

**March 14, 2023**

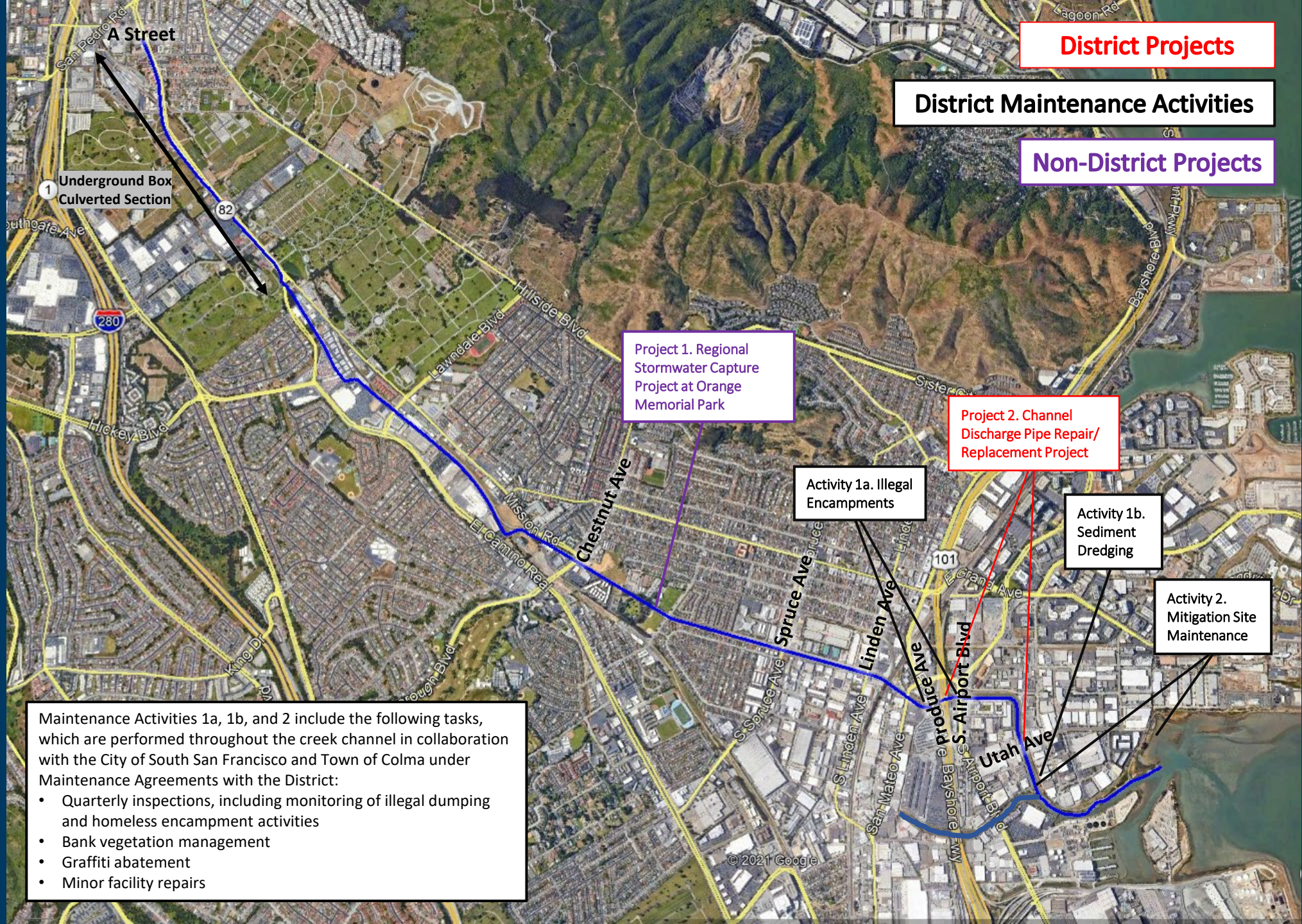
***Colma Creek Citizens Advisory Committee Meeting***

**AGENDA**

- I. Roll Call**
- II. Public Comment**
- III. Action to set the Agenda and approve the Consent Agenda**
  - a. Approve minutes of the December 13, 2022 meeting**
- IV. Update on Colma Creek Flood Zone Projects and Maintenance Activities**
- V. Presentation by Hassell providing an overview of their Colma Creek Schematic Design**
- VI. Adjournment**

# Agenda Item 4

## Update on Colma Creek Flood Zone Projects and Maintenance Activities



**District Projects**

**District Maintenance Activities**

**Non-District Projects**

1 Underground Box Culverted Section

Project 1. Regional Stormwater Capture Project at Orange Memorial Park

Project 2. Channel Discharge Pipe Repair/ Replacement Project

Activity 1a. Illegal Encampments

Activity 1b. Sediment Dredging

Activity 2. Mitigation Site Maintenance

Maintenance Activities 1a, 1b, and 2 include the following tasks, which are performed throughout the creek channel in collaboration with the City of South San Francisco and Town of Colma under Maintenance Agreements with the District:

- Quarterly inspections, including monitoring of illegal dumping and homeless encampment activities
- Bank vegetation management
- Graffiti abatement
- Minor facility repairs

Appendix A  
Map of Colma Creek Flood Zone Projects and Maintenance Activities

# Agenda Item 5

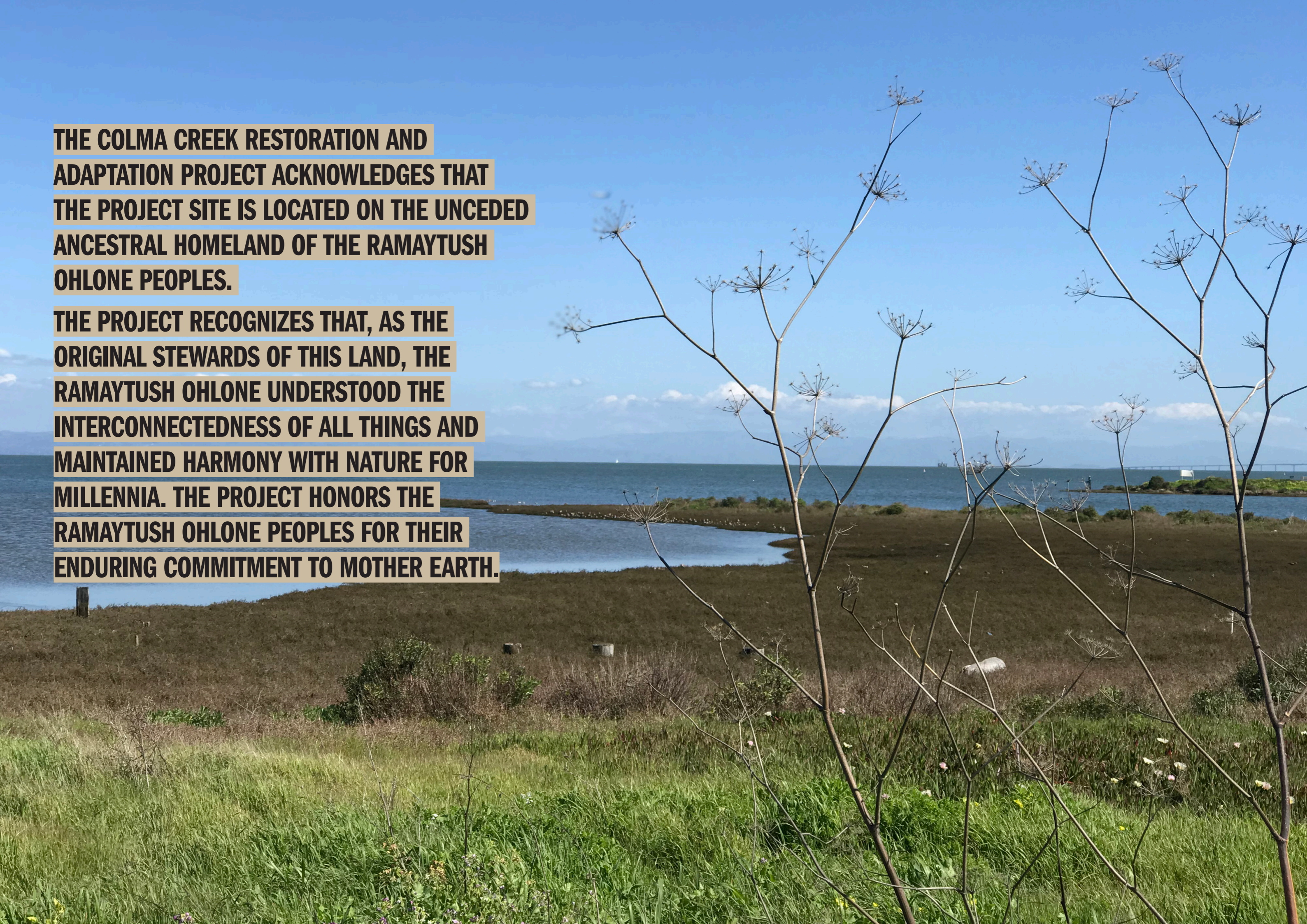
Presentation by Hassell providing an overview  
of their Colma Creek Schematic Design

# COLMA CREEK RESTORATION & ADAPTATION PROJECT



**THE COLMA CREEK RESTORATION AND ADAPTATION PROJECT ACKNOWLEDGES THAT THE PROJECT SITE IS LOCATED ON THE UNCEDED ANCESTRAL HOMELAND OF THE RAMAYTUSH OHLONE PEOPLES.**

