# SUSTAINABLE INFRASTRUCTURE

**CITY OF HAYWARD** 

DOWNTOWN SPECIFIC PLAN MARCH 2017

> SHERWOOD DESIGN ENGINEERS

#### **ON-SITE OBSERVATIONS**



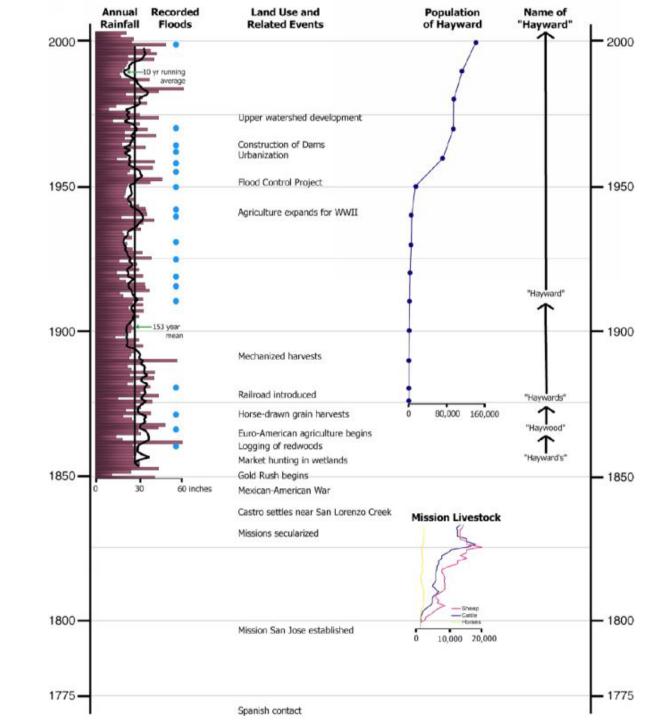








### A GEOGRAPHIC HISTORY OF SAN LORENZO CREEK WATERSHED



## **ECOLOGICAL TRANSFORMATION**

### HISTORICAL ECOLOGY

TIDAL FLAT GRASSLAND

HUCHIUN

SALT FLAT— WET MEADOW—

TIDAL MARSH WILLOW THICKET VERNAL POOL

#### ARROYO DE SAN LORENZO (PRESENT DAY HAYWARD)

TUIBUN

TAMIEN

SOUYEN

TATCAN

IRGIN (YRGIN)

\*NATIVE TRIBES OF THE EAST BAY PRE-EUROPEAN COLONIZATION

MAP SOURCES: - EASTBAYPARKS.ORG - ECOATLAS.ORG





MISSION DOLORES

### 19<sup>TH</sup> CENTURY AGRICULTURAL REVOLUTION

MISSION SAN CARLOS

LIVERMORE VALLEY

DUBLIN CANYON ROND

(PRESENT DAY HAYWARD)

