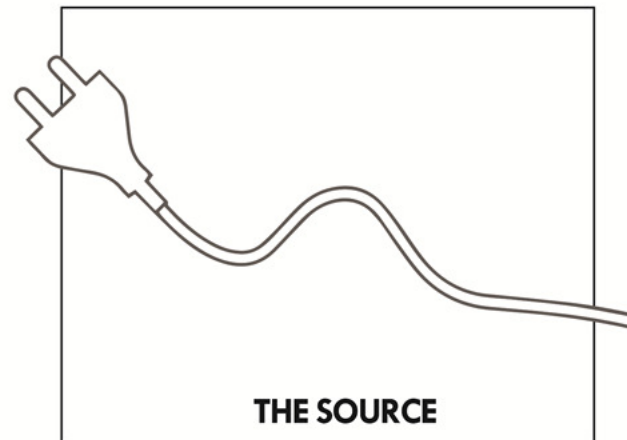


ACCESS + CIRCULATION

A spatial design begins to emerge from the plaza space after we factor in circulation, access points, utility clearances, and site orientation along the green spine. This triangular remnant has spatial constrictions in the corners, but presents a natural gathering space as one approaches the entrance to Building 600.

Building 600 Entry Court

Concept + Program



WATER FEATURE

+



GREEN OASIS

+



GATHERING SPACE

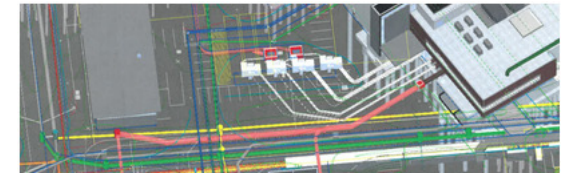
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Visual Palette



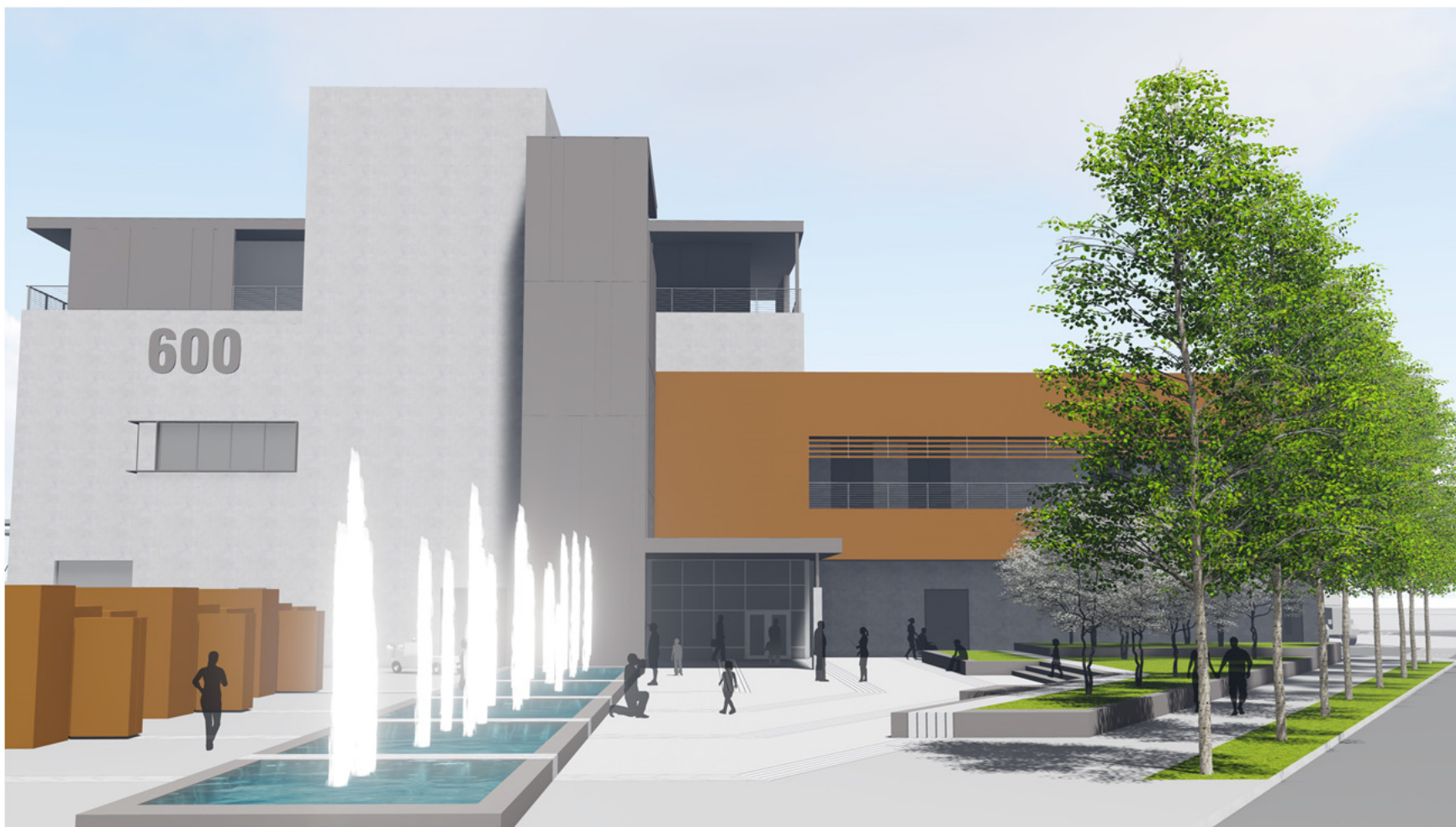
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Conceptual Site Plan – Water Jets



