



Vicinity Map



SOUTHEAST PLANT BUILDING 522 (521A) ELECTRICAL/HPU BUILDING

Building Location: The proposed Electrical Equipment Building is located at the SFPUC South East Plant (Evans and Phelps Street) located parallel to Evans Street just inside the brick and concrete security wall.

Project Size: The total building area is approximately 1,700 square feet. (31' x 56') Roof Height varies from 10'-0" above finished floor to 12'-6" to top of roof.

Proposed Building Materials: Concrete panels with textured finish (Board Form) or Cement plaster with textured Finish, Interlocking exterior wall panels or Cortend Steel, Interlocking rain screen panels, Standing seam metal roof panels, Kalwall skylight translucent roof panels, Green screen over stainless steel woven wire mesh.

Design Intent: To provide an enclosure for electrical equipment that is "contemporary" in design and responsive to the existing structures on the site. The enclosure shall minimize energy usage and incorporate sustainable design practices. Proposed facility shall also be resistant to the corrosive environment created by the wastewater treatment plant.

Proposed Design Goals include:

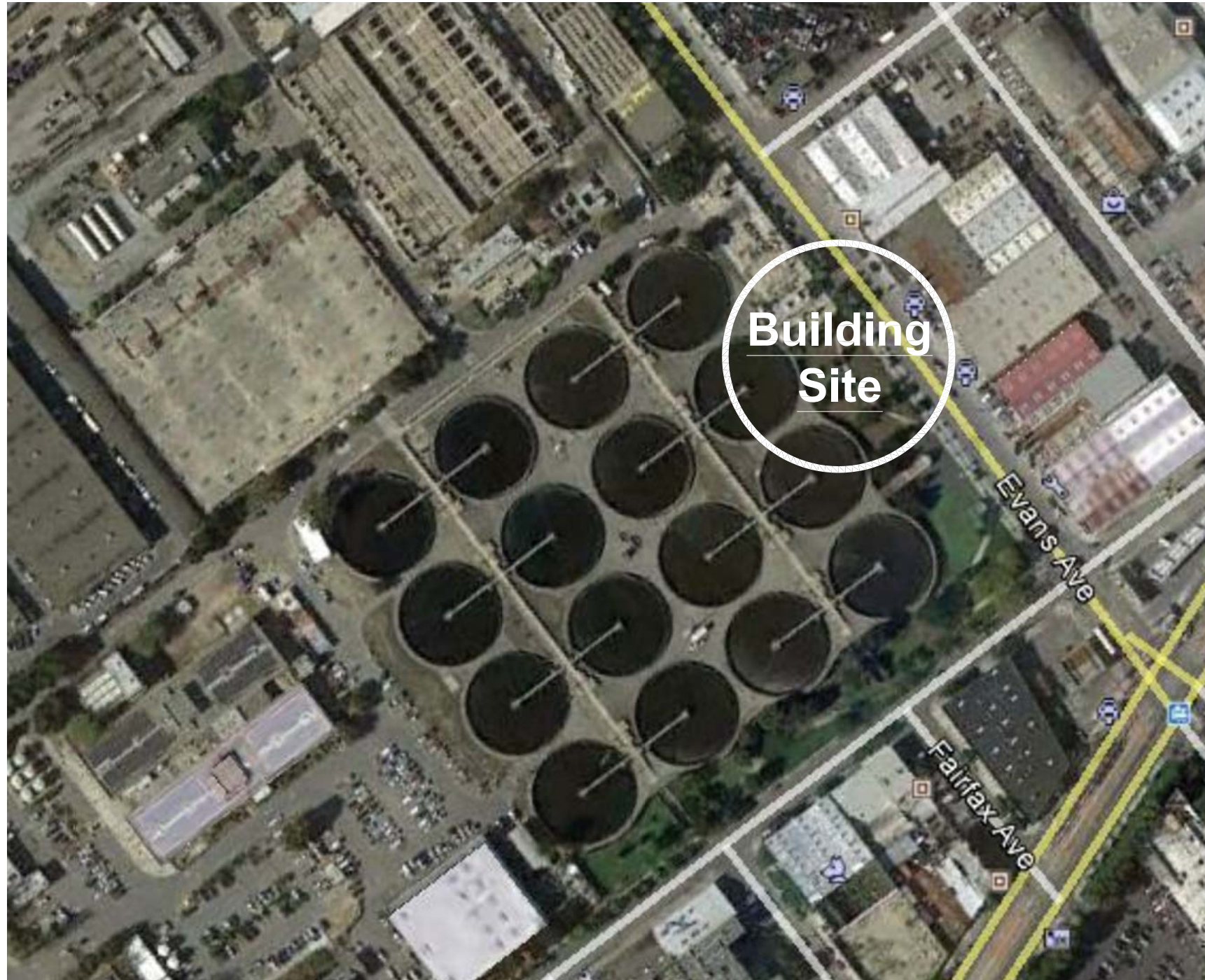
Stormwater Management and Reuse (Reduction of waste water into storm drainage systems and the use of pervious pavement materials)

