LEVEE PROTECTION PLANNING AND IMPROVEMENTS PROJECT

Improving Today and Preparing for Tomorrow

Foster City Levee Improvements Project

CIP 301-657

City of Foster City
Department of Public Works

Levee and Bay Trail Improvements

Access, Signage, Amenities and Landscaping Concepts

February 11, 2019

Schaaf & Wheeler
CONSULTING CIVIL ENGINEERS

BFS LANDSCAPE ARCHITECTS

Design Review Board Exhibits

Source: Schaaf & Wheeler, Urban Planning Partners, 2016
Note: The location of staging areas are preliminary and may change.

Figure 1-1
Foster City Levee Protection Planning and Improvements Project EIR
Regional Context Map

Figure 1. Location Map
Levee Protection Planning and Improvement Project CIP 301-657
City of Foster City, San Mateo County, California

Huffman-Broadway Group, Inc.
ENVIRONMENTAL REGULATORY CONSULTANTS

West of Mariner's Point

Mariner's Point

Baywinds Park

Adjacent to Third Avenue

San Mateo Bridge

Beach Park Boulevard at Egret Street

Adjacent to Beach Park Boulevard at Gull Avenue

Across from Bowditch School

At Eastern End of Foster City Boulevard

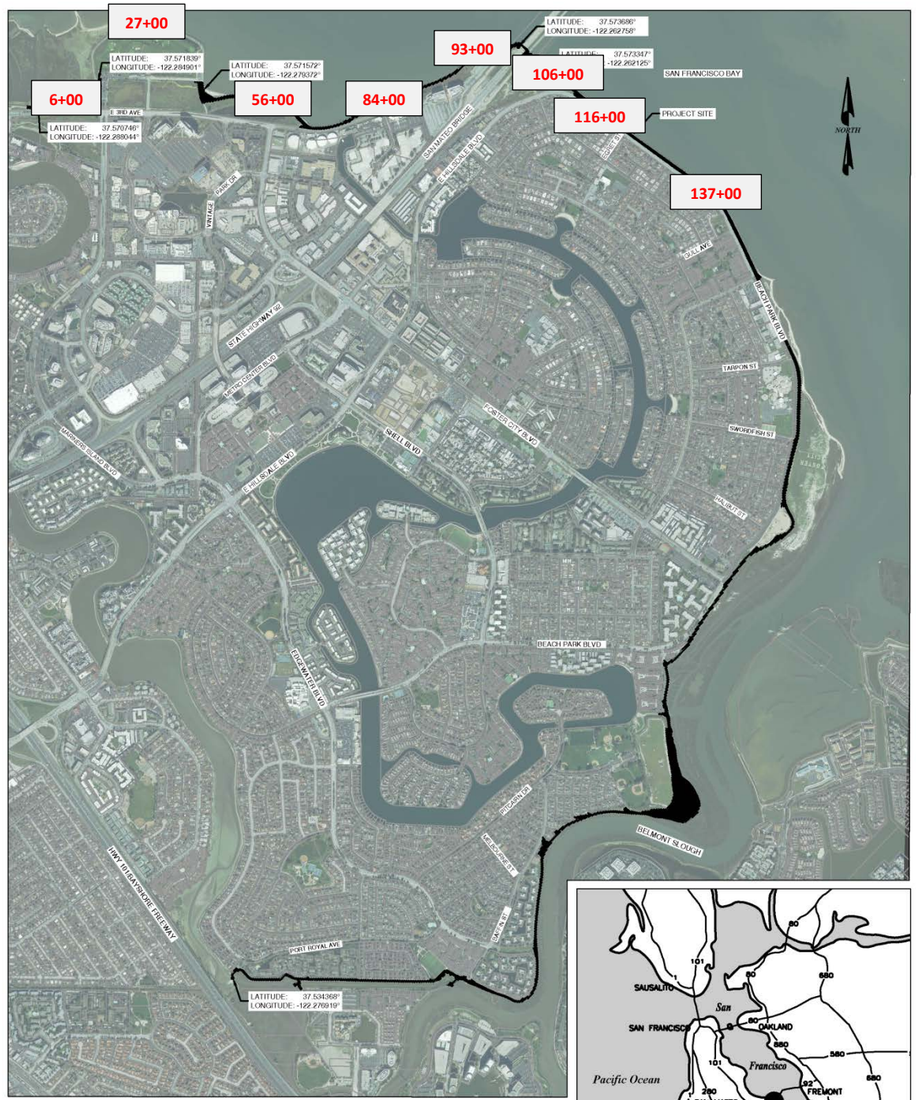
Near Sea Cloud Park

At Eastern End of Edgewater Boulevard

Adjacent to O'Neill Slough

FOSTER CITY LEVEE PROTECTION IMPROVEMENTS PROJECT

PROJECT LOCATION AND VICINITY MAP



PROJECT LOCATION MAP
SCALE: 1" = 2000'

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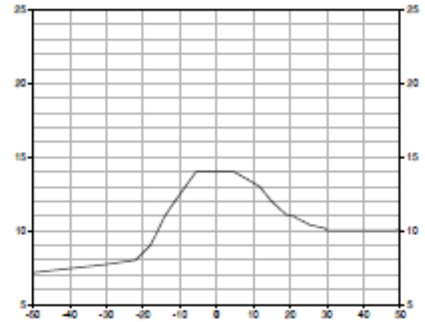
1 INCH = 2000 FEET

VICINITY MAP
NTS



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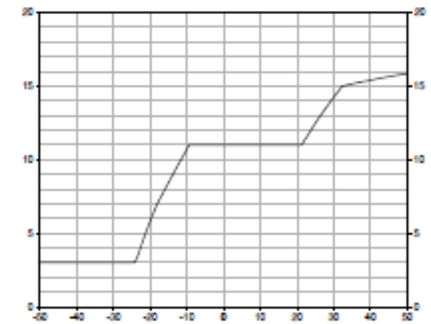

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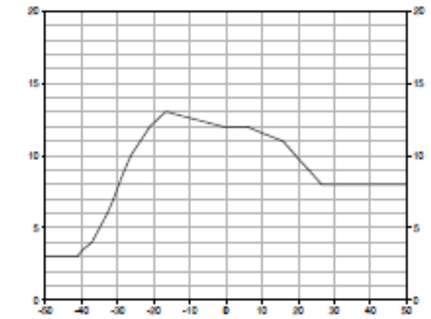

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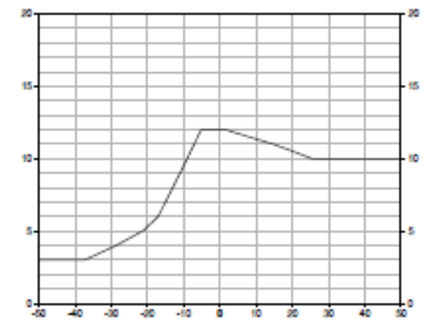

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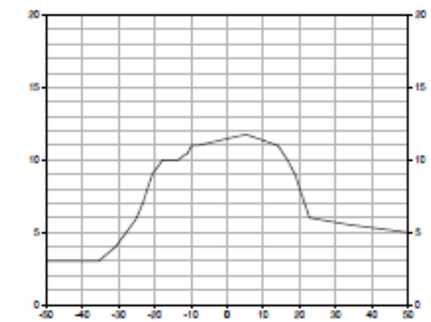

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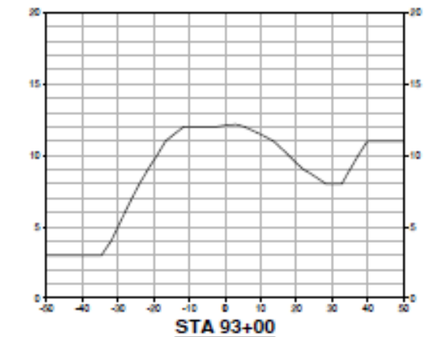

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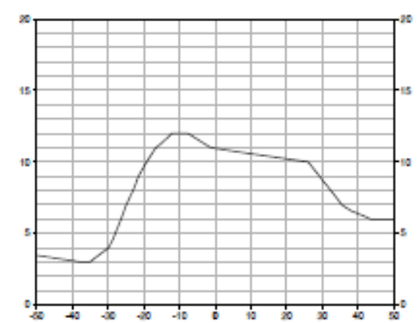

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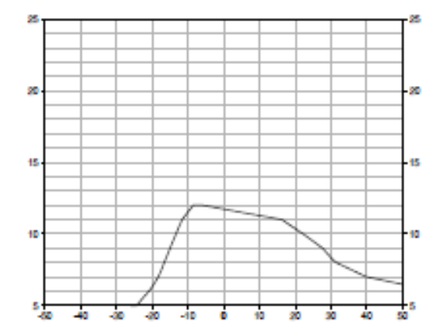

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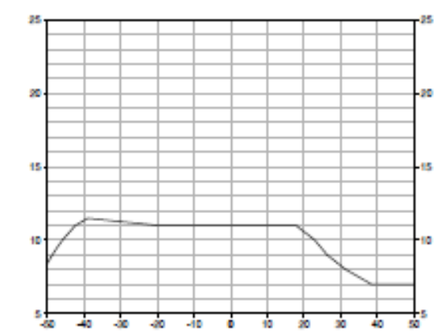

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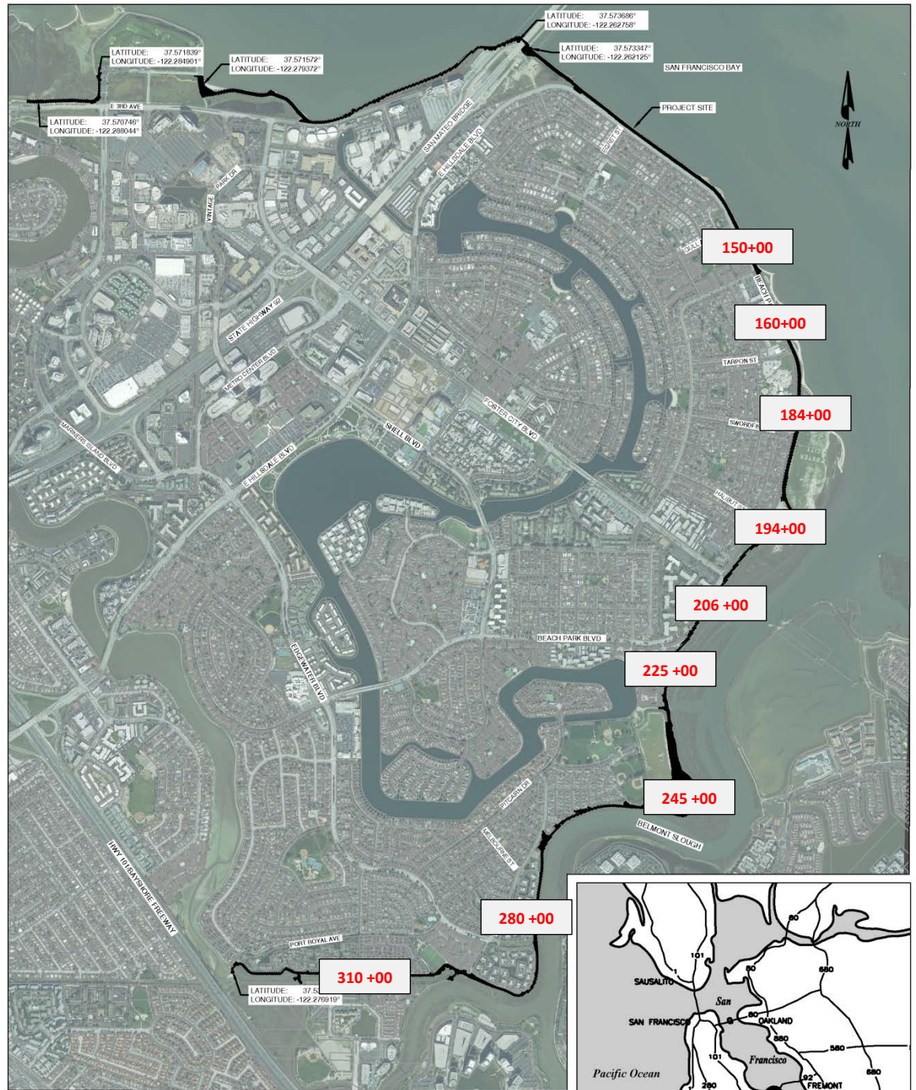
HORIZ. SCALE: 1" = 20'
VERT. SCALE: 1" = 5'

Stations are in feet. Existing cross section elevations are in feet NAVD88. Cross sections are oriented looking up-station, with the Bay or Slough to the left.

FOSTER CITY LEVEE PROTECTION IMPROVEMENTS PROJECT

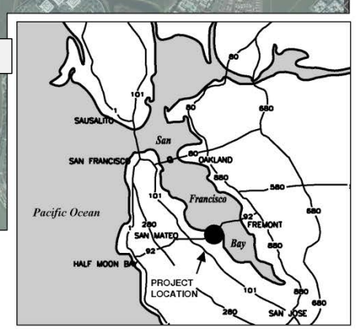
PROJECT LOCATION AND VICINITY MAP



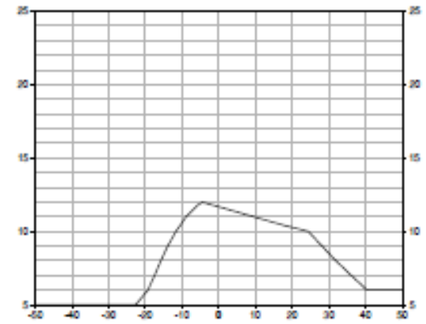
PROJECT LOCATION MAP
SCALE: 1" = 2000'

2000 0 2000

1 INCH = 2000 FEET



VICINITY MAP
NTS



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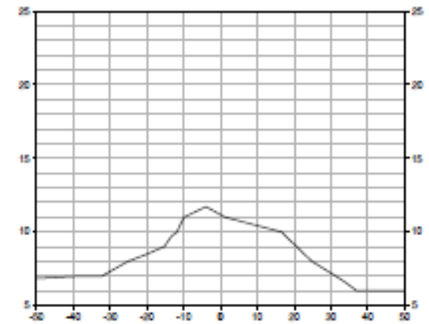

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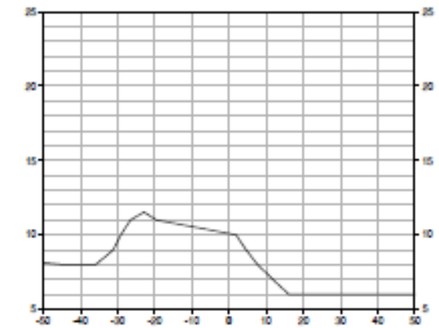

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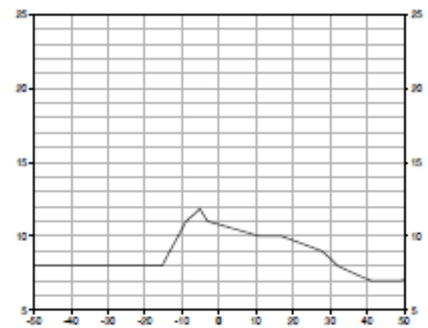

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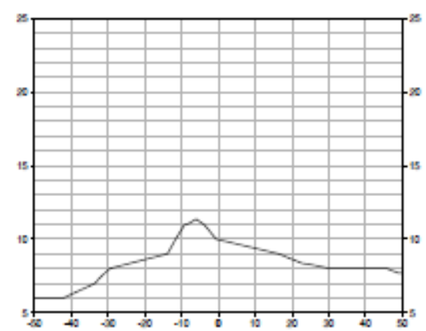

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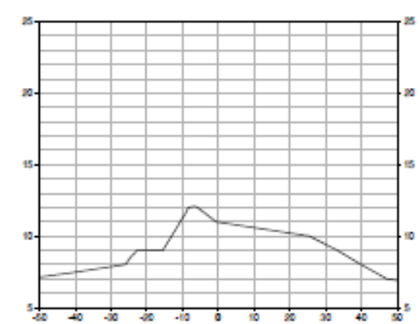

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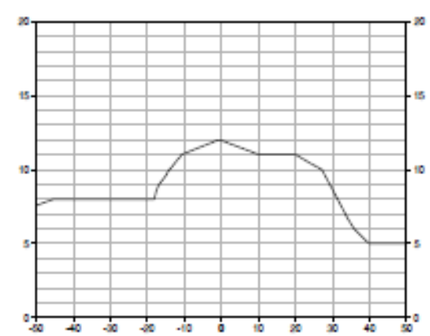

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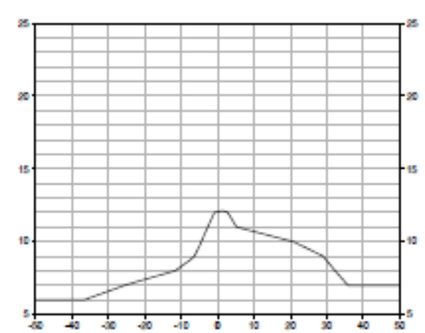

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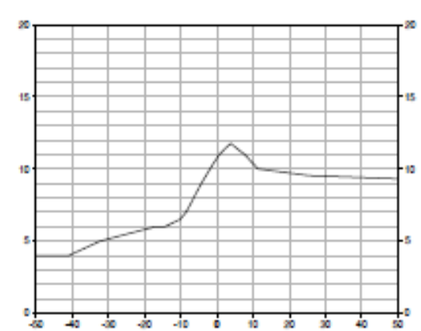

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VERT. SCALE: 1" = 5'

Stations are in feet. Existing cross section elevations are in feet NAVD88. Cross sections are oriented looking up-station, with the Bay or Slough to the left.

Foster City Levee Improvements

Typical Sections Key
As Shown in the Construction Plan

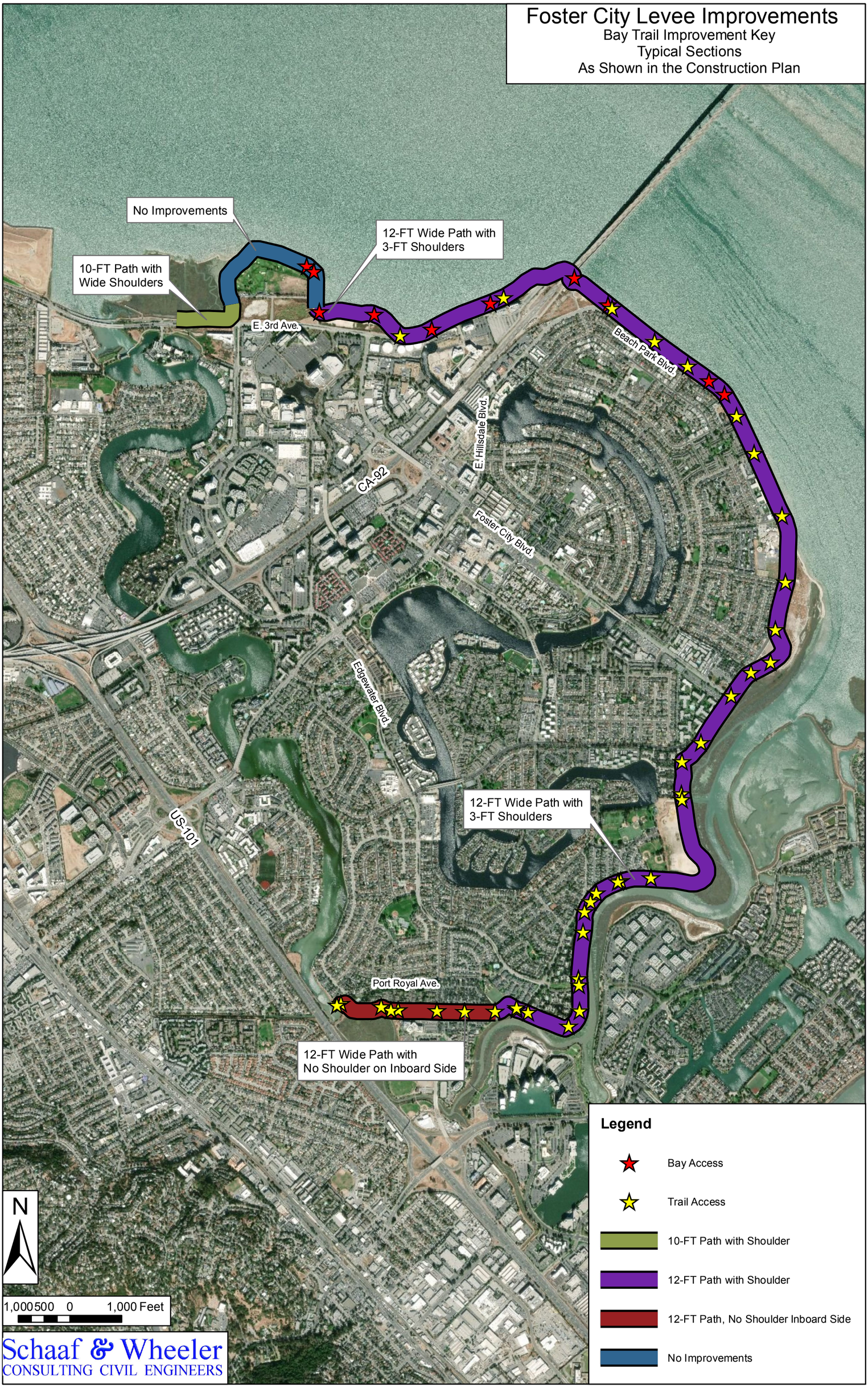
Schaaf & Wheeler
CONSULTING CIVIL ENGINEERS

SHEET 6

Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Foster City Levee Improvements

Bay Trail Improvement Key
Typical Sections
As Shown in the Construction Plan



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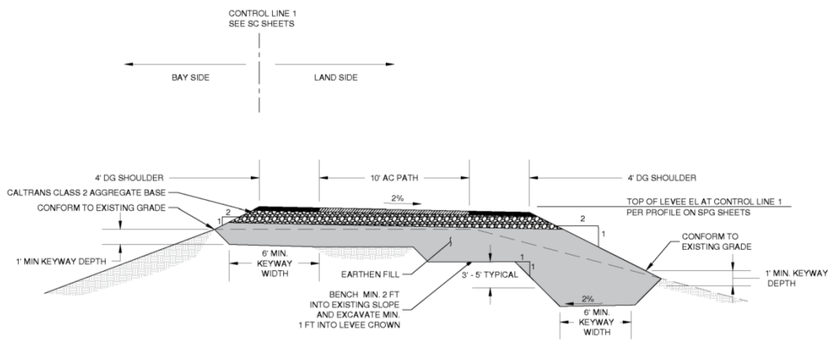
CONSULTING CIVIL ENGINEERS

SHEET 7

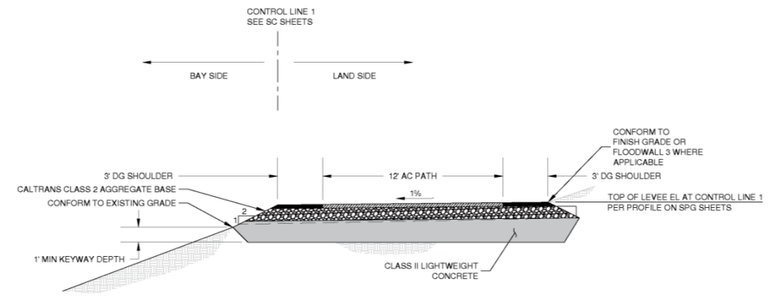
Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Foster City Design Flood Protection Elevations

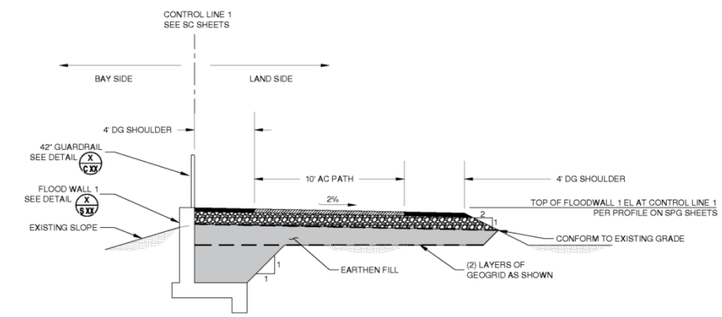
Segment	Existing Flood Protection Elevation (feet, NAVD)	Flood Improvements Elevations for 2050 Sea Level Rise (feet, NAVD)	Maximum Elevation Increase from Existing Conditions (feet)
1	> 13	15.5	2.5
2	11 – 12	19 – 18.5	8
3	10 – 13	18 – 17.5	8
4	11 – 13	17.5	6.5
5	11 – 12	16.5 – 13	5.5
6	12 – 13	13	1
7	12 – 13	13	1
8	12 – 13	13	1



TYPICAL SECTION A TCX 01
SCALE: 1/4" = 1'-0"



TYPICAL SECTION D TCX 02
SCALE: 1/4" = 1'-0"



TYPICAL SECTION B TCX 01
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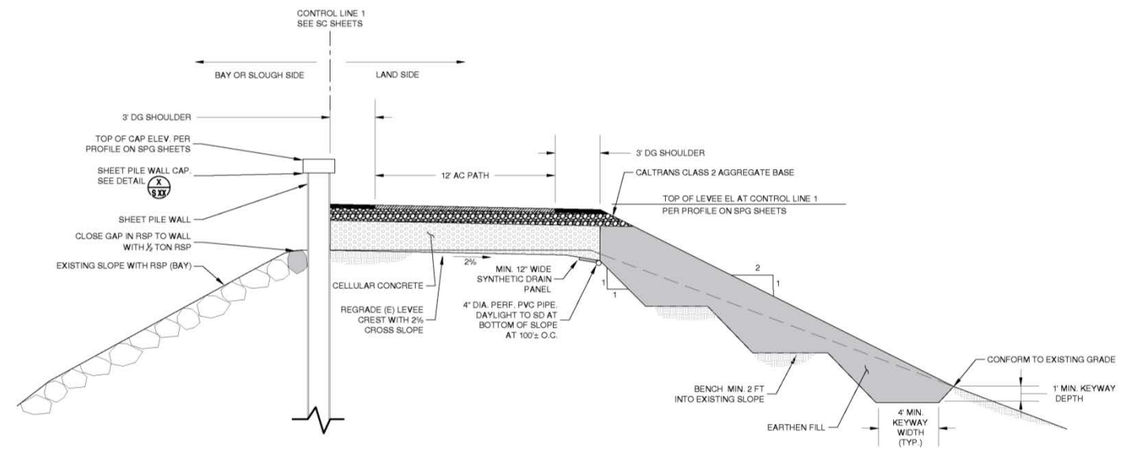
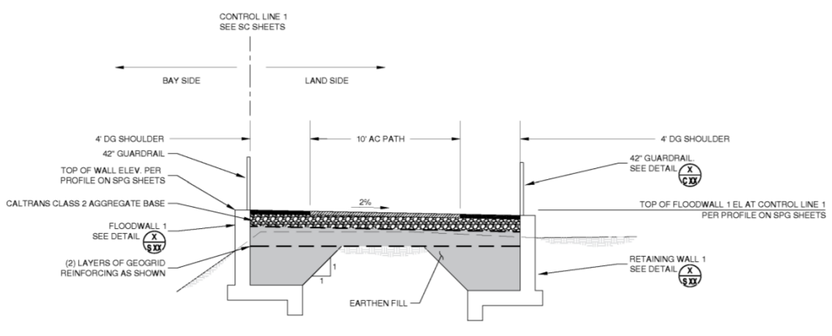


TYPICAL SECTION E TCX 02
SCALE: 1/4" = 1'-0"

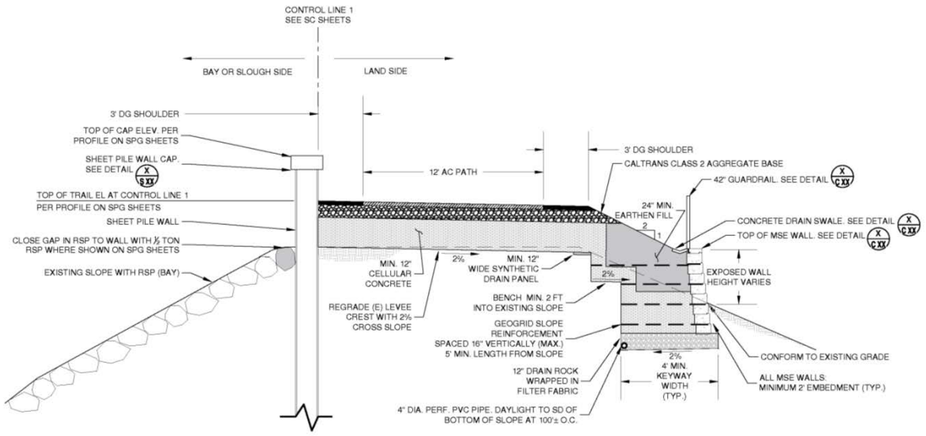
ALE VERIFICATION

BAR BELOW IS 1" ON TH
GINAL DRAWING. IF THIS DI
LES OTHERWISE ADJUST T



TYPICAL SECTION C TCX 02
SCALE: 1/4" = 1'-0"