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Entry Court Walk – Water Jets



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View from Building 600 Entrance – Water Jets



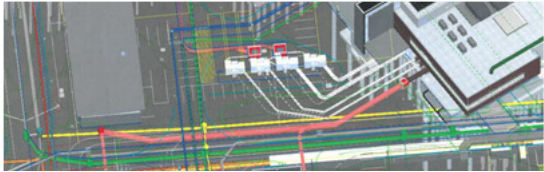
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View from Quint St. – Water Jets



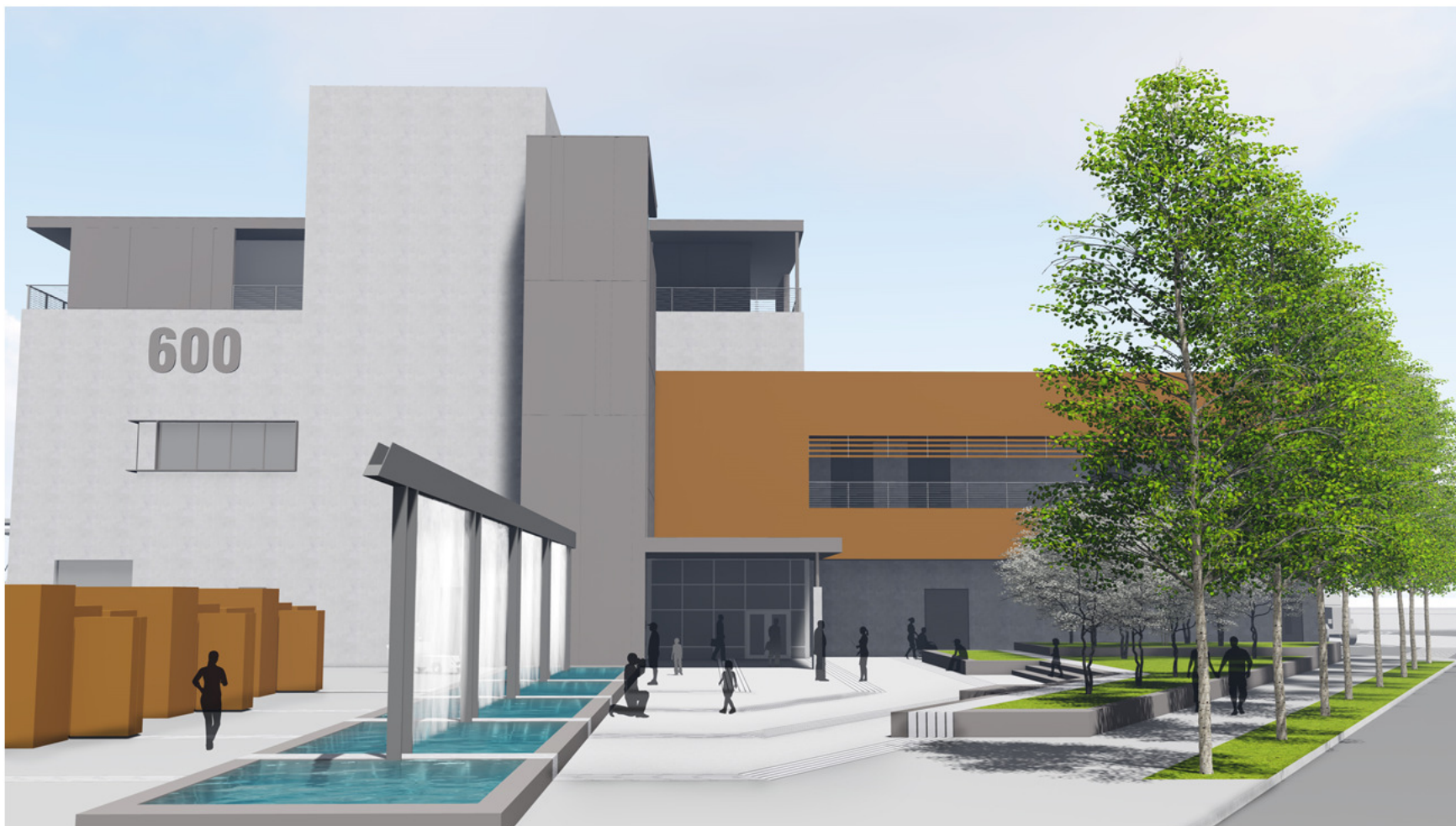
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Conceptual Site Plan – Water Curtain



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Entry Court Walk – Water Curtain



The Source

View from Building 600 Entrance – Water Curtain



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View from Quint St. – Water Curtain



The Source

Entry Court - Planting Palette

QUINT STREET TREES

Italian Alder

Alnus rhombifolia

/

London Plane Tree

Platanus x acerfolia 'Yarwood'

/

Italian Poplar

Populus italic 'nigra'

LARGE SHRUBS / SMALL TREES

Star Magnolia

Magnolia stellate 'Royal Star'

/

Joy Perfume Tree

Michelia champaca

/

Japanese Cherry

Prunus x yedoensis 'Akebono'

SCENTED PALETTE

Mock Orange

Philadelphus lewisii

/

Scented Osmanthus

Osmanthus fragrans (dwarf)

/

Mock Orange

Choisya ternata

GRASS PALETTE

Atlas Fescue

Festuca mairei 'Greenlee's Form'