Heat Island Effect (Use of green screen and roofing materials with recommended solar reflectance index)

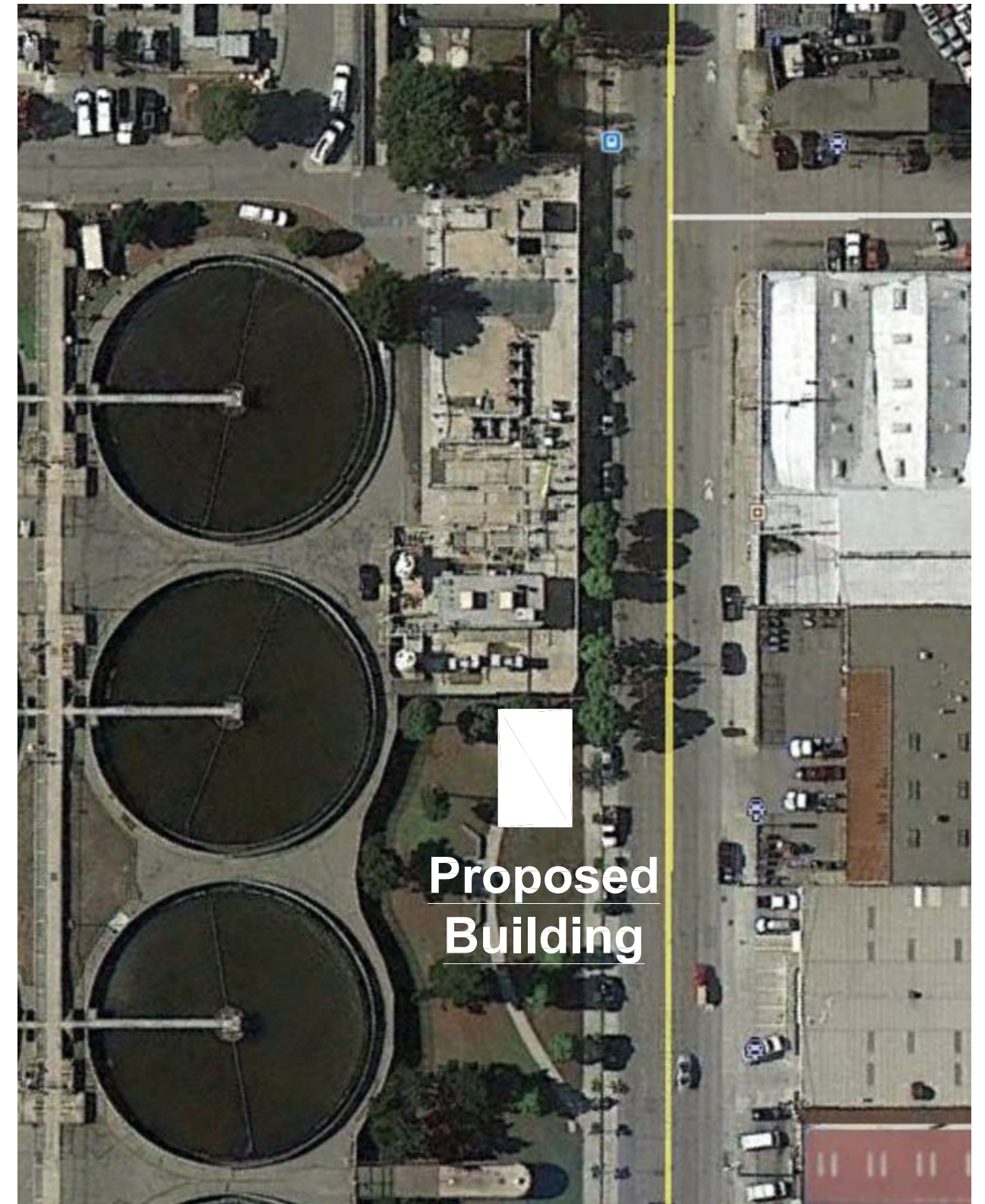
Reduced Power Input (Use of daylighting devices in lieu of artificial lighting)