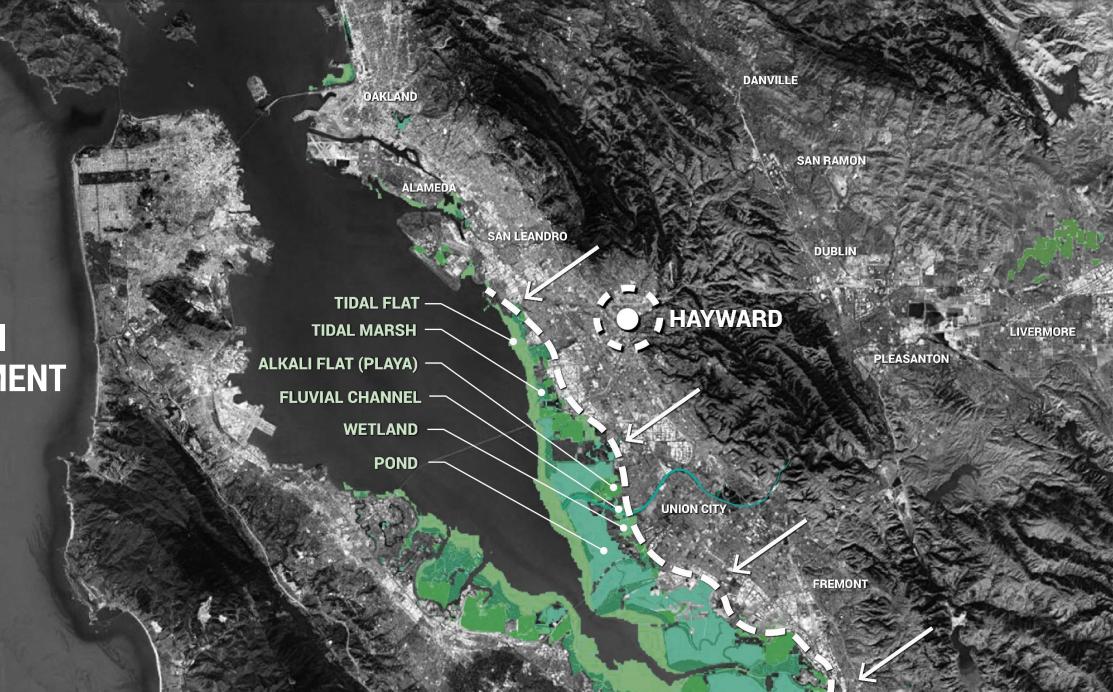
JACKSON

MISSION SAN JOSE

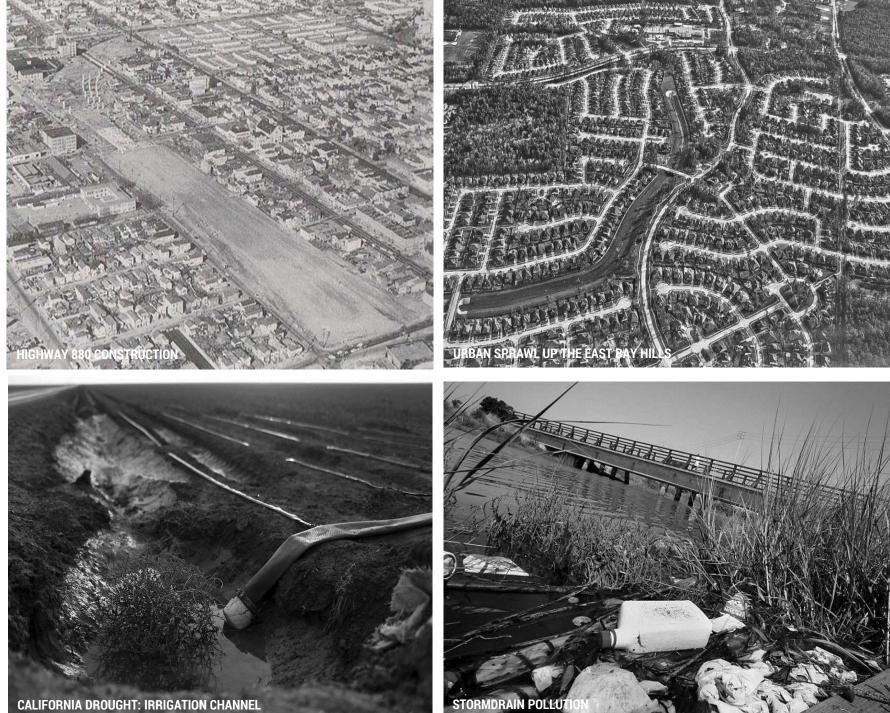
#### REIMAGINING THE WATERFRONT



### POST