

## **Design Input**



#### **Public Outreach**

- Plant needs to blend with neighborhood
- Facilities should not look too industrial
- Edges should feel inviting
- Wear well and look good over time
- Something that is welcoming
- Focus on street perspective

## **SFPUC Management Oversight Committee**

- Timeless design
- Educational
- Earth tones
- Neighborhood connections

## **Civic Design Commission**

- Faux façade
- Purpose and function
- Narrative
- Simplification



# **SEP campus** identity + vision

#### Confluence of:

- Technology (SEP + innovation)
- Community (learning + engagement)
- Environment (biophysical + built)

#### Opportunity to:

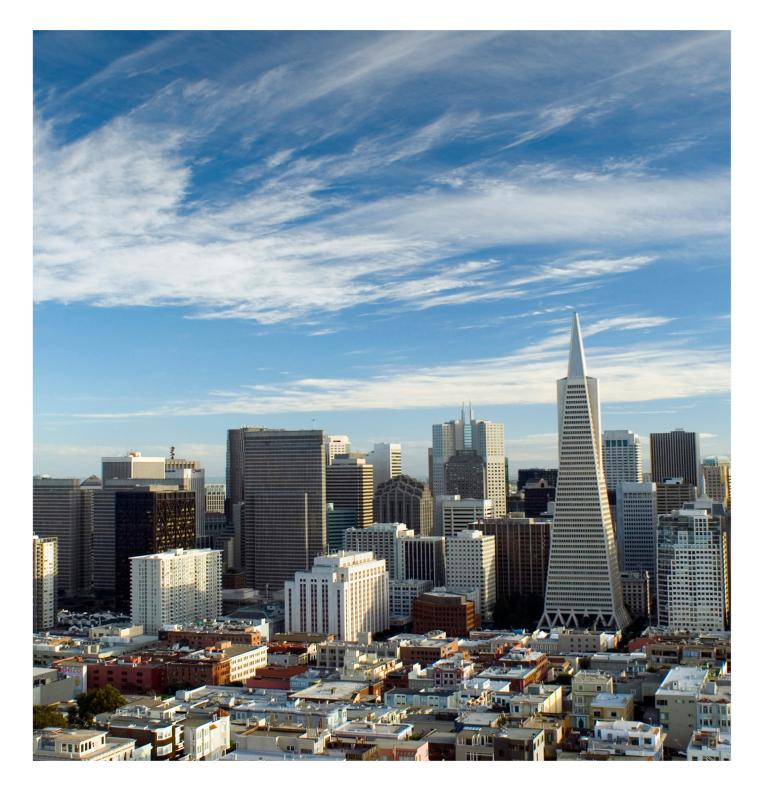
- exchange information
- make the invisible visible



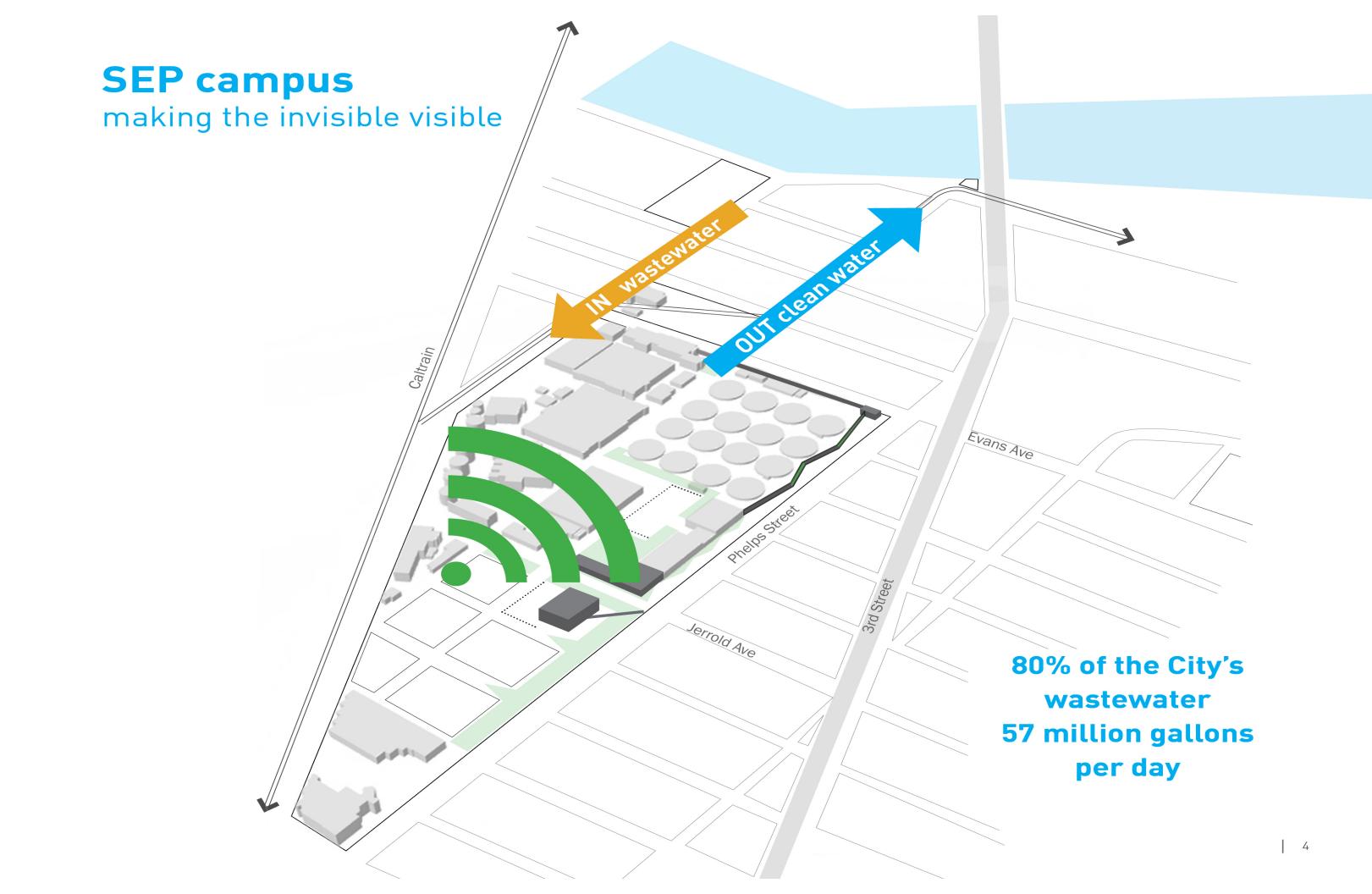
Sidwell Friends School, Washington, D.C.