Water Efficient Landscaping (Use of roof rain water for plant irrigation system)

Materials Reuse (Use of building materials with recycled content)



Site Aerial Photo



Site Aerial Blow-Up

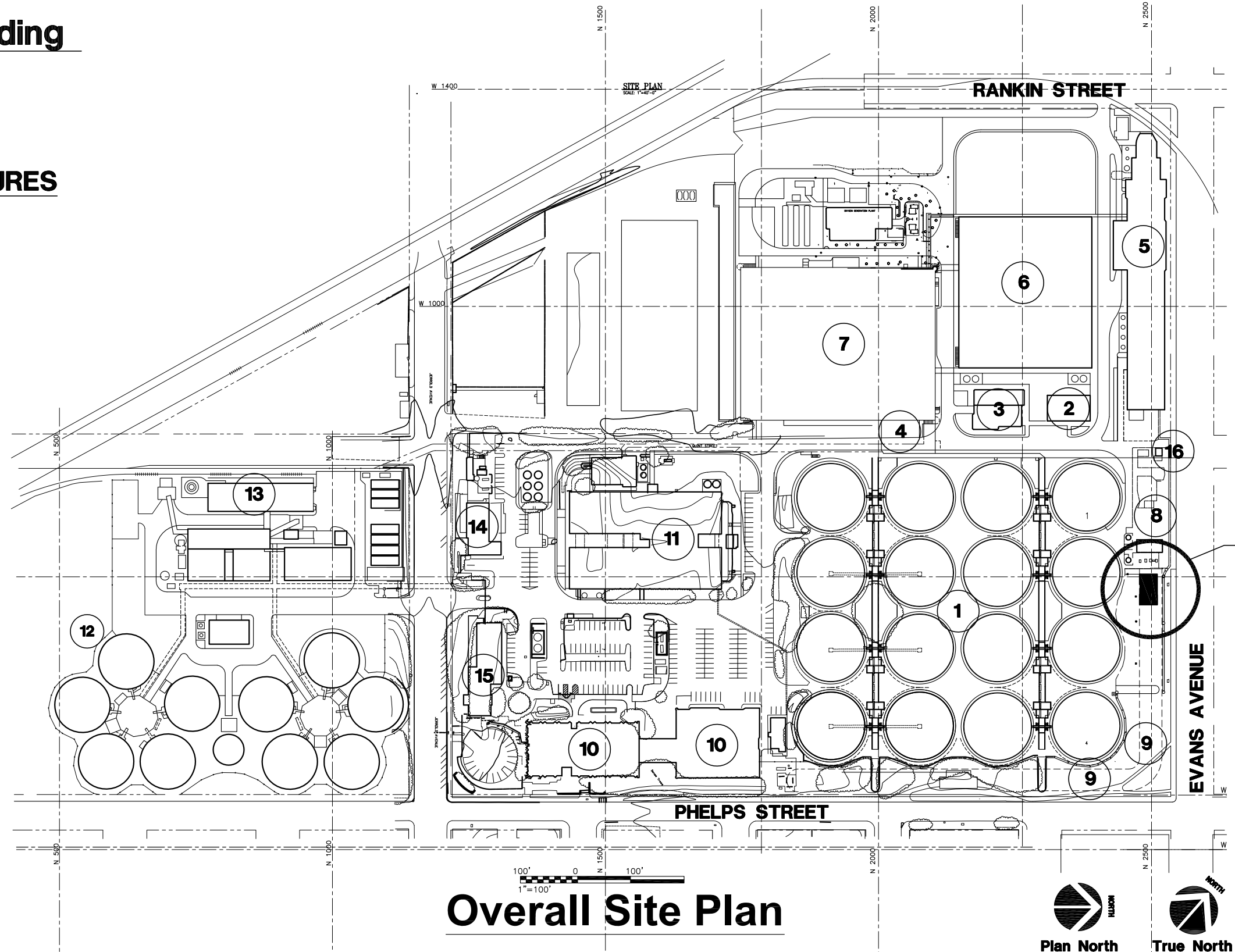


Location of Proposed Building

A Proposed New Building

EXISTING SURROUNDING STRUCTURES

- 1 SECONDARY SEDIMENTATION TANKS
- 2 PRIMARY POWER SWITCHING STATION
- 3 SECONDARY SLUDGE CONTROL BUILDING
- 4 GALLERY
- 5 PRETREATMENT FACILITY
- 6 SEDIMENTATION BUILDING
- 7 AERATION TANKS
- 8 POSTCHLORINATION BUILDING
- 9 CHLORINE CONTACT CHANNELS
- 10 ADMINISTRATION/LABORATORY BUILDINGS
- 11 SEDIMENTATION BUILDINGS
- 12 DIGESTERS
- 13 DRYER BUILDING
- 14 SERVICE BUILDING
- 15 OPERATORS BUILDING
- 16 SMALL CONCRETE BUILDING



Overall Site Plan



BUILDING DESIGN AND CONSTRUCTION
S.F. DEPARTMENT OF PUBLIC WORKS

ARCHITECTURE

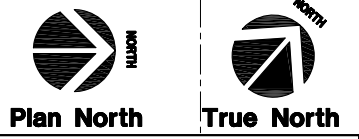
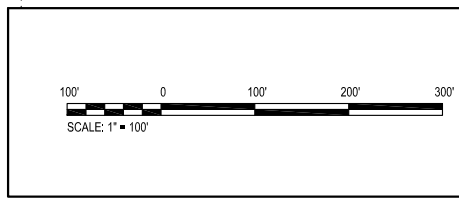




Photo Looking North at Equipment Yard



Photo Looking North-West towards Sedimentation Tanks



Photo Looking South towards Postchlorination Building



Photo Looking South at Site of Proposed Building

Existing Clarifier

Access Drive

Louvers

Roll Up
Access Door

Skylight
Above

Electrical Equipment

Roof Access
Ladder

Existing
Security Wall

Louvers

Electrical Equipment

UPS
MISC.
ELEC.