/

Deergrass

Muhlenbergia rigens

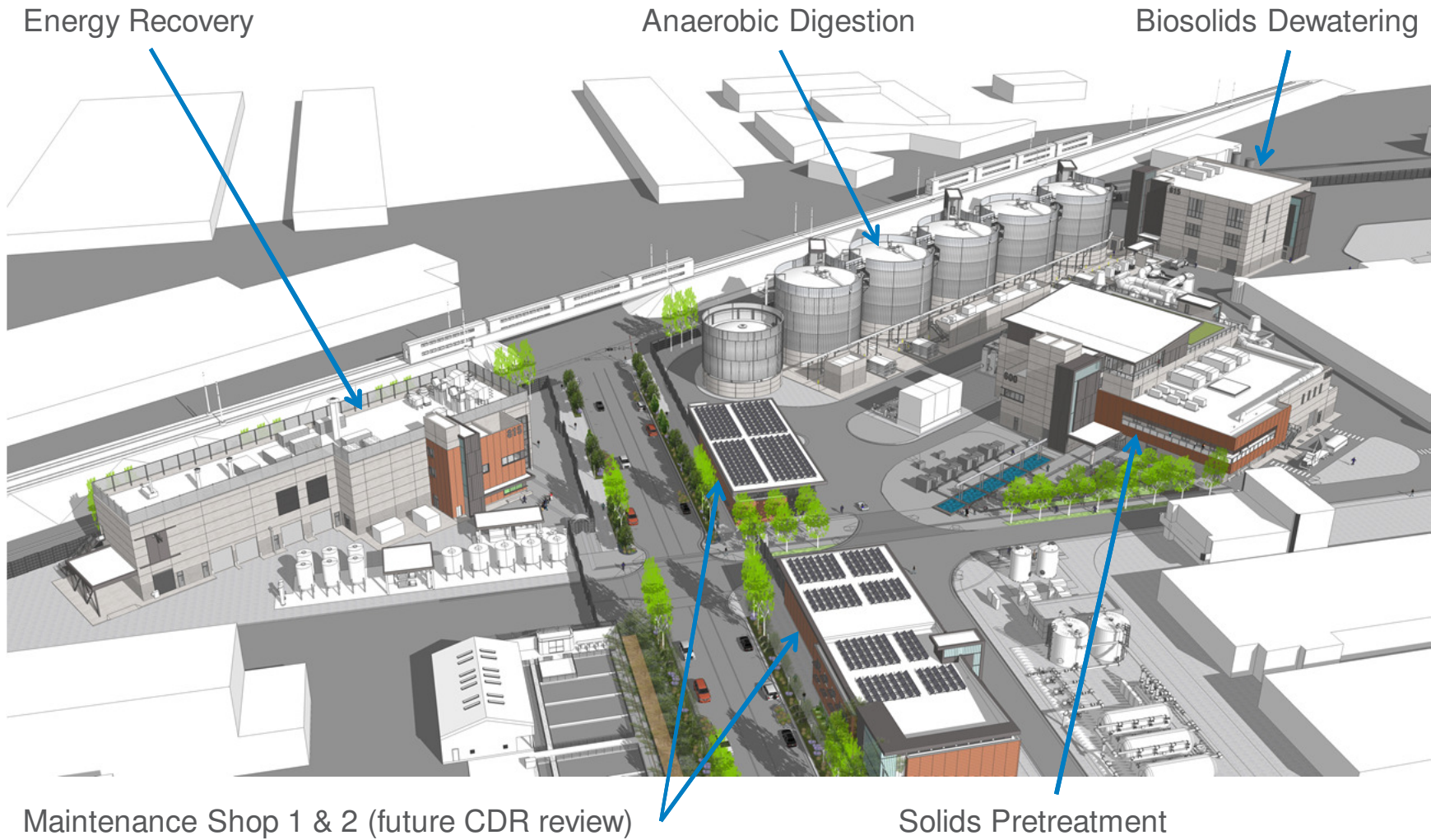
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Autumn Moor Grass