Typical Section	Levee Segment	Top of Levee / Floodwall (feet NAVD)	Finish Trail Elevation (feet NAVD)
A	1, 6	15.5	15.5
B	1	15.5	15.5
C	1	15.5	15.5
D	2	varies	varies
E	2, 3, 4, 5, 6, 7	13 - 19	11 - 15.5



TYPICAL SECTION F / TCX 03
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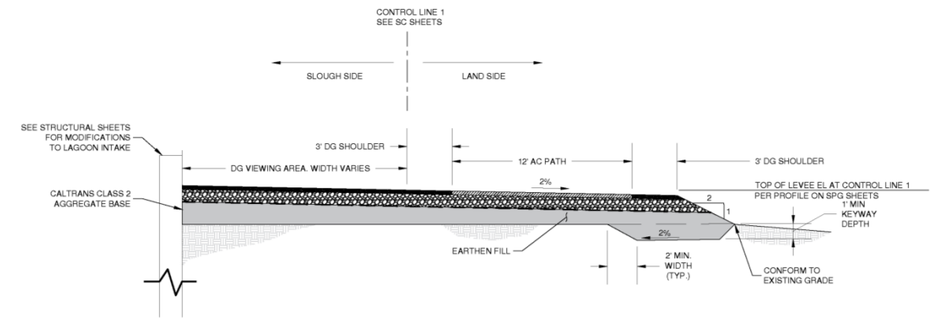

TYPICAL SECTION H / TCX 03
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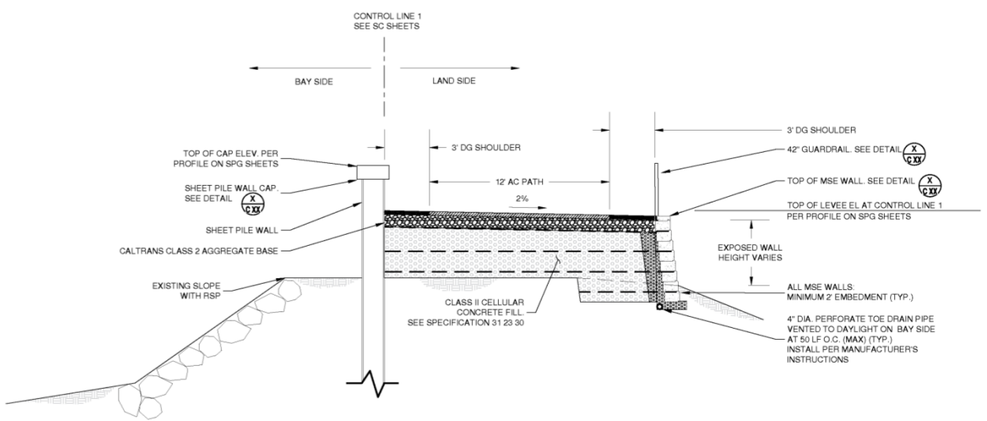
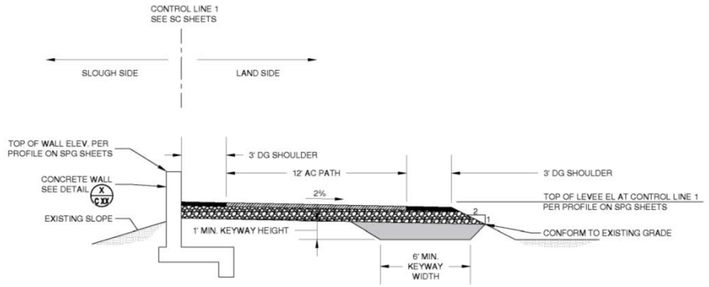


TYPICAL SECTION G / TCX 03
SCALE: 1/4" = 1'-0"

Typical Section	Levee Segment	Top of Levee / Floodwall (feet NAVD)	Finish Trail Elevation (feet NAVD)
F	2, 3, 4	16.5 - 19	13 - 15.5
G	2	18.5 - 19	15 - 15.5
H	5	13.5	11



TYPICAL SECTION I TCX 05

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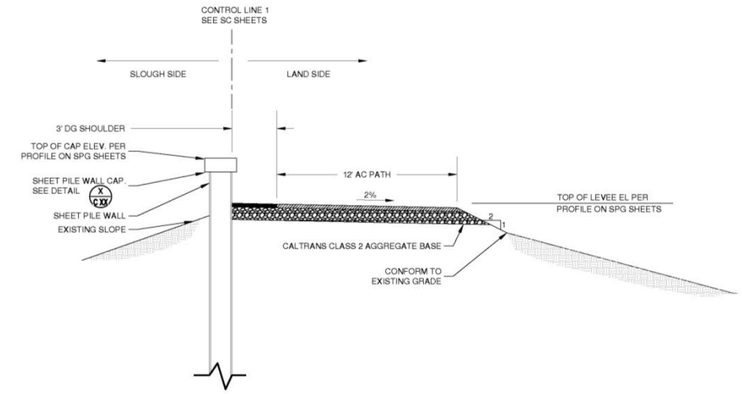

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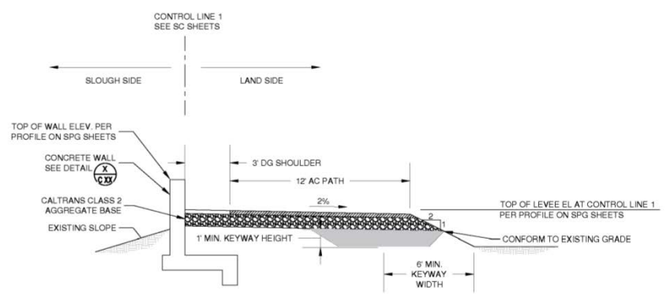

TYPICAL SECTION J TCX 05

SCALE: 1/4" = 1'-0"

Typical Section	Levee Segment	Top of Levee / Floodwall (feet NAVD)	Finish Trail Elevation (feet NAVD)
I	7	13	11.5
J	8	13	11.5
K	8	13	11.5

Foster City Levee Improvements

Access Points and Amenities

Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Foster City Levee Improvements

Access Points and Amenities

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Foster City Levee Improvements

Access Points and Amenities

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Access Points and Amenities

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Access Points and Amenities

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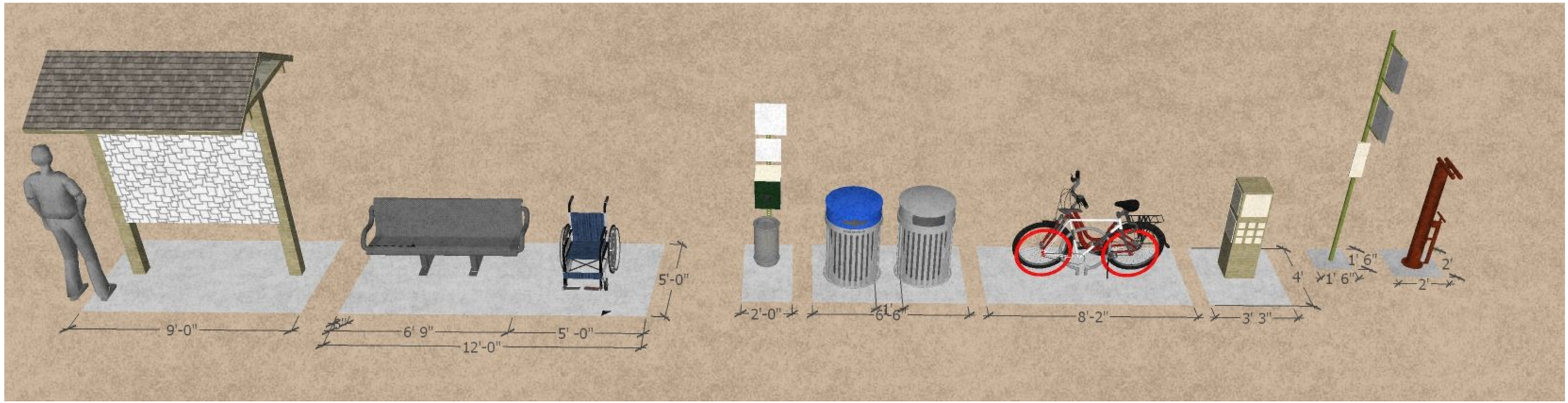
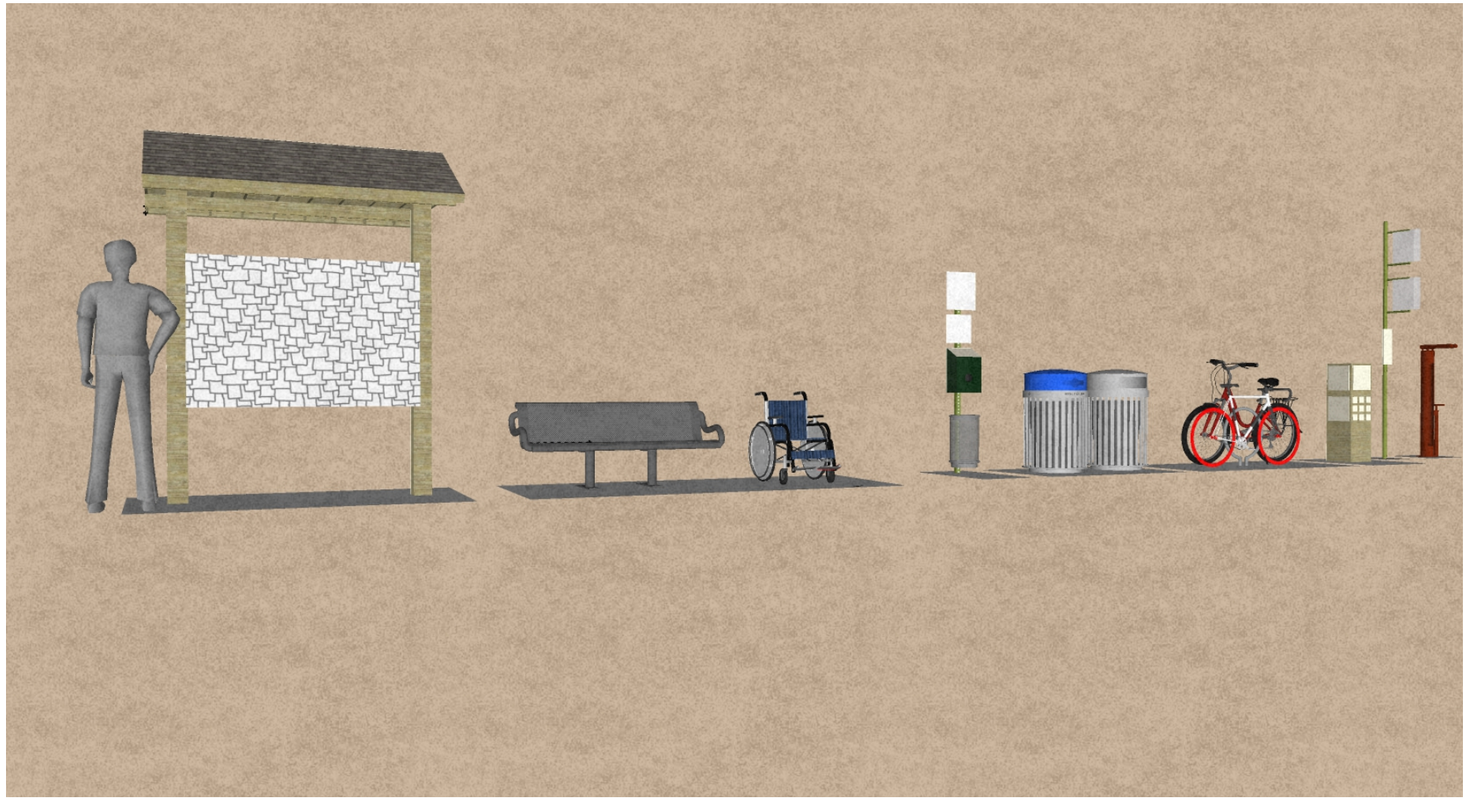
Proposed Amenities and Signs





LEVEE PROTECTION PLANNING AND IMPROVEMENTS PROJECT

Improving Today and Preparing for Tomorrow

BFS LANDSCAPE ARCHITECTS

Foster City Levee Improvements

Schaaf & Wheeler
CONSULTING CIVIL ENGINEERS

BFS LANDSCAPE ARCHITECTS

SHEET 19

Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

	Genus	Species	Common Name	BCDC Page	BCDC Native	Plant Type	Planting Method*	PCS Seed Source**
Areas along E 3rd Ave: Non-irrigated Levee Slopes								
	Achillea	millefolium	Common Yarrow	18	BAY	Perennial	Hydroseed	San Mateo
	Deschampsia	cespitosa ssp. Holciformis	Pacific Hairgrass	22	BAY	Grass		Monterey
	Eschscholzia	californica 'Maritima'	California Poppy	25	BAY	Annual		Monterey
	Mimulus	auranticus	Sticky Monkey Flower	28	BAY	Perennial		Santa Clara
	Sisyrinchium	bellum	Blue-eyed Grass	32	BAY	Perennial		San Mateo
	Stipa	lepida	Foothill Needle Grass	29	BAY	Grass		San Mateo
	Stipa	pulchra	Purple Needle Grass	29	BAY	Grass		San Mateo
	Vulpia	microstachys	small fescue	n/a		Annual		Santa Clara
Environmental Areas along E 3rd Ave: Irrigated Levee Slope Base								
	Baccharis	pilularis	Coyote Brush	20	CA	Shrub	Container w/ Drip Irrigation	n/a
	Ceanothus	gloriosus	Ceanothus	21	CA	Groundcover		
	Ceanothus	griseus var. horizontalis	Ceanothus Yankee Point	21	CA	Groundcover		
	Ceanothus	thyrsiflorus	Blue Blossom	22	BAY	Shrub		
	Salvia	mellifera var. Repens	Creeping Black Sage	31	CA	Groundcover		
Beach Park Boulevard: Non-Irrigated Levee Slopes								
	Carpobrotus	edulis	Ice Plant	N/A		Perennial	Cuttings	N/A
Beach Park Boulevard & Other Locations - Access Points: Irrigated Levee Slopes								
	Aster	chilensis	California Aster	20	BAY	Perennial	Hand seeding or plugs	n/a
	Eriogonum	nudum	Naked Buckwheat	24	BAY	Perennial		
	Penstemon	centranthifolius	Scarlet Bugler		CA	Perennial		
	Ranunculus	californicus	California Buttercup	30	BAY	Perennial		
	Salvia	spathacea	Hummingbird Sage		CA	Perennial		
	Solidago	californica	California Goldenrod	32	BAY	Perennial		
	Sidalcea	malviflora	Checkerbloom	32	BAY	Perennial		
	Ceanothus	griseus var. horizontalis	Ceanothus Yankee Point	21	CA	Groundcover		
J-Site: Non-Irrigated Inland Side (Dry) Slopes								
	Artemisia	californica	California Sagebrush	19	BAY	Shrub	Hydroseed	Alameda
	Artemisia	douglasiana	Mugwort	20	BAY	Perennial	Hydroseed	TBD
	Eriogonum	latifolium	Coastal Erigonum	24	BAY	Perennial	Hydroseed	San Mateo
	Hordeum	brachyantherum	Salt Meadow Barley	26	BAY	Grass	Hydroseed	Napa / Sonoma
J-Site: Non-Irrigated Slough Side (Seasonally wet) Slopes								
	Ambrosia	psilostachya	Western Ragweed	n/a		Perennial	Hydroseed	Santa Clara
	Bolboschoenus	maritimus	Alkali Bulrush	20	BAY	Perennial	Hydroseed	Alameda
	Frankenia	salina	Alkali Heath	25	BAY	Perennial	Hydroseed	San Mateo
	Grindellia	stricta var.angustifolia	Pacific Gumplant	26	BAY			Alameda / Santa Clara
	Hordeum	brachyantherum	Salt Meadow Barley	26	BAY	Grass	Hydroseed	Napa / Sonoma
	Juncus	patens	Wire Grass	27	BAY	Perennial	Hydroseed	TBD
	Limonium	californicum	Marsh Rosemary	27	BAY	Perennial	Hydroseed	San Mateo
	Sarcocornia	pacifica	Pickleweed	31	BAY	Perennial	Hydroseed	Alameda
	Schoenoplectus	californicus	California Bulrush	31	BAY	Perennial	Hydroseed	Alameda
Slough-edge Terrace: Non-irrigated								
	Deschampsia	cespitosa ssp. Holciformis	Pacific Hairgrass	22	BAY	Grass	Hydroseed	Monterey
	Hordeum	brachyantherum	Salt Meadow Barley	26	BAY	Grass	Hydroseed	Napa / Sonoma
Bay Winds Park: Synthetic Turf								

LEGEND

BCDC = Shoreline Plants - A Landscape Guide for the San Francisco Bay, published by the San Francisco Bay Conservation and Development Commission, March 2007

PCS = Pacific Coast Seed, Livermore CA: seed suppliers for Northern California

DW - Driwater, Santa Rosa CA: manufacturers of time released watering gel packs

* Planting method to be finalized after further discussions with native grass specialists, parks and rec staff, and seed / plant suppliers

** Seed sources, seed availability, and seed viability vary from year to year

Achillea millefolium
(Common Yarrow)

Ambrosia psilostachya
(Western Ragweed)

Artemesia californica
(California Sagebrush)

Artemisia douglasiana
(Mugwort)

Aster chilensis
(California Aster)

Baccharis pilularis
(Coyote Brush)

Bolboschoenus maritimus
(Alkali Bulrush)

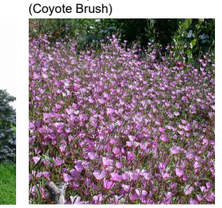
Carex praegracilis
(Meadow Sedge)

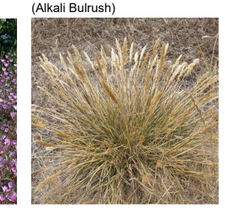
Carpobrotus edulis
(Ice Plant)

Ceanothus gloriosus
(Ceanothus)

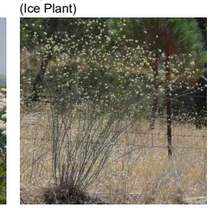
Ceanothus griseus 'Horizontalis'
(Yankee Point Ceanothus)

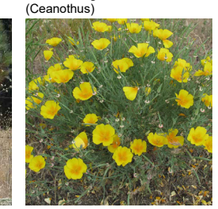
Ceanothus thyrsiflorus
(Creeping Blue Blossom)

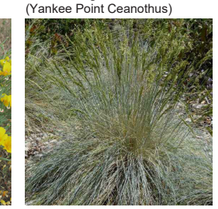

Clarkia rubicunda
(Farewell to Spring)

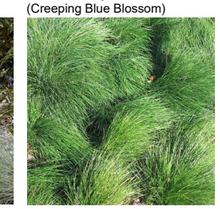

Deschamsia caespitosa
'Holciformis'
(Pacific hairgrass)

Eriogonum latifolium
(Coastal Eriogonum)


Eriogonum nudum
(Naked Buckwheat)

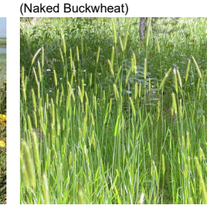

Eschscholzia californica 'Maritima'
(California Coastal Poppy)

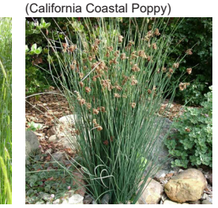

Festuca idahoensis
(Fescue Bunchgrass)


Festuca rubra 'Molate'
(Molate Red Fescue)

Frankenia salina
(Alkali Heath)

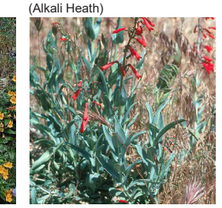
Grindelia stricta 'Angustifolia'
(Pacific Gumplant)


Hordeum brachyantherum
(Salt Meadow Barley)


Juncus patens
(Wire Grass)

Limonium californicum
(Marsh Rosemary)

Mimulus aurantiacus
(Sticky Monkey Flower)


Penstemon centranthifolius
(Scarlet Bugler)

Ranunculus californicus
(California Buttercup)

Salvia mellifera 'Repens'
(Creeping Black Sage)

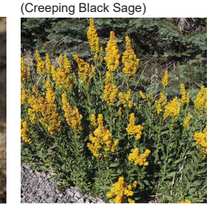
Salvia spathacea
(Hummingbird Sage)

Sarcocornia pacifica
(Pickleweed)

Schoenoplectus californicus
(California Bulrush)

Sidalcea malviflora
(Checkerbloom)

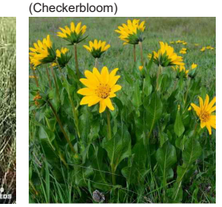
Sisyrinchium bellum
(Blue-eyed Grass)


Solidago californica
(California Goldenrod)

Stipa lepida
(foothill needle grass)

Stipa pulchra
(Purple Needle Grass)

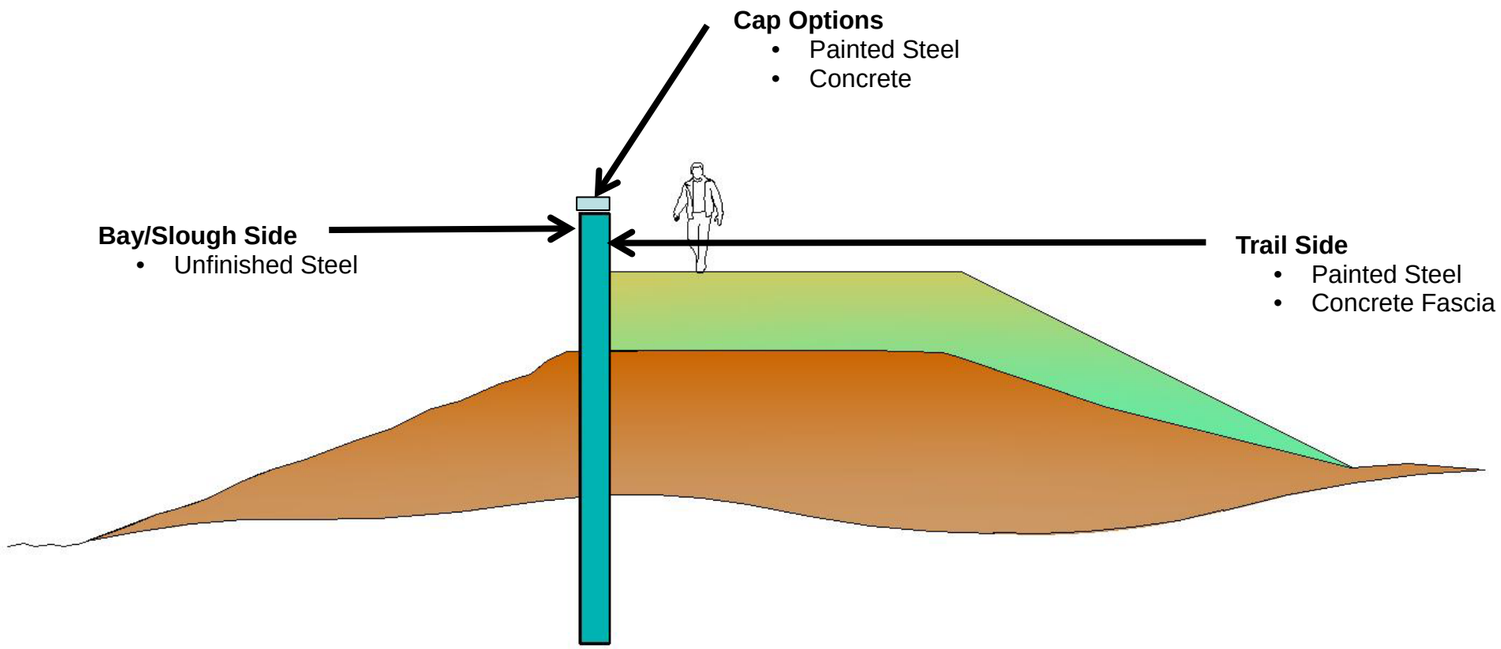
Vulpia microstachys
(Small Fescue)


Wyethia angustifolia
(Mule's Ears)

LEVEE PROTECTION PLANNING AND IMPROVEMENTS PROJECT
Improving Today and Preparing for Tomorrow