**THE PROJECT RECOGNIZES THAT, AS THE ORIGINAL STEWARDS OF THIS LAND, THE RAMAYTUSH OHLONE UNDERSTOOD THE INTERCONNECTEDNESS OF ALL THINGS AND MAINTAINED HARMONY WITH NATURE FOR MILLENNIA. THE PROJECT HONORS THE RAMAYTUSH OHLONE PEOPLES FOR THEIR ENDURING COMMITMENT TO MOTHER EARTH.**



# AGENDA

1. PROJECT BACKGROUND

2. COLMA CREEK RESTORATION AND ADAPTATION PROJECT

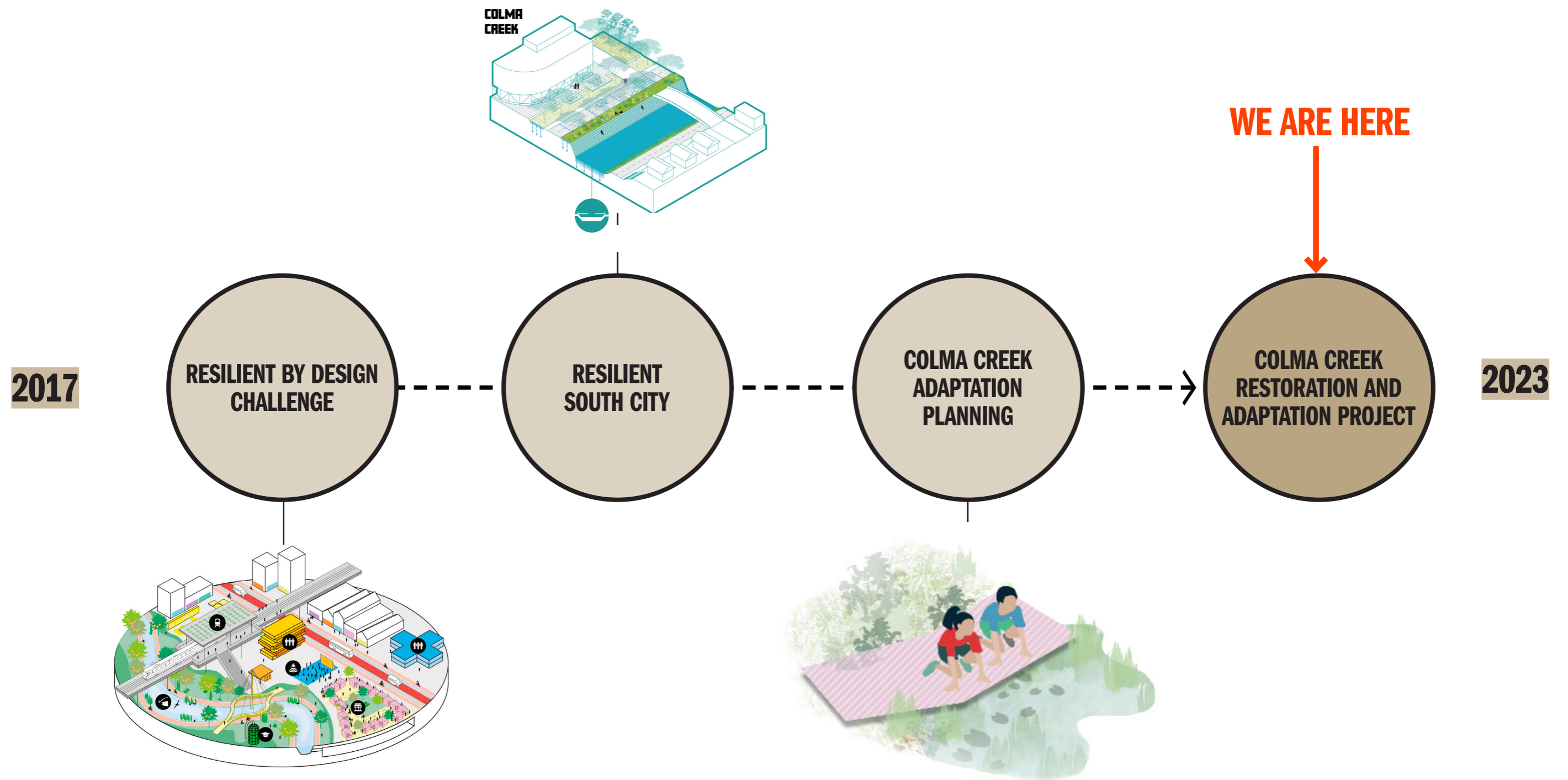
3. SCHEMATIC DESIGN PROPOSALS

4. PUBLIC ENGAGEMENT

5. QUESTIONS

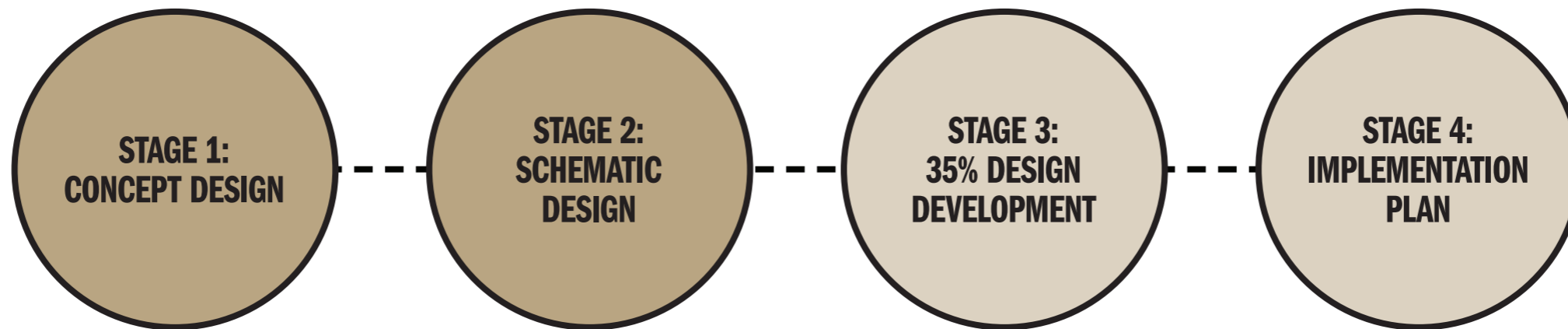


# PROJECT BACKGROUND



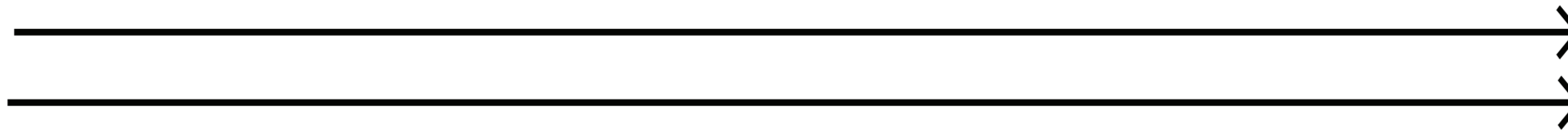
# RESTORATION AND ADAPTATION PROJECT

**WE ARE HERE**



**STAKEHOLDER ENGAGEMENT**

**PUBLIC ENGAGEMENT**



# PROJECT AIMS

## A HABITAT-LED PROJECT

THE COLMA CREEK RESTORATION & ADAPTATION PROJECT AIMS TO RESTORE & EXPAND TIDAL AND SUB-TIDAL HABITAT FOR THE ENDANGERED RIDGWAY'S RAIL. BY DOING THIS, THE PROJECT WILL CREATE A CRITICAL "STEPPING STONE" HABITAT IN THE CENTRAL BAY FOR THIS IMPORTANT SPECIES.