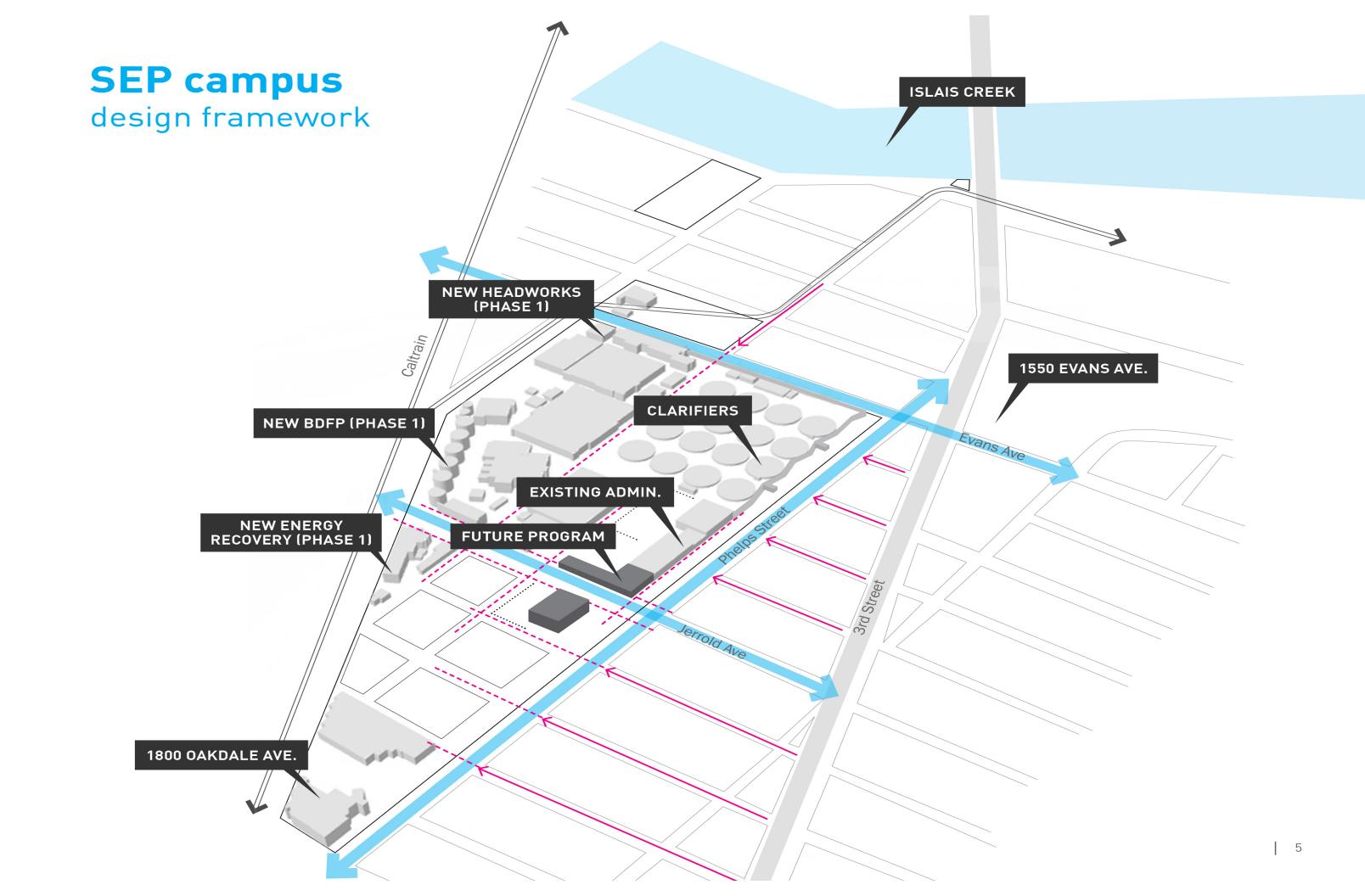
## **SEP** campus

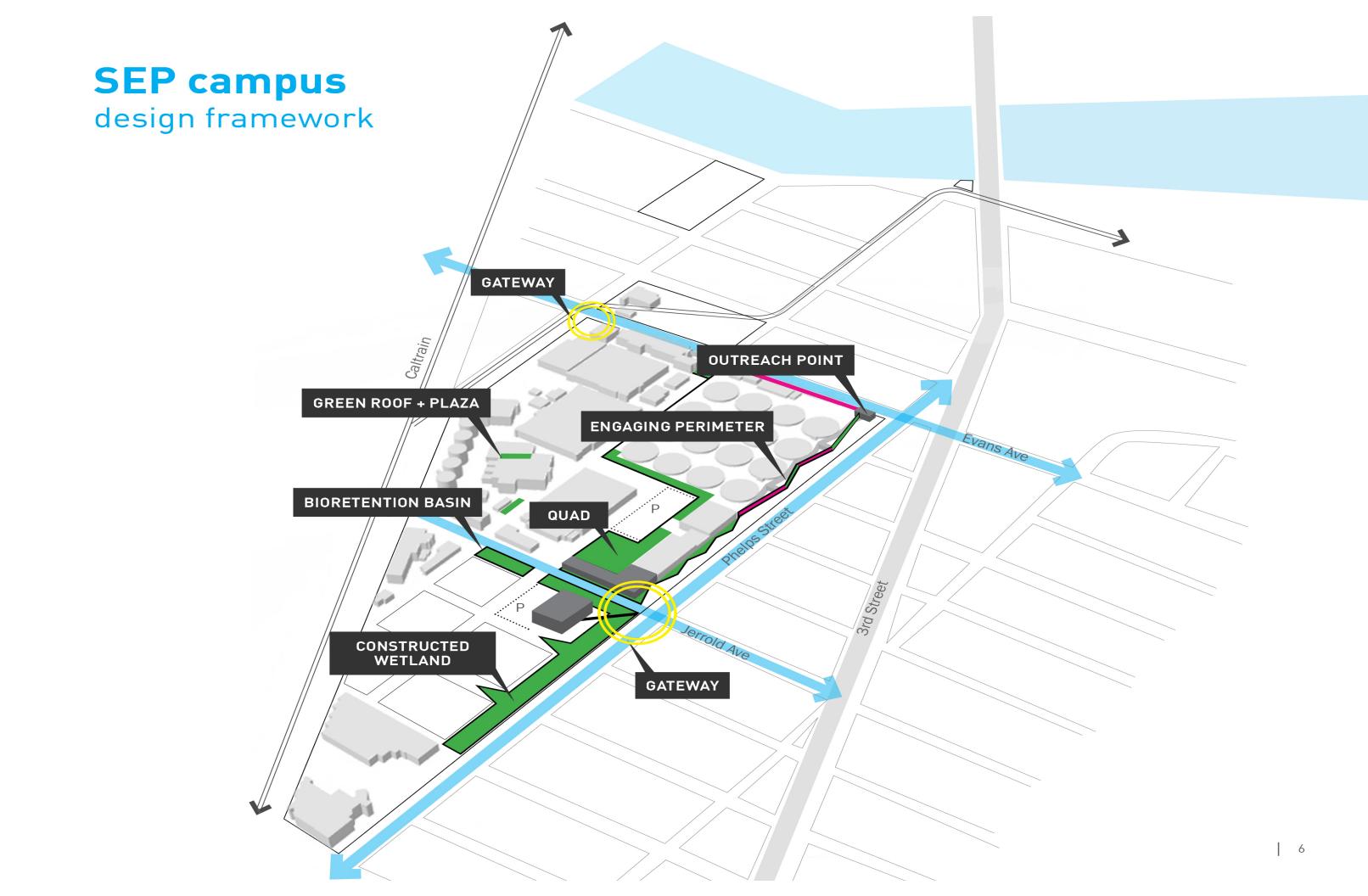
## making the invisible visible

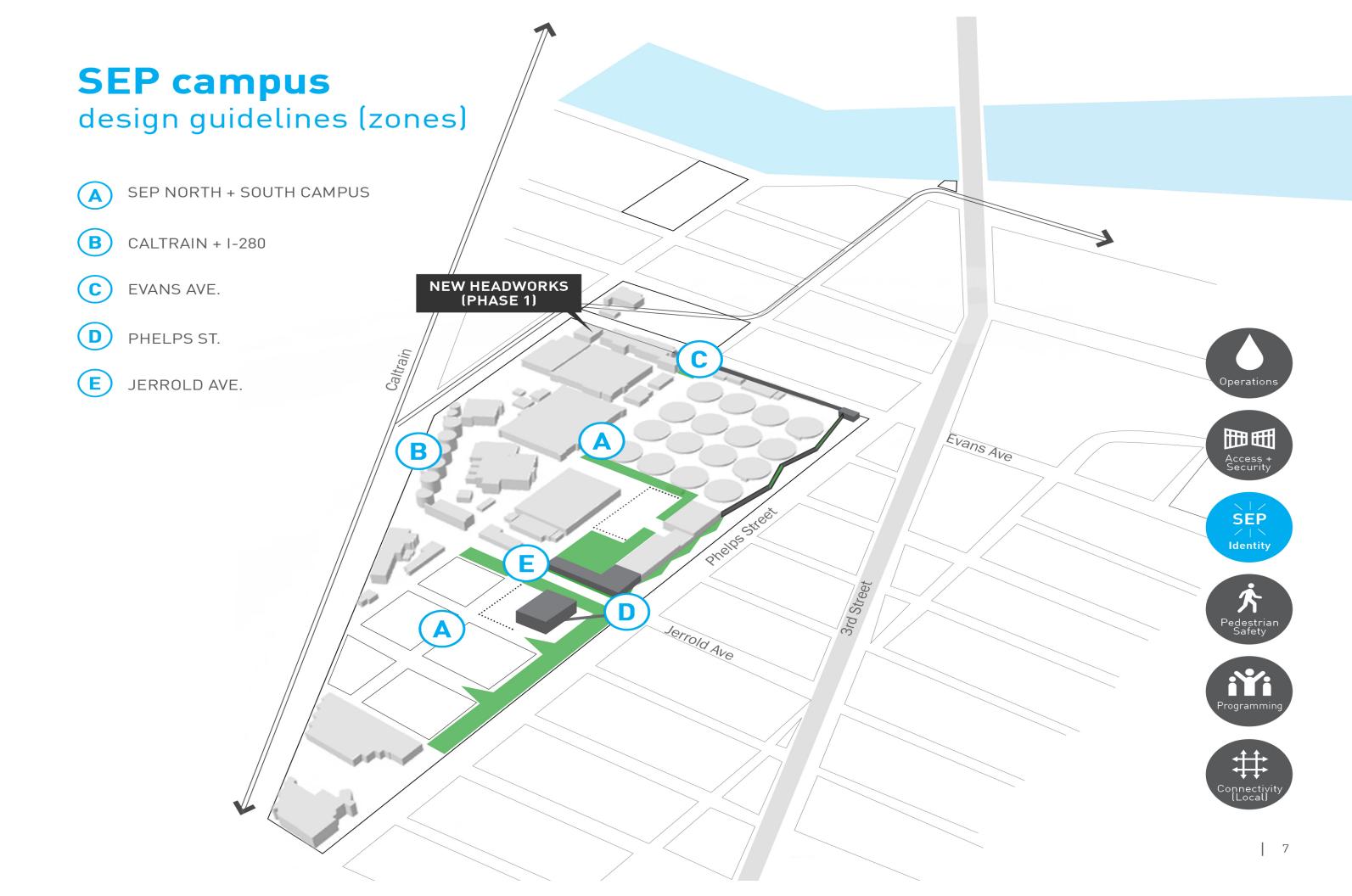






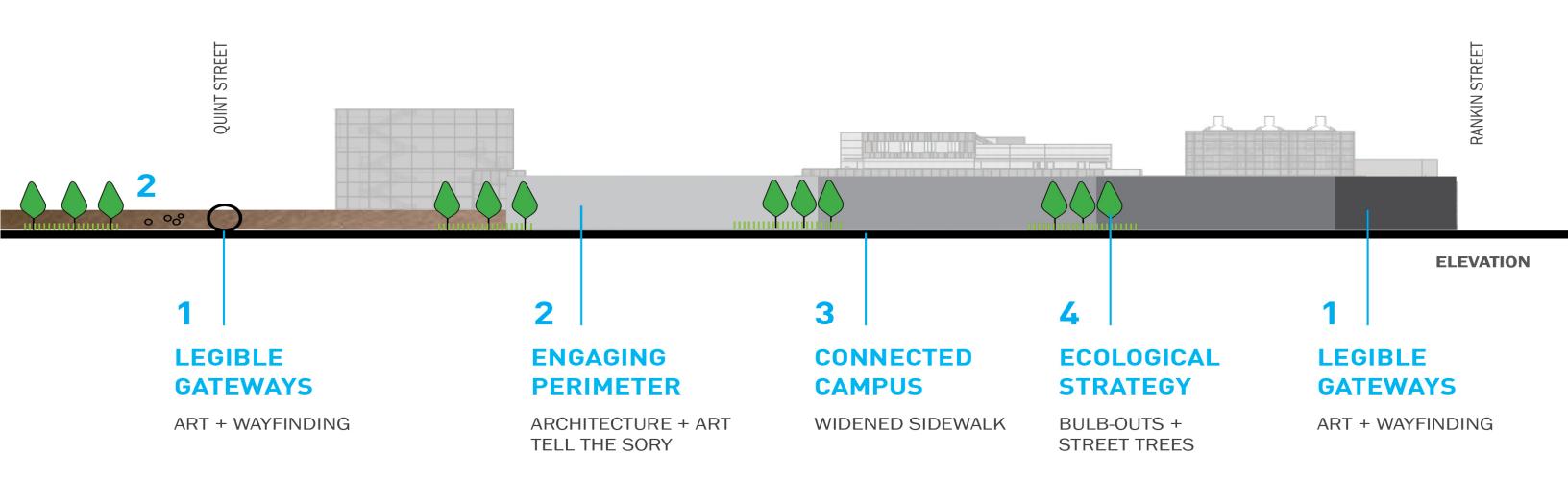






## **SEP** campus

### Evans Ave - Zone C







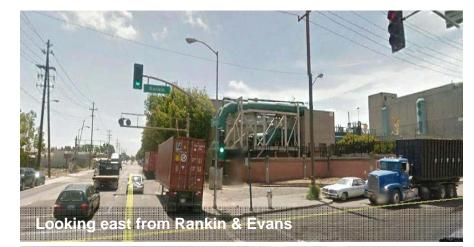


# Civic Design Review

## SEP 020 Headworks Project November 14<sup>th</sup> 2016

## **Existing Conditions**













Context. The headworks project is