Electrical Equipment

A

A

Louvers

B

Skylight
Above

Electrical Equipment

B

Roll Up
Access Door

Louvers

C

Existing
Security Wall

Evans
Avenue



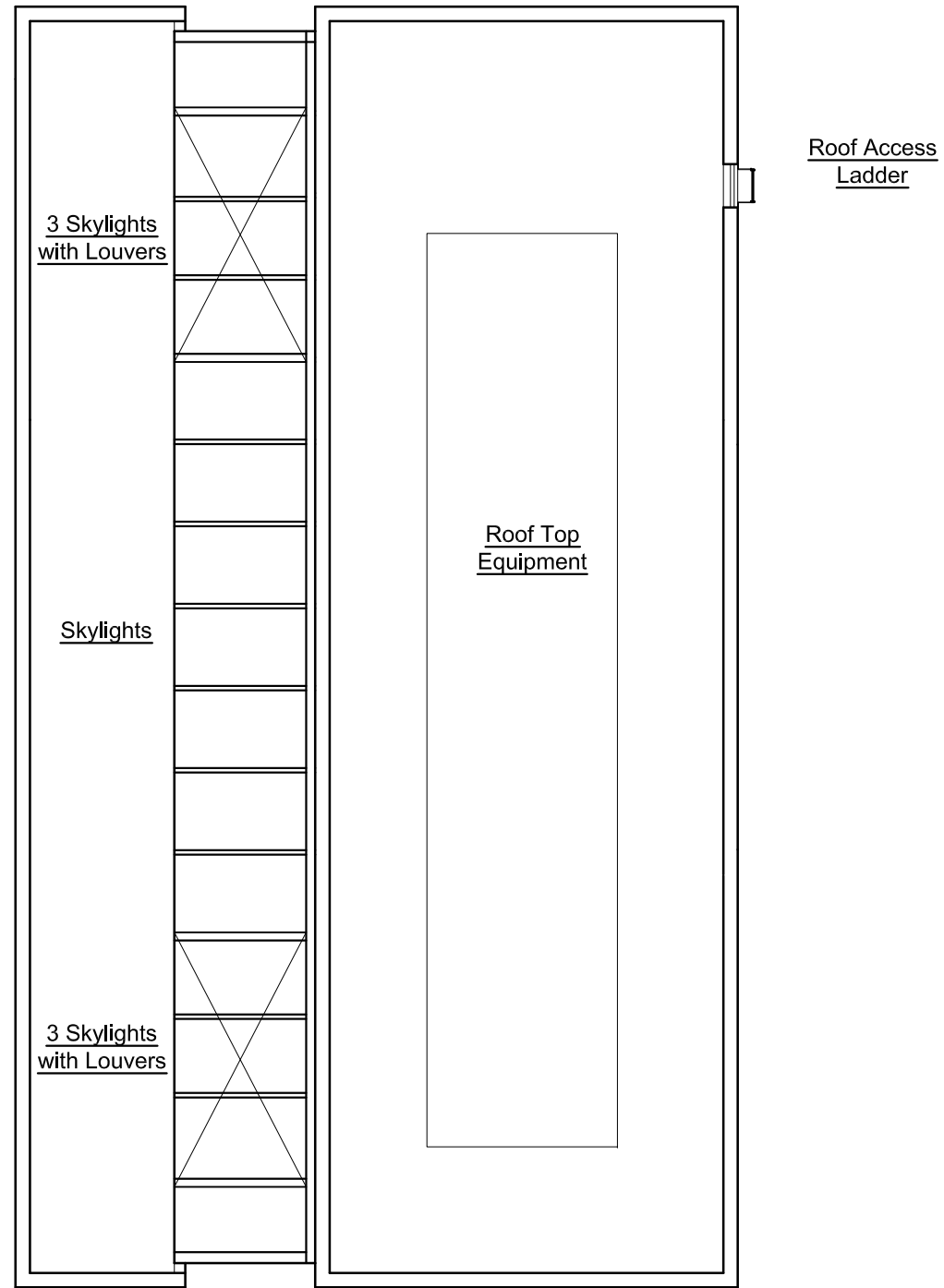
BUILDING DESIGN AND CONSTRUCTION
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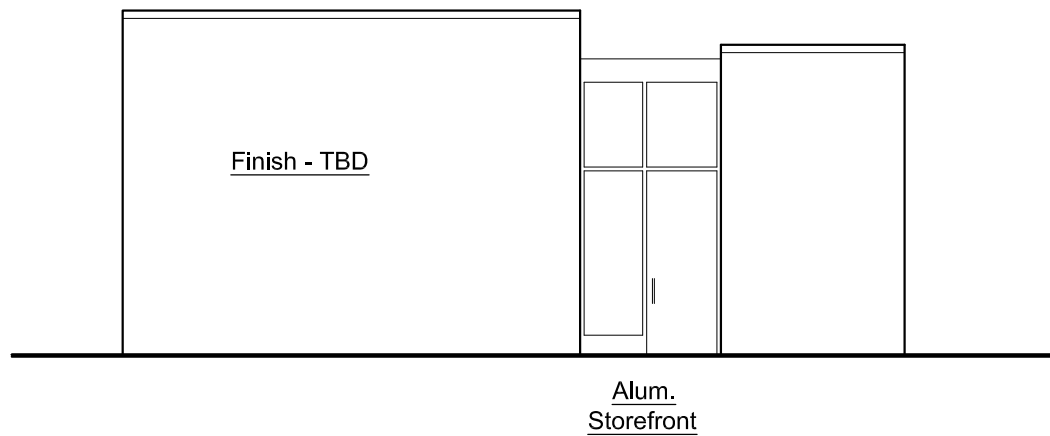