WWII DEVELOPMENT

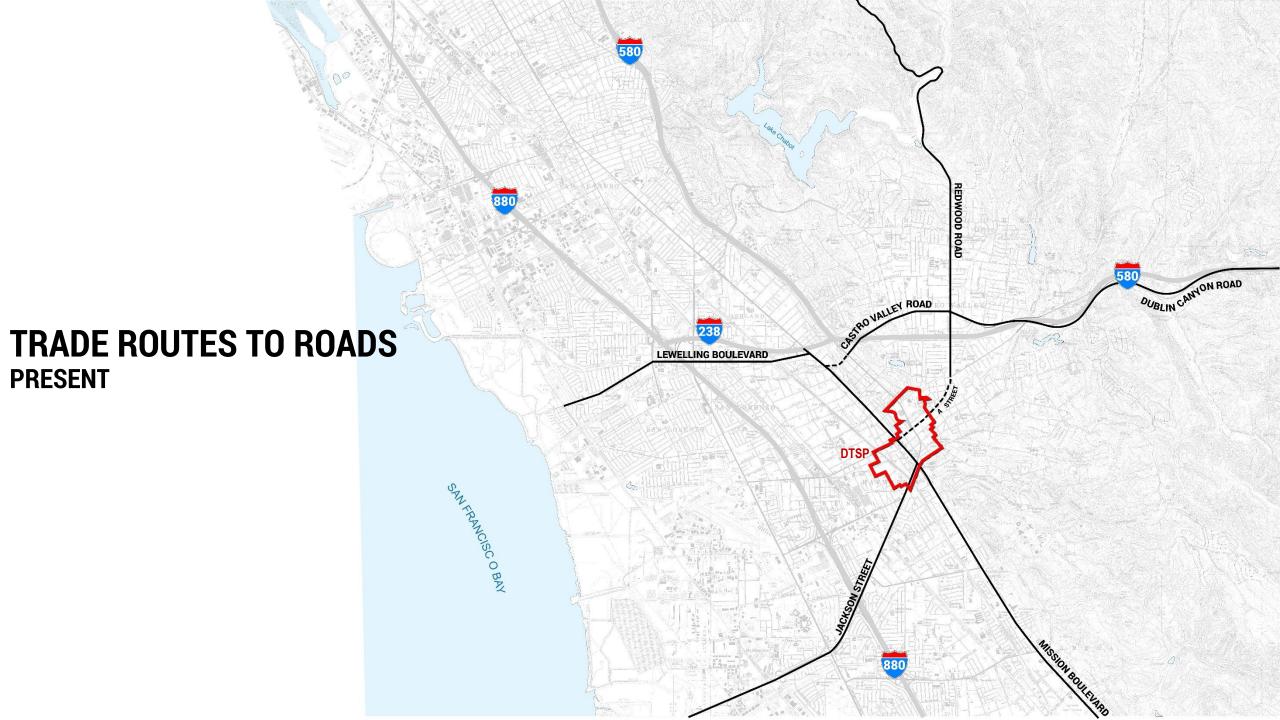


### PATTERNS OF CHANGE

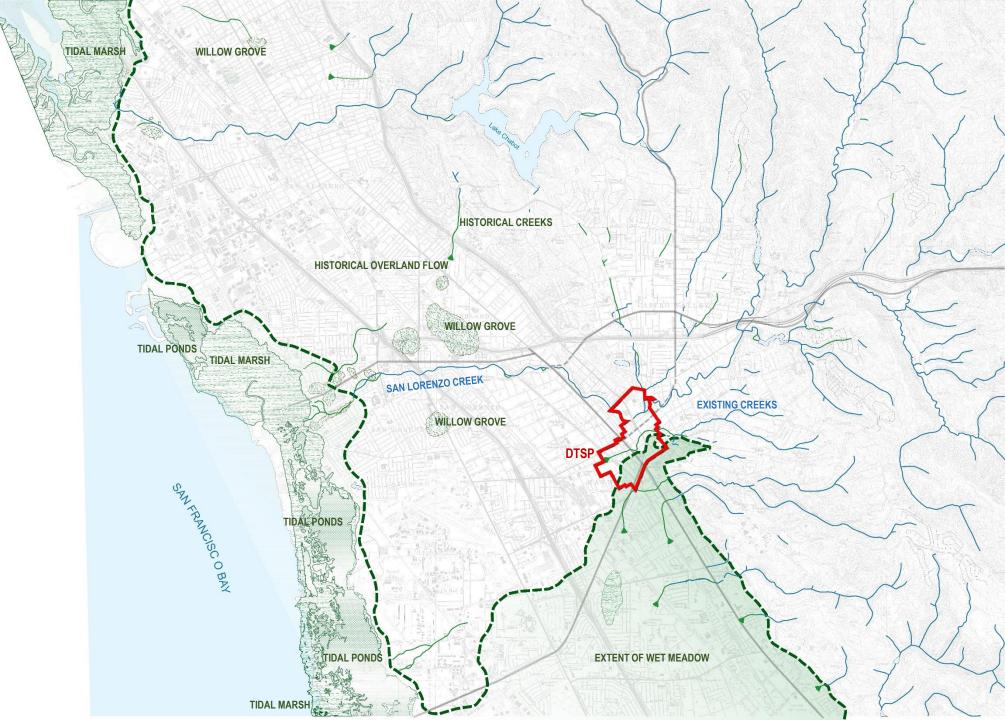


## **20<sup>TH</sup> CENTURY