as part of a Habitat Project



**FLOOD  
MANAGEMENT**



**PUBLIC  
ACCESS**



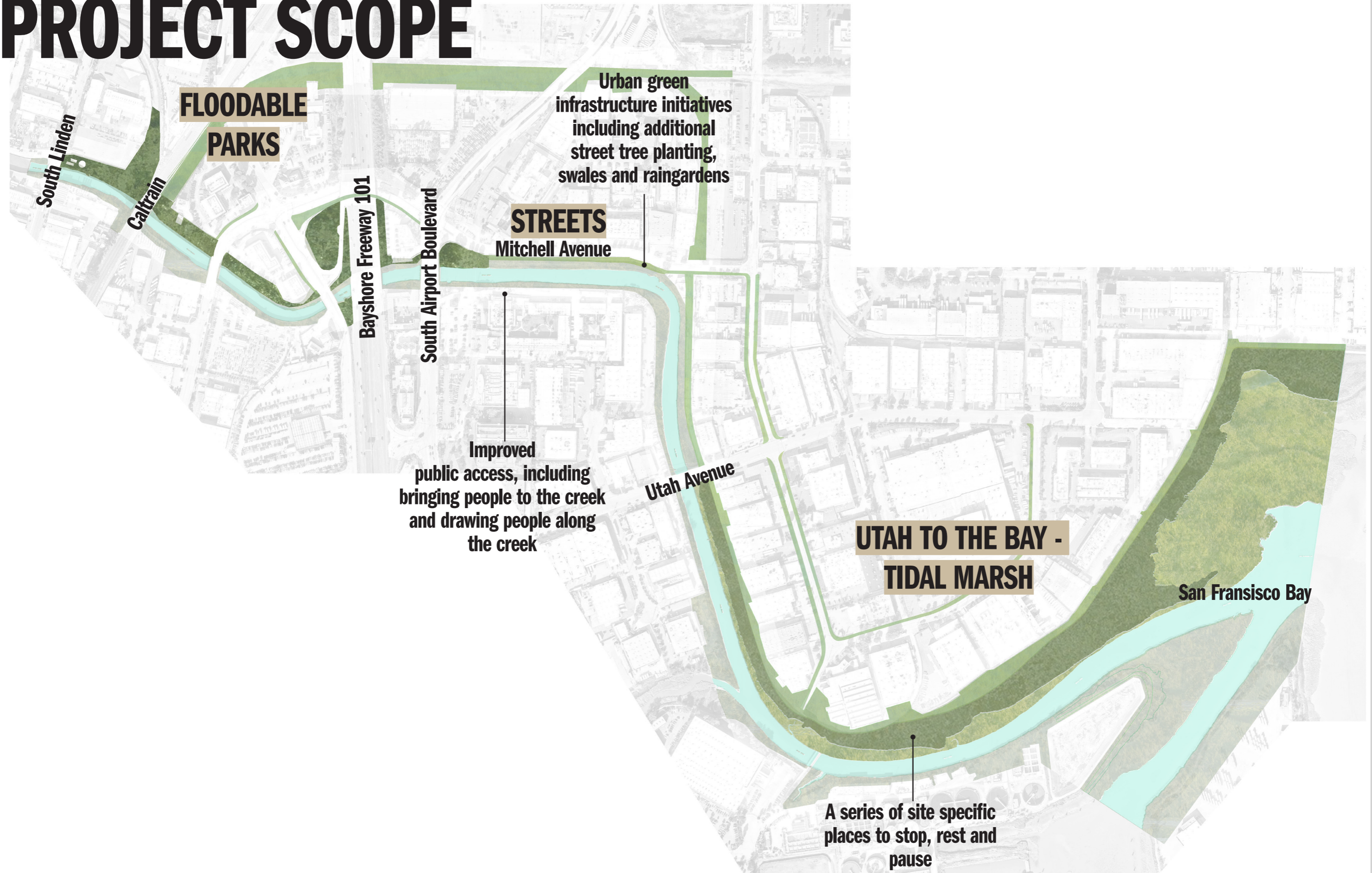
**CLEAN WATER  
& POLLUTION  
PREVENTION**



**ONGOING  
STEWARDSHIP  
& PUBLIC  
ENGAGEMENT**



# PROJECT SCOPE



**FLOODABLE  
PARKS**

Urban green  
infrastructure initiatives  
including additional  
street tree planting,  
swales and raingardens

**STREETS**  
Mitchell Avenue

Improved  
public access, including  
bringing people to the creek  
and drawing people along  
the creek