Floor Plan

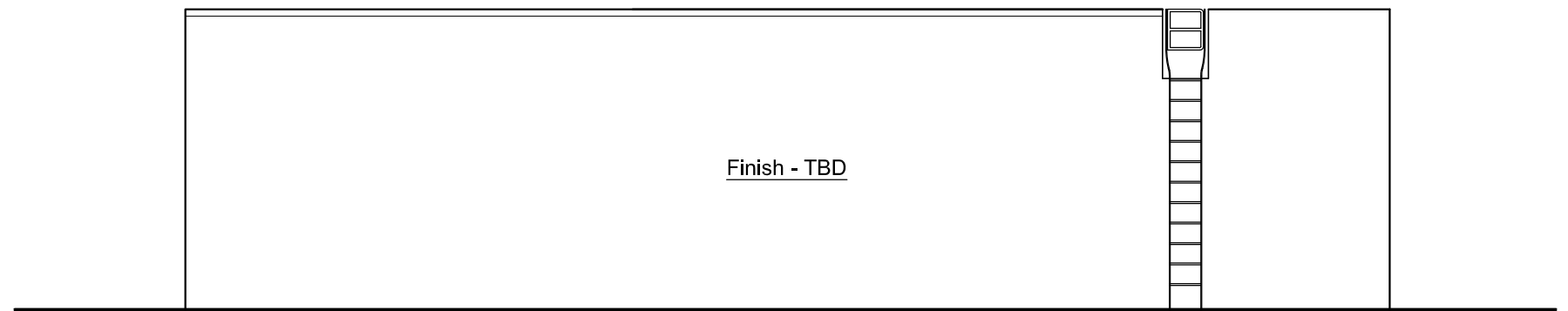


ARCHITECTURE

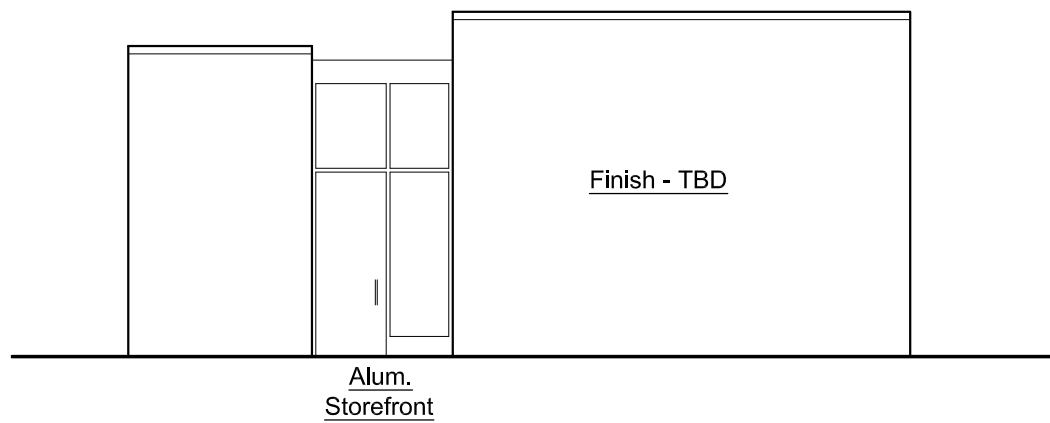




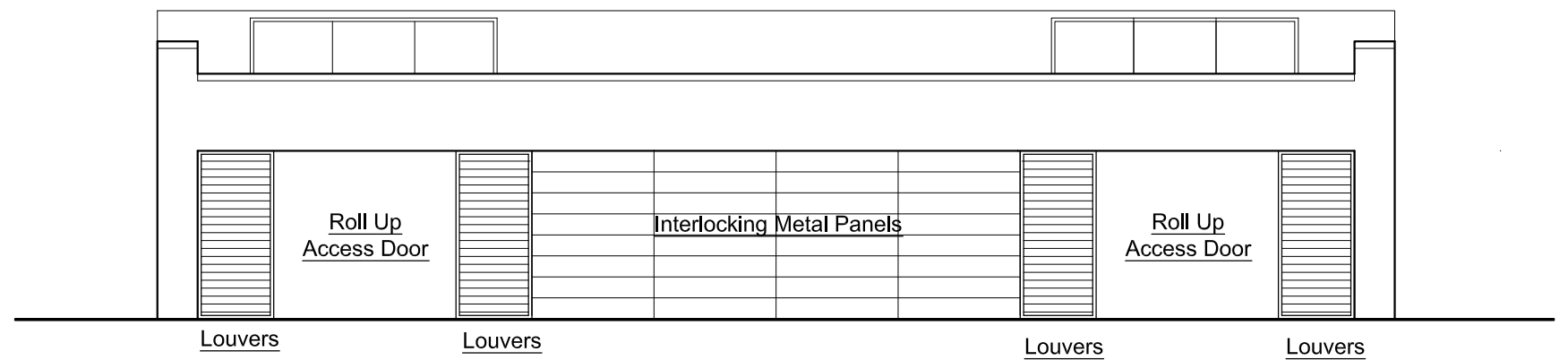