DEVELOPMENT**

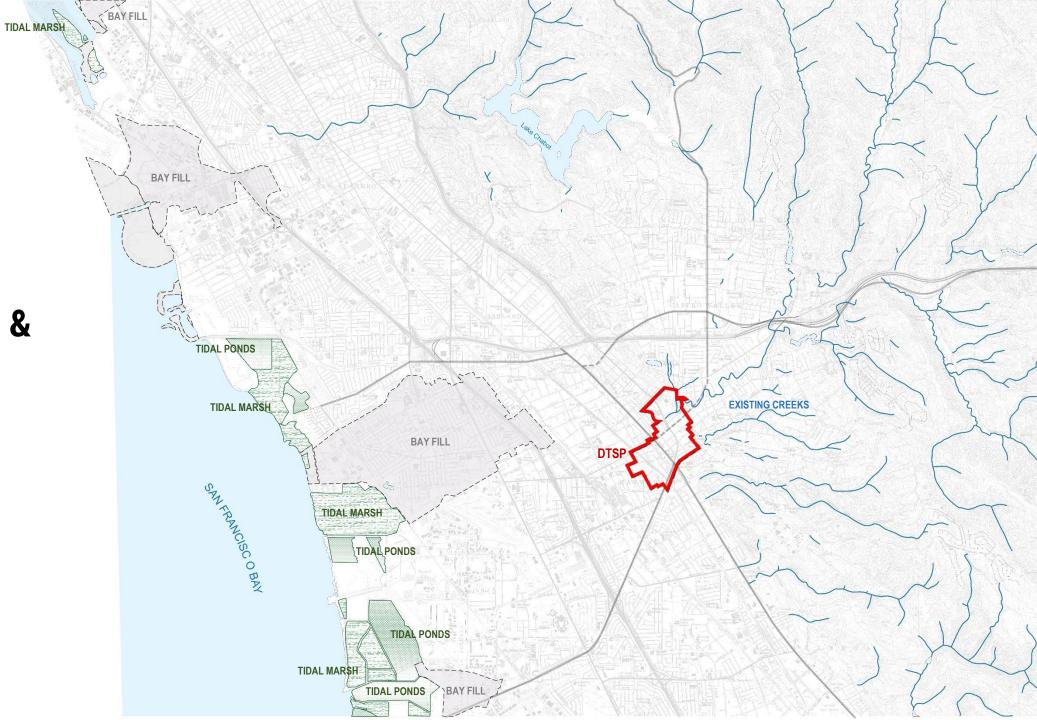
2



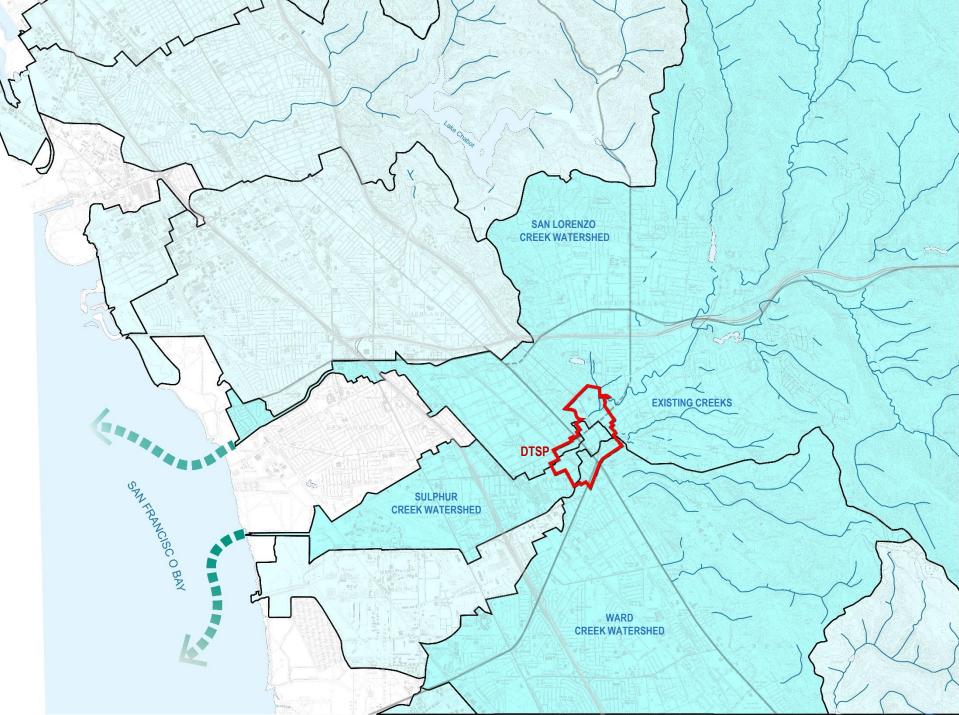
## MARSH, PONDS & WET MEADOWS HISTORICAL 1800-1900