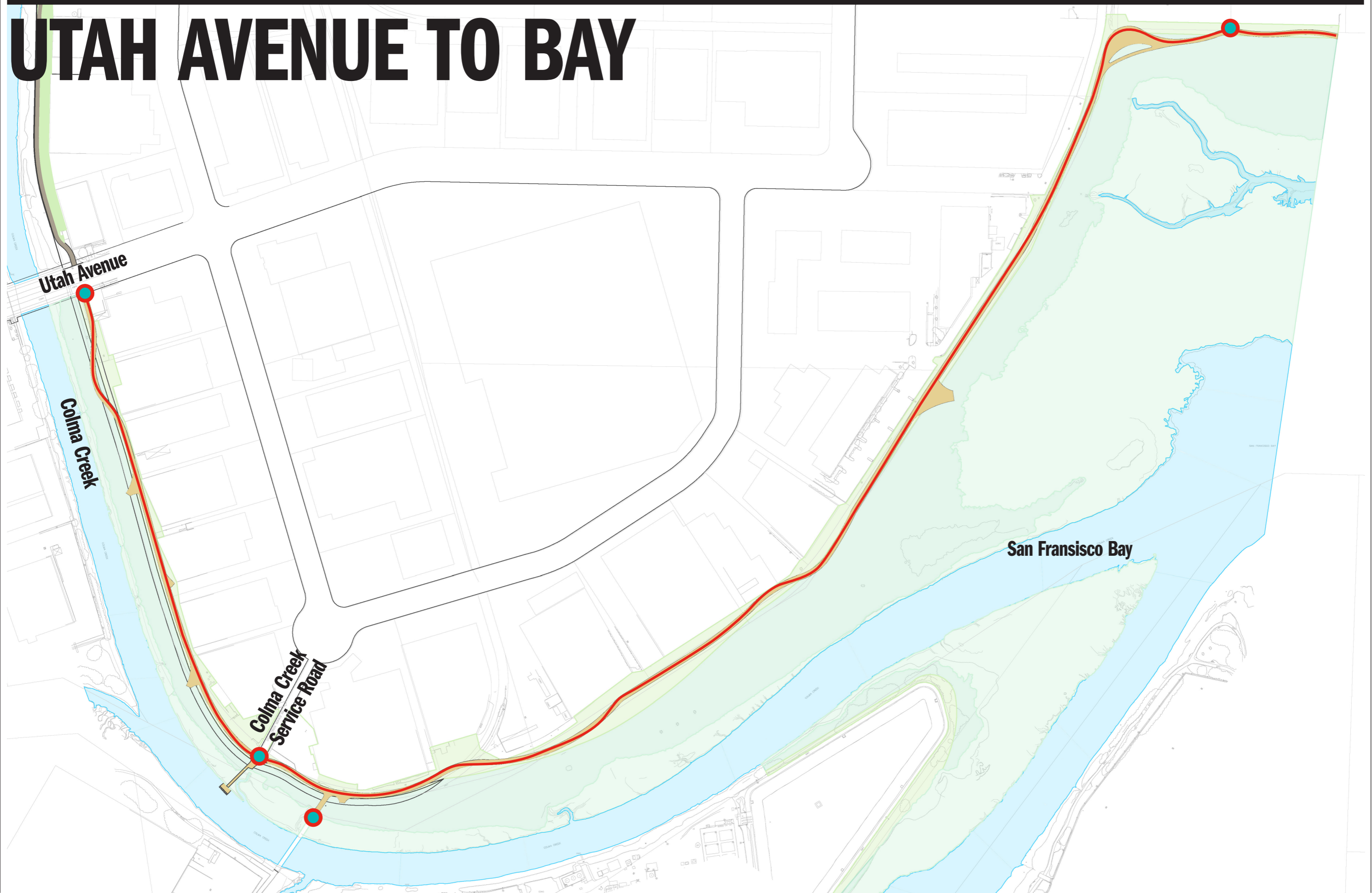
**UTAH TO THE BAY -  
TIDAL MARSH**

San Francisco Bay

A series of site specific  
places to stop, rest and  
pause



# UTAH AVENUE TO BAY



Utah Avenue

Colma Creek

Colma Creek  
Service Road

San Francisco Bay

# UTAH TO BAY



# UTAH TO BAY



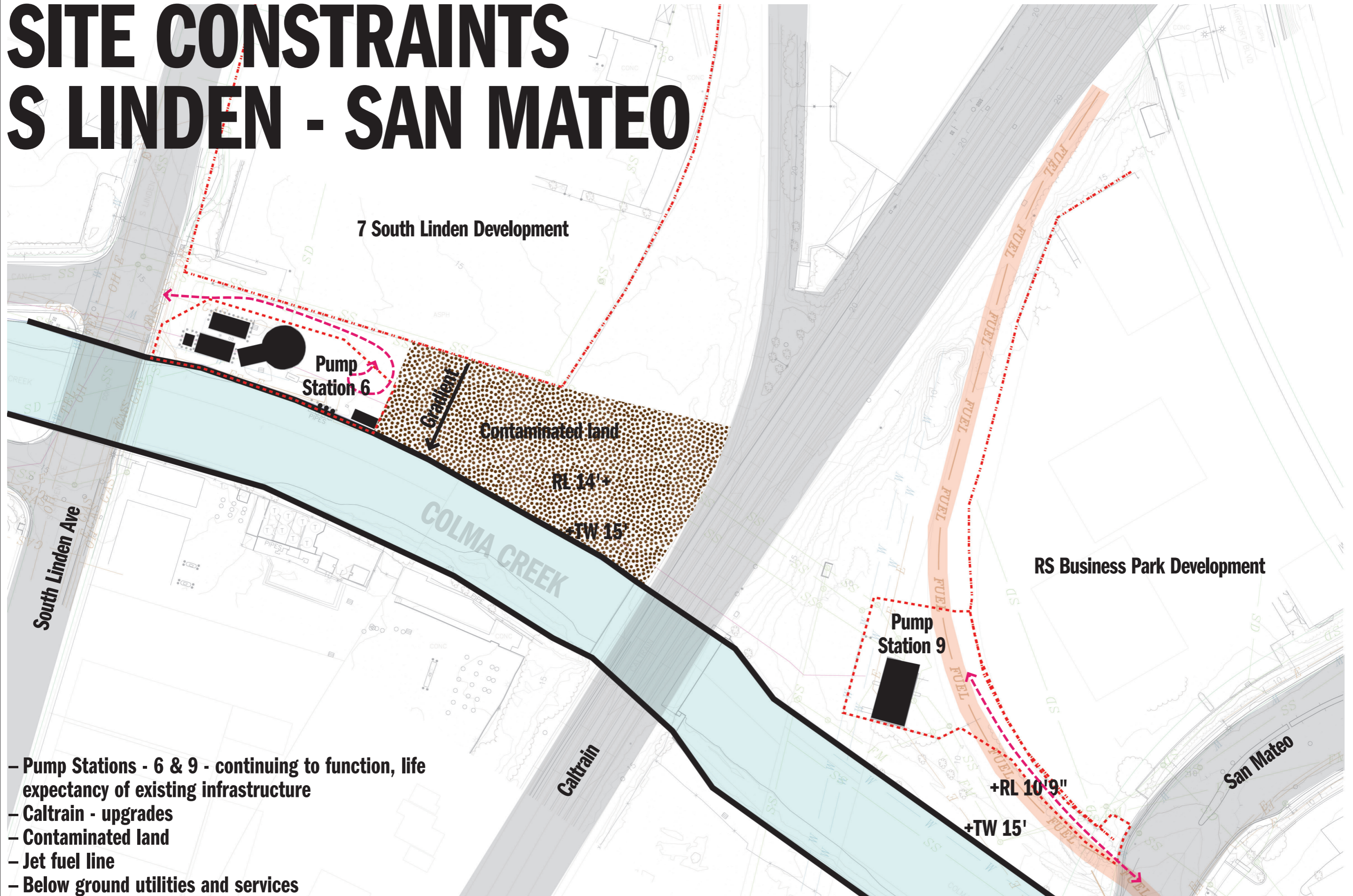
# UTAH TO BAY



# FLOODABLE PARKS



# SITE CONSTRAINTS S LINDEN - SAN MATEO

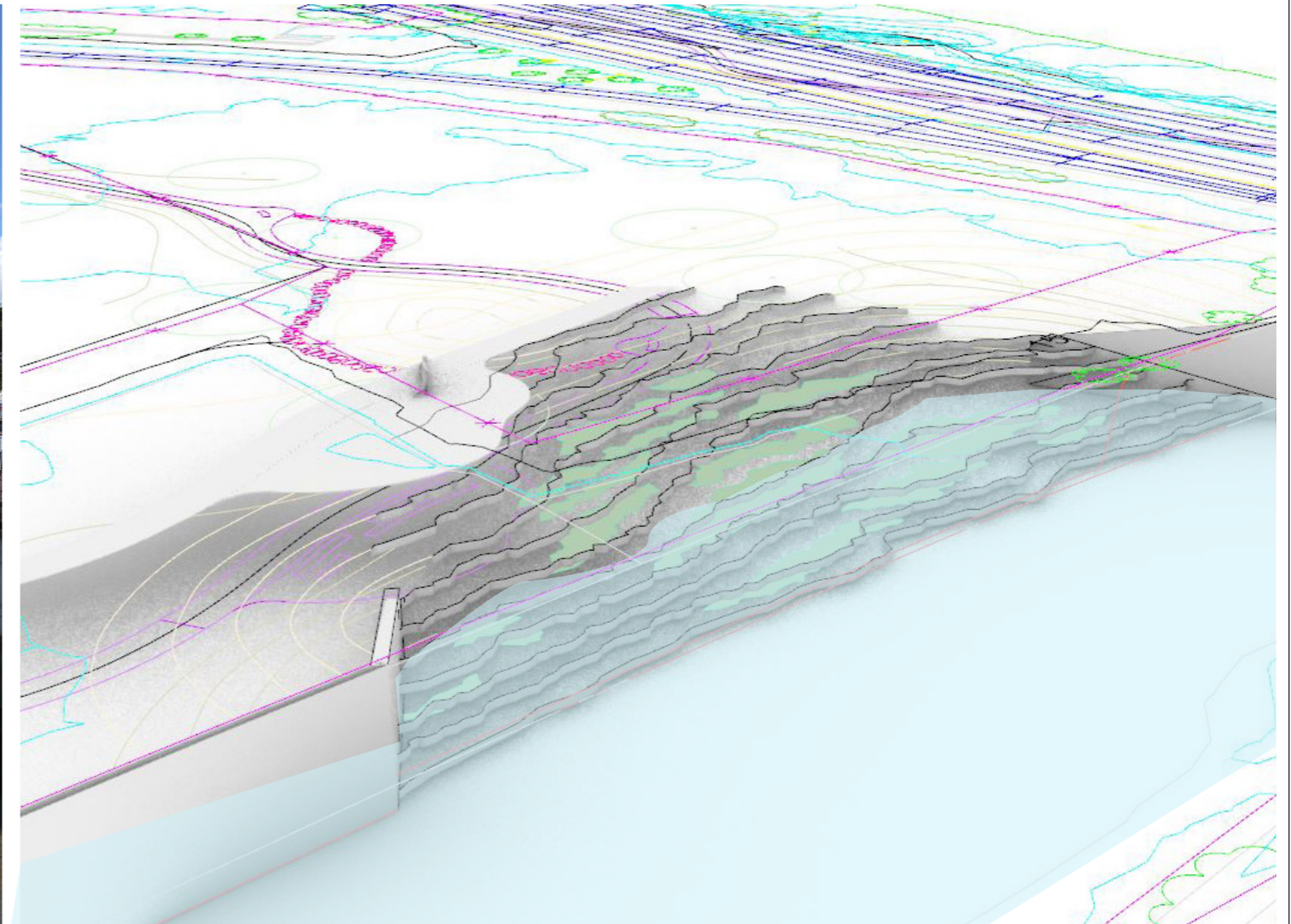


- Pump Stations - 6 & 9 - continuing to function, life expectancy of existing infrastructure
- Caltrain - upgrades
- Contaminated land
- Jet fuel line
- Below ground utilities and services