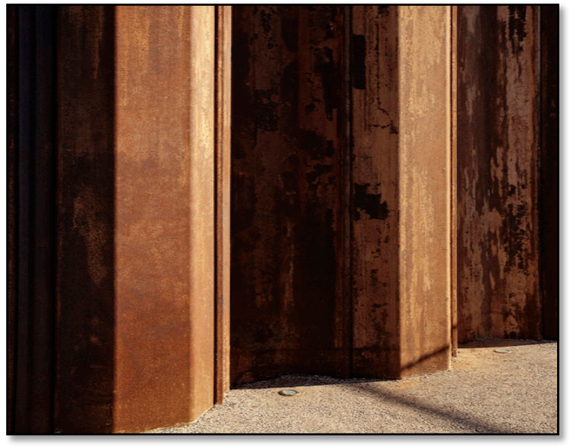
BFS LANDSCAPE ARCHITECTS

Wall Treatment

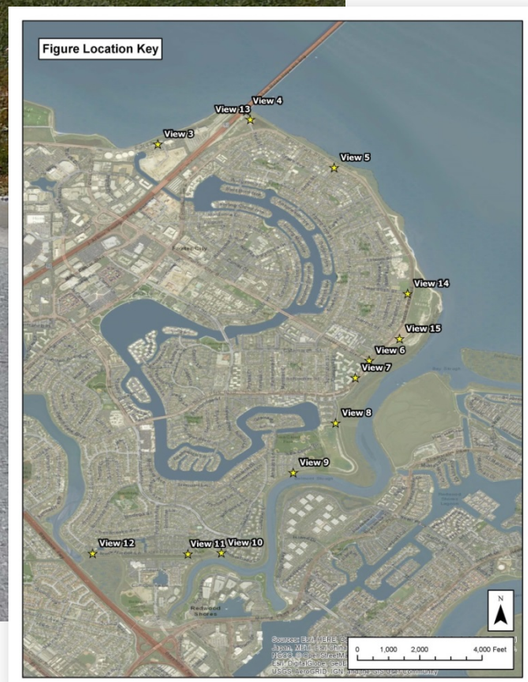


Painted Steel with Cap

Concrete Cap

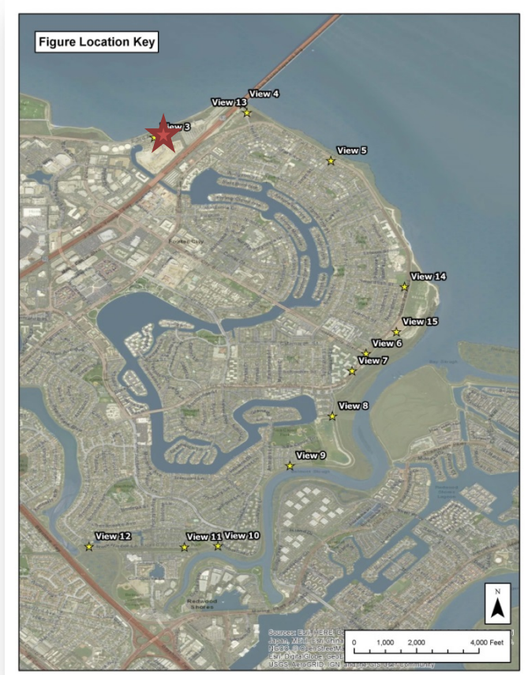


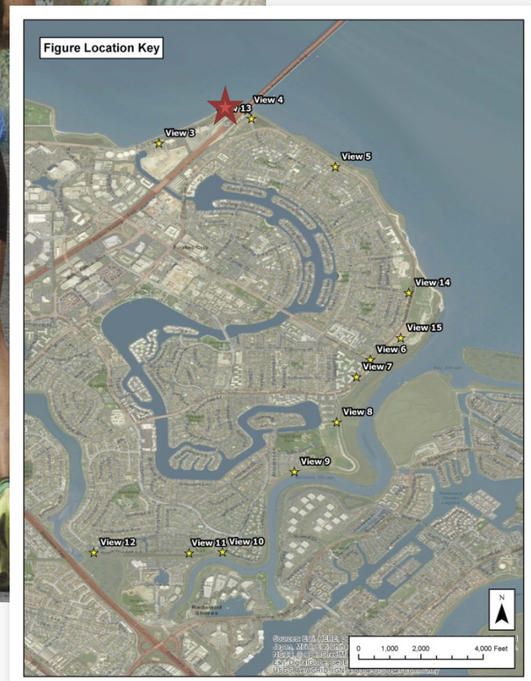
Unfinished Steel



Near San Mateo City Limit

Typical View between Mariner's Point and San Mateo Bridge

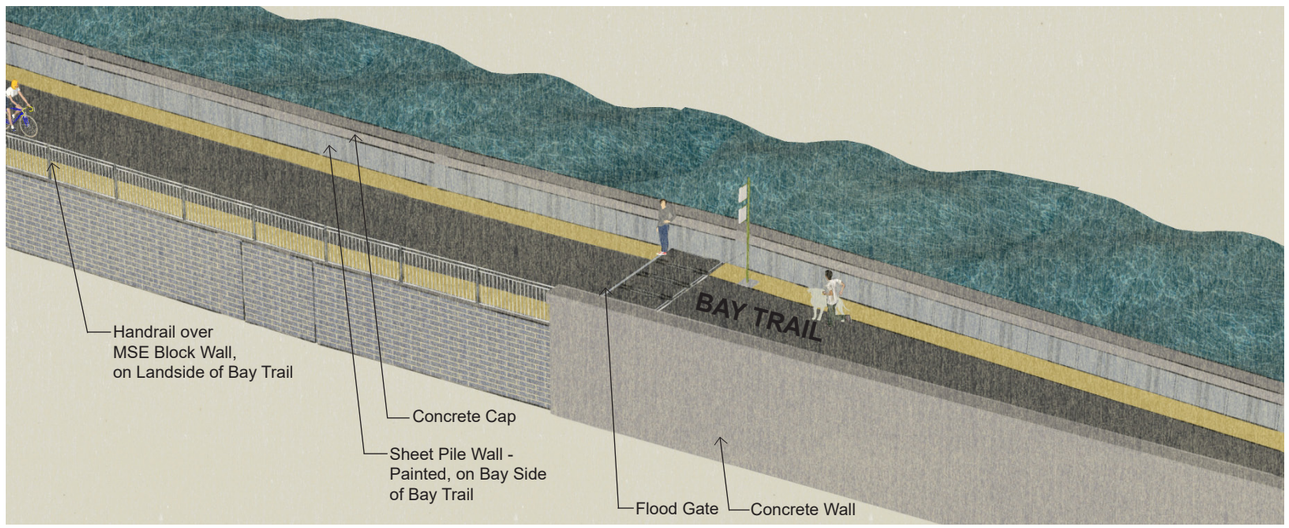




San Mateo Bridge Undercrossing

Key Plan

View B- Looking East Beneath the San Mateo Bridge/ SR92

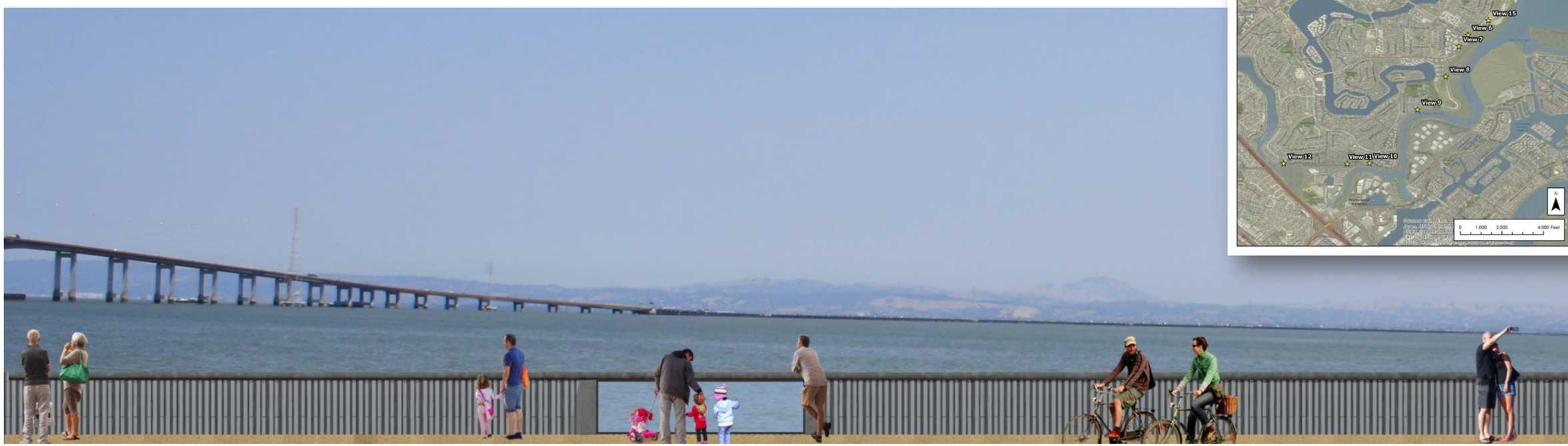


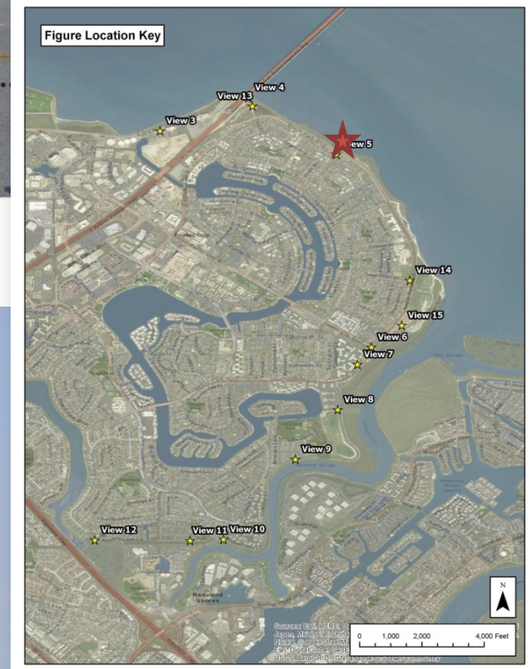
View A- Transition at Floodbreak adjacent to San Mateo Bridge

MSI ARCHITECTS

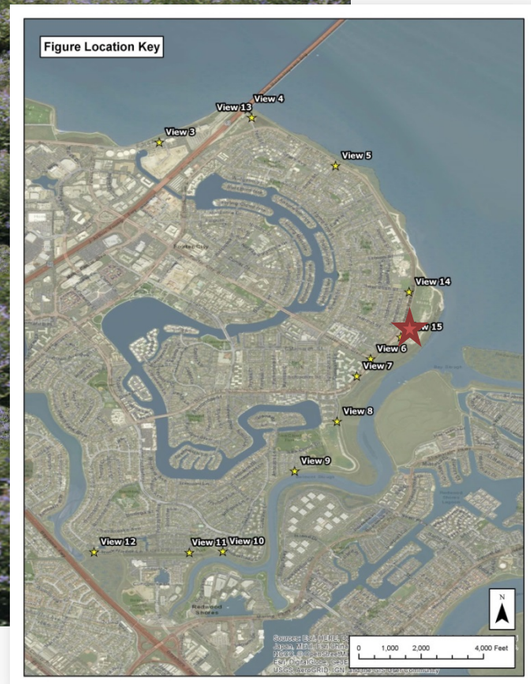
Bridgeview Park

Typical View of Access along Beachpark Boulevard
Levee Wall - Grey Sheetpile Wall with Steel Cap and 10'-0" Wide Glass Openings at Access Points



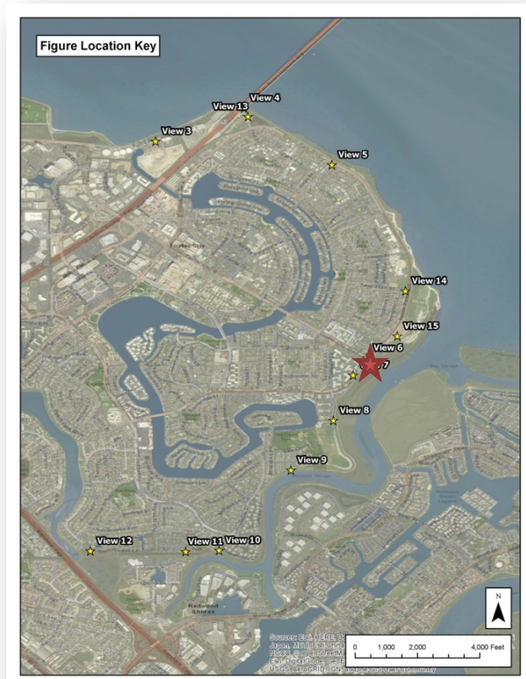


View from Bay Trail Adjacent to Beach Park Boulevard

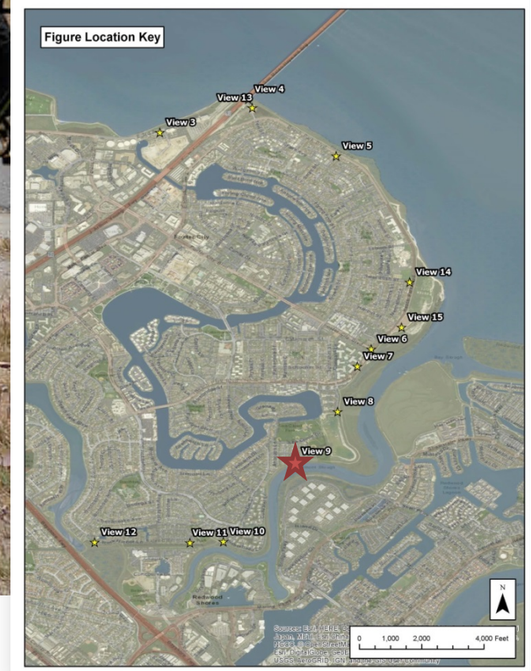


Shorebird Park

View from the Intersection of Foster City Boulevard with Beach Park Boulevard



22.0 NAVD 88
21.0
20.0
19.0
18.0
17.0
16.0
15.0
14.0
13.0
12.0 EXISTING LEVEE
11.0
10.0 TRAIL EXISTING
TRAIL 2050 SLR
09.0
08.0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View 3
View 5
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View 15
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View 8
View 9
View 12
View 11
View 10
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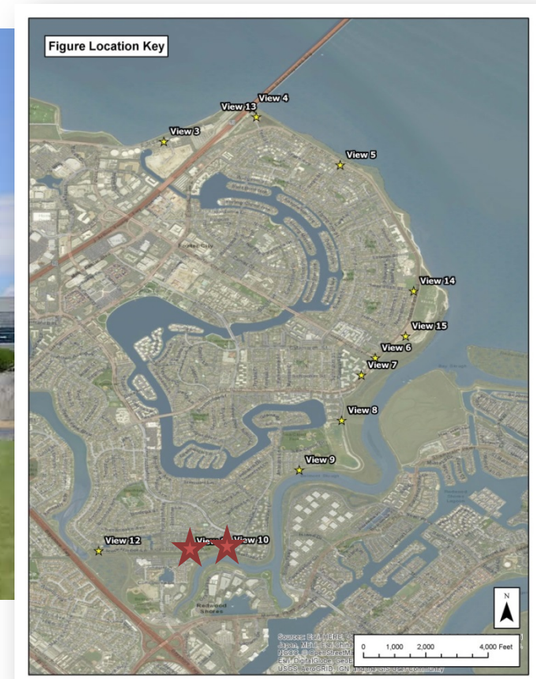
CUTWATER LN.
PARKING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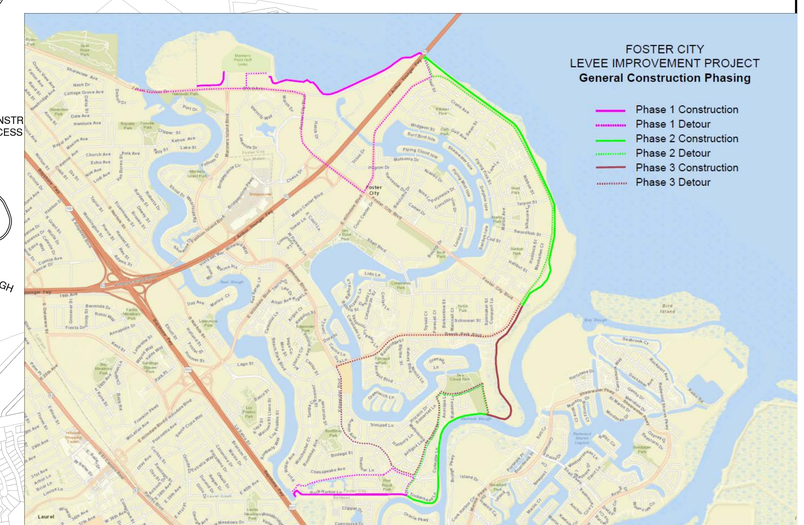
0 1,000 2,000 4,000 Feet



BAY TRAIL HAUL ROUTES

NO SCALE

FOR REVIEW – NOT FOR CONSTRUCTION

DATE:	8/31/2018
SCALE:	AS SHOWN
DRAWN BY:	ES
PROJECT NUMBER:	FOST.12.16
DESIGNED BY:	ES
CHECKED BY:	CDA
SURVEYED BY:	WILSEY-HAM

APPROVED:

NORM DORAIS, PUBLIC WORKS DIRECTOR/CITY ENGINEER
CITY OF FOSTER CITY

DATE — 57220 R.C.E. # — 12/21/2019 EXPIRES

NO.	BY	DATE	REVISIONS

CITY OF FOSTER CITY
PUBLIC WORKS DEPARTMENT
610 FOSTER CITY BOULEVARD, FOSTER CITY, CA 94404
PHONE (650) 286-3270 FAX (650) 345-4626

REGISTERED PROFESSIONAL ENGINEER — CHARLES D. ANDERSON — No. 43776 — CIVIL — STATE OF CALIFORNIA — PRELIMINARY NOT FOR CONSTRUCTION

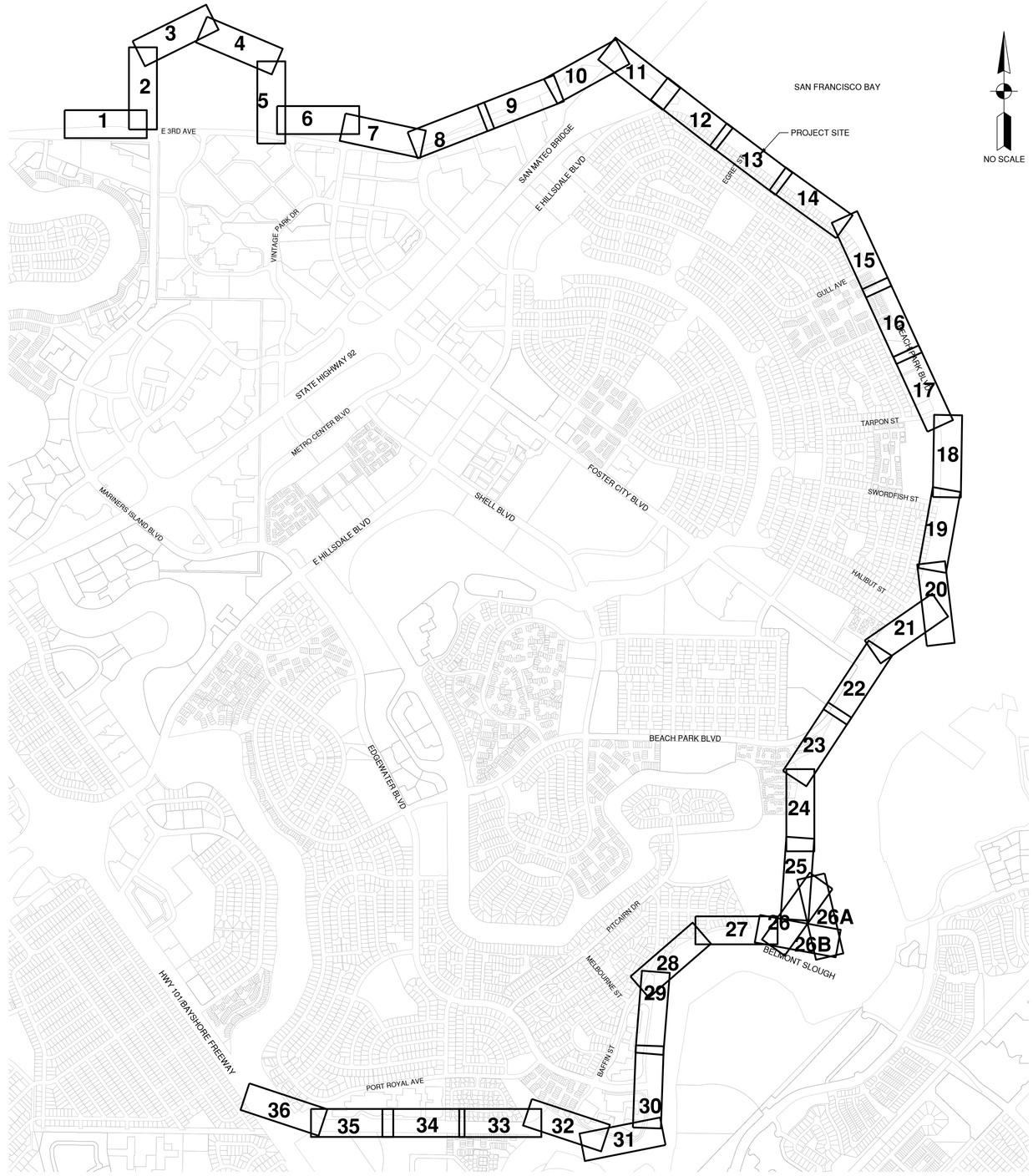
Schaaf & Wheeler
CONSULTING CIVIL ENGINEERS
1171 HOMESTEAD ROAD, STE 255
SANTA CLARA, CA 95050
(408) 246-4848

FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657
SITE ACCESS AND HAUL ROUTES

SHEET
G 05
SHEET 005 OF xxx
CIP PROJ. NUMBER
CIP 301-657

PLOT DATE: 11/27/2018 FILE PATH: J:\FOST\12-levee_final\design\Drawings\90%\design drawings\General (G)\SHEET 05 HAUL ROUTES.dwg

XREFS: X-Title Block



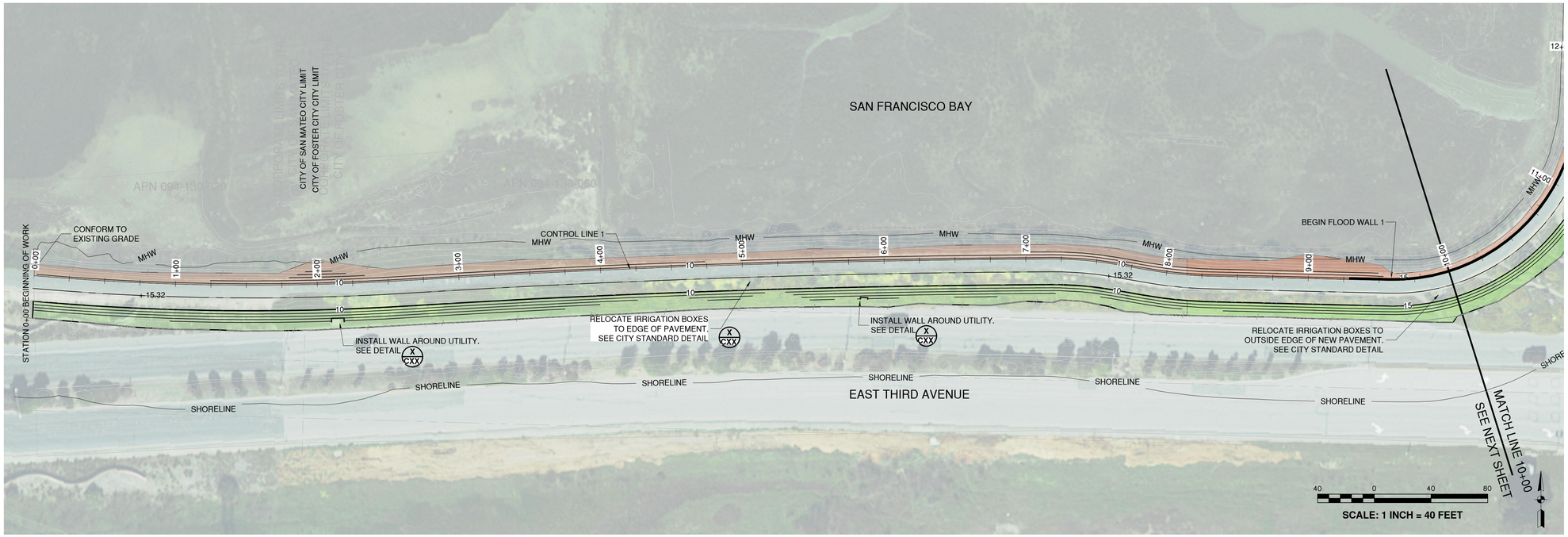
FOR REVIEW – NOT FOR CONSTRUCTION

DATE: 8/31/2018 SCALE: AS SHOWN DRAWN BY: ARO PROJECT NUMBER: FOST.12.16 DESIGNED BY: ARO CHECKED BY: CDA SURVEYED BY: WILSEY–HAM	APPROVED: NORM DORAIS, PUBLIC WORKS DIRECTOR/CITY ENGINEER CITY OF FOSTER CITY DATE — 57220 R.C.E. # — 12/21/2019 EXPIRES	NO. BY DATE REVISIONS	CITY OF FOSTER CITY PUBLIC WORKS DEPARTMENT 610 FOSTER CITY BOULEVARD, FOSTER CITY, CA 94404 PHONE (650) 286-3270 FAX (650) 345-4626	REGISTERED PROFESSIONAL ENGINEER CHRIS D. ARKES No. 43778 CIVIL STATE OF CALIFORNIA PRELIMINARY NOT FOR CONSTRUCTION	Schaaf & Wheeler CONSULTING CIVIL ENGINEERS 1171 HOMESTEAD ROAD, STE 255 SANTA CLARA, CA 95050 (408) 246-4848

FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657
SHEET INDEX

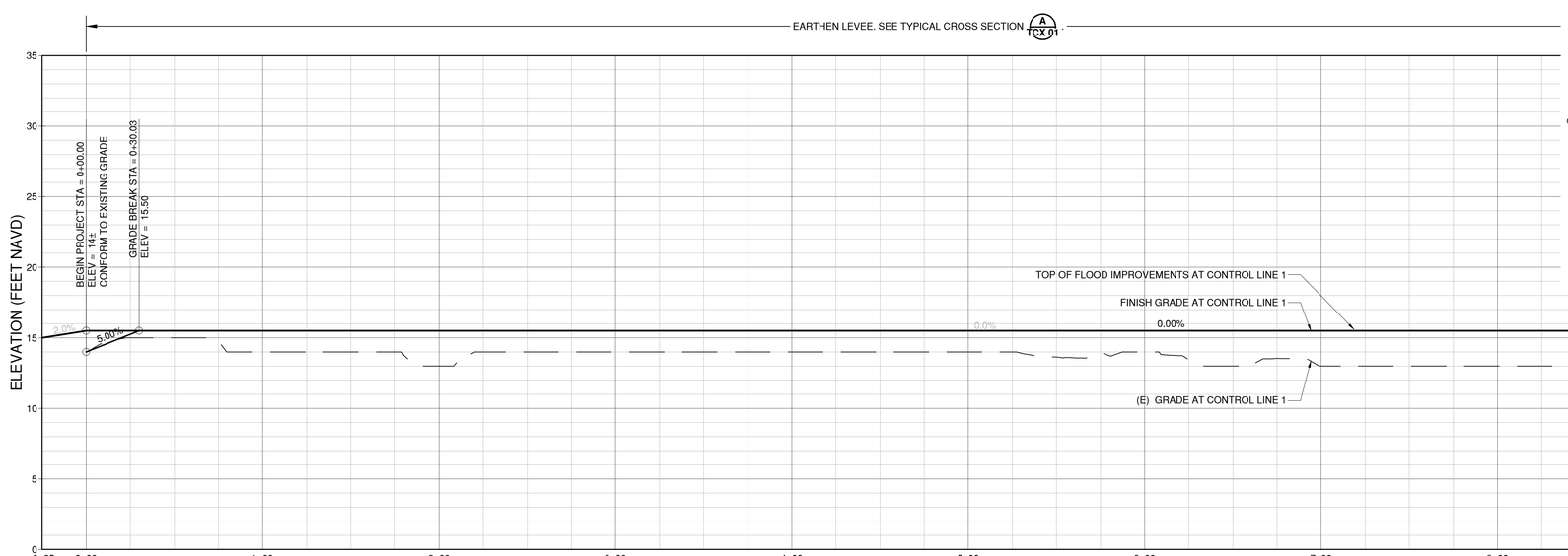
SHEET G 03
SHEET 003 OF xxxx
CIP PROJ. NUMBER CIP 301–657

PLOT DATE: 11/27/2018 FILE PATH: J:\FOST\12-levee_final\design\Drawings\90%\design drawings\General (G)\SHEET 03 SHEET INDEX.dwg



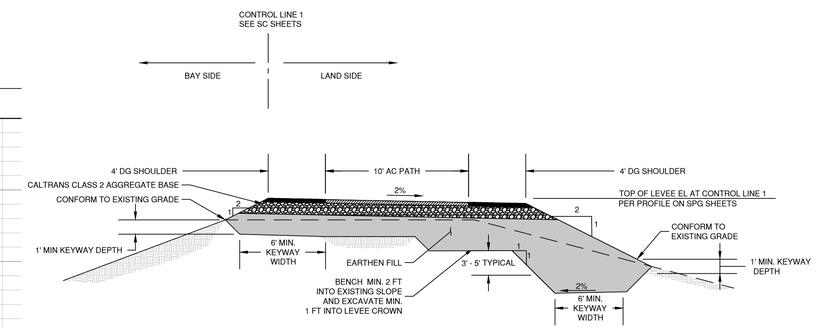
LEGEND

- ICE PLANT
- NATIVE PLANTING
- CONTAINER PLANTING
- OTHER PLANTING
- MHW — MEAN HIGH WATER LINE
- SHORELINE — BCDC SHORELINE BAND
- FLOODWALL



PROFILE AT CONTROL LINE 1

HORIZ.SCALE: 1" = 40'
VERT. SCALE: 1" = 5'



TYPICAL SECTION A

SCALE: 1 = 5'

FOR REVIEW – NOT FOR CONSTRUCTION

DATE: 1/25/2019	APPROVED:	NO.	BY	DATE	REVISIONS
SCALE: AS SHOWN					
DRAWN BY: ARO	NORM DORAIS, PUBLIC WORKS DIRECTOR/CITY ENGINEER				
PROJECT NUMBER: FOST.12.16	CITY OF FOSTER CITY				
DESIGNED BY: ARO					
CHECKED BY: CDA	DATE / 57220 R.C.E. # / 12/21/2019 EXPIRES				
SURVEYED BY: WILSEY-HAM					

CITY OF FOSTER CITY
PUBLIC WORKS DEPARTMENT
610 FOSTER CITY BOULEVARD, FOSTER CITY, CA 94404
PHONE (650) 286-3270 FAX (650) 345-4626

REGISTERED PROFESSIONAL ENGINEER CHRIS D. KNEPPER No. 43776 CIVIL STATE OF CALIFORNIA
PRELIMINARY NOT FOR CONSTRUCTION

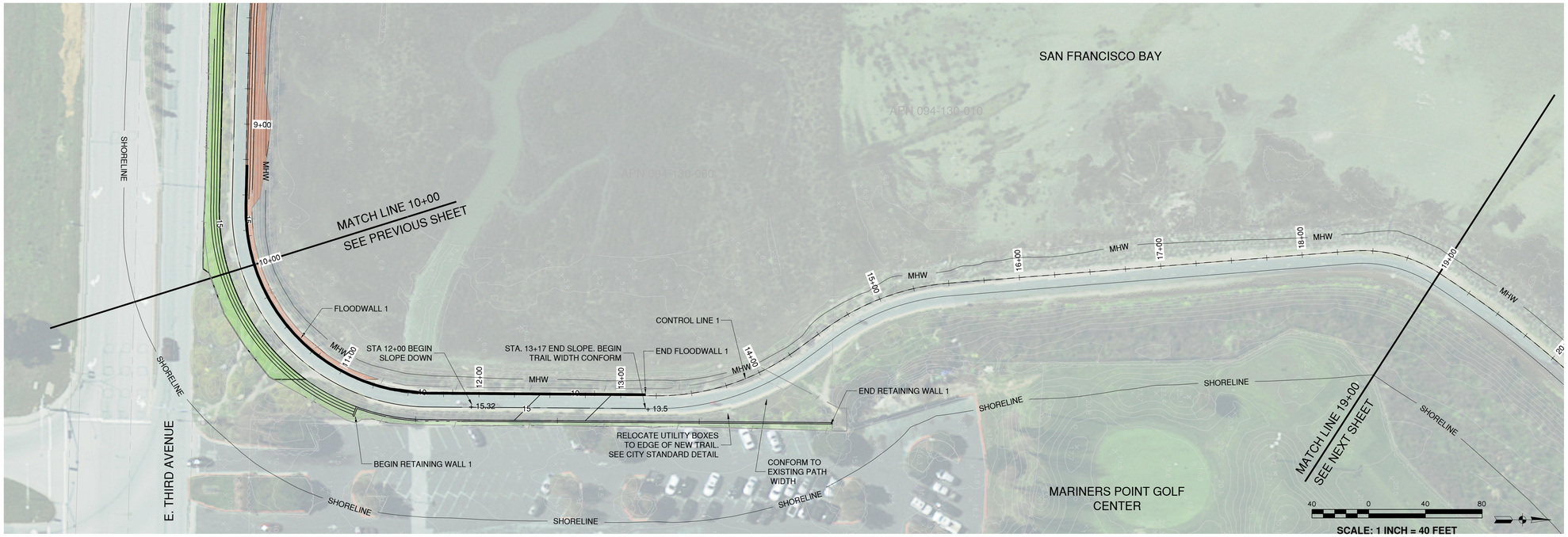
Schaaf & Wheeler
CONSULTING CIVIL ENGINEERS
1171 HOMESTEAD ROAD, STE 255
SANTA CLARA, CA 95050
(408) 246-4848

FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657
SHEET PILE INSTALLATION AND GRADING

SHEET
SPG 01
SHEET15 OF xxx
CIP PROJ. NUMBER
CIP 301-657

PLOT DATE: 1/31/2019 FILE PATH: J:\FOST\12-Levee_Final\Design\Drawings\CalOES Application\SPG 01-04.dwg

XREFS: X-Title Block, X-Topo - Hwy 92 Bridge, X-FINAL AERIAL TOPO - 15-753-ALL, X-UTILITIES, 90% FINAL GRADING



LEGEND

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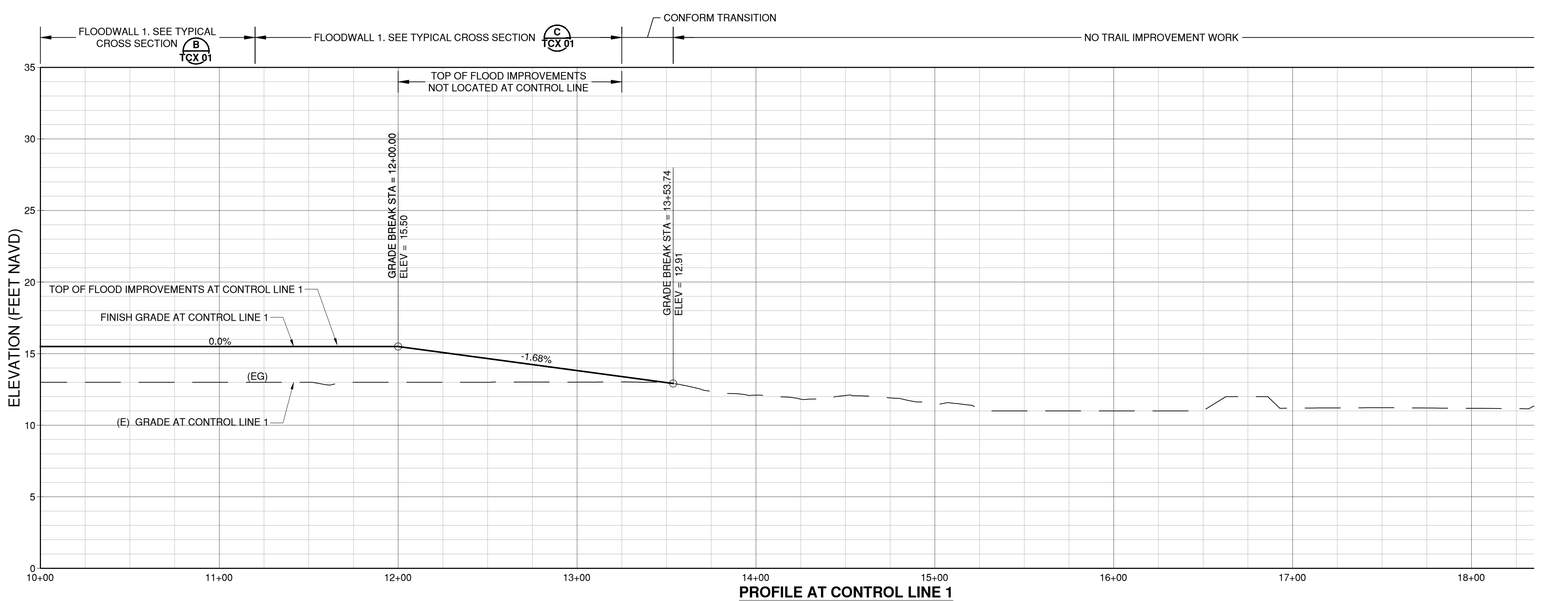

PROFILE AT CONTROL LINE 1

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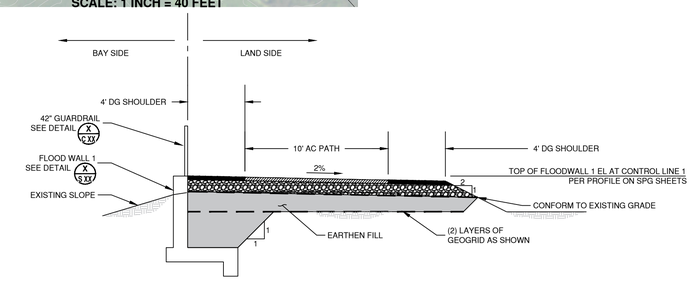
VERT. SCALE: 1" = 5'



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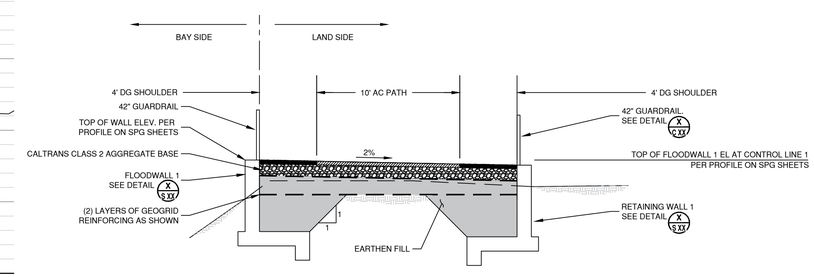

TYPICAL SECTION C

SCALE: 1 = 5'

FOR REVIEW – NOT FOR CONSTRUCTION

DATE:	1/25/2019
SCALE:	AS SHOWN
DRAWN BY:	ARO
PROJECT NUMBER:	FOST.12.16
DESIGNED BY:	ARO
CHECKED BY:	CDA
SURVEYED BY:	WILSEY-HAM

APPROVED:

NORM DORAIS, PUBLIC WORKS DIRECTOR/CITY ENGINEER
CITY OF FOSTER CITY

DATE — 57220 R.C.E. # — 12/21/2019 EXPIRES

NO.	BY	DATE	REVISIONS

CITY OF FOSTER CITY
PUBLIC WORKS DEPARTMENT
610 FOSTER CITY BOULEVARD, FOSTER CITY, CA 94404
PHONE (650) 286-3270 FAX (650) 345-4626

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CONSULTING CIVIL ENGINEERS
1171 HOMESTEAD ROAD, STE 255
SANTA CLARA, CA 95050
(408) 246-4848

FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657
SHEET PILE INSTALLATION AND GRADING

SHEET
SPG 02
SHEET16 OF xxx
CIP PROJ. NUMBER
CIP 301-657

PLOT DATE: 1/31/2019 FILE PATH: J:\FOST\12-Levee_Final\Design\Drawings\CalOES Application\SPG 01-04.dwg

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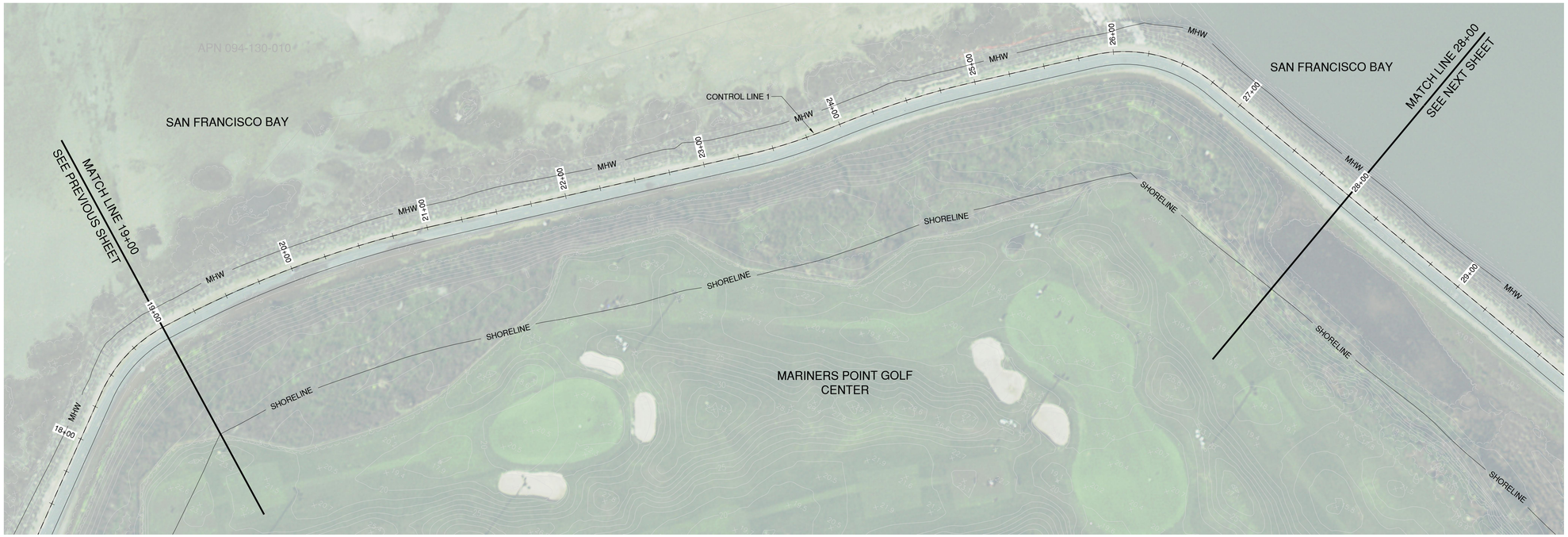

LEGEND

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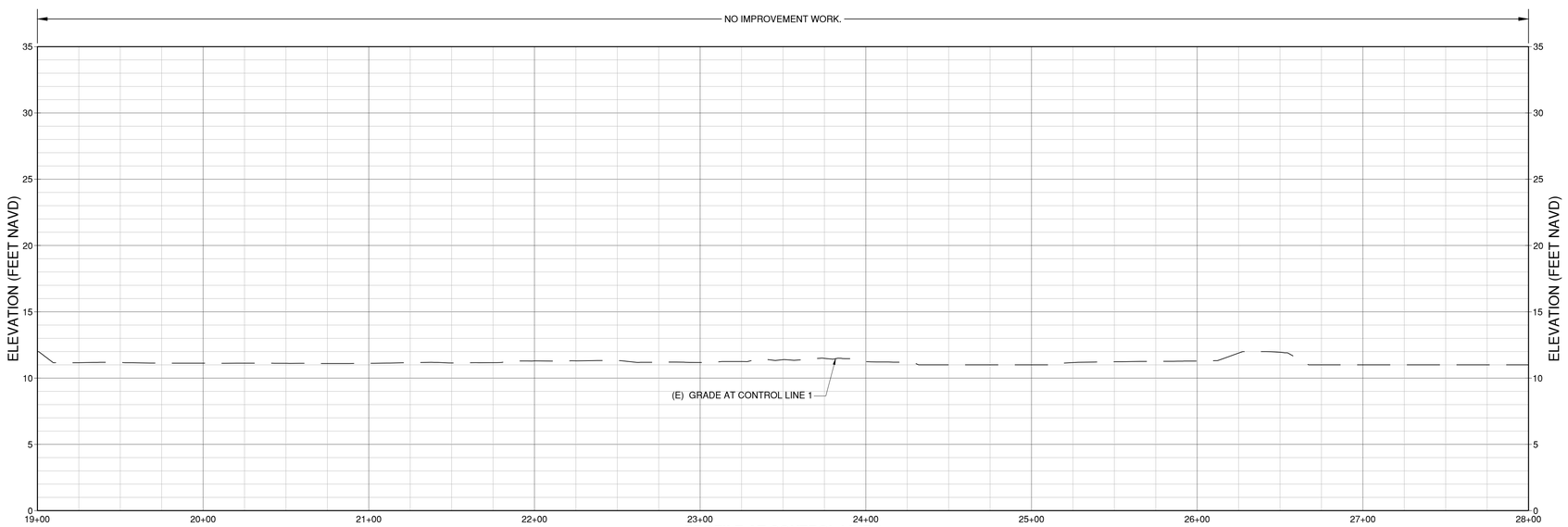
- FLOODWALL

40 0 40 80

SCALE: 1 INCH = 40 FEET



PROFILE AT CONTROL LINE 1

HORIZ.SCALE: 1" = 40'
VERT. SCALE: 1" = 5'

FOR REVIEW – NOT FOR CONSTRUCTION

DATE: 1/25/2019
SCALE: AS SHOWN
DRAWN BY: ARO
PROJECT NUMBER: FOST.12.16
DESIGNED BY: ARO
CHECKED BY: CDA
SURVEYED BY: WILSEY–HAM

APPROVED:

NORM DORAIS, PUBLIC WORKS DIRECTOR/CITY ENGINEER
CITY OF FOSTER CITY

DATE — 57220 R.C.E. # — 12/21/2019 EXPIRES

NO.	BY	DATE	REVISIONS

CITY OF FOSTER CITY
PUBLIC WORKS DEPARTMENT
610 FOSTER CITY BOULEVARD, FOSTER CITY, CA 94404
PHONE (650) 286-3270 FAX (650) 345-4626

REGISTERED PROFESSIONAL ENGINEER — CHRISTOPHER D. ALLEN — No. 43776 — CIVIL — STATE OF CALIFORNIA
NOT FOR CONSTRUCTION

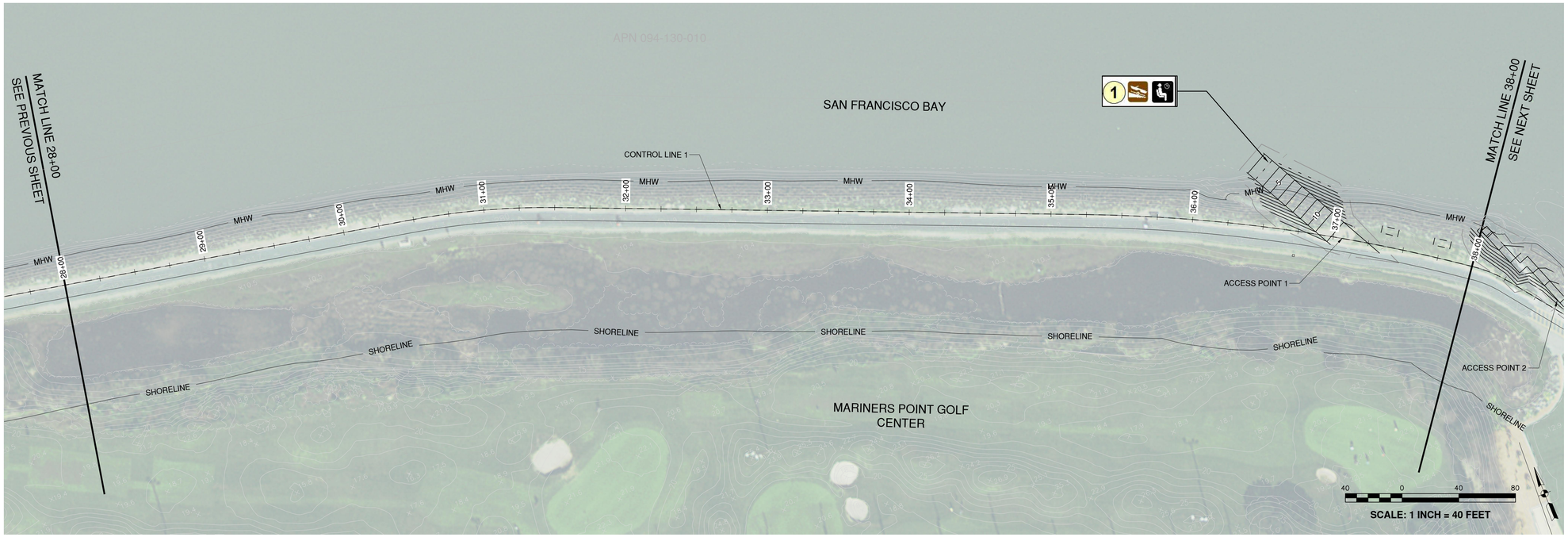
Schaaf & Wheeler
CONSULTING CIVIL ENGINEERS
1171 HOMESTEAD ROAD, STE 255
SANTA CLARA, CA 95050
(408) 246-4848

FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657
SHEET PILE INSTALLATION AND GRADING

SHEET
SPG 03
SHEET17 OF xxx
CIP PROJ. NUMBER
CIP 301–657

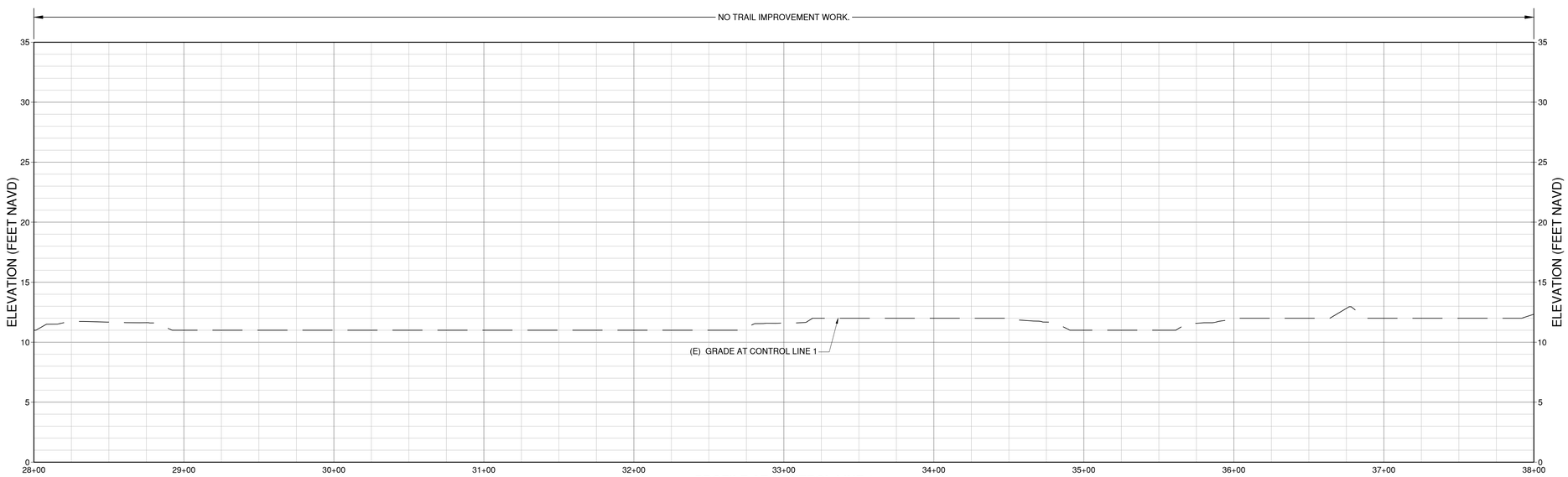
PLOT DATE: 1/31/2019 FILE PATH: J:\FOST\12-Levee_Final\Design\Drawings\CalOES Application\SPG 01-04.dwg

XREFS: X-Title Block, X-Topo - Hwy 92 Bridge, X-FINAL AERIAL TOPO - 15-753-ALL, X-UTILITIES, 90% FINAL GRADING



LEGEND

- ICE PLANT
- NATIVE PLANTING
- CONTAINER PLANTING
- OTHER PLANTING
- MHW — MEAN HIGH WATER LINE
- SHORELINE — BCDC SHORELINE BAND
- FLOODWALL



PROFILE AT CONTROL LINE 1

HORIZ.SCALE: 1" = 40'
VERT. SCALE: 1" = 5'

FOR REVIEW – NOT FOR CONSTRUCTION

DATE: 1/25/2019	APPROVED:	NO.	BY	DATE	REVISIONS
SCALE: AS SHOWN					
DRAWN BY: ARO	NORM DORAIS, PUBLIC WORKS DIRECTOR/CITY ENGINEER				
PROJECT NUMBER: FOST.12.16	CITY OF FOSTER CITY				
DESIGNED BY: ARO					
CHECKED BY: CDA	DATE 57220 R.C.E. # 12/21/2019 EXPIRES				
SURVEYED BY: WILSEY–HAM					

CITY OF FOSTER CITY
PUBLIC WORKS DEPARTMENT
610 FOSTER CITY BOULEVARD, FOSTER CITY, CA 94404
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REGISTERED PROFESSIONAL ENGINEER — CHRISTOPHER D. ALLEN — No. 43776 — CIVIL — STATE OF CALIFORNIA — NOT FOR CONSTRUCTION

Schaaf & Wheeler
CONSULTING CIVIL ENGINEERS
1171 HOMESTEAD ROAD, STE 255
SANTA CLARA, CA 95050
(408) 246-4848

FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657
SHEET PILE INSTALLATION AND GRADING

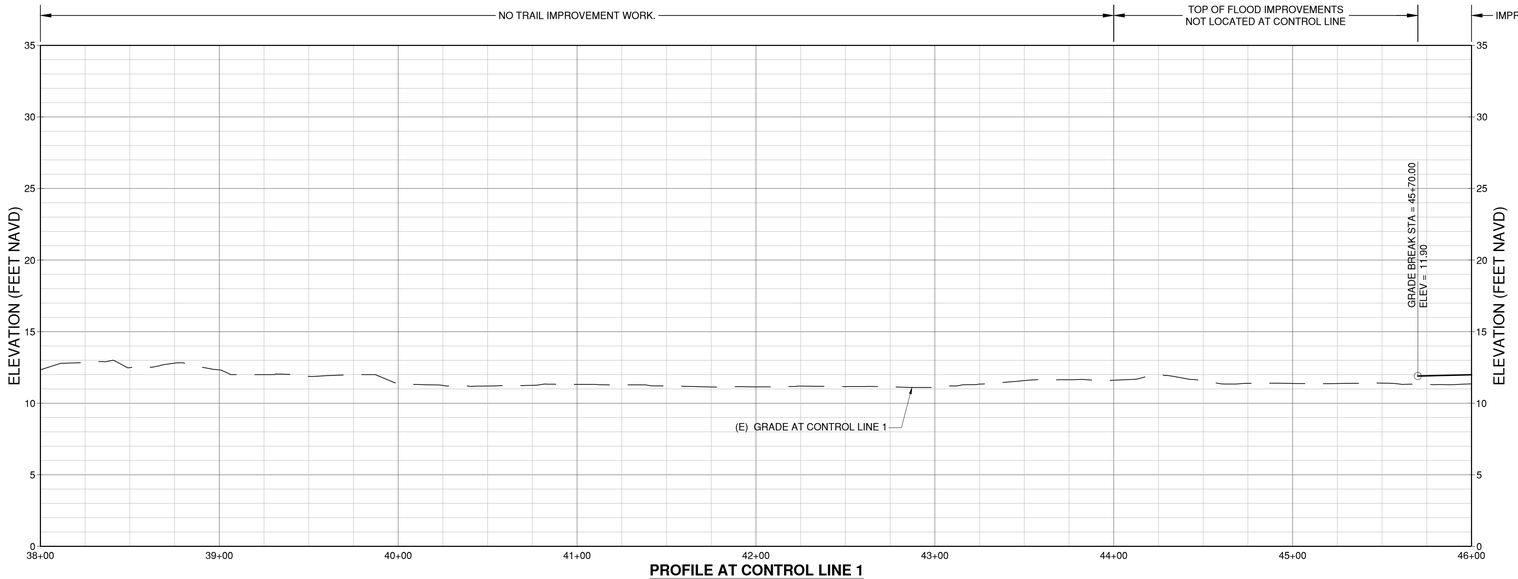
SHEET
SPG 04
SHEET 18 OF xxx
CIP PROJ. NUMBER
CIP 301–657

PLOT DATE: 1/31/2019 FILE PATH: J:\FOST\12-Levee_Final\Design\Drawings\CalOES Application\SPG 01-04.dwg

XREFS: X-Title Block, X-Topo - Hwy 92 Bridge, X-FINAL AERIAL TOPO - 15-753-ALL, X-UTILITIES, 90% FINAL GRADING

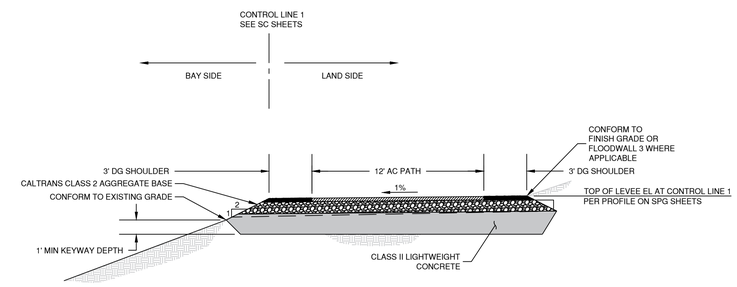
LEGEND

- ICE PLANT
- NATIVE PLANTING
- CONTAINER PLANTING
- OTHER PLANTING
- MHW — MEAN HIGH WATER LINE
- SHORELINE — BCDC SHORELINE BAND
- FLOODWALL



PROFILE AT CONTROL LINE 1

HORIZ.SCALE: 1" = 40'
VERT. SCALE: 1" = 5'



TYPICAL SECTION D

SCALE: 1 = 5'

FOR REVIEW – NOT FOR CONSTRUCTION

DATE: 1/25/2019
SCALE: AS SHOWN
DRAWN BY: ARO
PROJECT NUMBER: FOST.12.16
DESIGNED BY: ARO
CHECKED BY: CDA
SURVEYED BY: WILSEY-HAM

APPROVED:

NORM DORAIS, PUBLIC WORKS DIRECTOR/CITY ENGINEER
CITY OF FOSTER CITY

DATE — 57220 R.C.E. # — 12/21/2019 EXPIRES

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CITY OF FOSTER CITY
PUBLIC WORKS DEPARTMENT
610 FOSTER CITY BOULEVARD, FOSTER CITY, CA 94404
PHONE (650) 286-3270 FAX (650) 345-4626

REGISTERED PROFESSIONAL ENGINEER — FRANCIS D. NUGENT — No. 43776 — CIVIL — STATE OF CALIFORNIA — NOT FOR CONSTRUCTION

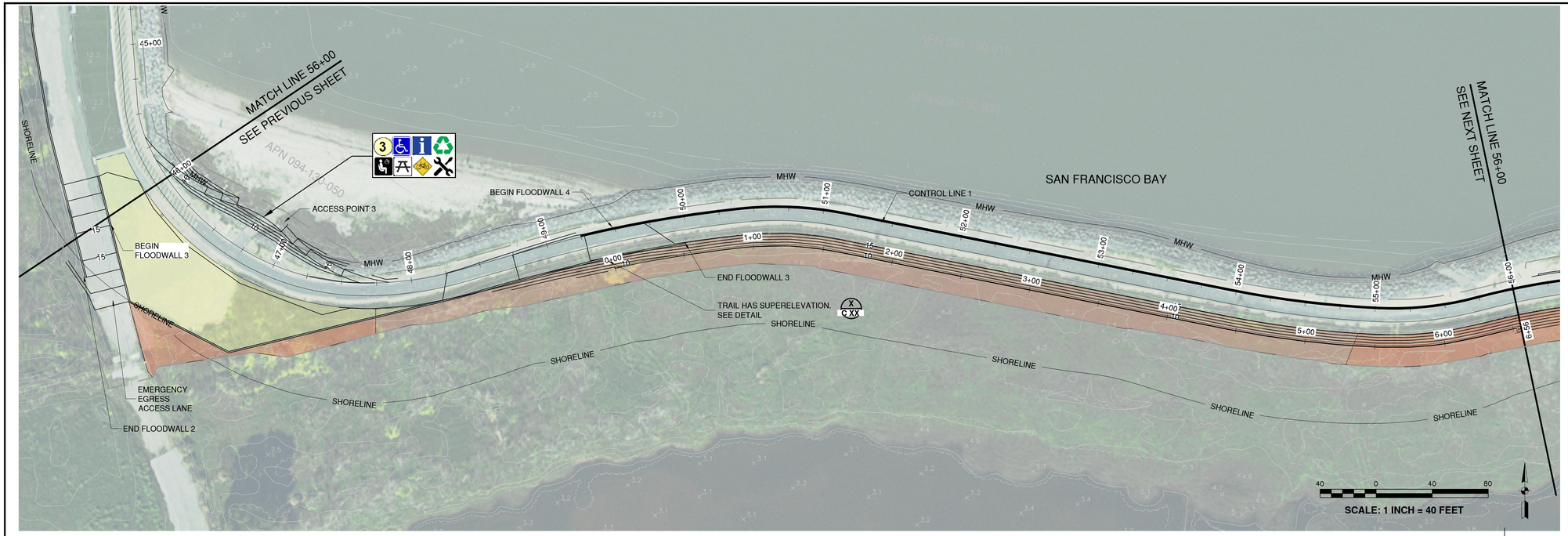
Schaaf & Wheeler
CONSULTING CIVIL ENGINEERS
1171 HOMESTEAD ROAD, STE 255
SANTA CLARA, CA 95050
(408) 246-4848

FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657
SHEET PILE INSTALLATION AND GRADING

SHEET
SPG 05
SHEET19 OF xxx
CIP PROJ. NUMBER
CIP 301-657

PLOT DATE: 1/31/2019 FILE PATH: J:\FOST\12-Levee_FinalDesign\Drawings\CalOES-Application\SPG 05-10.dwg

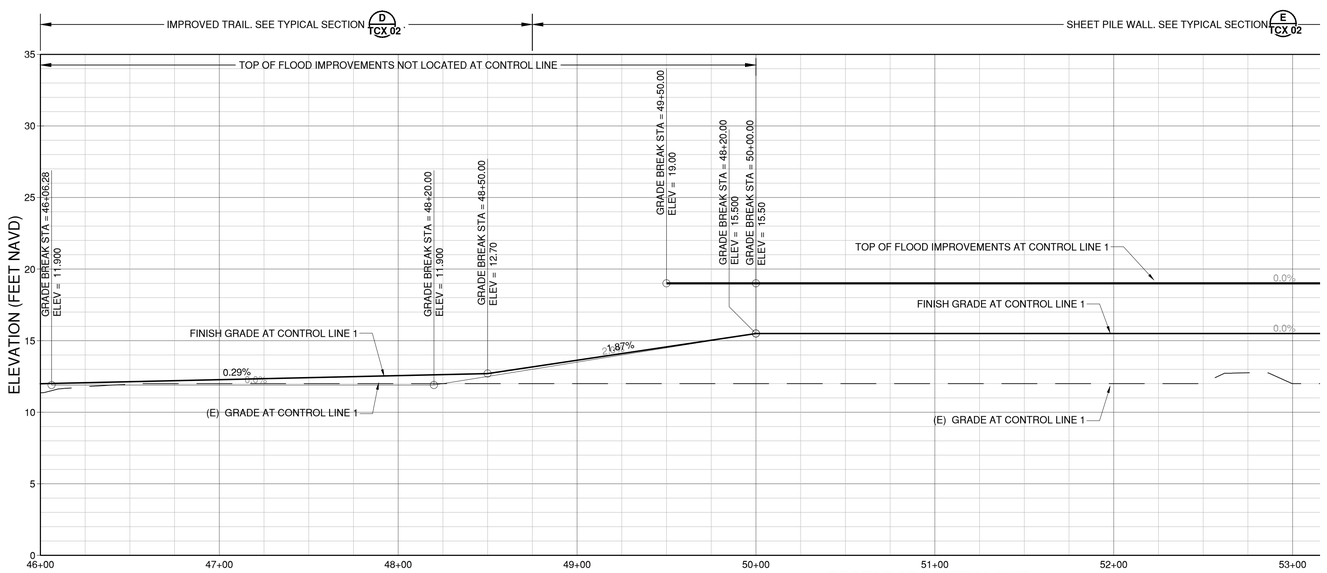
XREFS: X-Title Block, X-Topo - Hwy 92 Bridge, X-FINAL AERIAL TOPO - 15-753-ALL, X-UTILITIES, 90% FINAL GRADING



LEGEND

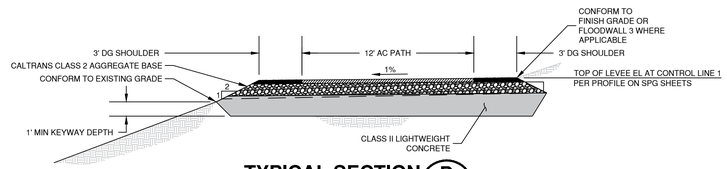
- ICE PLANT
- NATIVE PLANTING
- CONTAINER PLANTING
- OTHER PLANTING
- MHW — MEAN HIGH WATER LINE
- SHORELINE — BCDC SHORELINE BAND
- FLOODWALL

BAY SIDE | LAND SIDE



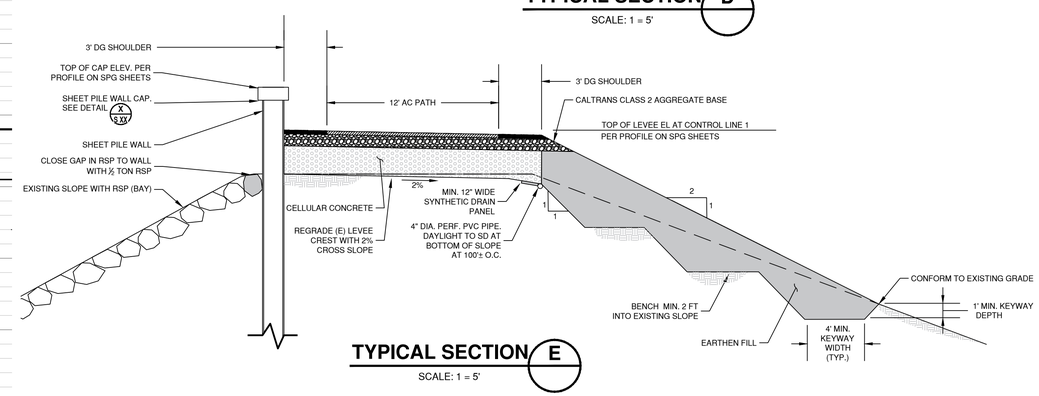
PROFILE AT CONTROL LINE 1

HORIZ.SCALE: 1" = 40'
VERT. SCALE: 1" = 5'



TYPICAL SECTION D

SCALE: 1 = 5'



TYPICAL SECTION E

SCALE: 1 = 5'

FOR REVIEW – NOT FOR CONSTRUCTION

DATE:	1/25/2019
SCALE:	AS SHOWN
DRAWN BY:	ARO
PROJECT NUMBER:	FOST.12.16
DESIGNED BY:	ARO
CHECKED BY:	CDA
SURVEYED BY:	WILSEY–HAM

APPROVED:

NORM DORAIS, PUBLIC WORKS DIRECTOR/CITY ENGINEER
CITY OF FOSTER CITY

DATE | 57220 R.C.E. # | 12/21/2019 EXPIRES

NO.	BY	DATE	REVISIONS

CITY OF FOSTER CITY
PUBLIC WORKS DEPARTMENT
610 FOSTER CITY BOULEVARD, FOSTER CITY, CA 94404
PHONE (650) 286-3270 FAX (650) 345-4626

REGISTERED PROFESSIONAL ENGINEER CHARLES D. ARGENTI No. 43776 CIVIL STATE OF CALIFORNIA
PRELIMINARY NOT FOR CONSTRUCTION

Schaaf & Wheeler
CONSULTING CIVIL ENGINEERS
1171 HOMESTEAD ROAD, STE 255
SANTA CLARA, CA 95050
(408) 246-4848

FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657
SHEET PILE INSTALLATION AND GRADING

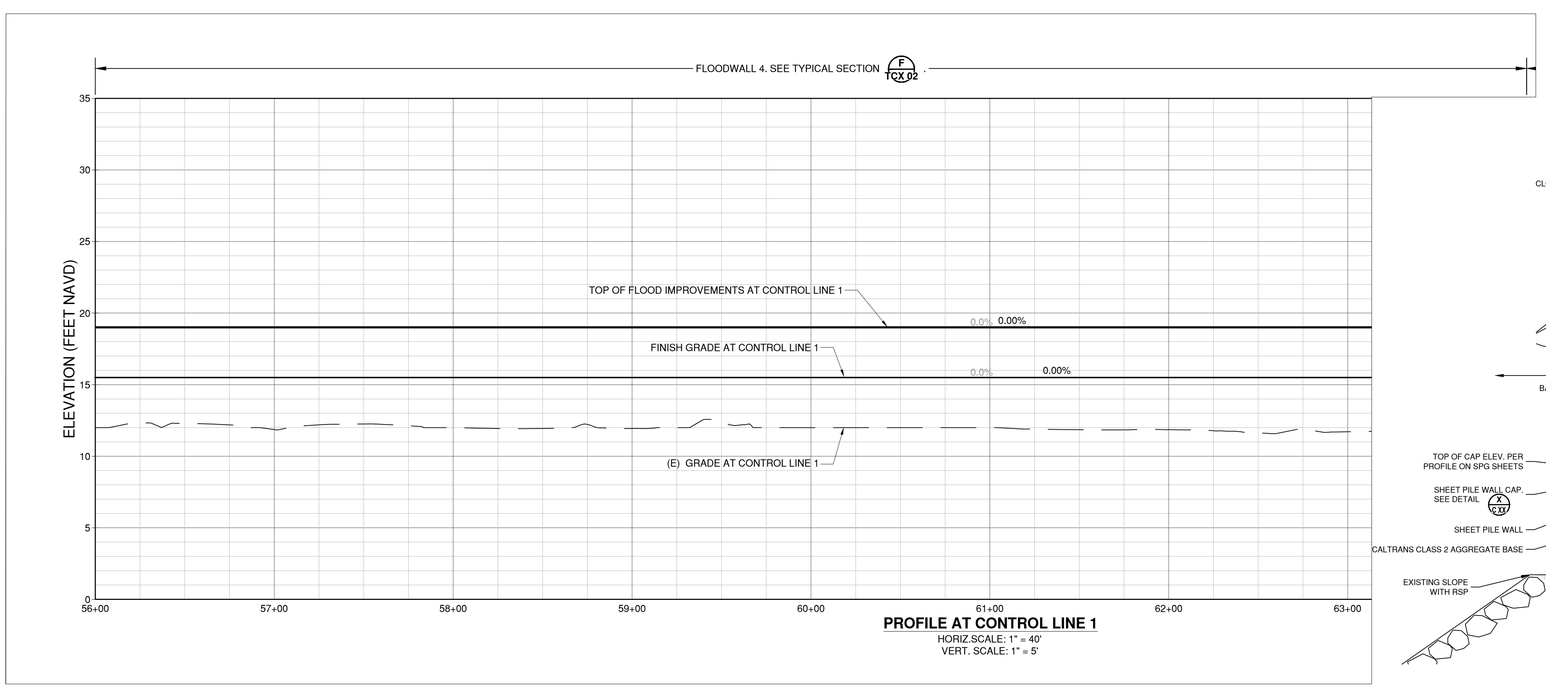
SHEET
SPG 06
SHEET 20 OF xxx
CIP PROJ. NUMBER
CIP 301–657

PLOT DATE: 1/31/2019 FILE PATH: J:\FOST\12-Levee_Final\Design\Drawings\CalOES Application\SPG 05-10.dwg

XREFS: X-Title Block, X-Topo - Hwy 92 Bridge, X-FINAL AERIAL TOPO - 15-753-ALL, X-UTILITIES, 90% FINAL GRADING

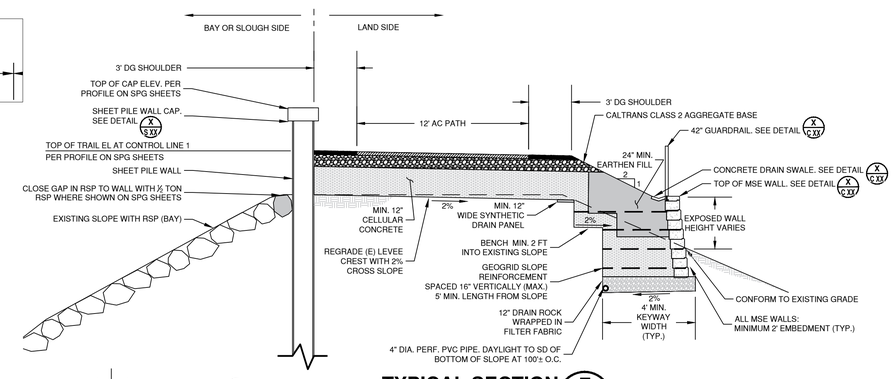
LEGEND

- ICE PLANT
- NATIVE PLANTING
- CONTAINER PLANTING
- OTHER PLANTING
- MHW — MEAN HIGH WATER LINE
- SHORELINE — BCDC SHORELINE BAND
- FLOODWALL



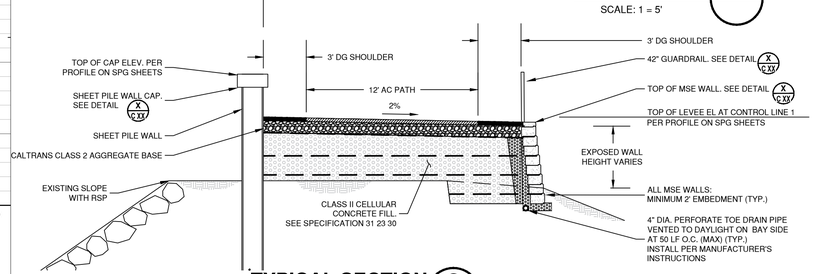
PROFILE AT CONTROL LINE 1

HORIZ.SCALE: 1" = 40'
VERT. SCALE: 1" = 5'



TYPICAL SECTION F

SCALE: 1 = 5'



TYPICAL SECTION G

SCALE: 1 = 5'

FOR REVIEW – NOT FOR CONSTRUCTION

DATE: 1/25/2019
SCALE: AS SHOWN
DRAWN BY: ARO
PROJECT NUMBER: FOST.12.16
DESIGNED BY: ARO
CHECKED BY: CDA
SURVEYED BY: WILSEY-HAM

APPROVED:

NORM DORAIS, PUBLIC WORKS DIRECTOR/CITY ENGINEER
CITY OF FOSTER CITY

DATE — 57220 R.C.E. # — 12/21/2019 EXPIRES

NO.	BY	DATE	REVISIONS

CITY OF FOSTER CITY
PUBLIC WORKS DEPARTMENT
610 FOSTER CITY BOULEVARD, FOSTER CITY, CA 94404
PHONE (650) 286-3270 FAX (650) 345-4626

REGISTERED PROFESSIONAL ENGINEER — CHARLES D. HOLLOWAY — No. 43776 — CIVIL — STATE OF CALIFORNIA — PRELIMINARY NOT FOR CONSTRUCTION

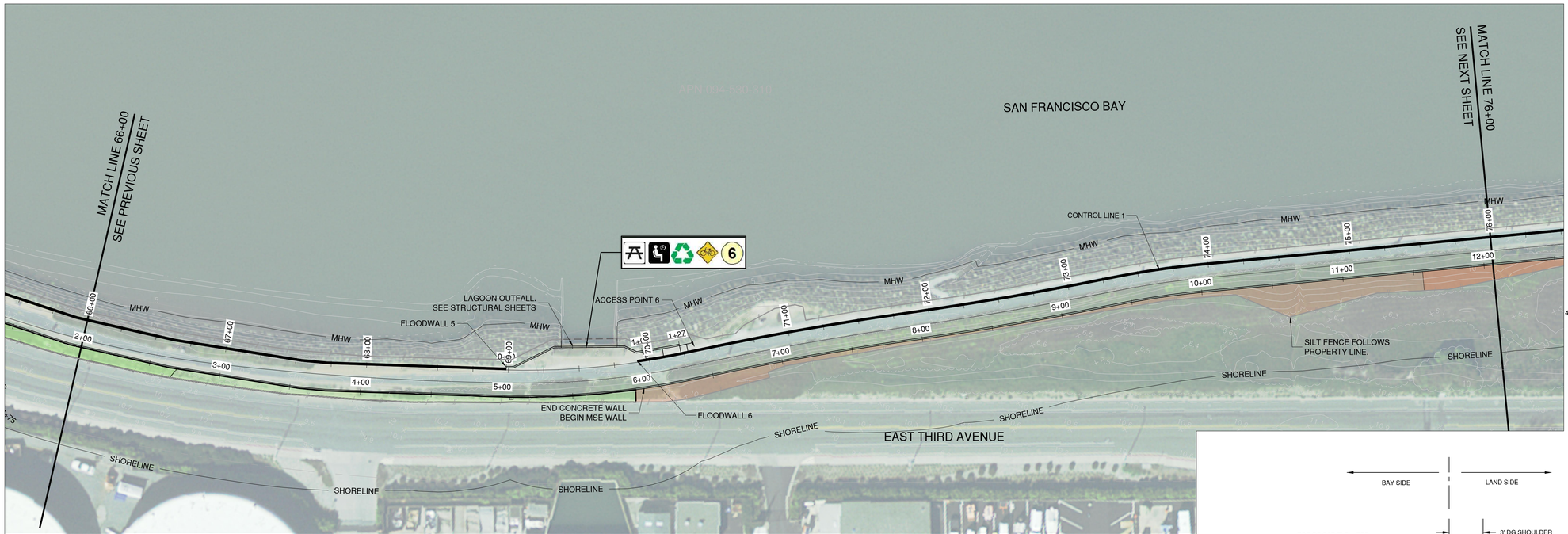
Schaaf & Wheeler
CONSULTING CIVIL ENGINEERS
1171 HOMESTEAD ROAD, STE 255
SANTA CLARA, CA 95050
(408) 246-4848

FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657
SHEET PILE INSTALLATION AND GRADING

SHEET
SPG 07
SHEET 21 OF xxx
CIP PROJ. NUMBER
CIP 301-657

PLOT DATE: 1/31/2019 FILE PATH: J:\FOST\12-Levee_Final\Design\Drawings\CalOES Application\SPG 05-10.dwg

XREFS: X-Title Block, X-Topo - Hwy 92 Bridge, X-FINAL AERIAL TOPO - 15-753-ALL, X-UTILITIES, 90% FINAL GRADING

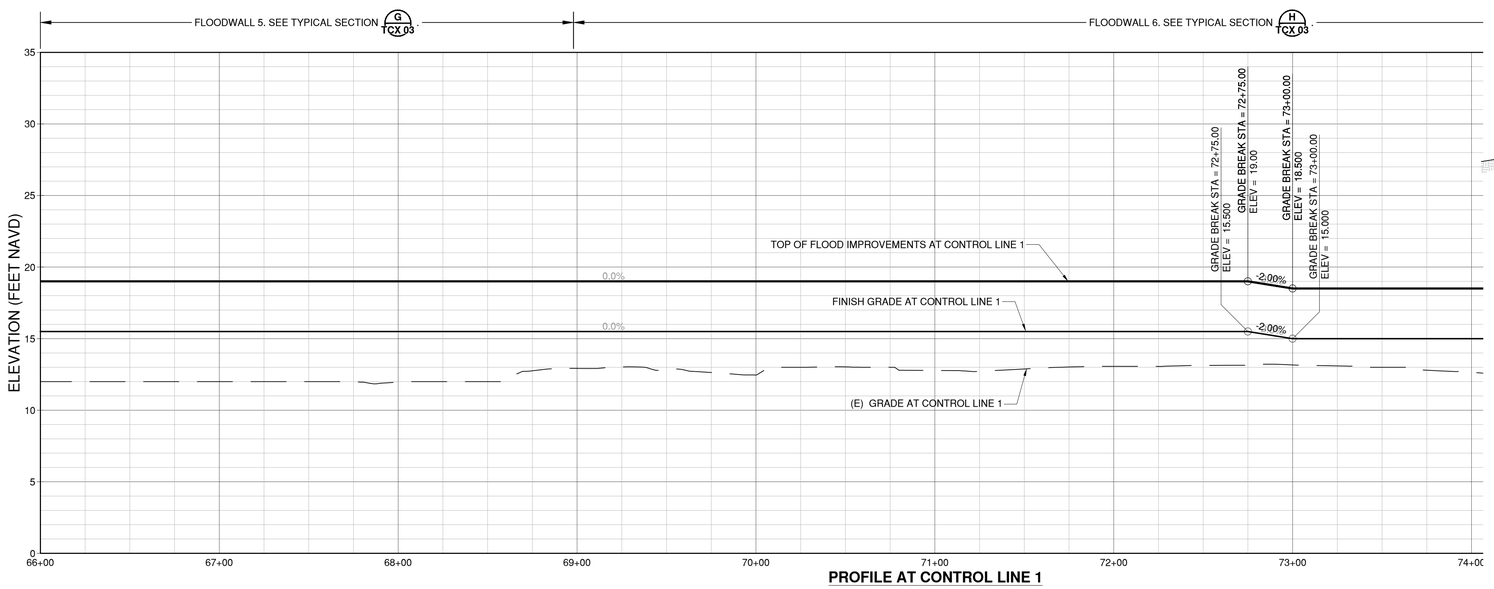


LEGEND

- ICE PLANT
- NATIVE PLANTING
- CONTAINER PLANTING
- OTHER PLANTING
- —MHW— MEAN HIGH WATER LINE
- —SHORELINE— BCDC SHORELINE BAND
- FLOODWALL

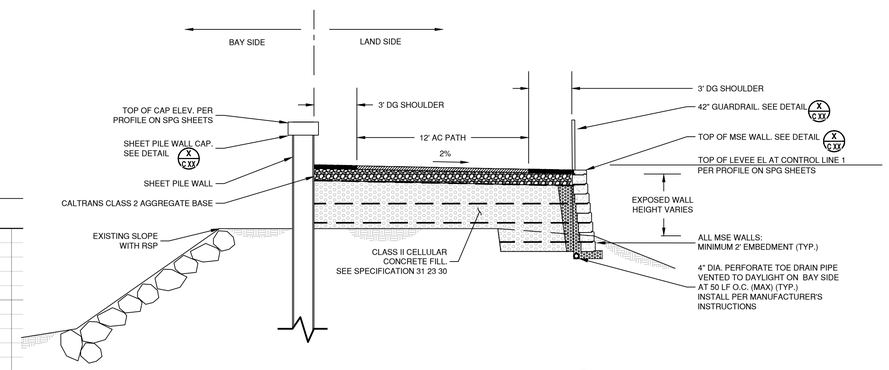
40 0 40 80

SCALE: 1 INCH = 40 FEET



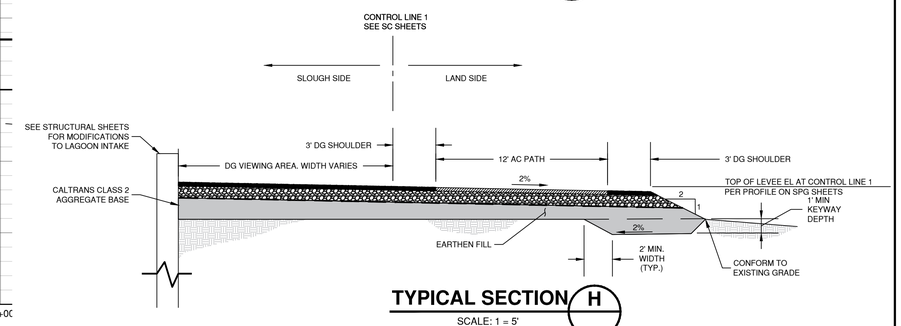
PROFILE AT CONTROL LINE 1

HORIZ.SCALE: 1" = 40'
VERT. SCALE: 1" = 5'



TYPICAL SECTION G

SCALE: 1 = 5'



TYPICAL SECTION H

SCALE: 1 = 5'

FOR REVIEW – NOT FOR CONSTRUCTION

DATE: 1/25/2019
SCALE: AS SHOWN
DRAWN BY: ARO
PROJECT NUMBER: FOST.12.16
DESIGNED BY: ARO
CHECKED BY: CDA
SURVEYED BY: WILSEY-HAM

APPROVED:

NORM DORAIS, PUBLIC WORKS DIRECTOR/CITY ENGINEER
CITY OF FOSTER CITY

DATE — 57220 R.C.E. # — 12/21/2019 EXPIRES

NO.	BY	DATE	REVISIONS

CITY OF FOSTER CITY
PUBLIC WORKS DEPARTMENT
610 FOSTER CITY BOULEVARD, FOSTER CITY, CA 94404
PHONE (650) 286-3270 FAX (650) 345-4626

REGISTERED PROFESSIONAL ENGINEER
DANIEL D. DORAIS
No. 43776
CIVIL
STATE OF CALIFORNIA
PRELIMINARY
NOT FOR CONSTRUCTION

Schaaf & Wheeler
CONSULTING CIVIL ENGINEERS
1171 HOMESTEAD ROAD, STE 255
SANTA CLARA, CA 95050
(408) 246-4848

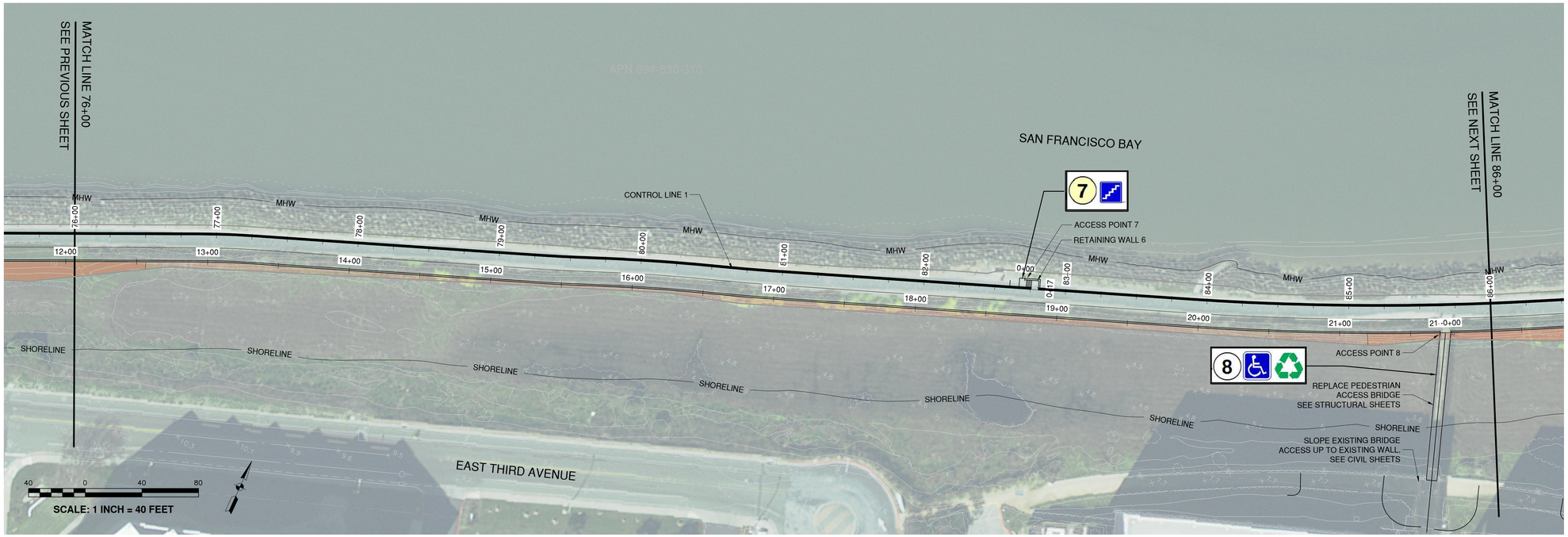
FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

SHEET PILE INSTALLATION AND GRADING

SHEET
SPG 08
SHEET 22 OF xxx
CIP PROJ. NUMBER
CIP 301-657

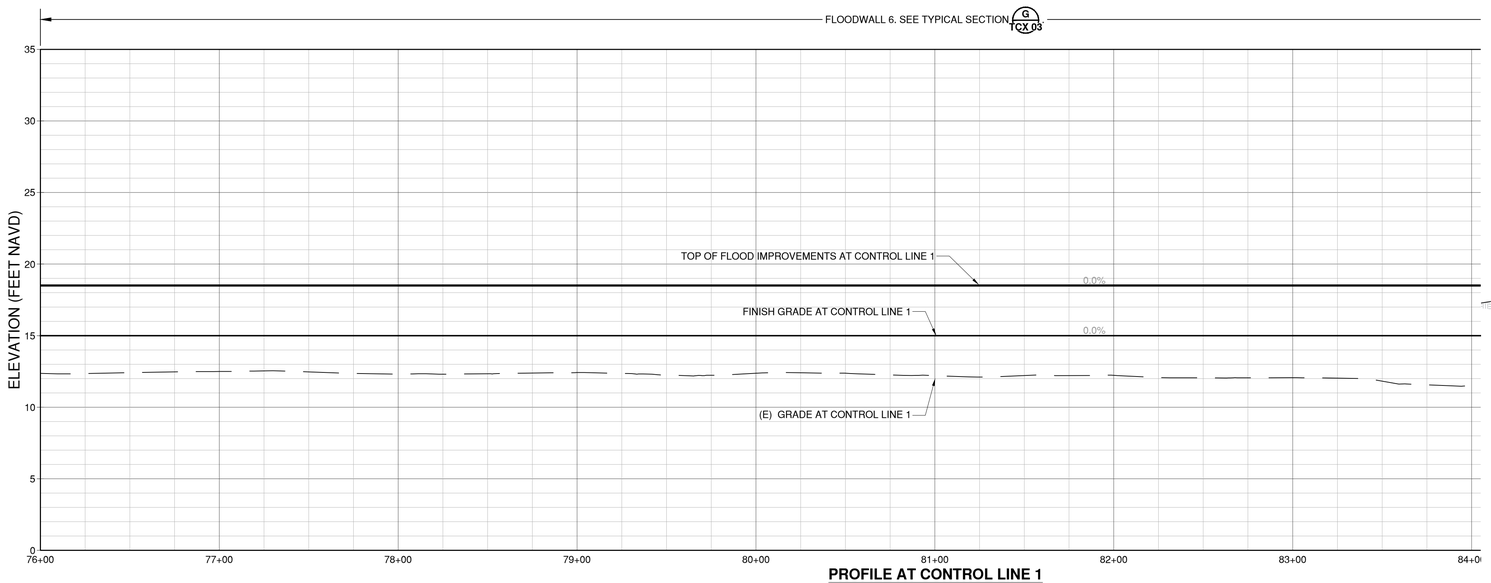
PLOT DATE: 1/31/2019 FILE PATH: J:\FOST\12.Levee_Final\Design\Drawings\CalOES Application\SPG 05-10.dwg