Seslaria autmnalis

Biosolids Phase 1

Campus Aerial View From East



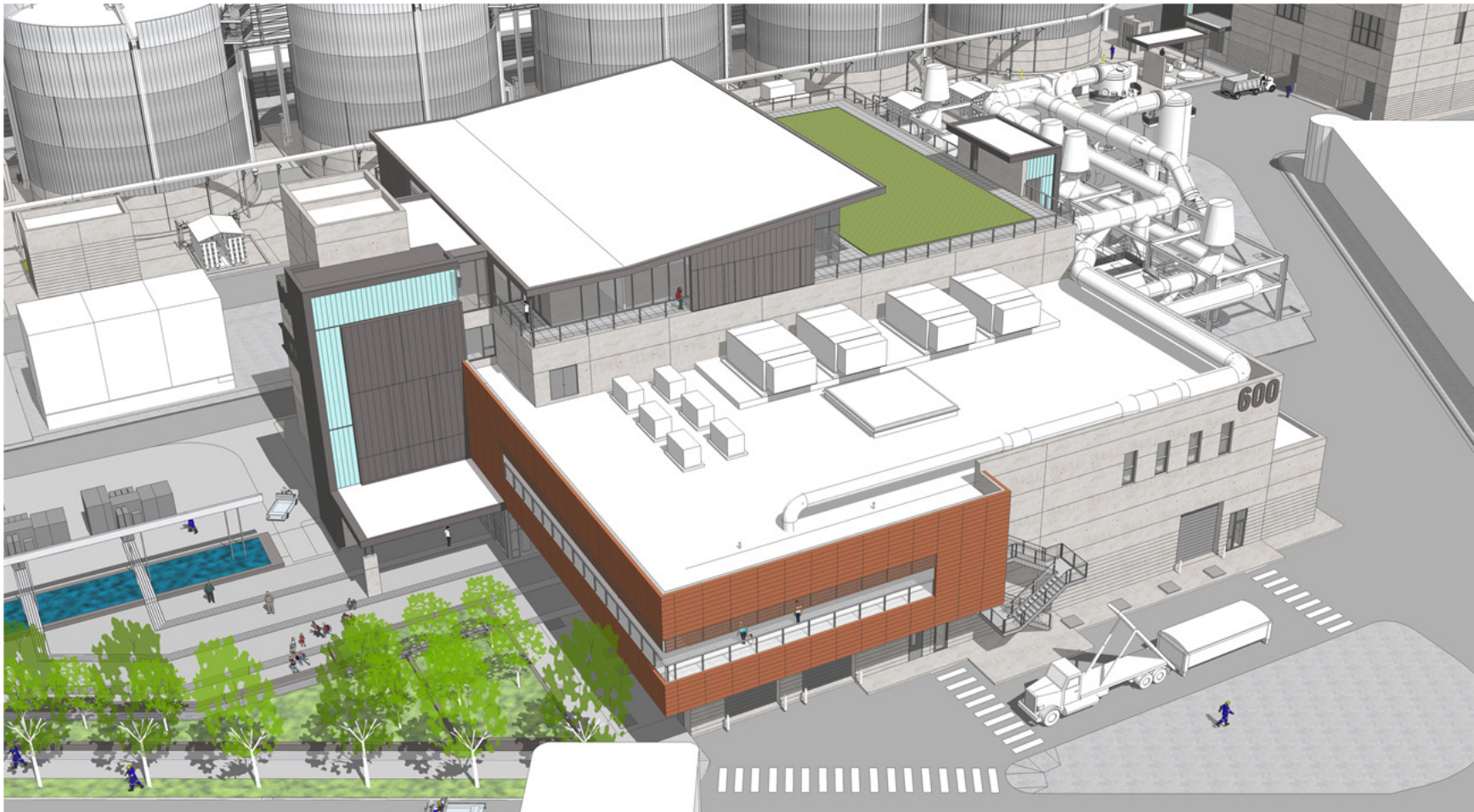
Solids Pretreatment

Previous Design



Solids Pretreatment

Current Design



Solids Pretreatment

Previous Design



Solids Pretreatment

Current Design



Anaerobic Digestion