located at the SFPUC Southeast Plant which treats 80% of San Francisco's wastewater. This project replaces the existing headworks which is at the end of its useful life. The project site is at the corner of Evans Avenue and Rankin Street in the Bayview neighborhood. On the plant side, the site is hemmed in by an above ground treatment basin.

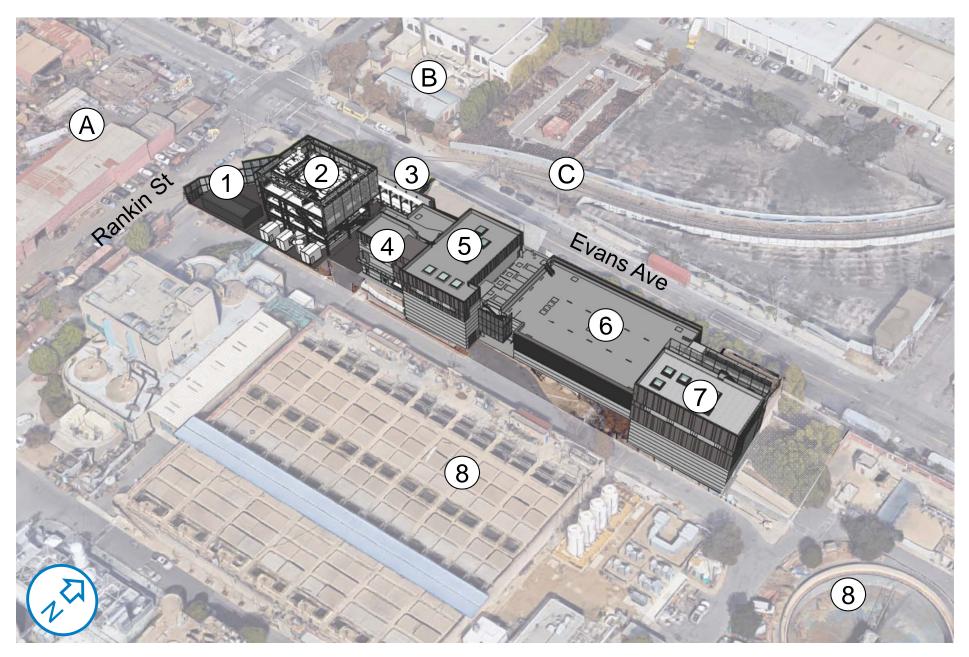


SEWER SYSTEM IMPROVEMENT PROGRAM | Grey. Green. Clean.

## Replacement Headworks & Functions



**Program**. Plant operators and mechanics visit the facility daily, specifically they visually verify equipment is working in the basement pump rooms, screening area and load out bays. Dump trucks pick up materials at the load out bays on a weekly basis. Tour groups will be brought into the facility from the plant side via an accessible route to see the screening area. There is no entrance to the headworks from Evans or Rankin due to health and security requirements.