XREFS: X-Title Block, X-Topo - Hwy 92 Bridge, X-FINAL AERIAL TOPO - 15-753-ALL, X-UTILITIES, 90% FINAL GRADING



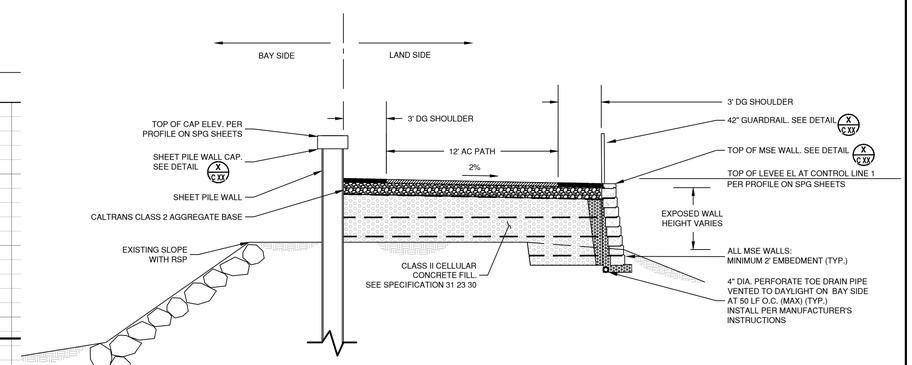
LEGEND

- ICE PLANT
- NATIVE PLANTING
- CONTAINER PLANTING
- OTHER PLANTING
- MHW — MEAN HIGH WATER LINE
- SHORELINE — BCDC SHORELINE BAND
- FLOODWALL



PROFILE AT CONTROL LINE 1

HORIZ.SCALE: 1" = 40'
VERT. SCALE: 1" = 5'



TYPICAL SECTION G

SCALE: 1 = 5'

FOR REVIEW – NOT FOR CONSTRUCTION

DATE: 1/25/2019
SCALE: AS SHOWN
DRAWN BY: ARO
PROJECT NUMBER: FOST.12.16
DESIGNED BY: ARO
CHECKED BY: CDA
SURVEYED BY: WILSEY-HAM

APPROVED:

NORM DORAIS, PUBLIC WORKS DIRECTOR/CITY ENGINEER
CITY OF FOSTER CITY

DATE — 57220 R.C.E. # — 12/21/2019 EXPIRES

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CITY OF FOSTER CITY
PUBLIC WORKS DEPARTMENT
610 FOSTER CITY BOULEVARD, FOSTER CITY, CA 94404
PHONE (650) 286-3270 FAX (650) 345-4626

REGISTERED PROFESSIONAL ENGINEER — CHARLES D. ALLEN — No. 43776 — CIVIL — STATE OF CALIFORNIA — NOT FOR CONSTRUCTION

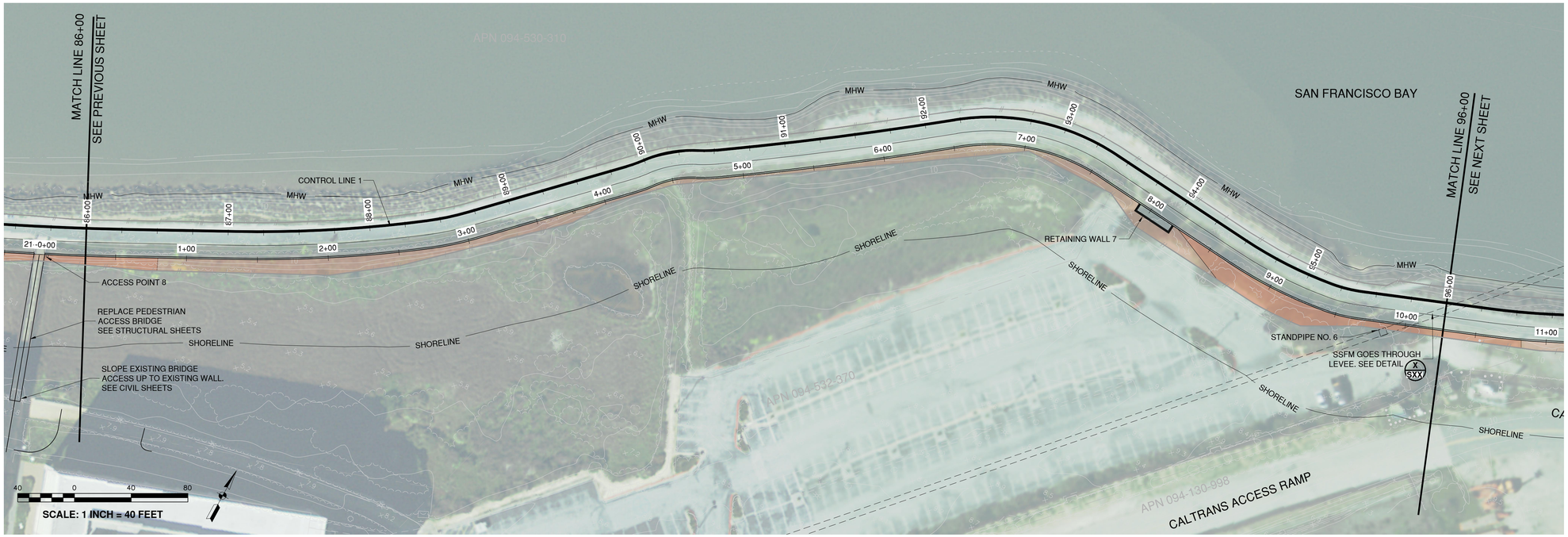
Schaaf & Wheeler
CONSULTING CIVIL ENGINEERS
1171 HOMESTEAD ROAD, STE 255
SANTA CLARA, CA 95050
(408) 246-4848

FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657
SHEET PILE INSTALLATION AND GRADING

SHEET
SPG 09
SHEET 23 OF xxx
CIP PROJ. NUMBER
CIP 301-657

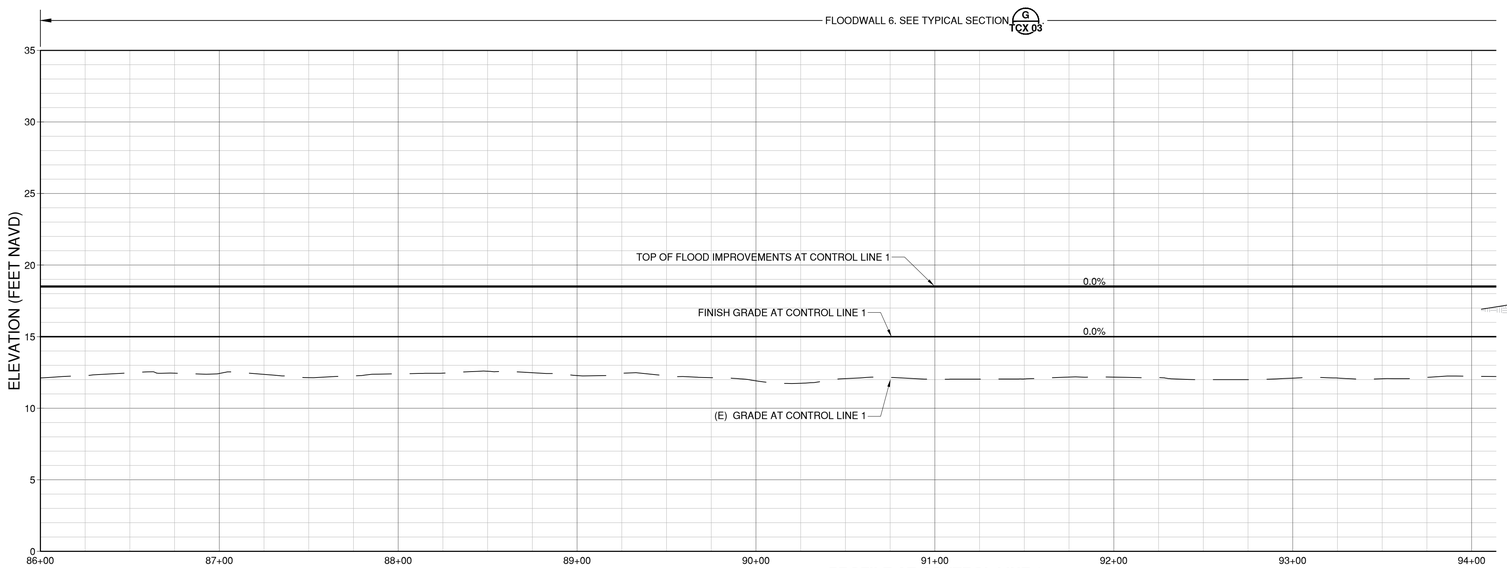
PLOT DATE: 1/31/2019 FILE PATH: J:\FOST\12-Levee_Final\Design\Drawings\CalOES Application\SPG 05-10.dwg

XREFS: X-Title Block, X-Topo - Hwy 92 Bridge, X-FINAL AERIAL TOPO - 15-753-ALL, X-UTILITIES, 90% FINAL GRADING



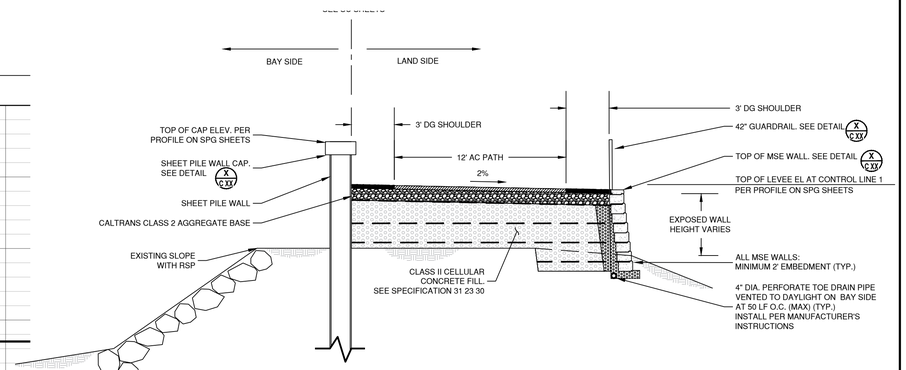
LEGEND

- ICE PLANT
- NATIVE PLANTING
- CONTAINER PLANTING
- OTHER PLANTING
- MHW — MEAN HIGH WATER LINE
- SHORELINE — BCDC SHORELINE BAND
- FLOODWALL



PROFILE AT CONTROL LINE 1

HORIZ.SCALE: 1" = 40'
VERT. SCALE: 1" = 5'



TYPICAL SECTION G

SCALE: 1 = 5'

FOR REVIEW – NOT FOR CONSTRUCTION

DATE: 1/25/2019
SCALE: AS SHOWN
DRAWN BY: ARO
PROJECT NUMBER: FOST.12.16
DESIGNED BY: ARO
CHECKED BY: CDA
SURVEYED BY: WILSEY–HAM

APPROVED:

NORM DORAIS, PUBLIC WORKS DIRECTOR/CITY ENGINEER
CITY OF FOSTER CITY

DATE — 57220 R.C.E. # — 12/21/2019 EXPIRES

NO.	BY	DATE	REVISIONS

CITY OF FOSTER CITY
PUBLIC WORKS DEPARTMENT
610 FOSTER CITY BOULEVARD, FOSTER CITY, CA 94404
PHONE (650) 286–3270 FAX (650) 345–4626

REGISTERED PROFESSIONAL ENGINEER
CHRIS D. ANDERSON
No. 43775
CIVIL
STATE OF CALIFORNIA
PRELIMINARY
NOT FOR CONSTRUCTION

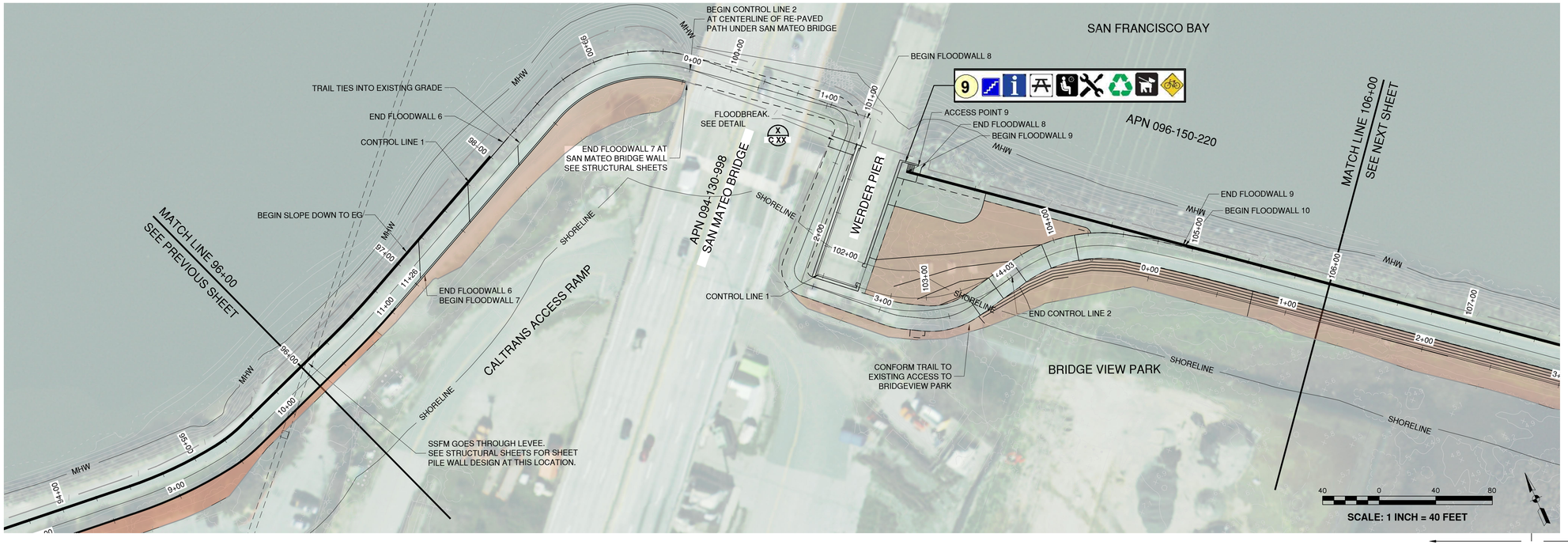
Schaaf & Wheeler
CONSULTING CIVIL ENGINEERS
1171 HOMESTEAD ROAD, STE 255
SANTA CLARA, CA 95050
(408) 246-4848

FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657
SHEET PILE INSTALLATION AND GRADING

SHEET
SPG 10
SHEET 24 OF xxx
CIP PROJ. NUMBER
CIP 301–657

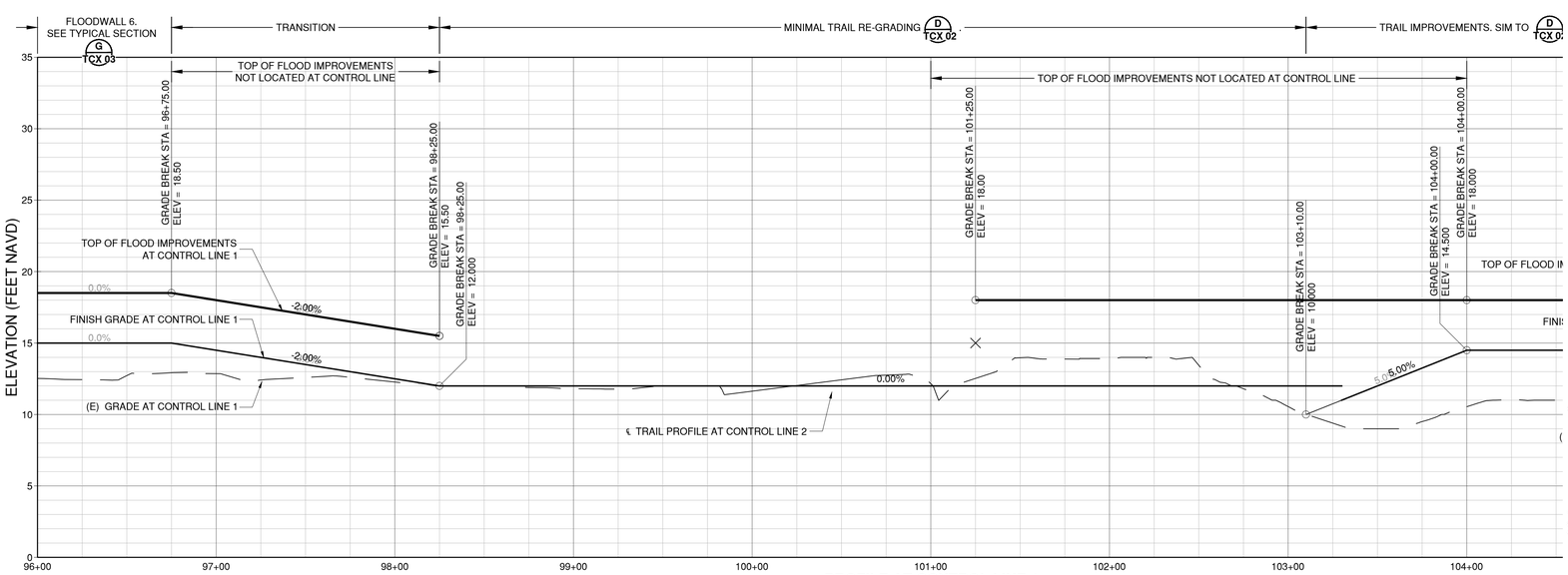
PLOT DATE: 1/31/2019 FILE PATH: J:\FOST\12-Levee_Final\Design\Drawings\CalOES Application\SPG 05-10.dwg

XREFS: X-Title Block, X-Topo - Hwy 92 Bridge, X-FINAL AERIAL TOPO - 15-753-ALL, X-UTILITIES, 90% FINAL GRADING



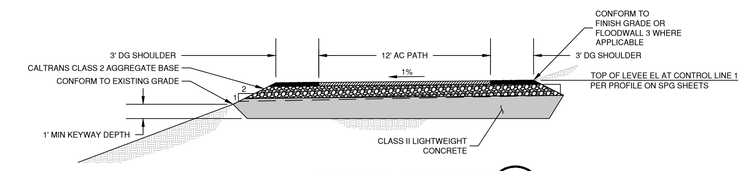
LEGEND

- ICE PLANT
- NATIVE PLANTING
- CONTAINER PLANTING
- OTHER PLANTING
- MHW — MEAN HIGH WATER LINE
- SHORELINE — BCDC SHORELINE BAND
- FLOODWALL



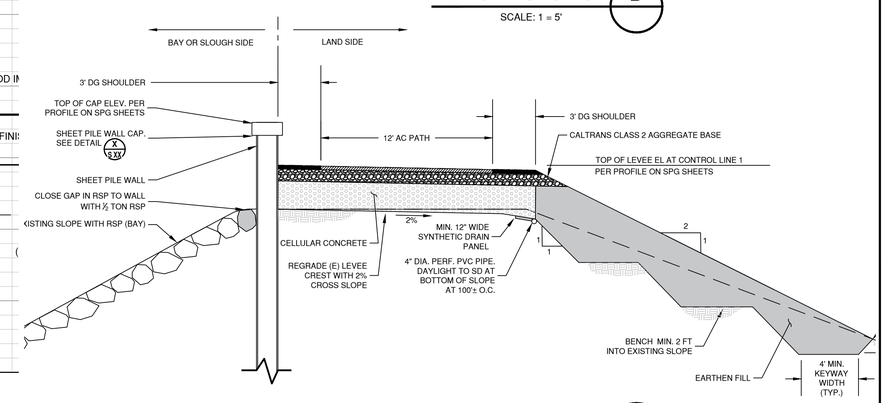
PROFILE AT CONTROL LINE 1

HORIZ.SCALE: 1" = 40'
VERT. SCALE: 1" = 5'



TYPICAL SECTION D

SCALE: 1 = 5'



TYPICAL SECTION E

SCALE: 1 = 5'

FOR REVIEW – NOT FOR CONSTRUCTION

DATE:	1/25/2019
SCALE:	AS SHOWN
DRAWN BY:	ARO
PROJECT NUMBER:	FOST.12.16
DESIGNED BY:	ARO
CHECKED BY:	CDA
SURVEYED BY:	WILSEY-HAM

APPROVED:

NORM DORAIS, PUBLIC WORKS DIRECTOR/CITY ENGINEER
CITY OF FOSTER CITY

DATE — 57220 R.C.E. # — 12/21/2019 EXPIRES

NO.	BY	DATE	REVISIONS

CITY OF FOSTER CITY
PUBLIC WORKS DEPARTMENT
610 FOSTER CITY BOULEVARD, FOSTER CITY, CA 94404
PHONE (650) 286-3270 FAX (650) 345-4626

REGISTERED PROFESSIONAL ENGINEER — CHARLES D. NUGENT — NO. 43776 — CIVIL — STATE OF CALIFORNIA
PRELIMINARY
NOT FOR CONSTRUCTION

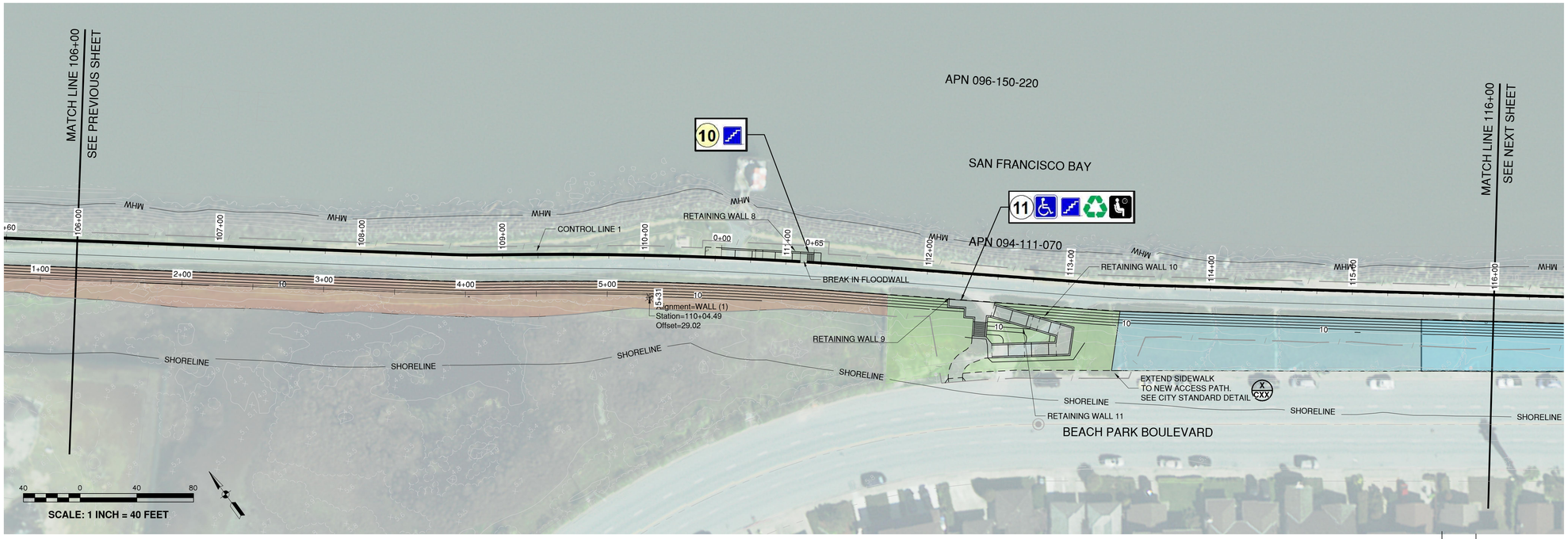
Schaaf & Wheeler
CONSULTING CIVIL ENGINEERS
1171 HOMESTEAD ROAD, STE 255
SANTA CLARA, CA 95050
(408) 246-4848

FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657
SHEET PILE INSTALLATION AND GRADING

SHEET
SPG 11
SHEET 25 OF xxx
CIP PROJ. NUMBER
CIP 301-657

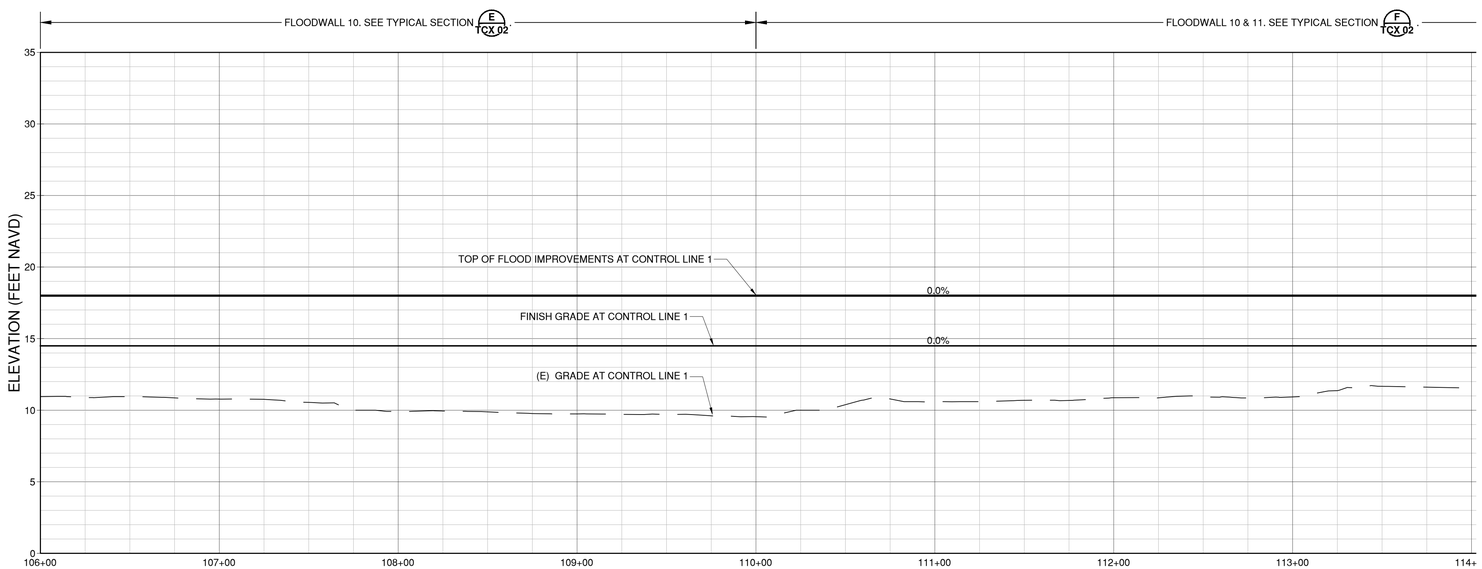
PLOT DATE: 1/31/2019 FILE PATH: J:\FOST\12-Levee_Final\Design\Drawings\CalOES Application\SPG 11.dwg

XREFS: X-Title Block, X-Topo - Hwy 92 Bridge, X-FINAL AERIAL TOPO - 15-753-ALL, X-UTILITIES, 90% FINAL GRADING