Current Design



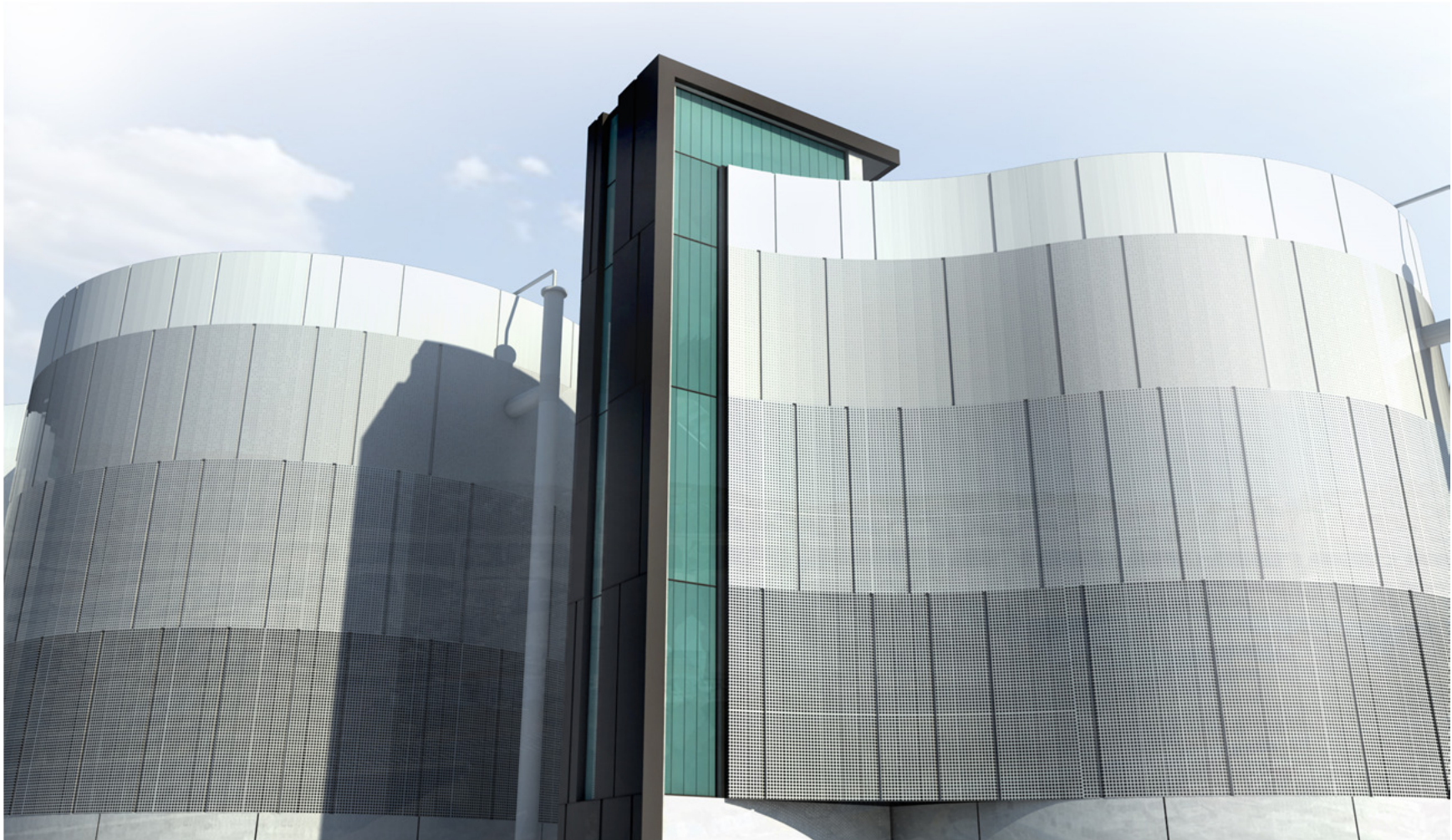
Anaerobic Digestion

Current Design



Anaerobic Digestion

Current Design



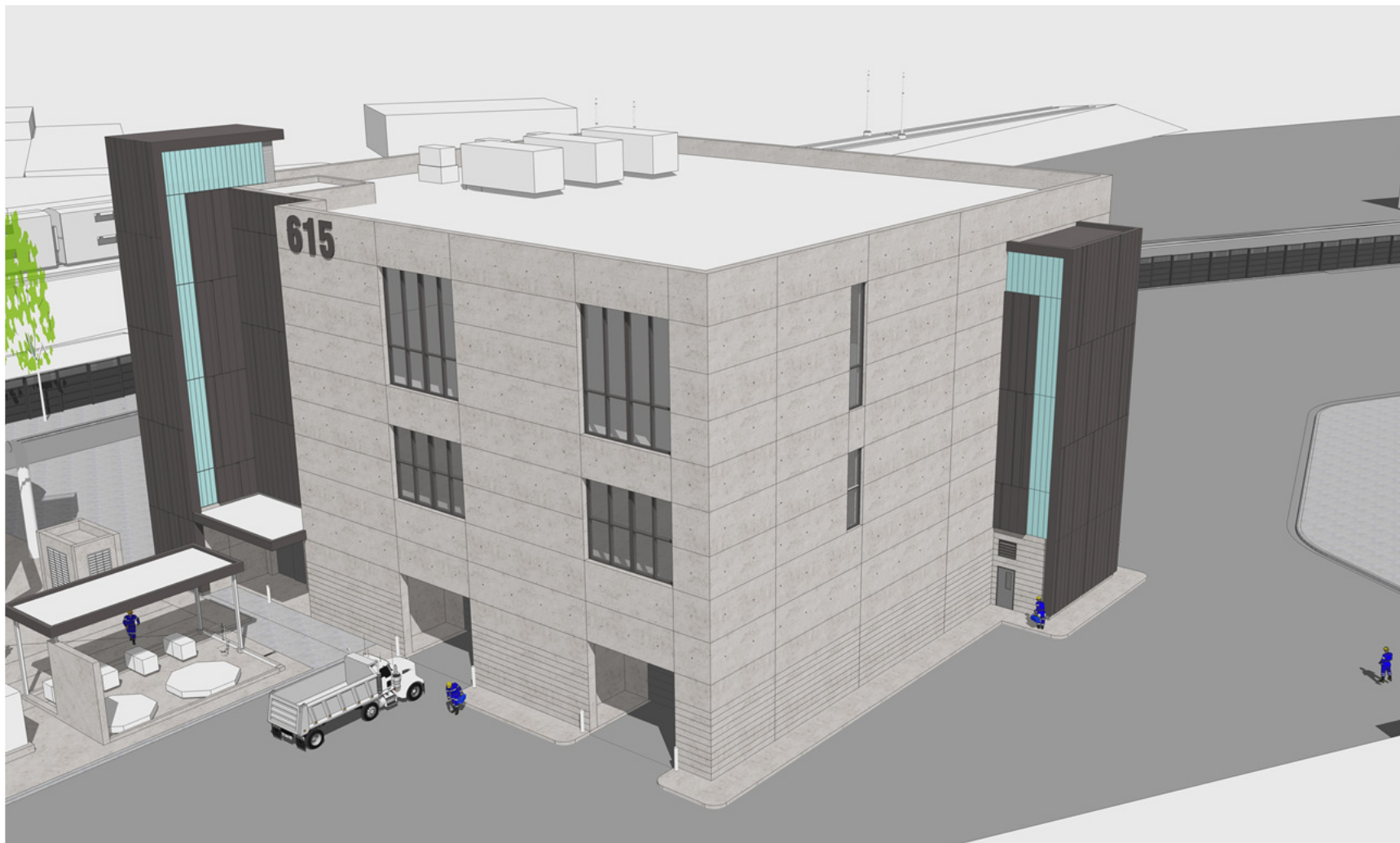
Biosolids Dewatering

Previous Design



Biosolids Dewatering

Current Design



Biosolids Dewatering

Previous Design



Biosolids Dewatering

Current Design



Energy Recovery

Previous Design



Energy Recovery

Current Design



Energy Recovery

Current Design



Energy Recovery

Previous Design



Energy Recovery

Current Design



Biosolids Phase 1

Campus Aerial View From West