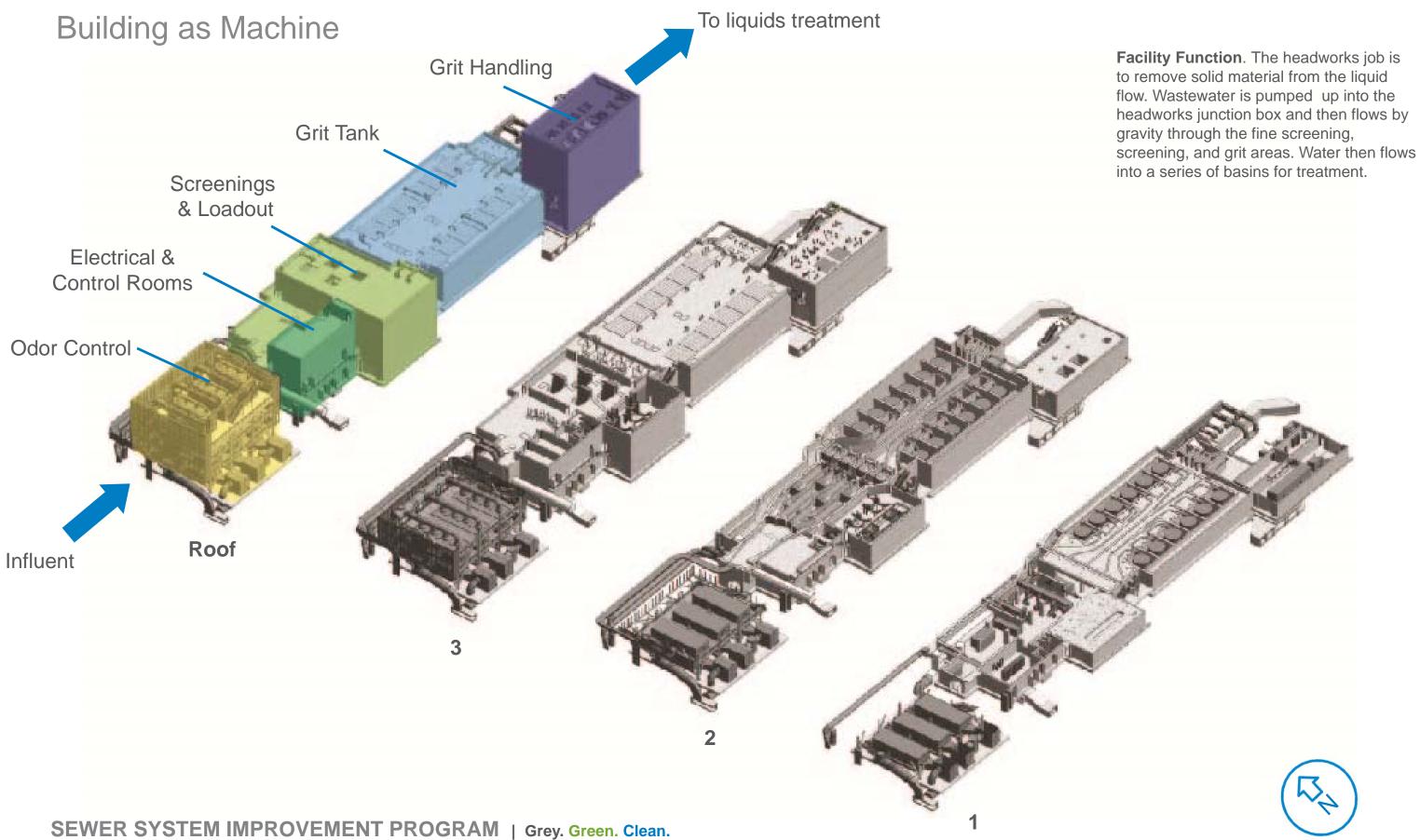


**Existing Headworks** 

- 1 Transformer Building
- (2) Odor Control Structure
- 3 Influent Pipes
- 4 Electrical Building
- 5 Screenings Facility
- 6 Grit Tank Facility
- 7 Grit Handling Facility
- 8 Liquid Treatment Basin
- A Circosta Scrap Metal
- B Bruce Flynn Pump Station
- C Union Pacific Railway

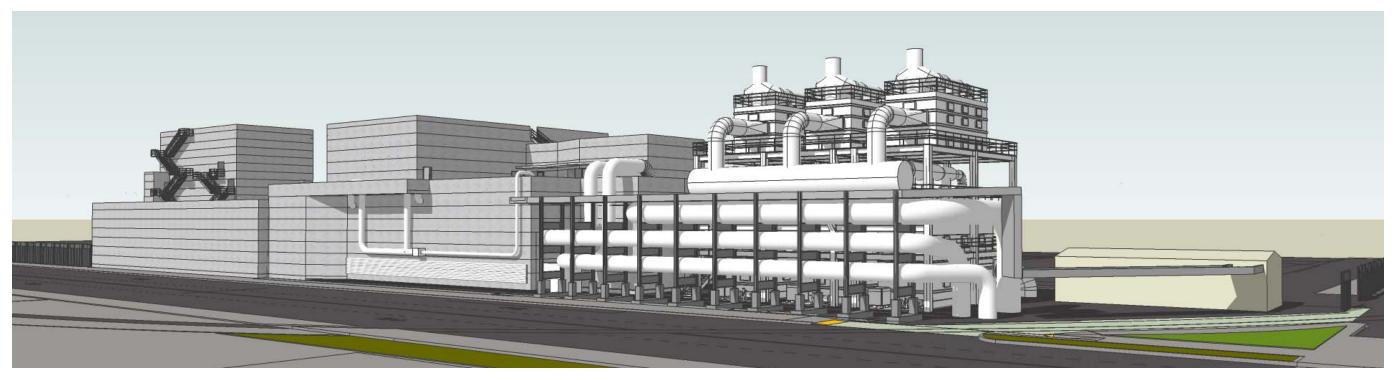






## **Evans Ave. - Essential Components**





Functional Components - Influent pipes, odor control structure and pipes, external stairs, building structure

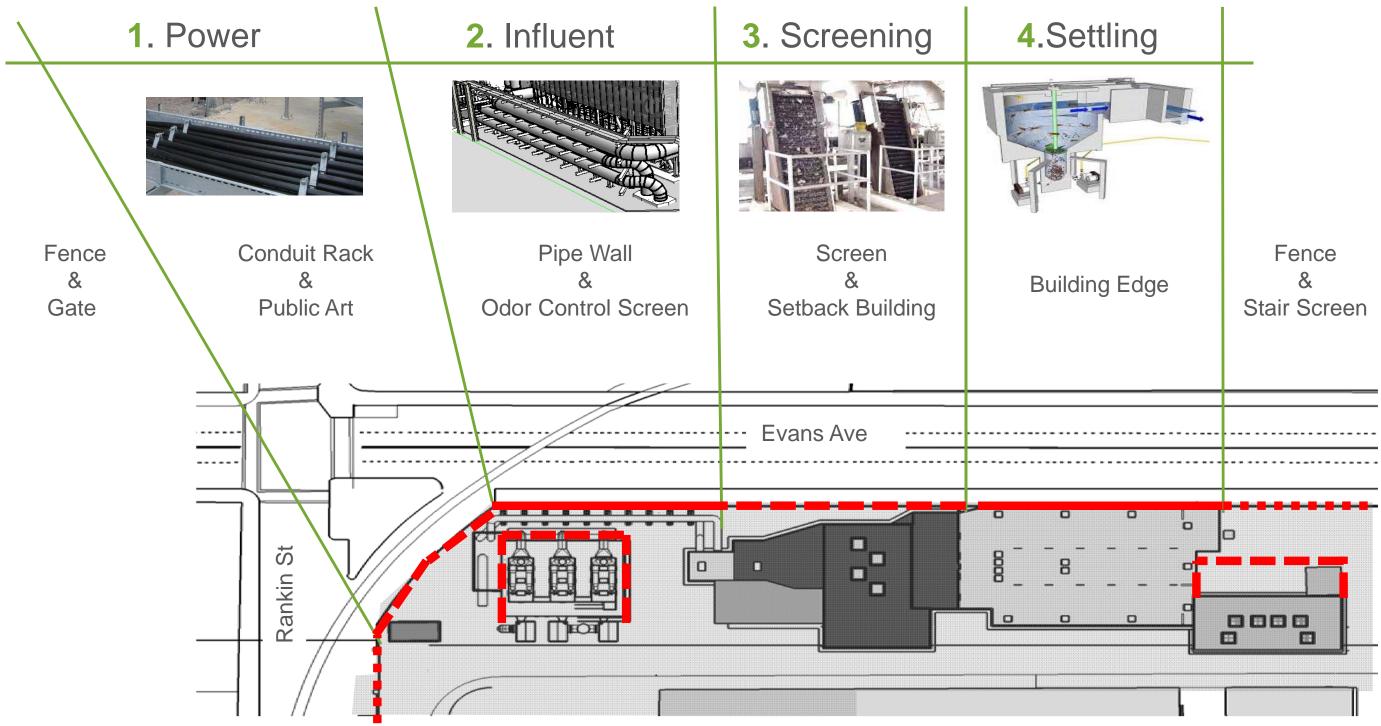


Structural and Screening Components - Stair screen, setback fence, pipe wall, odor control screen, conduit screen