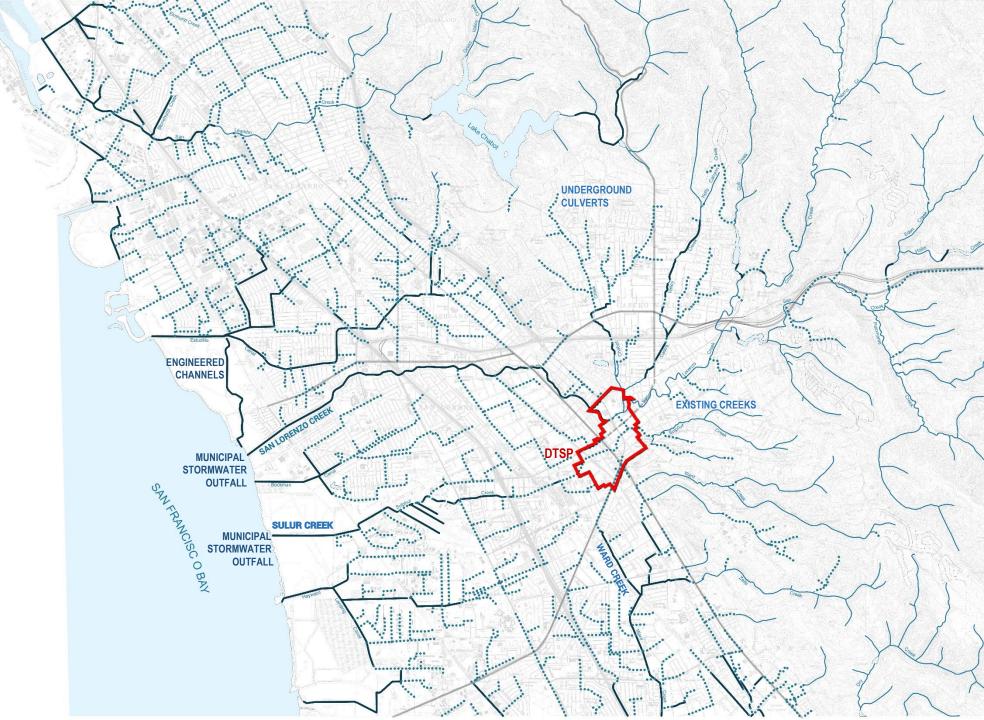
## MARSH, PONDS & WET MEADOWS PRESENT



#### URBAN INFLUENCED WATERSHEDS PRESENT



#### ENGINEERED CHANNELS PRESENT



3

## **GREEN INFRASTRUCTURE INTEGRATION**

DAM BREACH INUNDATION

100-YEAR FLOOD

20' CONTOURS

EROSION

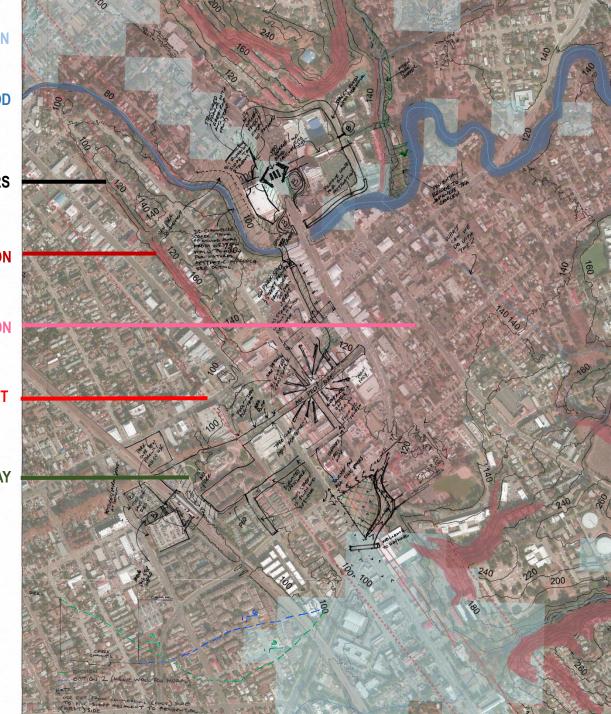
#### LIQUEFACTION

DOWNTOWN HAYWARD SPECIFIC PLAN

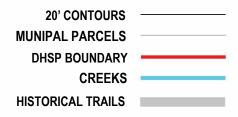
**CONSTRAINTS & OPPORTUNITIES** 

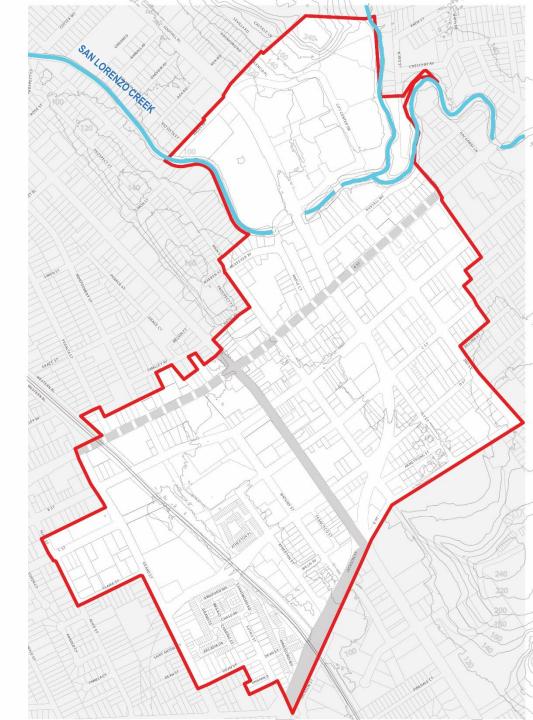
HAYWARD FALUT

**GREENWAY / BLUEWAY** 



### **DOWNTOWN HAYWARD SPECIFIC PLAN**

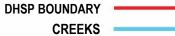


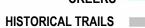


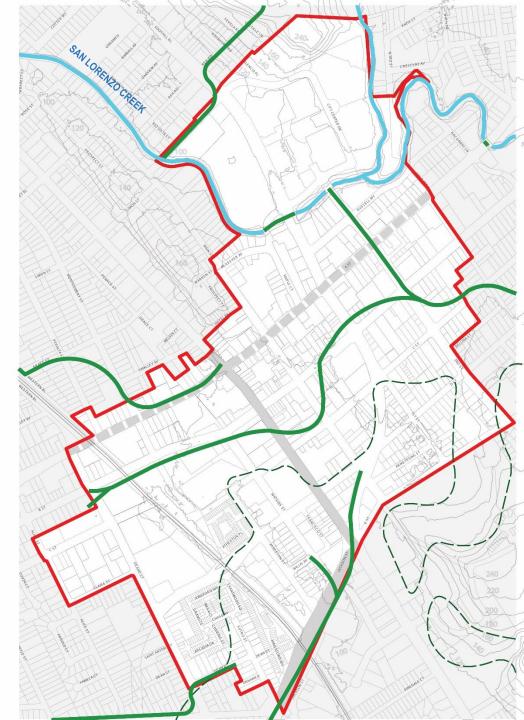
### HISTORICAL HYDROLOGY

(1800-1900)