West Elevation



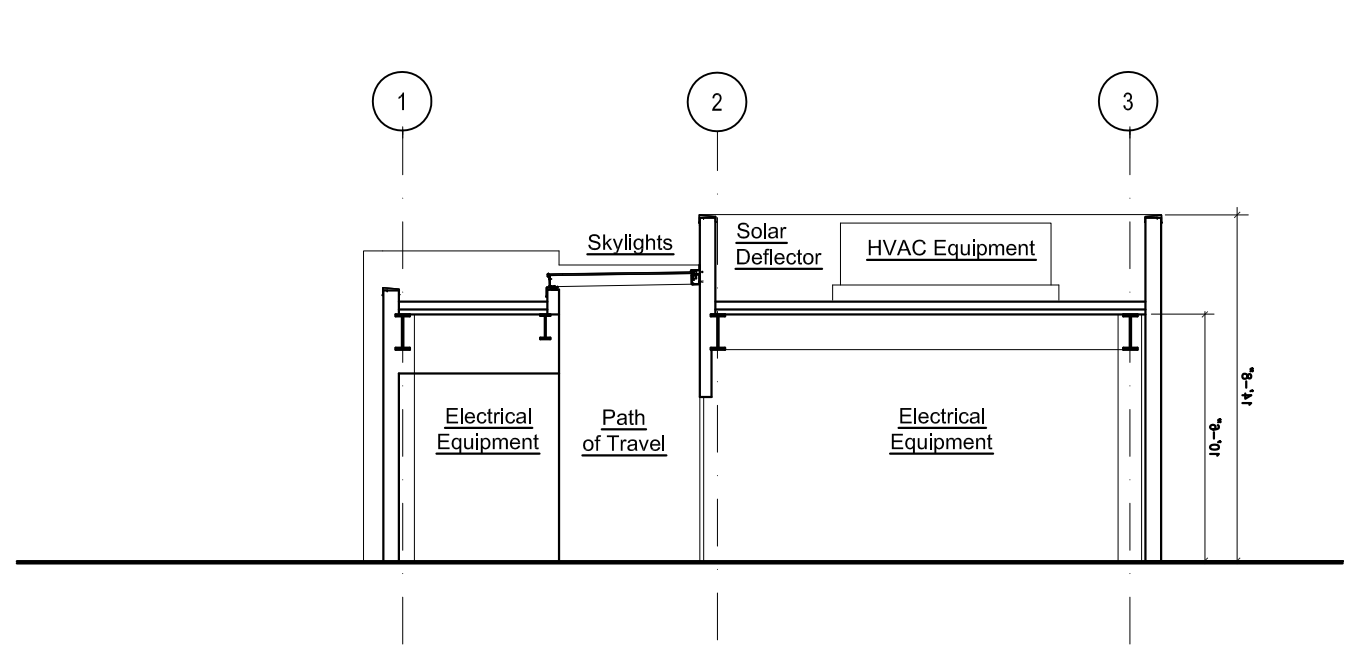
North Elevation



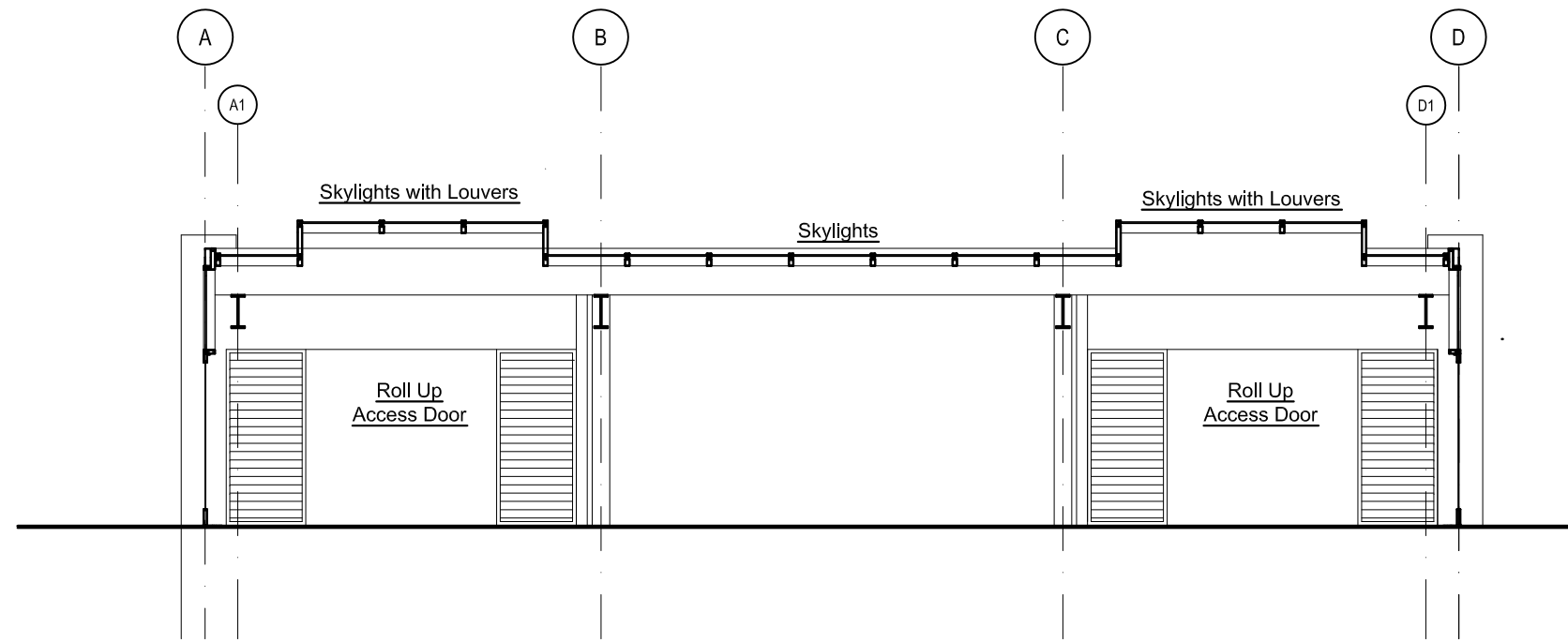
East Elevation



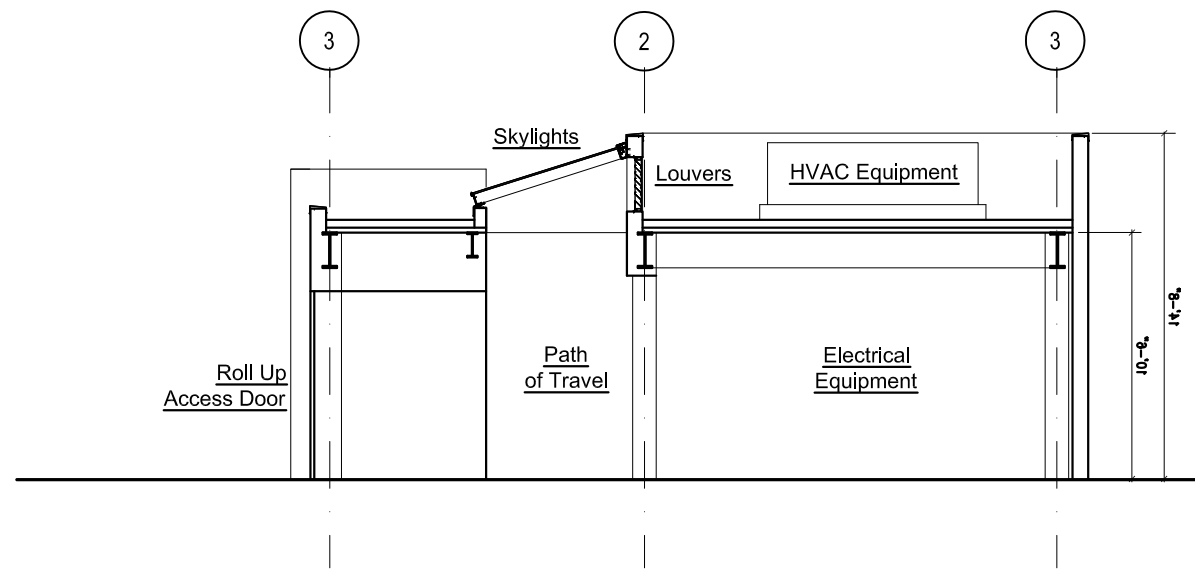
South Elevation



Transverse Section A-A



Logitudinal Section C-C



Transverse Section B-B



Metal Panel Solutions



Proposed Skylight