## **Evans Ave. - The Four Episodes**

## San Francisco Water Power Sewer

**Expressive Perimeter** 



## **Material Palette and Precedents**





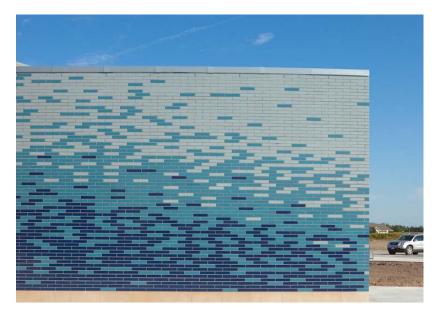
**Textured Concrete** 



Terra Cotta



**Channel Glass** 



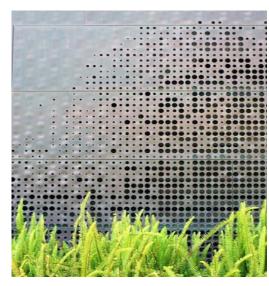
Kenwood Elementary – WHS Architects



Stainless Steel Mesh



Zinc/Stainless Steel



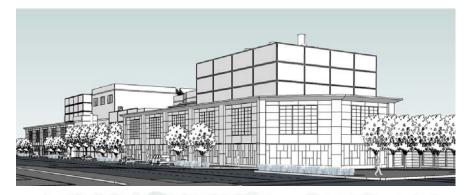
Perforated Aluminum



Hay Street House – CCN Architects

## **Design Progression**











**Older Versions** 





**Newer Versions** 

#### **Design Strategies - Older Versions**

- Express as building walls
- Semi-traditional style
- Multiple locations for art

#### **Design Strategies - Newer Versions**

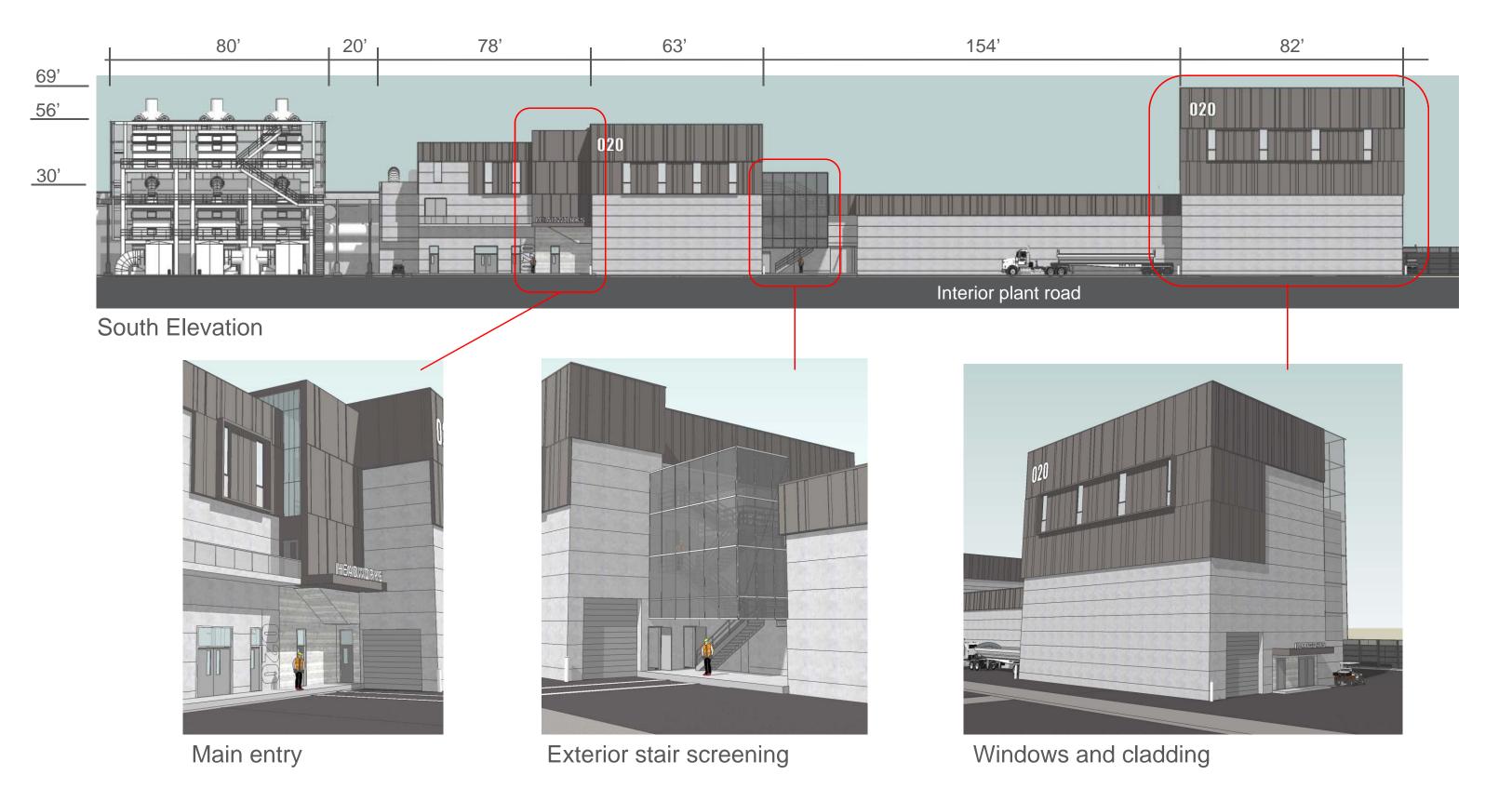
- Express as separate components
- Contemporary style
- Single corner location for art
- Overlap wall sections
- Vegetate setbacks

#### **Latest Informal CDR comments:**

- Tell a holistic design story
- Honest, consistent use of materials
- Simplicity and clarity
- Reconsider vegetated setbacks
- Reconsider wall overlaps
- Provide additional terra cotta studies

## **Plantside Architectural Components**





### Partial elevation studies - Evans Ave.





#### **Shifted**

Widening pattern relates to flow and treatment of water, creating movement for pedestrians and drivers.