# FLOODABLE PARKS - A PHASED APPROACH

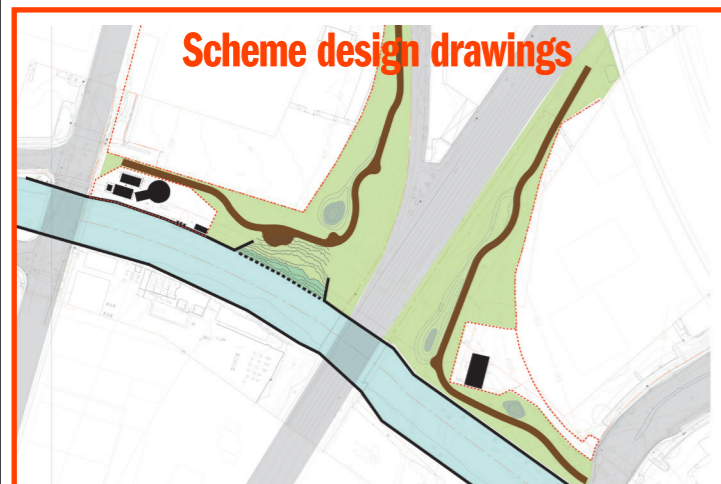


**Partial removal of existing flood wall**



**Incremental naturalising of the creek edge through the creation of creek terraces**

# FLOODABLE PARKS - A PHASED APPROACH



Phase 2 - Pump station 6 re-located



Phase 3 - Pump station 9 re-located

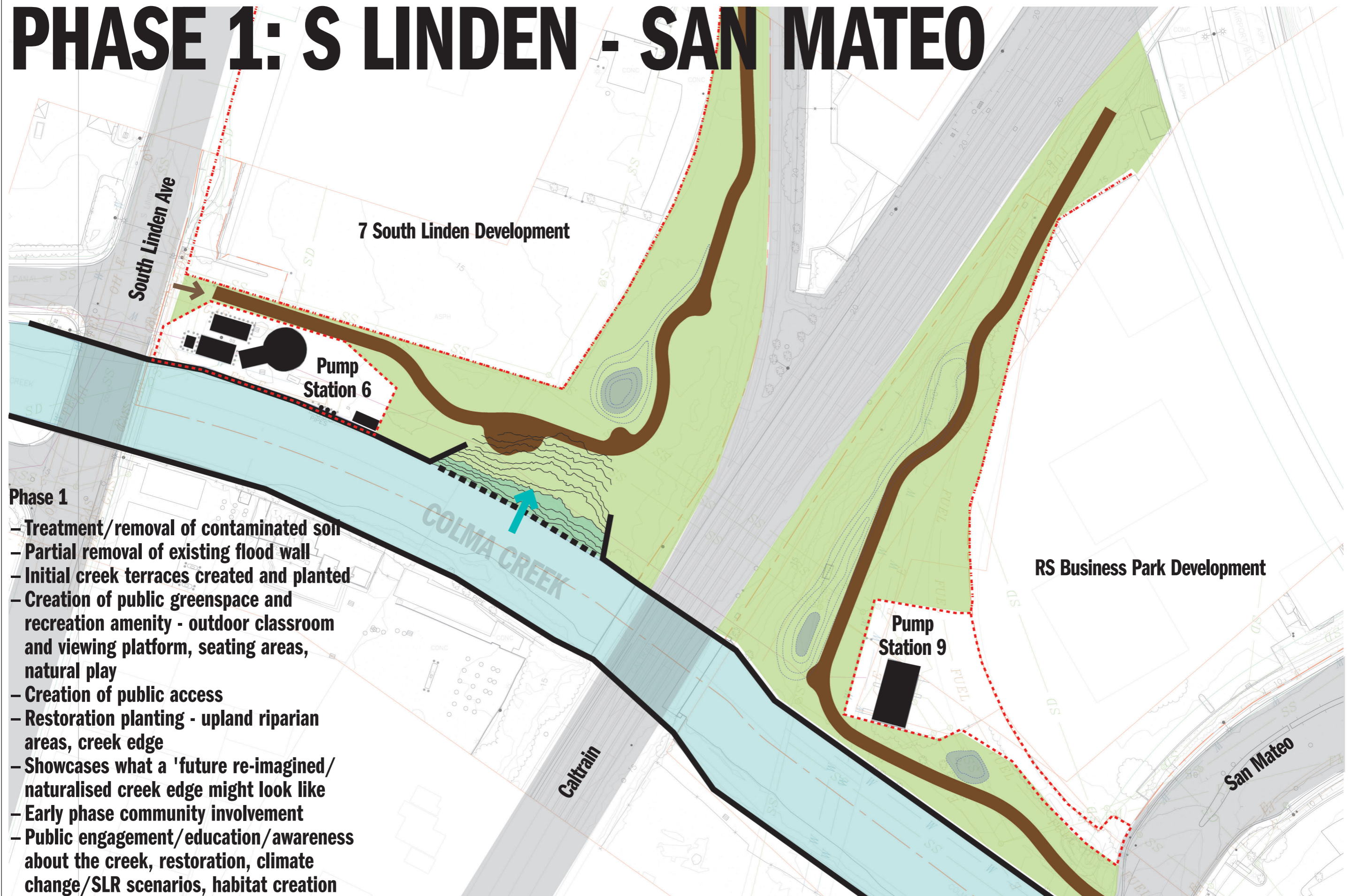


Phase 4 - Caltrain upgrades

Phase 1 - An immediate project opportunity

- Treatment/removal of contaminated soil
- Partial removal of existing flood wall
- Initial creek terraces created and planted
- Creation of public greenspace and recreation amenity - outdoor classroom and viewing platform, seating areas, natural play
- Creation of public access
- Restoration planting - upland riparian areas, creek edge
- Showcases what a 'future re-imagined/naturalised creek edge might look like
- Public engagement/education/awareness about the creek, restoration, climate change/SLR scenarios, habitat creation

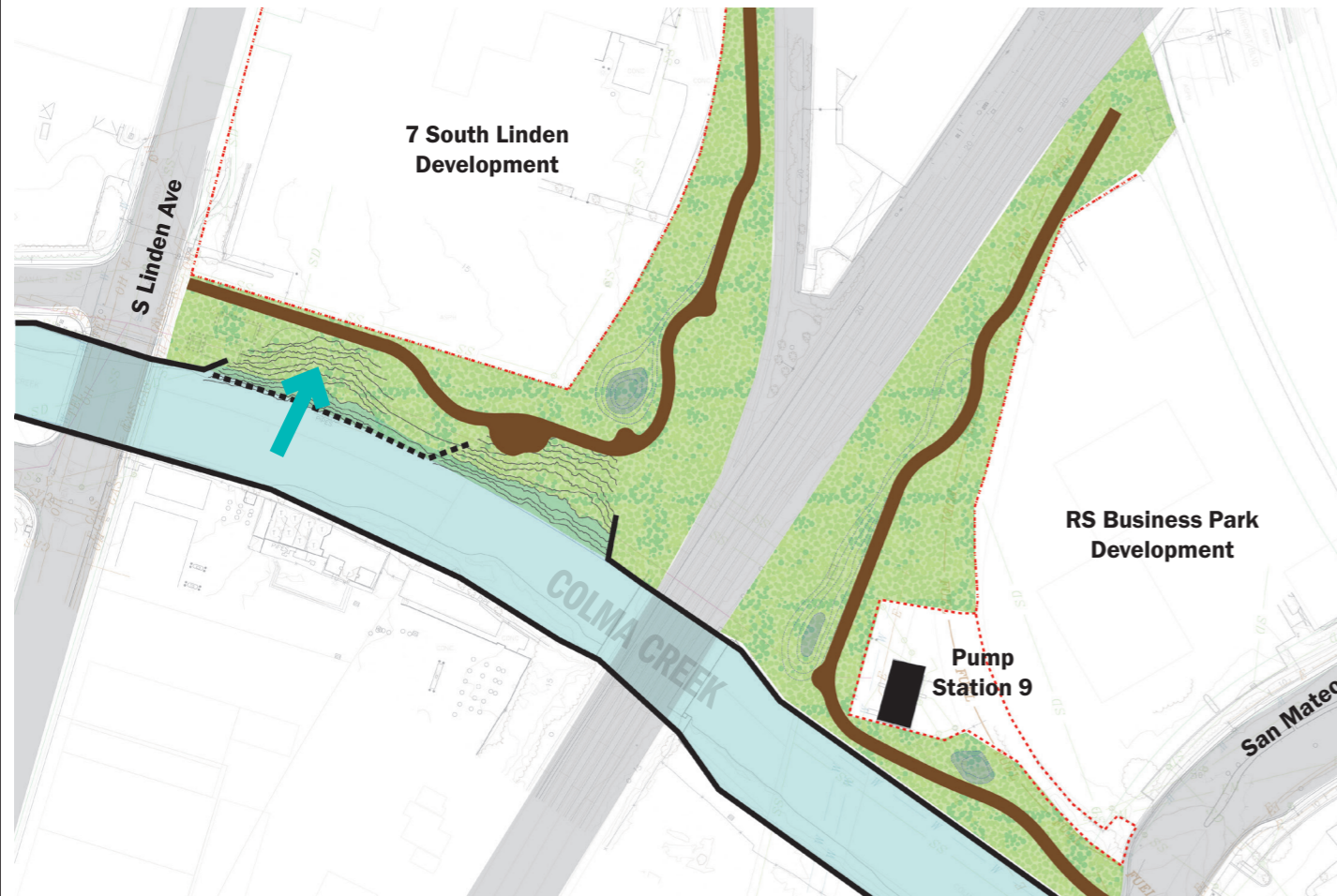
# PHASE 1: S LINDEN - SAN MATEO



## Phase 1

- Treatment/removal of contaminated soil
- Partial removal of existing flood wall
- Initial creek terraces created and planted
- Creation of public greenspace and recreation amenity - outdoor classroom and viewing platform, seating areas, natural play
- Creation of public access
- Restoration planting - upland riparian areas, creek edge
- Showcases what a 'future re-imagined/naturalised creek edge might look like
- Early phase community involvement
- Public engagement/education/awareness about the creek, restoration, climate change/SLR scenarios, habitat creation

# PHASE 2



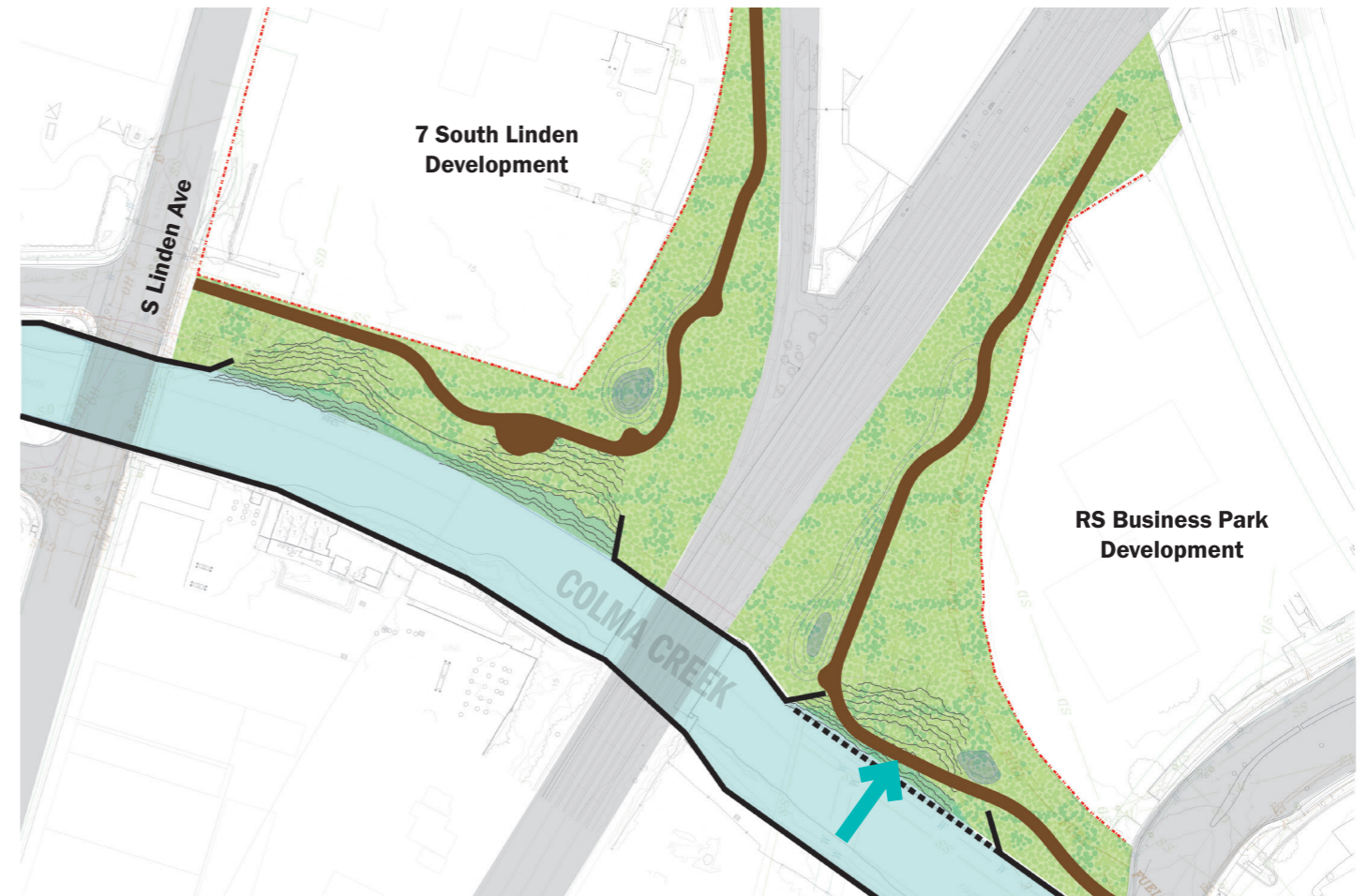
## PHASE 2 - PUMP STATION 6 RE-LOCATED

- Second section of existing flood wall removed
- Second set of creek terraces created
- S Linden to Caltrain creek 'naturalised'