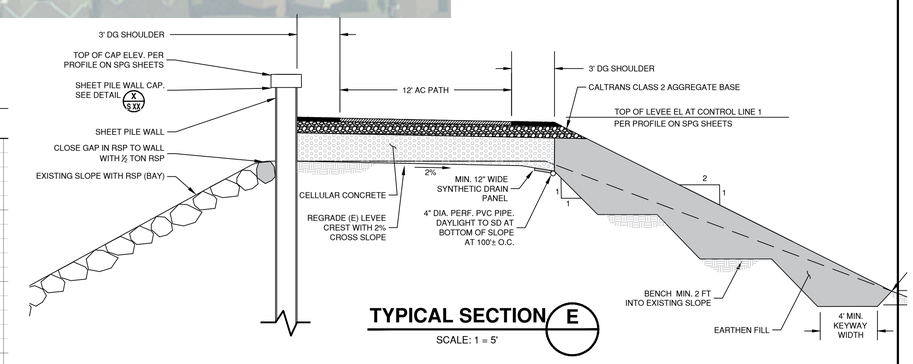
LEGEND

- ICE PLANT
- NATIVE PLANTING
- CONTAINER PLANTING
- OTHER PLANTING
- MHW — MEAN HIGH WATER LINE
- SHORELINE — BCDC SHORELINE BAND
- FLOODWALL



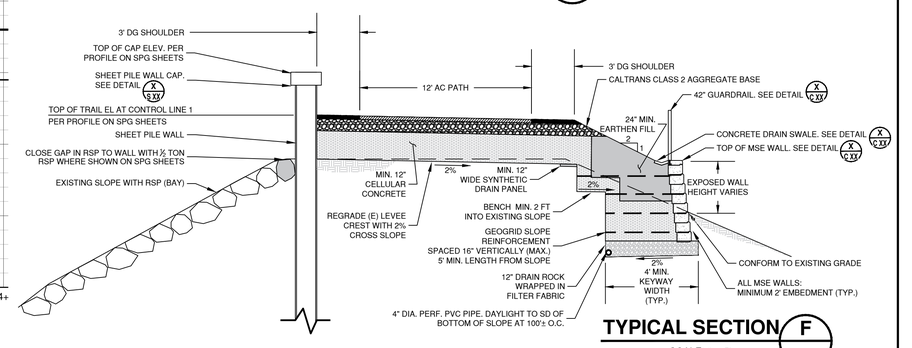
PROFILE AT CONTROL LINE 1

HORIZ.SCALE: 1" = 40'
VERT. SCALE: 1" = 5'



TYPICAL SECTION E

SCALE: 1 = 5'



TYPICAL SECTION F

SCALE: 1 = 5'

FOR REVIEW – NOT FOR CONSTRUCTION

DATE:	1/25/2019
SCALE:	AS SHOWN
DRAWN BY:	ARO
PROJECT NUMBER:	FOST.12.16
DESIGNED BY:	ARO
CHECKED BY:	CDA
SURVEYED BY:	WILSEY-HAM

APPROVED:

NORM DORAIS, PUBLIC WORKS DIRECTOR/CITY ENGINEER
CITY OF FOSTER CITY

DATE — 57220 R.C.E. # — 12/21/2019 EXPIRES

NO.	BY	DATE	REVISIONS

CITY OF FOSTER CITY
PUBLIC WORKS DEPARTMENT
610 FOSTER CITY BOULEVARD, FOSTER CITY, CA 94404
PHONE (650) 286-3270 FAX (650) 345-4626

REGISTERED PROFESSIONAL ENGINEER — PHOEBUS D. MUSCAT — No. 43776 — CIVIL — STATE OF CALIFORNIA — PRELIMINARY NOT FOR CONSTRUCTION

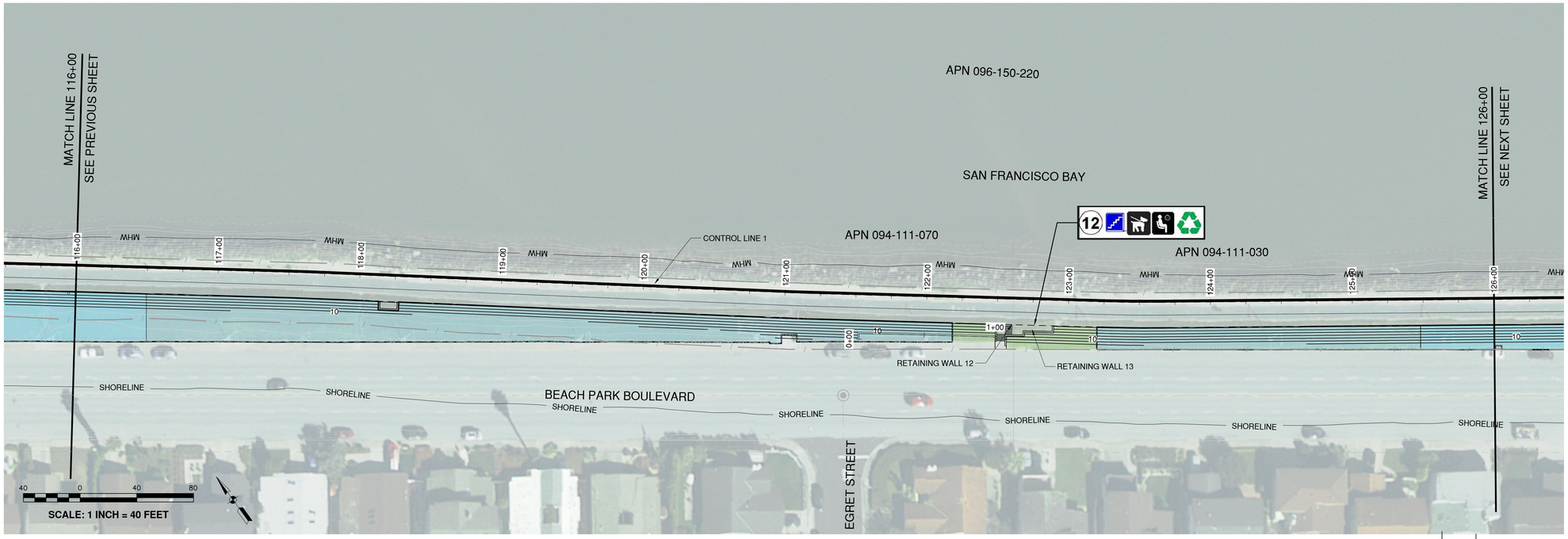
Schaaf & Wheeler
CONSULTING CIVIL ENGINEERS
1171 HOMESTEAD ROAD, STE 255
SANTA CLARA, CA 95050
(408) 246-4848

FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657
SHEET PILE INSTALLATION AND GRADING

SHEET
SPG 12
SHEET 26 OF xxx
CIP PROJ. NUMBER
CIP 301-657

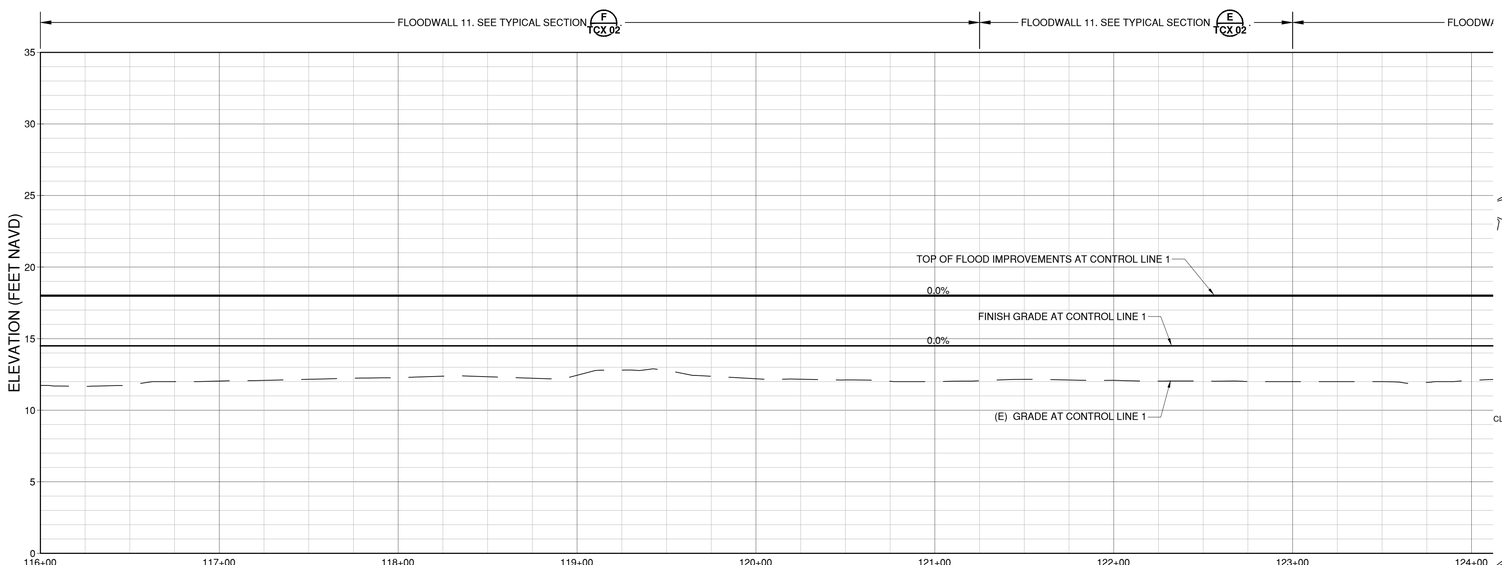
PLOT DATE: 1/31/2019 FILE PATH: J:\FOST\12.Levee_Final\Design\Drawings\CalOES Application\SPG 12.18.dwg

XREFS: X-Title Block, X-Topo - Hwy 92 Bridge, X-FINAL AERIAL TOPO - 15-753-ALL, X-UTILITIES, 90% FINAL GRADING



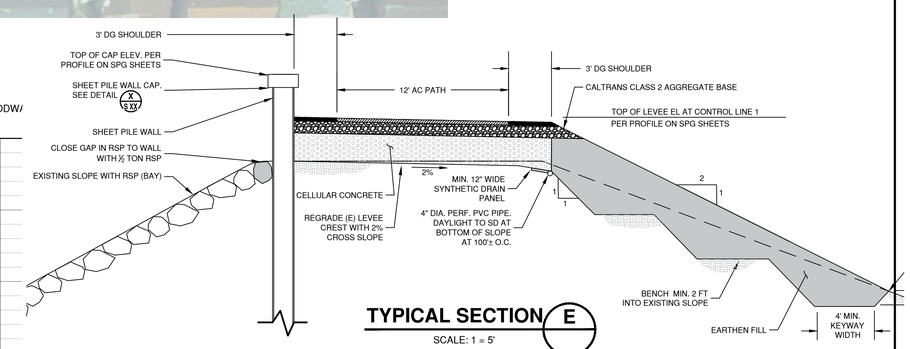
LEGEND

- ICE PLANT
- NATIVE PLANTING
- CONTAINER PLANTING
- OTHER PLANTING
- MHW — MEAN HIGH WATER LINE
- SHORELINE — BCDC SHORELINE BAND
- FLOODWALL



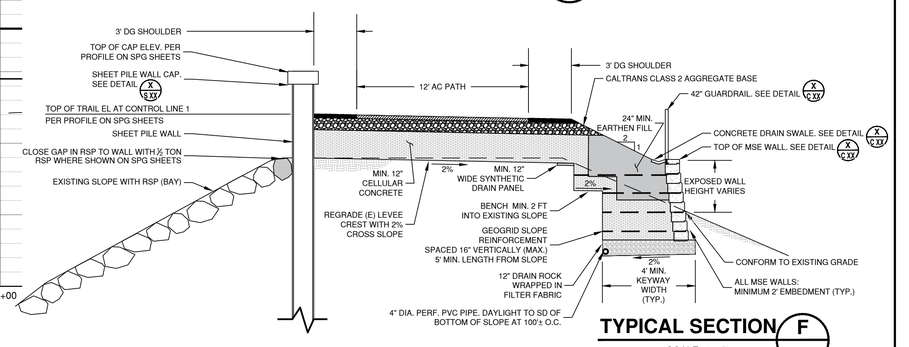
PROFILE AT CONTROL LINE 1

HORIZ.SCALE: 1" = 40'
VERT. SCALE: 1" = 5'



TYPICAL SECTION E

SCALE: 1 = 5'



TYPICAL SECTION F

SCALE: 1 = 5'

FOR REVIEW – NOT FOR CONSTRUCTION

DATE:	1/25/2019
SCALE:	AS SHOWN
DRAWN BY:	ARO
PROJECT NUMBER:	FOST.12.16
DESIGNED BY:	ARO
CHECKED BY:	CDA
SURVEYED BY:	WILSEY-HAM

APPROVED:

NORM DORAIS, PUBLIC WORKS DIRECTOR/CITY ENGINEER
CITY OF FOSTER CITY

DATE — 57220 R.C.E. # — 12/21/2019 EXPIRES

NO.	BY	DATE	REVISIONS

CITY OF FOSTER CITY
PUBLIC WORKS DEPARTMENT
610 FOSTER CITY BOULEVARD, FOSTER CITY, CA 94404
PHONE (650) 286-3270 FAX (650) 345-4626

REGISTERED PROFESSIONAL ENGINEER — PHOEBUS D. MUGGER — No. 43776 — CIVIL — STATE OF CALIFORNIA — NOT FOR CONSTRUCTION

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1171 HOMESTEAD ROAD, STE 255
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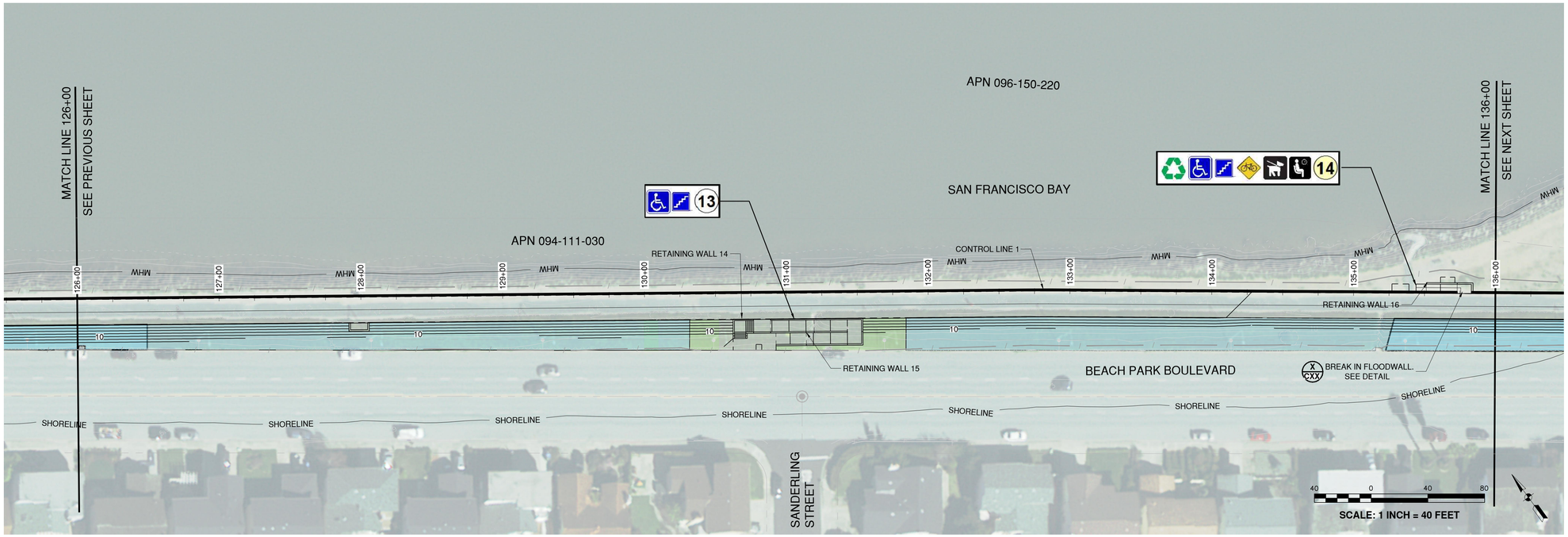
(408) 246-4848

FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657
SHEET PILE INSTALLATION AND GRADING

SHEET
SPG 13
SHEET 27 OF xxx
CIP PROJ. NUMBER
CIP 301-657

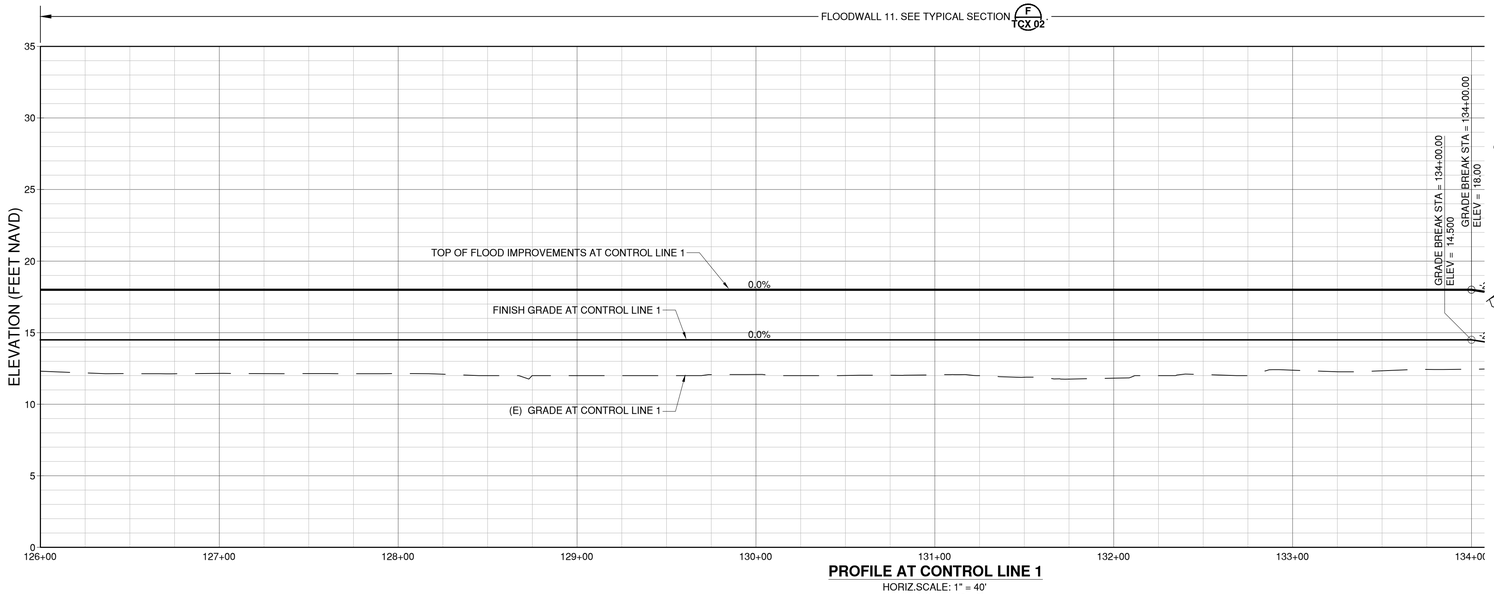
PLOT DATE: 1/31/2019 FILE PATH: J:\FOST\12-Levee_Final\Design\Drawings\CalOES Application\SPG 12-18.dwg

XREFS: X-Title Block, X-Topo - Hwy 92 Bridge, X-FINAL AERIAL TOPO - 15-753-ALL, X-UTILITIES, 90% FINAL GRADING



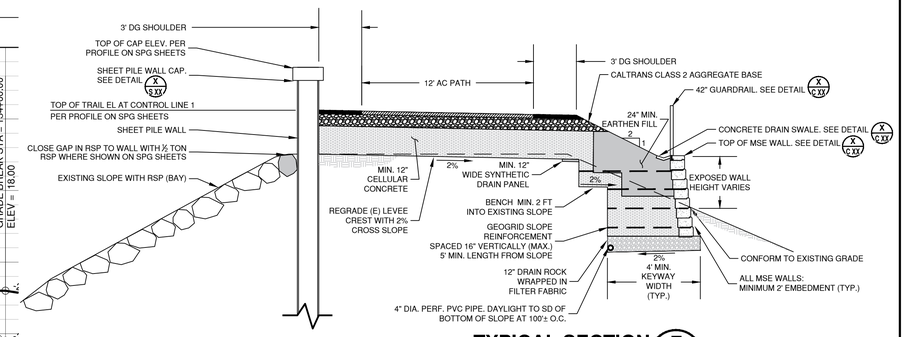
LEGEND

- ICE PLANT
- NATIVE PLANTING
- CONTAINER PLANTING
- OTHER PLANTING
- MHW — MEAN HIGH WATER LINE
- SHORELINE — BCDC SHORELINE BAND
- FLOODWALL



PROFILE AT CONTROL LINE 1

HORIZ.SCALE: 1" = 40'
VERT. SCALE: 1" = 5'



TYPICAL SECTION F

SCALE: 1 = 5'

FOR REVIEW – NOT FOR CONSTRUCTION

DATE: 1/25/2019	APPROVED:	NO.	BY	DATE	REVISIONS
SCALE: AS SHOWN					
DRAWN BY: ARO	NORM DORAIS, PUBLIC WORKS DIRECTOR/CITY ENGINEER CITY OF FOSTER CITY				
PROJECT NUMBER: FOST.12.16					
DESIGNED BY: ARO	57220 R.C.E. # / 12/21/2019 EXPIRES				
CHECKED BY: CDA	DATE				
SURVEYED BY: WILSEY-HAM					

CITY OF FOSTER CITY
PUBLIC WORKS DEPARTMENT
610 FOSTER CITY BOULEVARD, FOSTER CITY, CA 94404
PHONE (650) 286-3270 FAX (650) 345-4626

REGISTERED PROFESSIONAL ENGINEER — JAMES D. ROBERTSON — No. 43776 — CIVIL — STATE OF CALIFORNIA — NOT FOR CONSTRUCTION

Schaaf & Wheeler
CONSULTING CIVIL ENGINEERS
1171 HOMESTEAD ROAD, STE 255
SANTA CLARA, CA 95050
(408) 246-4848

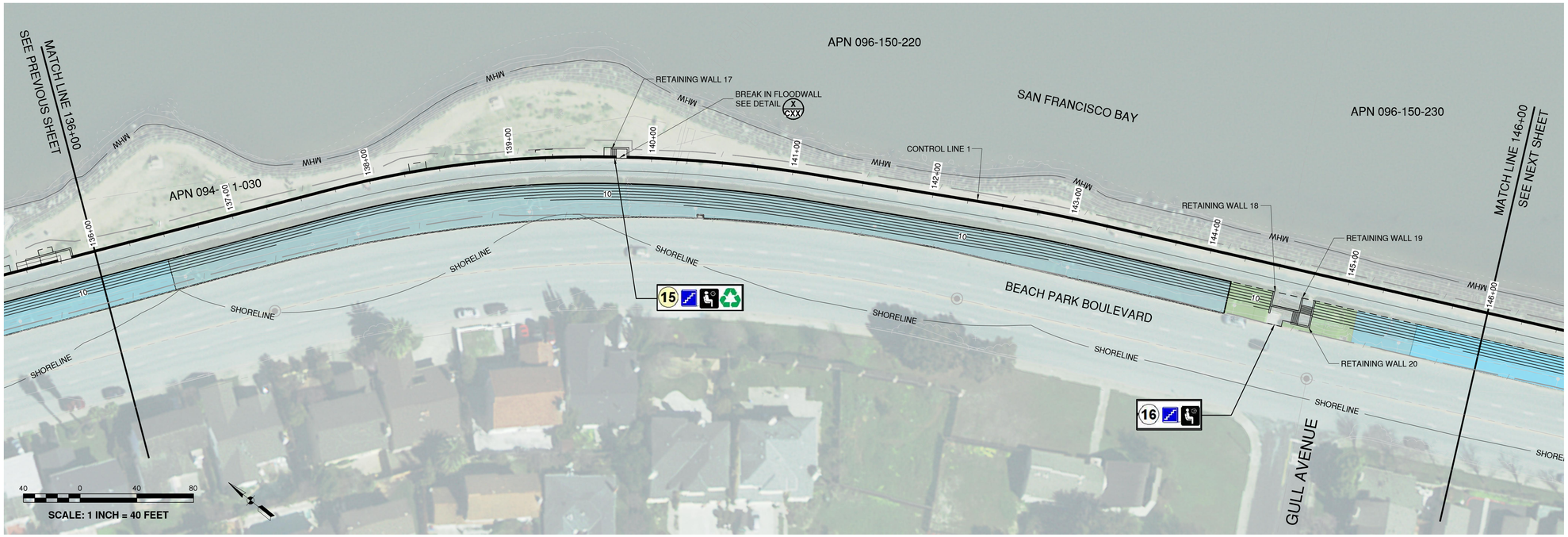
FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

SHEET PILE INSTALLATION AND GRADING

SHEET
SPG 14
SHEET 28 OF xxx
CIP PROJ. NUMBER
CIP 301-657

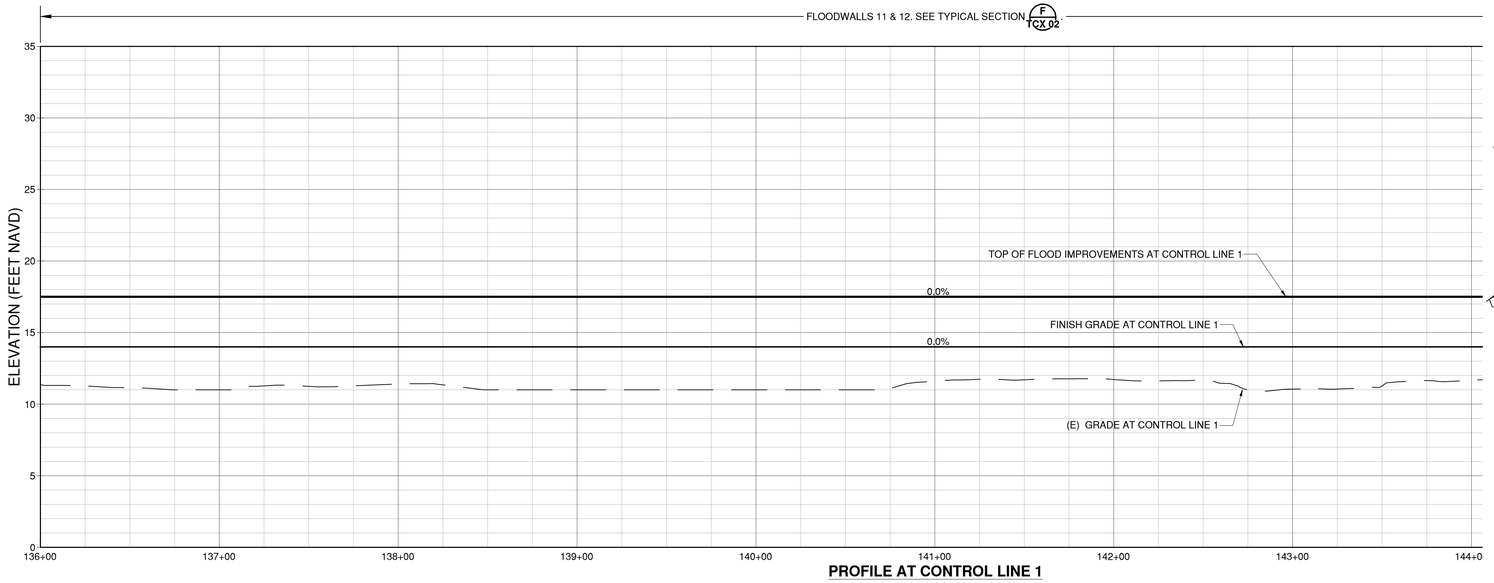
PLOT DATE: 1/31/2019 FILE PATH: J:\FOST\12-Levee_Final\Design\Drawings\CalOES Application\SPG 12-19.dwg

XREFS: X-Title Block, X-Topo - Hwy 92 Bridge, X-FINAL AERIAL TOPO - 15-753-ALL, X-UTILITIES, 90% FINAL GRADING



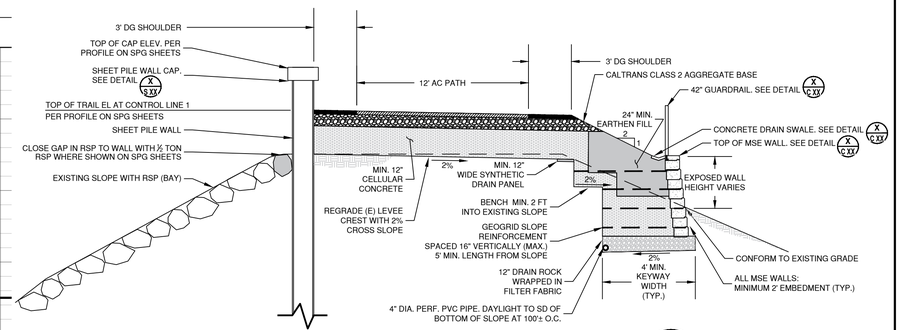
LEGEND

- ICE PLANT
- NATIVE PLANTING
- CONTAINER PLANTING
- OTHER PLANTING
- MHW — MEAN HIGH WATER LINE
- SHORELINE — BCDC SHORELINE BAND
- FLOODWALL