- Terra cotta rainscreen
- Two colors, two textures
- 26' H solid and perforated screen mimics pattern



#### Staggered

Pattern creates variety with horizontal data to break up height of wall

- Terra cotta rainscreen
- Two colors, two textures
- 3 levels (12', 23', 30')
- 23' H solid and perforated screen mimics pattern



#### **Pixelated**

Pixel pattern adds more dimension and variety for pedestrians and drivers

- Terra cotta rainscreen
- Three colors, two sizes
- 18' H solid and perforated screen mimics pattern

**Preferred Scheme** 



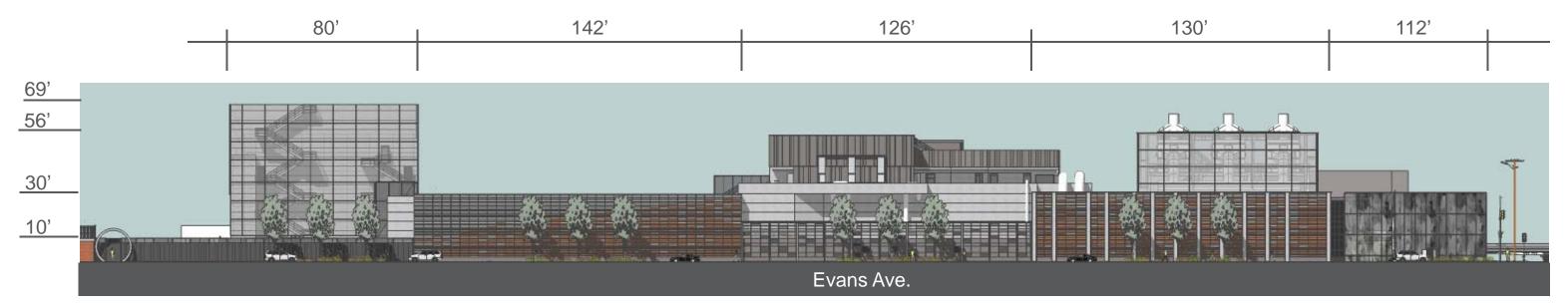
#### **Embedded**

Terra cotta tiles inset in concrete walls with pixel pattern to tell the story

- Terra cotta tiles in concrete
- Two colors, one size
- 18'H solid an perforated screen mimics pattern

## **Evans Ave. Architecture**





North Elevation



East Elevation



West Elevation

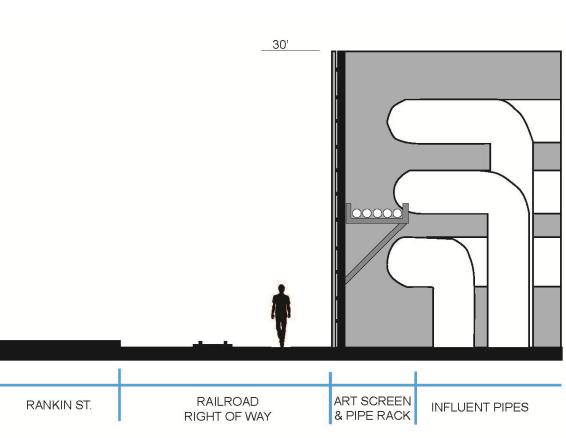
## **Evans Ave. Episodes**

### 1: Power

- Screening for pipes, conduit and transformer building
- Public Art opportunity
- Gateway to Bayview neighborhood
- Truck entrance to plant



Looking South from sidewalk on Evans at Rankin



Section

San Francisco
Water Power Sewer

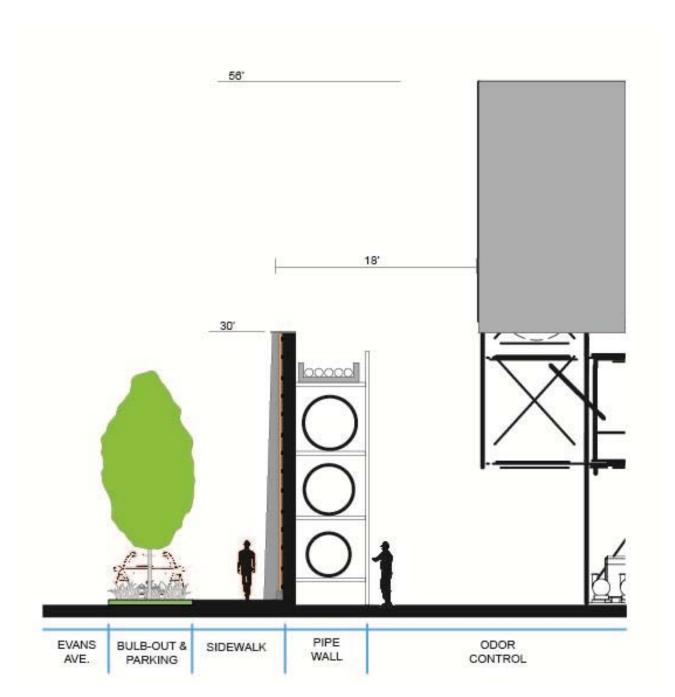
# Evans Ave. Episodes 2 : Influent



- Structural wall for influent pipes
- Buttressed columns to emphasize structure
- Begin of pixelated terra cotta (representing incoming dirty water)
- Sidewalk treatment and vegetated bulbout



Looking East from sidewalk on Evans Ave.