### Timeframe considerations:

- redevelopment of Lindenville specific plan
- City-wide infrastructure upgrades

# PHASE 3



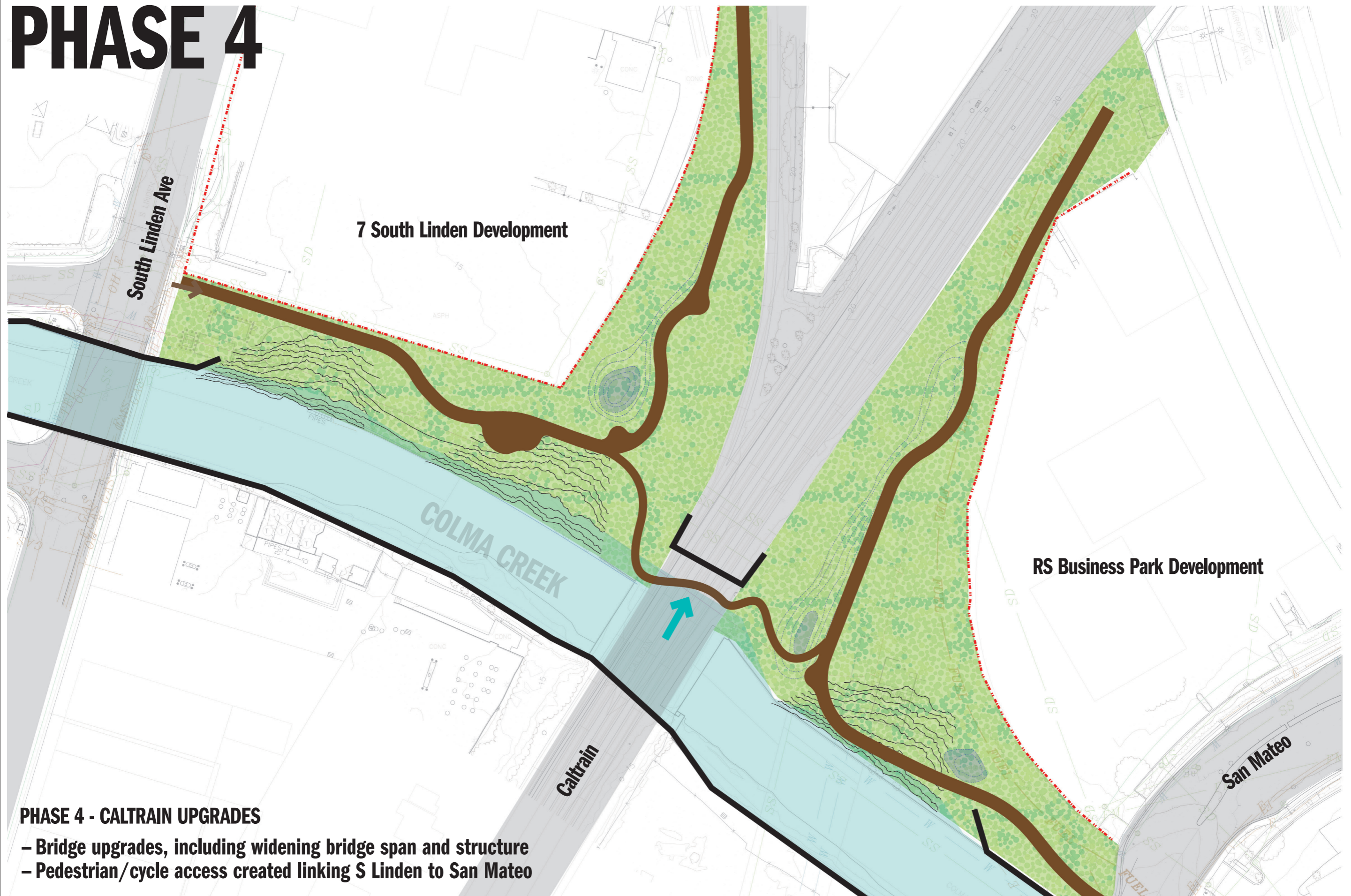
## PHASE 3 - PUMP STATION 9 RE-LOCATED

- Third section of flood wall removed
- Creek terraces created

### Timeframe considerations:

- 2034 (30 years after upgrade)
- Floodwall lifespan

# PHASE 4



## PHASE 4 - CALTRAIN UPGRADES

- Bridge upgrades, including widening bridge span and structure
- Pedestrian/cycle access created linking S Linden to San Mateo