#### **EXISTING HYDROLOGY**

UNDERGROUND CULVERTS & STORM DRAINS ≥ 24" DIAMETER

ENGINEERED CHANNELS

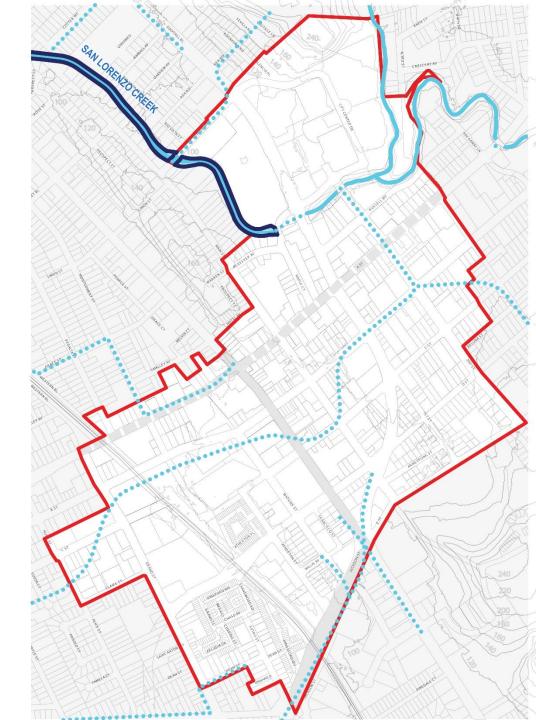
20' CONTOURS

MUNIPAL PARCELS

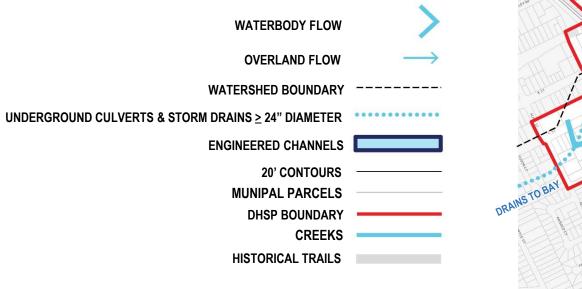
DHSP BOUNDARY

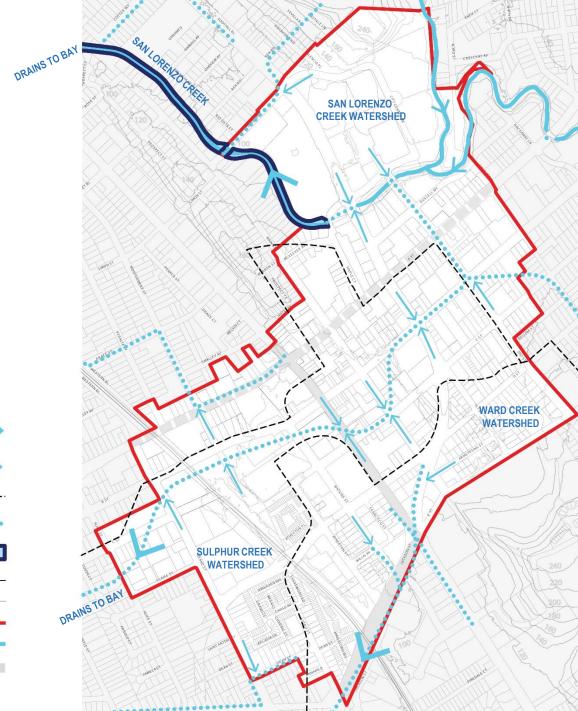
CREEKS

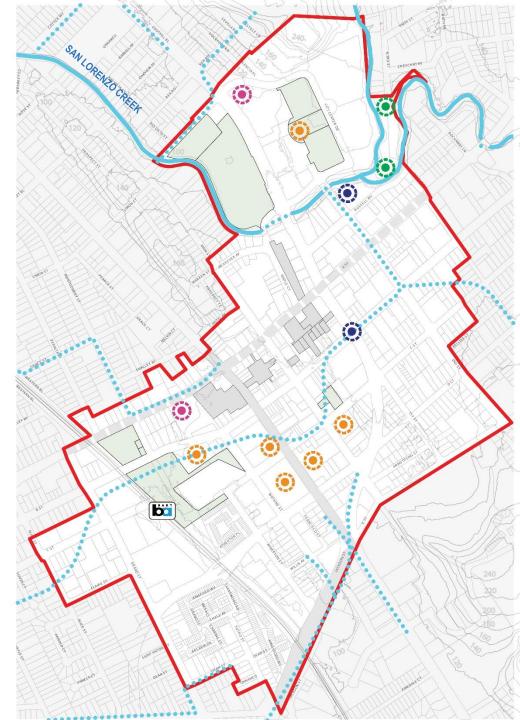
HISTORICAL TRAILS





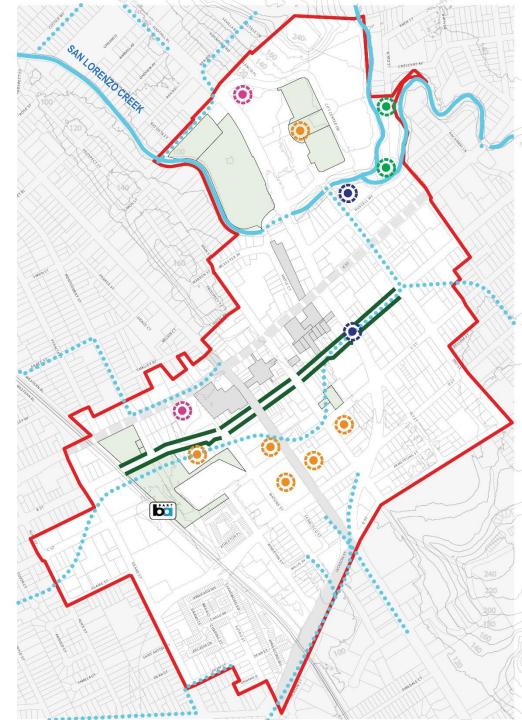






TEDEOT		
TEREST	GROCERY STORE / MARKET	۲
	GOVERNMENT / MUNICIPAL BUILDING	۲
	PARK / OPEN SPACE	۲
	ART / EDUCATION	۲
VACANT / "SOFT" SITE – I	POTENTIAL OPPORTUNITY (VIA OPTICOS)	
SURFACE PARKING - P	POTENTIAL OPPORTUNITY (VIA OPTICOS)	