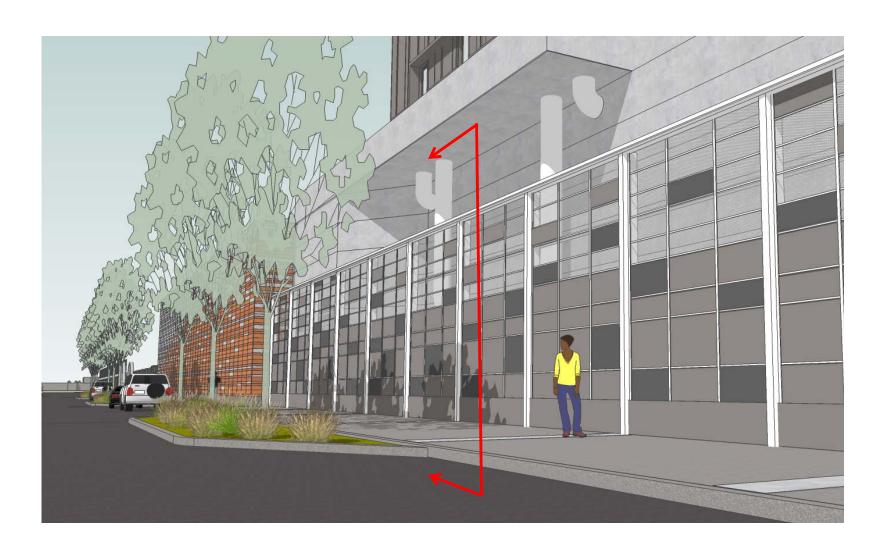


Section

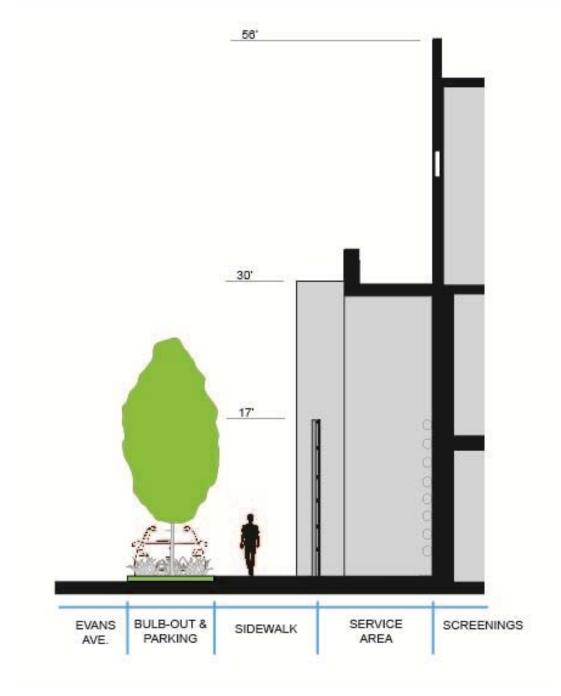
# Evans Ave. Episodes 3: Screening



- Security screen for workspace and equipment beyond
- Perforated and solid metal panels in pixelated pattern
- 18" setback from property line for articulated streetwall
- Sidewalk treatment and vegetated bulbout



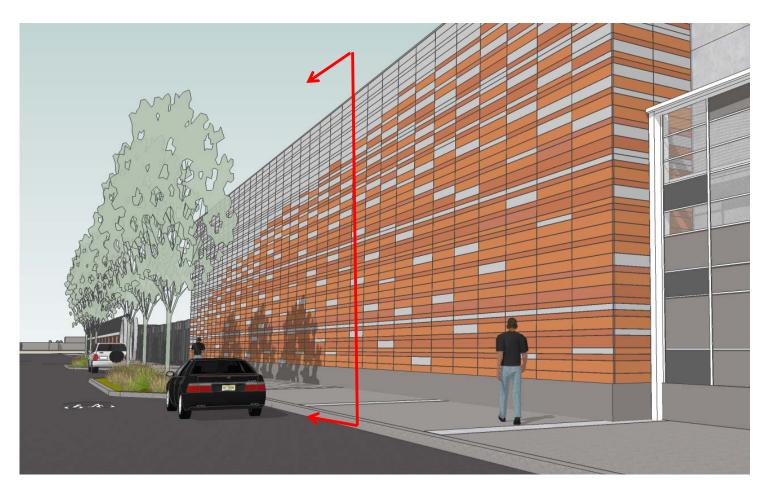
Looking East from sidewalk on Evans Ave.



Section

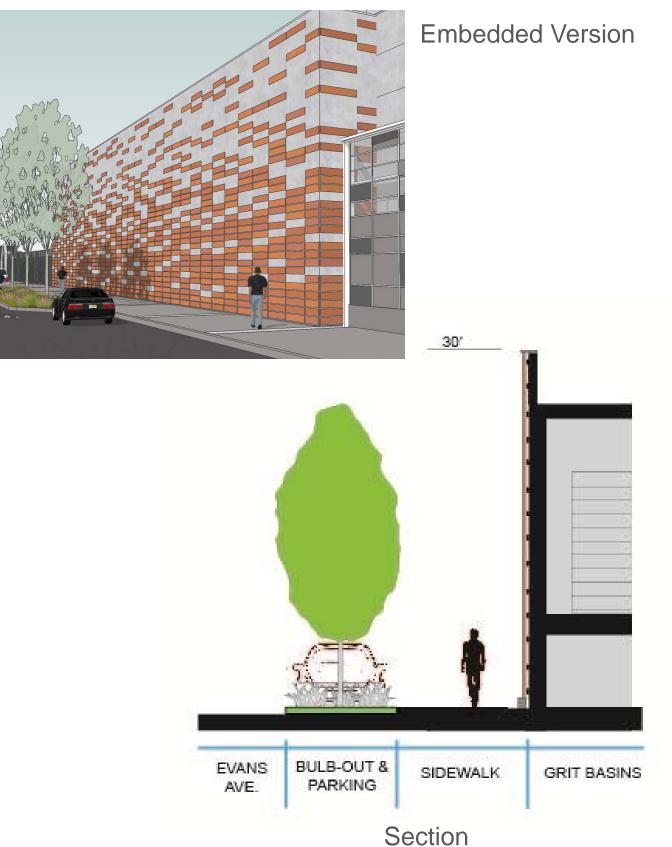
# Evans Ave. Episodes 4 : Settling

- Structural wall of grit tank
- Continuation of pixelated terra cotta (representing filtering of water)
- Smooth face to reflect structure
- Sidewalk treatment and vegetated bulbout



Looking East from sidewalk on Evans Ave.





## **Evans Ave. Landscape**

## San Francisco Water Power Sewer

## **Vegetated Bulbouts**

68' 2-3 car Bulbouts centered on Episode elevations spaces between 9' Muhlenbergia rigens **BULBOUTS AND** Deer Grass TREE PLANTING Option 2 Option 1 Pittosporum crassifolium Afrocarpus gracilior Karo Fern pine Columnar shape (H: 20-25') Evergreen, fragrant flowers in spring Evergreen, no flowers, attractive foliage Shade tolerant Shade tolerant Moderate care requirements Low care requirements Recommended for narrow sidewalks Recommended for narrow sidewalks

## **Thank You**