# FLOODABLE PARKS



# PHASE 1: S LINDEN - CALTRAIN

Natural play features

Creation of riparian features including swales and small ponds

Smaller seating areas

Upland restoration & planting

Public access from S Linden Ave

Outdoor classroom & viewing platform

Creek terraces



# PHASE 1: S LINDEN - CALTRAIN



# PHASE 1: S LINDEN - CALTRAIN HIGH TIDE



# PHASE 1: S LINDEN - CALTRAIN



# PHASE 1: MITCHELL AVE



# PHASE 1: MITCHELL AVE



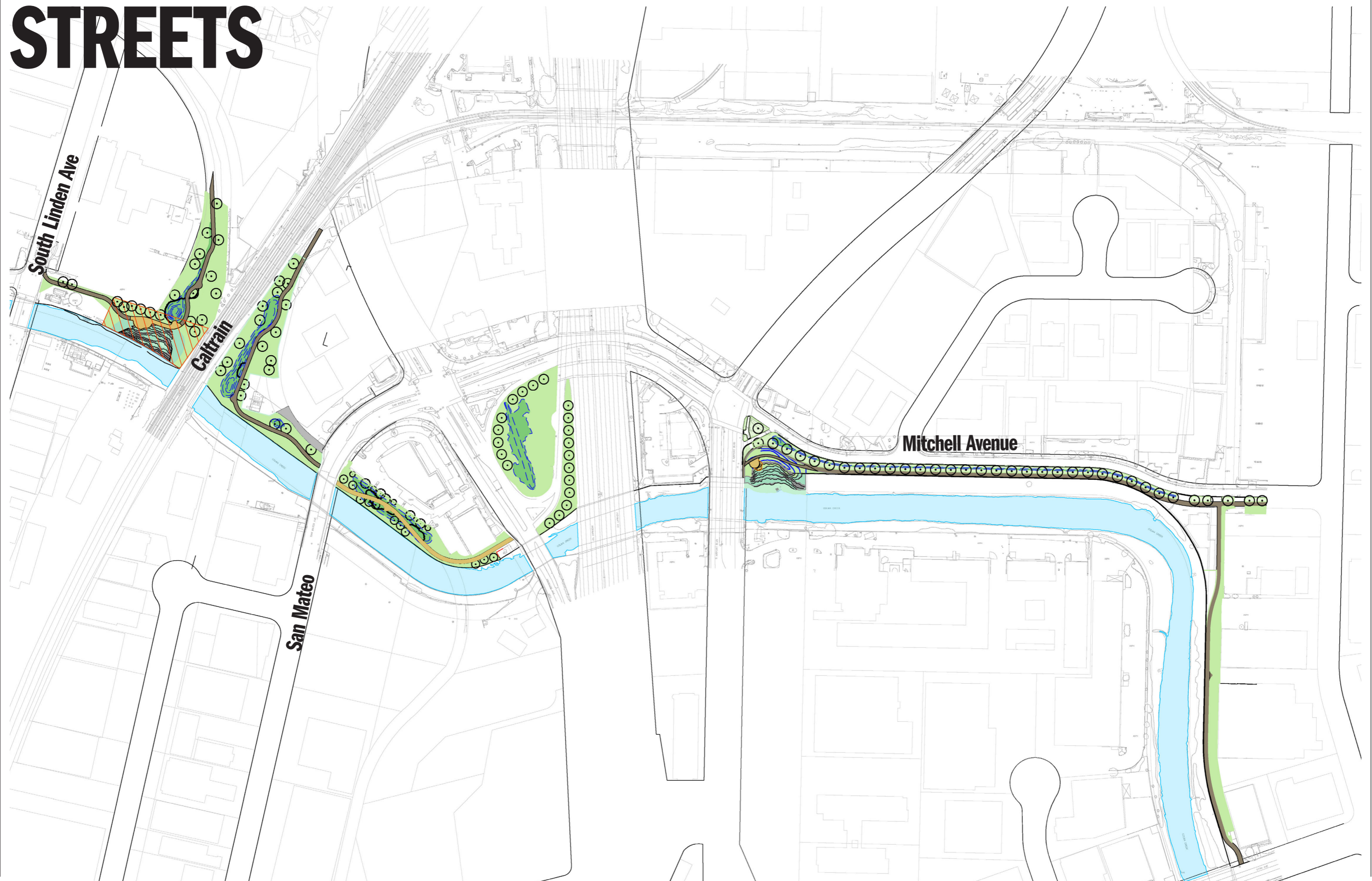
# PHASE 1: MITCHELL AVE HIGH TIDE



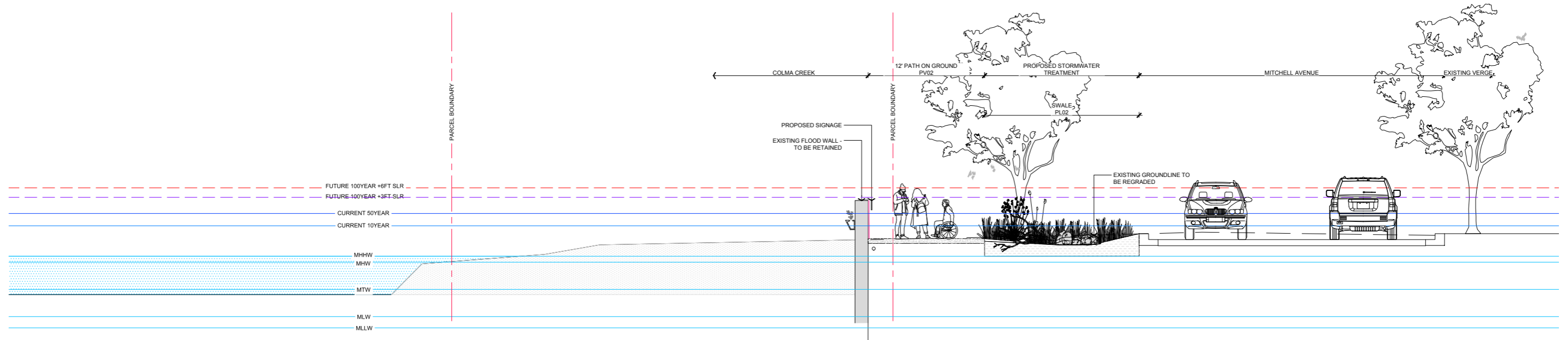
# PHASE 1: MITCHELL AVE HIGH TIDE



# STREETS



# STREETS



# PUBLIC ENGAGEMENT



*Myotis*

*Heliotropium curassavicum*

*Amynkia menziensis*

*Jaumea carnosa*

*Sturnella maritima*

*Symphiotrichum chilensis*

*Grindelia stricta* var. *angustata*

*Frankenia salina*

*Peromyscus*

*Distichlis spicata*

*Rallus triticoideus*

*Rallus*

*Artemisia douglasiana*

*Sturnella maritima*

*Rallus*

# VOLUNTEER



Hassell



The Association of Ramaytush Ohlone



Join us to start the regeneration process of Colma Creek. We will be having three volunteering days in the coming weeks and we'd love your help!

Bring a hat, a waterbottle, sunscreen, and gardening gloves if you have them!

Volunteer dates will be Saturdays February 12th, 19th and 26th.



CONNECT WITH US ON SOCIAL MEDIA TO LEARN MORE



## REGENERATION IN PROGRESS

To launch the next stage of the Colma Creek Restoration & Adaptation Project, Hassell in partnership with the City of South San Francisco, Mission Blue Nursery, The Association of Ramaytush Ohlone (ARO) and San Francisco Estuary Institute are establishing a series of test planting areas demonstrating the projects restoration ambitions.

As part of this initiative, we have planned a number of volunteer community planting days, alongside a program of educational workshops and outdoor classrooms designed to involve local residents, schools and youth. Working closely with The Association of Ramaytush Ohlone and Mission Blue Nursery, these activities will give us the opportunity to engage with original people's perspectives and traditional knowledge as well as providing hands-on experience in ecological restoration processes.

Importantly, this planting will physically demonstrate the beginning of the projects restoration of various habitats critical to its long-term success. With enough work and care we can regenerate the Colma Creek area to be a biodiverse haven - a place for all creatures to thrive, including you!



## PROGRESO NG PAGBABAGONG-BUHAY

Upang mailunsad ang susunod na yugto ng proyektong pagpapanumbalik at paghalaw ng Colma Creek, ang Hassell, kasama ang lungsod ng San Francisco, Mission Blue Nursery, The Association of Ramaytush Ohlone (ARO) at ang San Francisco Estuary Institute ay magtatag ng mga hanay ng susubukang lugar na pagtataniman bilang pagpapakita ng hangarin ng proyekto na pagpapanumbalik nito.

Bilang bahagi ng pagkukusang ito, nagplano kami ng mga araw ng boluntaryong pagtatanim sa pamayanan, kaagapay ang programa ng workshop na pang-edukasyon at panlabas na silid-aralan na dinisenyo upang maisangkot ang mga lokal na residente, paaralan, at mga kabataan.

Sa pagtatrabaho kasama ang The Association of Ramaytush Ohlone at Mission Blue Nursery, itong mga aktibidad na ito ay makakapagbigay sa amin ng pagkakataon upang makasundo ang pananaw at nakaugaliang karunungan ng mga taong nakatira doon at dagdag na rin ang pagkaloob ng aktuwal na karanasan sa proseso ng pagpapanumbalik ng ekolohiya.

Ang pinakamakabuluhan dito, itong pagtatanim ay pisikal na makapagpapakita ng simula sa pagpapanumbalik ng proyekto sa iba't-ibang uri ng tirahan, na napakalahalaga sa pangmatagalang tagumpay nito.

Sa sapat na paguugnayan at pangangalaga, kaya natin tulungan i-angat ang pagbabagong-buhay ng Colma Creek, upang ito'y maging tuluyan para sa ibat ibang klase na mga halaman at hayop - lugar para sa lahat na umuunlad na nilalang, kasama ang mga madlang tao!



IF YOU'RE READING THIS WE'D LOVE IF YOU SHARED THE GROWTH PROGRESS OF THE PLANTS BY TAKING A PHOTO AND SHARING IT ON INSTAGRAM OR FACEBOOK

MORE INFO ON OUR PAGE

KUNG NABABASA NYO ITO, GUSTO NAMING IHINGIN ANG INYONG TULONG SA PATULOY NG PAGPROGRESO NG MGA TANIM, SA PARAANG PAGBABAGAHANG MGA LETRATO O ANO MANG MGA UPDATE SA AMING INSTAGRAM O FACEBOOK PAGES.

WAG KALIMUTAN MAKIPAG-UGNAYAN SA AMIN SA SOCIAL MEDIA PARA SA IBA PANG IMPORMASYON AT PARA MATUTO PA.

SI ESTÁS LEYENDO ESTO, NOS ENCANTARÍA QUE COMPARTIERAS EL CRECIMIENTO Y PROGRESO DE LAS PLANTAS COMPARTIENDO UNA FOTO Y ETIQUETÁNDONOS EN INSTAGRAM O FACEBOOK

MÁS INFORMACIÓN EN NUESTRAS REDES SOCIALES.

@COLMACREEK

COLMACREEKRESTORATIONANDADAPTATION

## REGENERACIÓN EN PROGRESO

Para el lanzamiento de la próxima etapa del Proyecto de Restauración y Adaptación de Colma Creek, Hassell, en asociación con la Ciudad del Sur de San Francisco, Mission Blue Nursery, The Association of Ramaytush Ohlone (ARO) y San Francisco Estuary Institute están estableciendo una serie de áreas de plantación de prueba para demostrar las ambiciones de restauración del proyecto.

Como parte de esta iniciativa, hemos planificado varios días de plantación comunitaria voluntaria, junto con un programa de talleres educativos y aulas al aire libre diseñadas para involucrar a los residentes locales, las escuelas y a los jóvenes.

Al trabajar en estrecha colaboración con The Association of Ramaytush Ohlone y Mission Blue Nursery, estas actividades nos darán la oportunidad de relacionarnos con las perspectivas de las personas indígenas y el conocimiento tradicional, así como brindar experiencia práctica en los procesos de restauración ecológica.

Es importante destacar que esta plantación demostrará físicamente el comienzo de los proyectos de restauración de varios habitats, fundamental para su éxito a largo plazo.

Con suficiente trabajo y cuidado, podemos regenerar el área de Colma Creek para que sea un refugio para la biodiversidad, un lugar para que todos los seres vivos prosperen, incluido usted!