UNDERGROUND CULV	/ERTS & STORM DRAINS ≥ 24" DIAMETER	•••••
	20' CONTOURS	53
	MUNIPAL PARCELS	2
	DHSP BOUNDARY	
	CREEKS	
	HISTORICAL TRAILS	

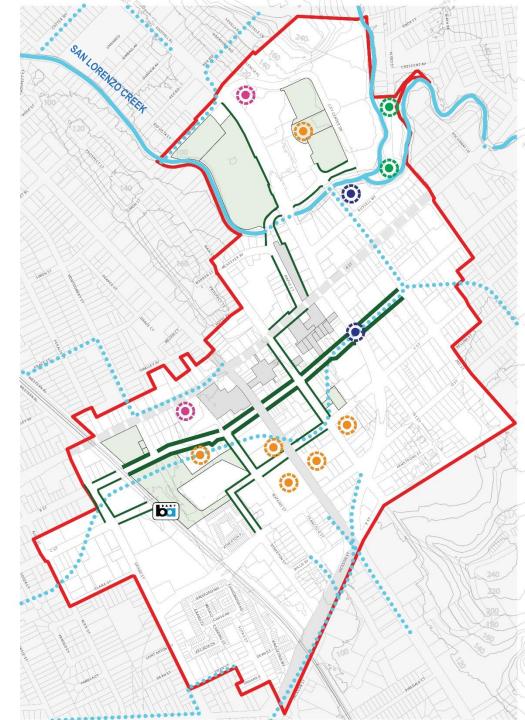
### **POINTS OF INTEREST**



#### ۲ **GROCERY STORE / MARKET** ۲ **GOVERNMENT / MUNICIPAL BUILDING** $\bigcirc$ PARK / OPEN SPACE ۲ **ART / EDUCATION** PRIMARY STORMWATER MANAGEMENT CORRIDOR VACANT / "SOFT" SITE - POTENTIAL OPPORTUNITY (VIA OPTICOS) SURFACE PARKING - POTENTIAL OPPORTUNITY (VIA OPTICOS) UNDERGROUND CULVERTS & STORM DRAINS > 24" DIAMETER ..... 20' CONTOURS **MUNIPAL PARCELS** DHSP BOUNDARY CREEKS