**VOLUNTEER DAY - 26.2.22**

**INVASIVE SPECIES REMOVAL + PLANTING DAY**

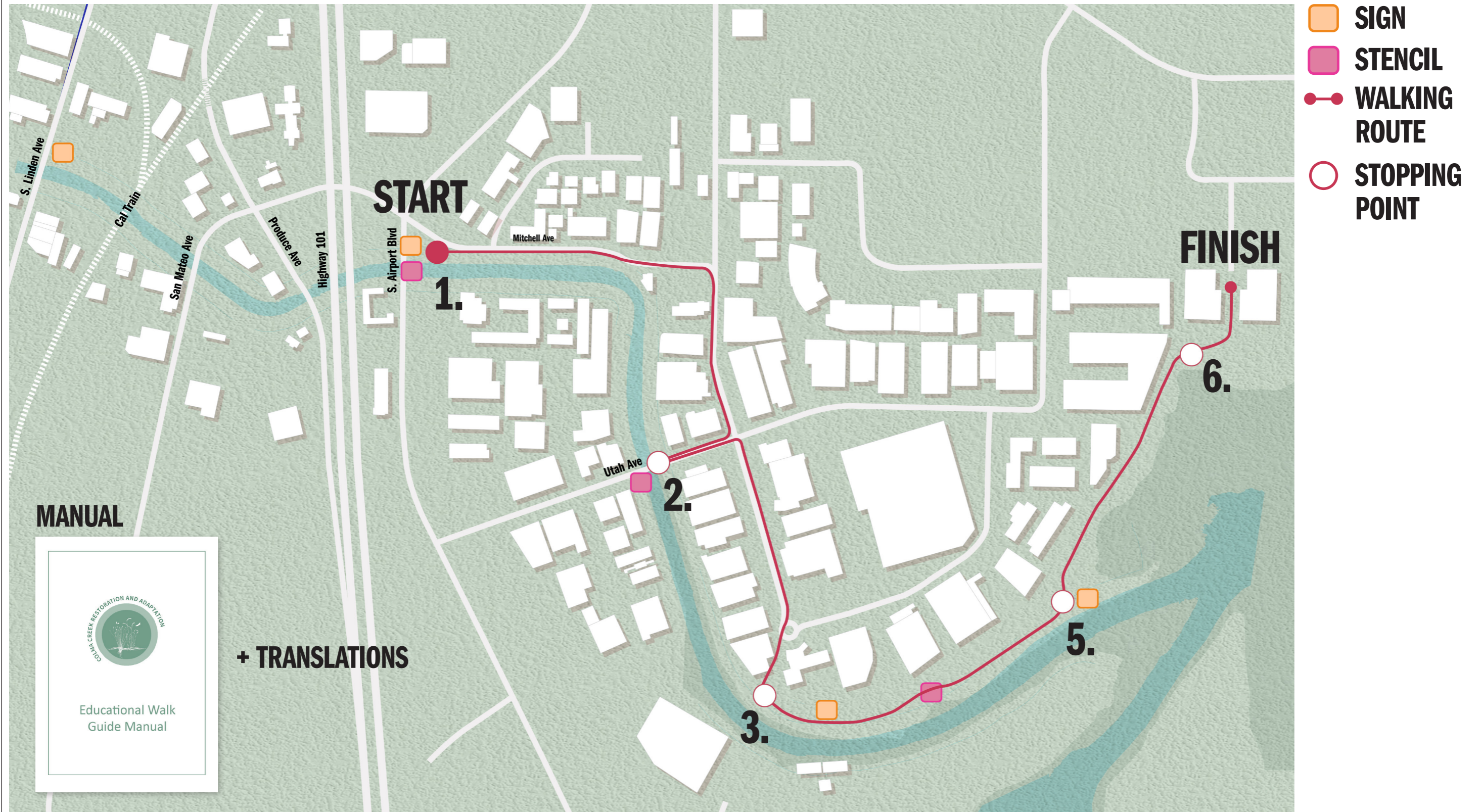
**"WE HAD A LOVELY TIME ON  
SATURDAY! THE GROUP PLANTED 195  
PLANTS IN THE DRY MEADOW AND  
CONTINUED WORKING ON THE ICE  
PLANT REMOVAL"**

**ARIEL**



# EDUCATIONAL WALKS

(DIGITAL AND IN PERSON)



# COMMUNITY ENGAGEMENT CONTENT

## ON-SITE SIGNAGE

### ENGLISH

### REGENERATION IN PROGRESS

To launch the next stage of the Colma Creek Restoration & Adaptation Project, Hassell in partnership with the City of South San Francisco, Mission Blue Nursery, The Association of Ramaytsh Ohlone (ARO) and San Francisco Estuary Institute are establishing a series of test planting areas demonstrating the projects restoration ambitions.

As part of this initiative, we have planned a number of volunteer community planting days, alongside a program of educational workshops and outdoor classrooms designed to involve local residents, schools and youth.

Working closely with The Association of Ramaytsh Ohlone and Mission Blue Nursery, these activities will give us the opportunity to engage with original people's perspectives and traditional knowledge as well as providing hands-on experience in ecological restoration processes.

Importantly, this planting will physically demonstrate the beginning of the projects restoration of various habitats critical to its long-term success. With enough work and care we can regenerate the Colma Creek area to be a biodiverse haven - a place for all creatures to thrive, including you!

**IF YOU'RE READING THIS WE'D LOVE IF YOU SHARED THE GROWTH PROGRESS OF THE PLANTS BY TAKING A PHOTO AND SHARING IT ON INSTAGRAM OR FACEBOOK**

**MORE INFO ON OUR PAGE**

[@colmacreek](#)

[#colmacreek](#)

### SPANISH

### REGENERACIÓN EN PROGRESO

Para el lanzamiento de la próxima etapa del Proyecto de Restauración y Adaptación de Colma Creek, Hassell, en asociación con la Ciudad del Sur de San Francisco, Mission Blue Nursery, The Association of Ramaytsh Ohlone (ARO) y San Francisco Estuary Institute están estableciendo una serie de áreas de plantación de prueba para demostrar las ambiciones de restauración del proyecto.

Como parte de esta iniciativa, hemos planificado varios días de plantación comunitaria voluntaria, junto con un programa de talleres educativos y aulas al aire libre diseñadas para involucrar a los residentes locales, las escuelas y a los jóvenes.

Al trabajar en estrecha colaboración con The Association of Ramaytsh Ohlone y Mission Blue Nursery, estas actividades nos dan la oportunidad de relacionarnos con las perspectivas de las personas indígenas y el conocimiento tradicional, así como brindar experiencia práctica en los procesos de restauración ecológica.

Es importante destacar que esta plantación demostrará físicamente el comienzo de los proyectos de restauración de varios hábitats, fundamental para su éxito a largo plazo.

Con suficiente trabajo y cuidado, podemos regenerar el área de Colma Creek para que sea un refugio para la biodiversidad, un lugar para que todos los seres vivos prosperen, incluido usted!

**SI ESTÁS LEYENDO ESTO, NOS ENCANTARÍA QUE COMPARTIERAS EL CRECIMIENTO Y PROGRESO DE LAS PLANTAS COMPARTIENDO UNA FOTO Y ETIQUETÁNDONOS EN INSTAGRAM O FACEBOOK**

**MÁS INFORMACIÓN EN NUESTRAS REDES SOCIALES.**

[@colmacreek](#)

[#colmacreek](#)

### TAGALOG

### PROGRESO NG PAGBABAGONG-BUHAY

Upang malansad ang susunod na yugto ng proyektong pagpapambalik at paghahwal ng Colma Creek, ang Hassell, kasama ang lungsod ng San Francisco, Mission Blue Nursery, The Association of Ramaytsh Ohlone (ARO) at ang San Francisco Estuary Institute ay magtatag ng mga hanay ng sunuhang lugar na pagtatanim bilang pagpapakita ng hangarin ng proyektong pagpapambalik nito.

Hilang bahagi ng pagkakasag ito, nagplano kami ng mga araw ng boluntaryong pagtatanim sa panayasan, kaagapay ang programa ng workshop na pang-ukapayon at panlabas na silid-aralan na dinisenyo upang maangkop ang mga lokal na residente, paaralan, at mga kabataan.

Sa pagtatrabaho kasama ang The Association of Ramaytsh Ohlone at Mission Blue Nursery, itong mga aktibidad na ito ay makakapagbigay sa amin ng pagkakataon upang makausap ang panunaw at nakangalang karunungan ng mga taong nakatira doon at dagdag na rin ang pagkakaalob ng aktuwal na karamasan sa proyektong pagpapambalik ng ekolohiya.

Ang pinakamakabubuhay nito, itong pagtatanim ay pisikal na makapagpapakita ng simula sa pagpapambalik ng proyektong sa iba't-ibang uri ng tirahan, na napakalahaga sa pangangalaga ng agungay nito.

Sa sapat na pagpangayon at pangangalaga, kaya natin tulungan i-angat ang pagbabagong-buhay ng Colma Creek, isang ito'y magiging tuluyan para sa iba't ibang klase na mga halaman at hayop - lugar para sa lahat na umuunlad na nilalang, kasama ang mga maling tao!

**KUNG MABASANA NYO ITO, GUSTO NAMING IHINGI ANG IYONG TULONG SA PATULOY NG PAGBABAGONG-BUHAY NG COLMA CREEK. SA PANGALANG PAGBABAGONG-BUHAY, SA LETRATO O ANG MANG MGA UPAT SA AMING INSTAGRAM O FACEBOOK PAGES.**

**WAG KALIMUTAN! MANIPAG-IBIGYAN SA AMIN SA SOCIAL MEDIA PARA SA ISA PANG INFORMASYON AT PARA MATUTO PA.**

[@colmacreek](#)

[#colmacreek](#)

## EDUCATIONAL POSTERS TO BE DISTRIBUTED

Do you know about the creatures once lived along the banks of Colma Creek?

Plants to look closer and get involved! Scan the QR code or visit <http://colmacreek.com>

Do you know about the creatures that lived where Colma Creek meets the waters of San Francisco Bay?

Plants to look closer and get involved! Scan the QR code or visit <http://colmacreek.com>

## POSTCARDS

**SALT MARSH HARVEST MOUSE**  
*Reithrodontomys raviventris*

**RIDGWAY'S RAIL**  
*Rallus obsoletus*

**SALT MARSH HARVEST MOUSE**  
*Reithrodontomys raviventris*

**RIDGWAY'S RAIL**  
*Rallus obsoletus*

## STICKERS



# QUESTIONS



*Myotis grisescens*



*Artemisia douglasiana*

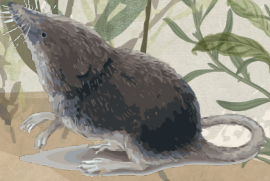


*Heliotropium curassavicum*

*Amygdalia menziesii*



*Jaumea carnosa*



*Suaeda maritima*



*Symphiotrichum chilensis*



*Grindelia stricta* var. *aperta*



*Frankenia salina*



*Ammodramus rostratus*

*Distichlis spicata*



*Actitis triticoidea*

*Rana boylei*

*Artemisia douglasiana*



*Suaeda maritima*



*Rallus obsoletus*





**Next scheduled Committee Meeting**

**Tuesday, June 13, 2023**

**3:00 p.m.**