HISTORICAL TRAILS

#### PRIMARY GREENWAY + BLUEWAY CORRIDOR



	<b>GROCERY STORE / MARKET</b>	۲
ENWAY	GOVERNMENT / MUNICIPAL BUILDING	۲
RIDOR	PARK / OPEN SPACE	۲
	ART / EDUCATION	۲
SECONDARY STO	DRMWATER MANAGEMENT CORRIDOR	

### SECONDARY GREENWAY GOVERN + BLUEWAY CORRIDOR

PRIMARY STORMWATER MANAGEMENT CORRIDOR

VACANT / "SOFT" SITE – POTENTIAL OPPORTUNITY (VIA OPTICOS)

SURFACE PARKING - POTENTIAL OPPORTUNITY (VIA OPTICOS)

UNDERGROUND CULVERTS & STORM DRAINS ≥ 24" DIAMETER

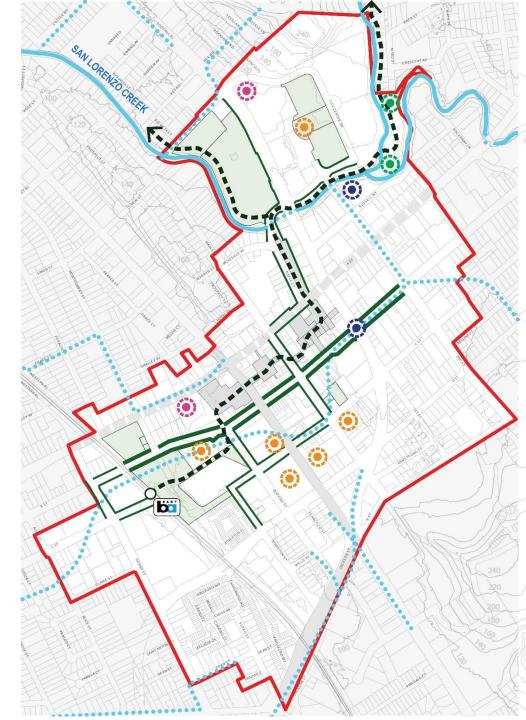
20' CONTOURS

MUNIPAL PARCELS

DHSP BOUNDARY

CREEKS

HISTORICAL TRAILS



۲	
۲	GROCERY STORE / MARKET
۲	GOVERNMENT / MUNICIPAL BUILDING
۲	PARK / OPEN SPACE
	ART / EDUCATION

### **GREENWAY+ BLUEWAY MULTI-USE TRAIL**

SECONDARY STORMWATER MANAGEMENT CORRIDOR PRIMARY STORMWATER MANAGEMENT CORRIDOR

VACANT / "SOFT" SITE – POTENTIAL OPPORTUNITY (VIA OPTICOS)

SURFACE PARKING - POTENTIAL OPPORTUNITY (VIA OPTICOS)

UNDERGROUND CULVERTS & STORM DRAINS > 24" DIAMETER

20' CONTOURS

.........

MUNIPAL PARCELS

DHSP BOUNDARY

CREEKS

HISTORICAL TRAILS



## **GREEN INFRASTRUCTURE CONCEPTS**



#### LOCATION:

- HAYWARD BART STATION
- MAIN & C STREET
- 2<sup>ND</sup> & B STREETS PRIMARY CORRIDOR TERMINUS





POTENTIAL OPPORTUNITY ZONE

#### LOCATION:

• ALONG B STREET FROM HAYWARD BART STATION TO 2<sup>ND</sup> STREET







### SECONDARY CORRIDORS

POTENTIAL OPPORTUNITY ZONE

#### **LOCATION**:

 WEST OF HAYWARD BART STATION ALONG C STREET NORTH ON MAIN AND MAPLE CIRCLE TOWARDS DEANZA PARK AND THE JAPANESE GARDENS



ACTIVATED ALLEYWAYS

#### MULTI-USE TRAIL POTENTIAL OPPORTUNITY ZONE

#### LOCATION:

• PERPENDICULAR TO PRIMARY AND SECONDARY CORRIDORS STRETCHING FROM HAYWARD BART STATION TOWARDS SAN LORENZO CREEK AND NORTH OF THE JAPANESE GARDENS

**CURB CUT** 





#### VISION POTENTIAL OPPORTUNITY ZONE

#### **LOCATION**:

• SAN LORENZO CREEK ON CITY **CENTER DRIVE AND FOOTHILL** BOULEVARD