PROFILE AT CONTROL LINE 1

HORIZ.SCALE: 1" = 40'
VERT. SCALE: 1" = 5'



TYPICAL SECTION F

SCALE: 1 = 5'

FOR REVIEW – NOT FOR CONSTRUCTION

DATE: 1/25/2019	APPROVED:	NO.	BY	DATE	REVISIONS
SCALE: AS SHOWN					
DRAWN BY: ARO	NORM DORAIS, PUBLIC WORKS DIRECTOR/CITY ENGINEER				
PROJECT NUMBER: FOST.12.16	CITY OF FOSTER CITY				
DESIGNED BY: ARO	57220 / R.C.E. # — 12/21/2019 / EXPIRES				
CHECKED BY: CDA	DATE				
SURVEYED BY: WILSEY-HAM					

CITY OF FOSTER CITY
PUBLIC WORKS DEPARTMENT
610 FOSTER CITY BOULEVARD, FOSTER CITY, CA 94404
PHONE (650) 286-3270 FAX (650) 345-4626

REGISTERED PROFESSIONAL ENGINEER — JAMES D. ROSSER — No. 43776 — PRELIMINARY NOT FOR CONSTRUCTION — CIVIL — STATE OF CALIFORNIA

Schaaf & Wheeler
CONSULTING CIVIL ENGINEERS
1171 HOMESTEAD ROAD, STE 255
SANTA CLARA, CA 95050
(408) 246-4848

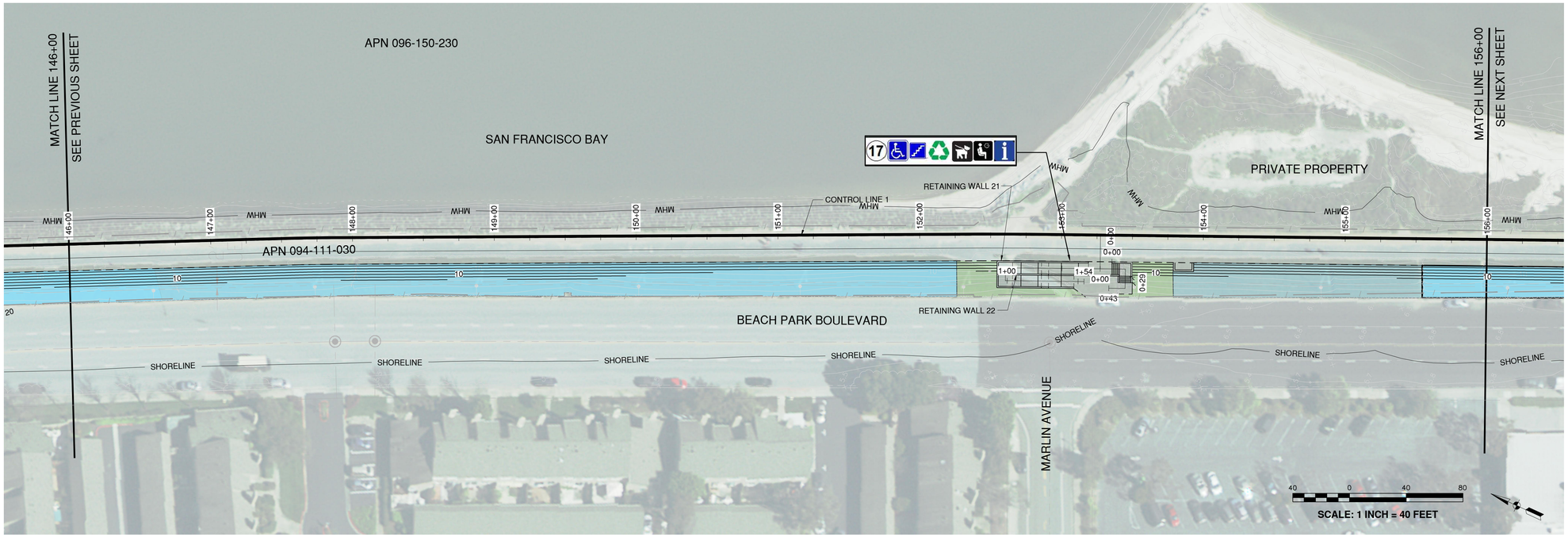
FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

SHEET PILE INSTALLATION AND GRADING

SHEET
SPG 15
SHEET 29 OF xxx
CIP PROJ. NUMBER
CIP 301-657

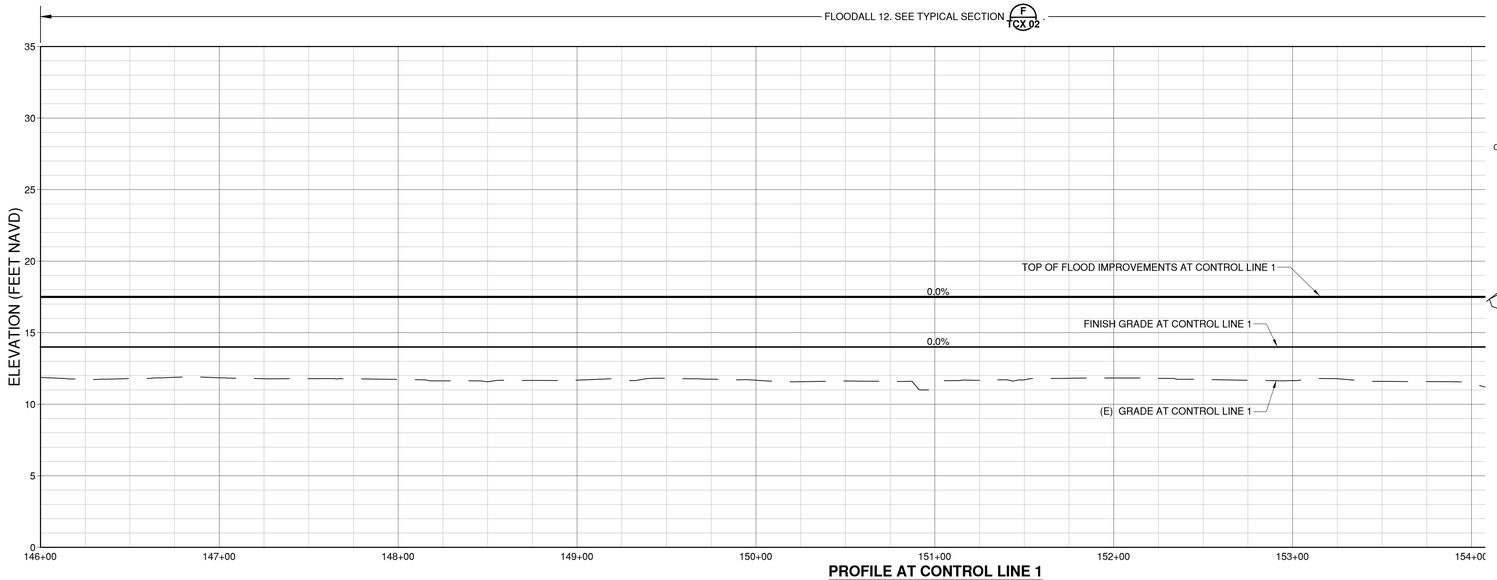
PLOT DATE: 1/31/2019 FILE PATH: J:\FOST\12-Levee_Final\Design\Drawings\CalOES Application\SPG 12-19.dwg

XREFS: X-Title Block, X-Topo - Hwy 92 Bridge, X-FINAL AERIAL TOPO - 15-753-ALL, X-UTILITIES, 90% FINAL GRADING



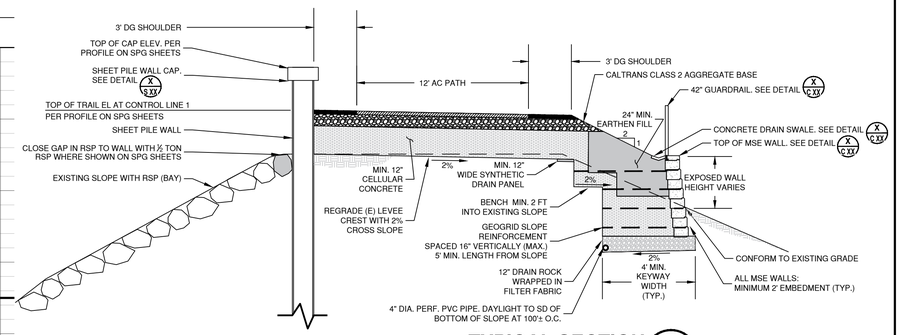
LEGEND

- ICE PLANT
- NATIVE PLANTING
- CONTAINER PLANTING
- OTHER PLANTING
- MHW — MEAN HIGH WATER LINE
- SHORELINE — BCDC SHORELINE BAND
- FLOODWALL



PROFILE AT CONTROL LINE 1

HORIZ.SCALE: 1" = 40'
VERT. SCALE: 1" = 5'



TYPICAL SECTION F

SCALE: 1 = 5'

FOR REVIEW – NOT FOR CONSTRUCTION

DATE: 1/25/2019	APPROVED:	NO.	BY	DATE	REVISIONS
SCALE: AS SHOWN					
DRAWN BY: ARO	NORM DORAIS, PUBLIC WORKS DIRECTOR/CITY ENGINEER				
PROJECT NUMBER: FOST.12.16	CITY OF FOSTER CITY				
DESIGNED BY: ARO	57220 R.C.E. # — 12/21/2019 EXPIRES				
CHECKED BY: CDA	DATE				
SURVEYED BY: WILSEY-HAM					

CITY OF FOSTER CITY
PUBLIC WORKS DEPARTMENT
610 FOSTER CITY BOULEVARD, FOSTER CITY, CA 94404
PHONE (650) 286-3270 FAX (650) 345-4626

REGISTERED PROFESSIONAL ENGINEER — JAMES D. ROBERTSON — No. 43776 — CIVIL — STATE OF CALIFORNIA — PRELIMINARY NOT FOR CONSTRUCTION

Schaaf & Wheeler
CONSULTING CIVIL ENGINEERS
1171 HOMESTEAD ROAD, STE 255
SANTA CLARA, CA 95050
(408) 246-4848

FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657
SHEET PILE INSTALLATION AND GRADING

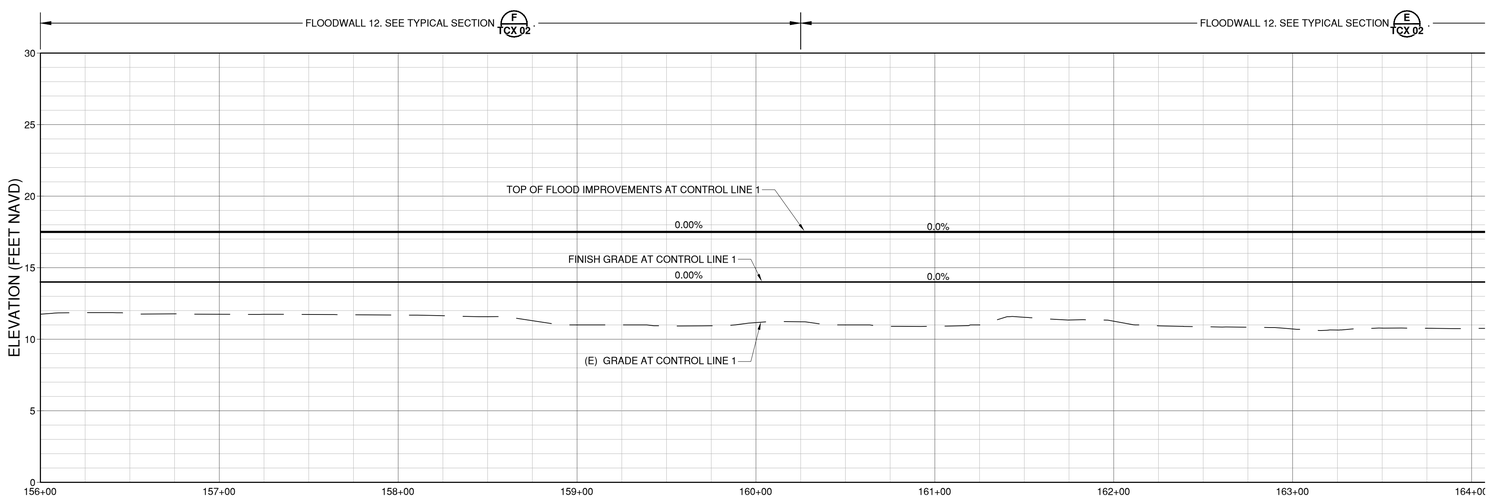
SHEET
SPG 16
SHEET 30 OF xxx
CIP PROJ. NUMBER
CIP 301-657

PLOT DATE: 1/31/2019 FILE PATH: J:\FOST\12-Levee_Final\Design\Drawings\CalOES Application\SPG 12-19.dwg

XREFS: X-Title Block, X-Topo - Hwy 92 Bridge, X-FINAL AERIAL TOPO - 15-753-ALL, X-UTILITIES, 90% FINAL GRADING

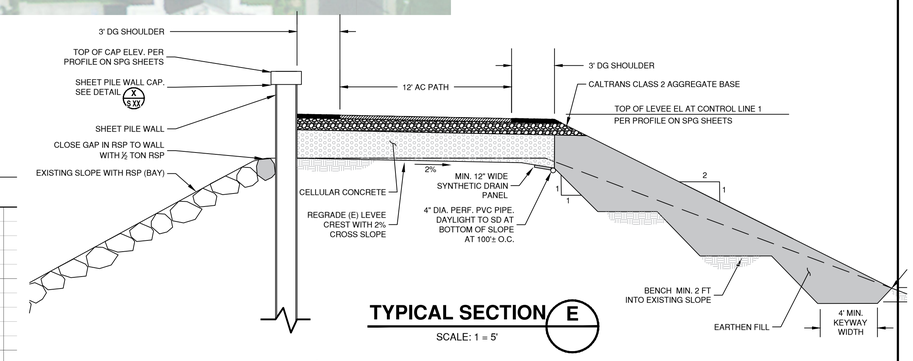
LEGEND

- ICE PLANT
- NATIVE PLANTING
- CONTAINER PLANTING
- OTHER PLANTING
- MHW — MEAN HIGH WATER LINE
- SHORELINE — BCDC SHORELINE BAND
- FLOODWALL



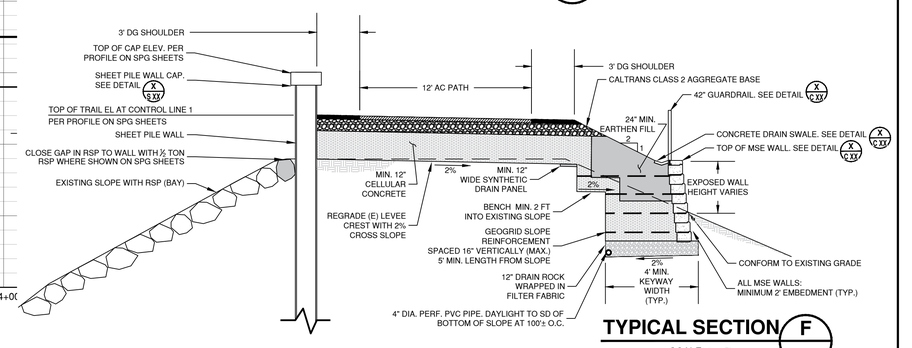
PROFILE AT CONTROL LINE 1

HORIZ.SCALE: 1" = 40'
VERT. SCALE: 1" = 5'



TYPICAL SECTION E

SCALE: 1 = 5'



TYPICAL SECTION F

SCALE: 1 = 5'

FOR REVIEW – NOT FOR CONSTRUCTION

DATE: 1/25/2019	APPROVED:		
SCALE: AS SHOWN			
DRAWN BY: ARO	NORM DORAIS, PUBLIC WORKS DIRECTOR/CITY ENGINEER		
PROJECT NUMBER: FOST.12.16	CITY OF FOSTER CITY		
DESIGNED BY: ARO			
CHECKED BY: CDA	DATE / 57220 R.C.E. # / 12/21/2019 EXPIRES		
SURVEYED BY: WILSEY-HAM		NO.	BY / DATE / REVISIONS

CITY OF FOSTER CITY
PUBLIC WORKS DEPARTMENT
610 FOSTER CITY BOULEVARD, FOSTER CITY, CA 94404
PHONE (650) 286-3270 FAX (650) 345-4626

REGISTERED PROFESSIONAL ENGINEER — PRELIMINARY NOT FOR CONSTRUCTION — NO. 43776 — CIVIL — STATE OF CALIFORNIA

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CONSULTING CIVIL ENGINEERS
1171 HOMESTEAD ROAD, STE 255
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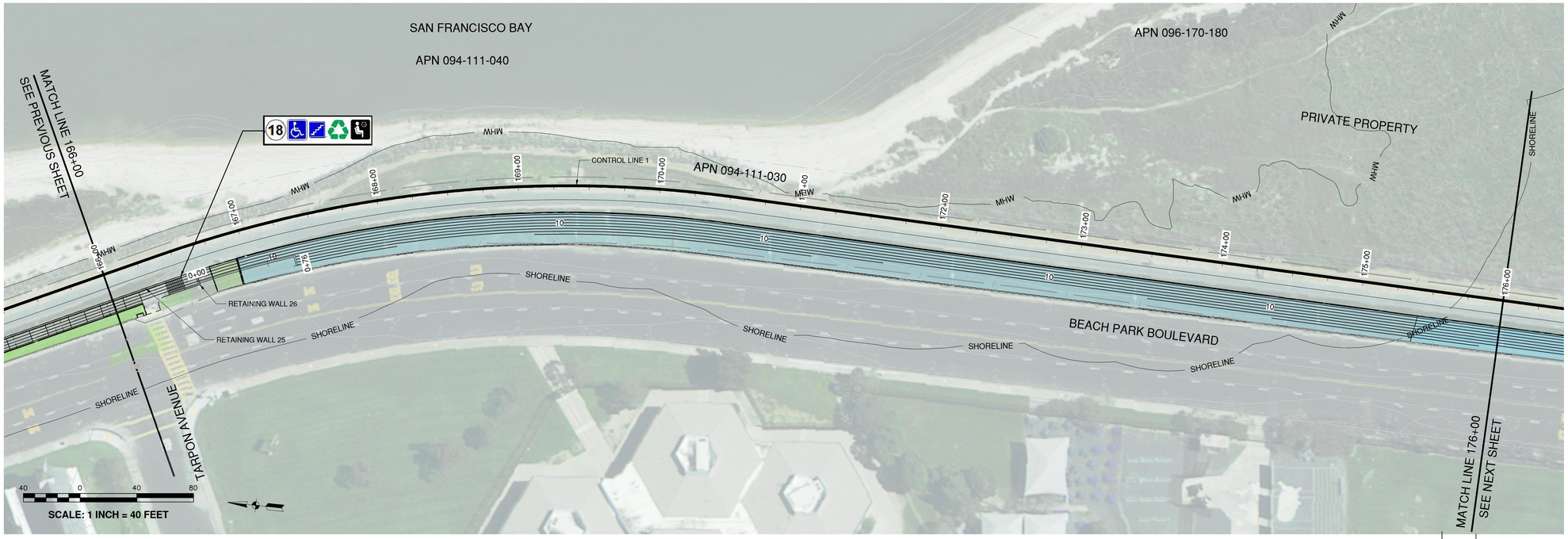
(408) 246-4848

FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657
SHEET PILE INSTALLATION AND GRADING

SHEET
SPG 17
SHEET 31 OF xxx
CIP PROJ. NUMBER
CIP 301-657

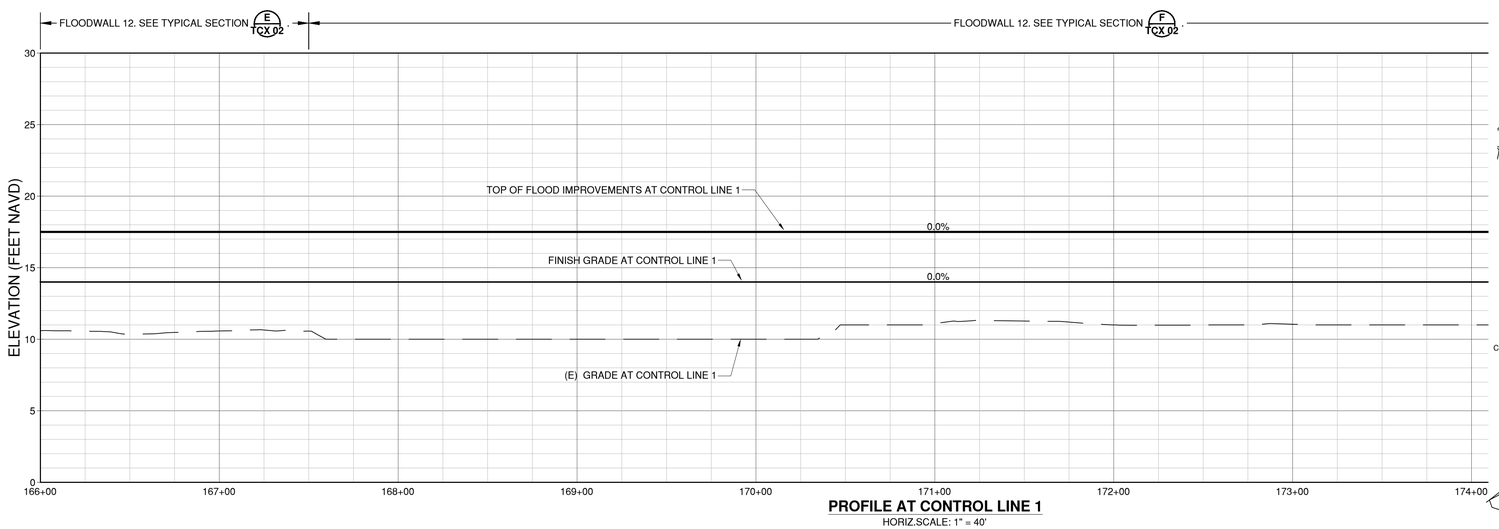
PLOT DATE: 1/31/2019 FILE PATH: J:\FOST\12-Levee_Final\Design\Drawings\CalOES Application\SPG 12-18.dwg

XREFS: X-Title Block, X-Topo - Hwy 92 Bridge, X-FINAL AERIAL TOPO - 15-753-ALL, X-UTILITIES, 90% FINAL GRADING



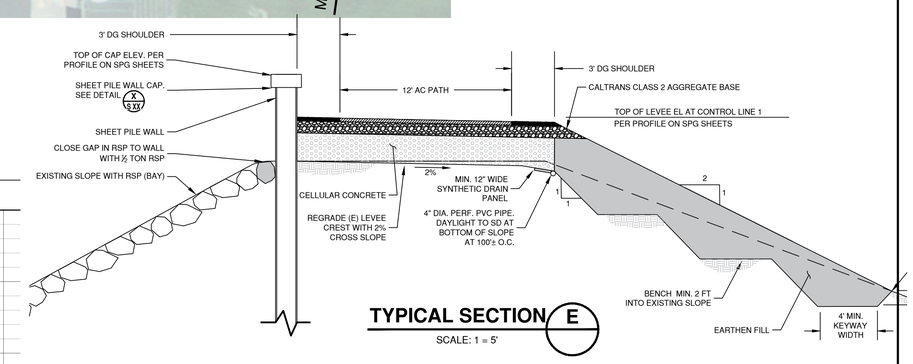
LEGEND

- ICE PLANT
- NATIVE PLANTING
- CONTAINER PLANTING
- OTHER PLANTING
- MHW — MEAN HIGH WATER LINE
- SHORELINE — BCDC SHORELINE BAND
- FLOODWALL



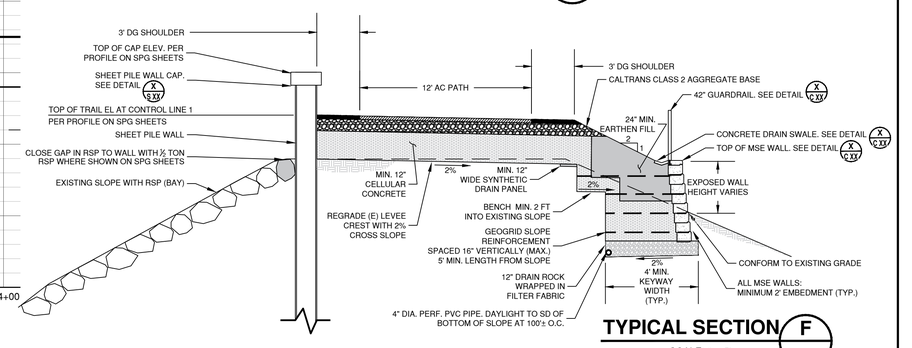
PROFILE AT CONTROL LINE 1

HORIZ.SCALE: 1" = 40'
VERT. SCALE: 1" = 5'



TYPICAL SECTION E

SCALE: 1 = 5'



TYPICAL SECTION F

SCALE: 1 = 5'

FOR REVIEW – NOT FOR CONSTRUCTION

DATE: 1/25/2019	APPROVED:	NO.	BY	DATE	REVISIONS
SCALE: AS SHOWN					
DRAWN BY: ARO					
PROJECT NUMBER: FOST.12.16					
DESIGNED BY: ARO	NORM DORAIS, PUBLIC WORKS DIRECTOR/CITY ENGINEER CITY OF FOSTER CITY				
CHECKED BY: CDA					
SURVEYED BY: WILSEY-HAM	DATE / R.C.E. # 57220 / EXPIRES 12/21/2019				

CITY OF FOSTER CITY
PUBLIC WORKS DEPARTMENT
610 FOSTER CITY BOULEVARD, FOSTER CITY, CA 94404
PHONE (650) 286-3270 FAX (650) 345-4626

REGISTERED PROFESSIONAL ENGINEER PHOEBUS D. MUSCAT NO. 43776 CIVIL STATE OF CALIFORNIA
PRELIMINARY NOT FOR CONSTRUCTION

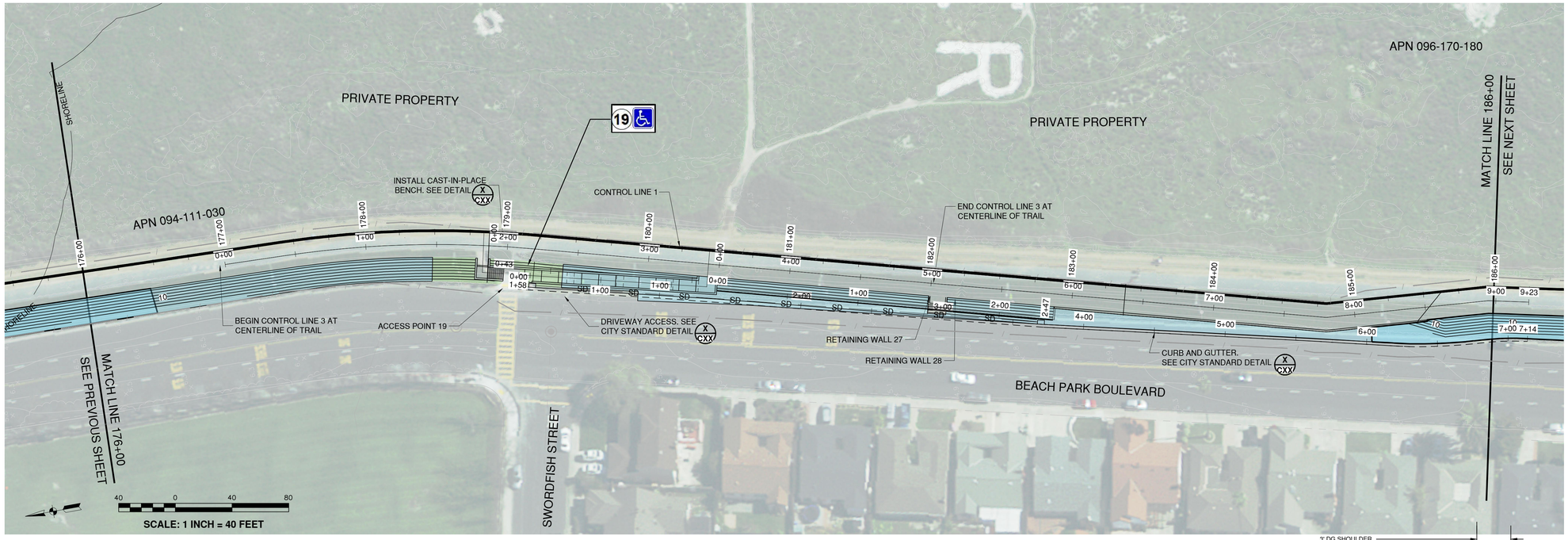
Schaaf & Wheeler
CONSULTING CIVIL ENGINEERS
1171 HOMESTEAD ROAD, STE 255
SANTA CLARA, CA 95050
(408) 246-4848

FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657
SHEET PILE INSTALLATION AND GRADING

SHEET SPG 18
SHEET 32 OF xxx
CIP PROJ. NUMBER CIP 301-657

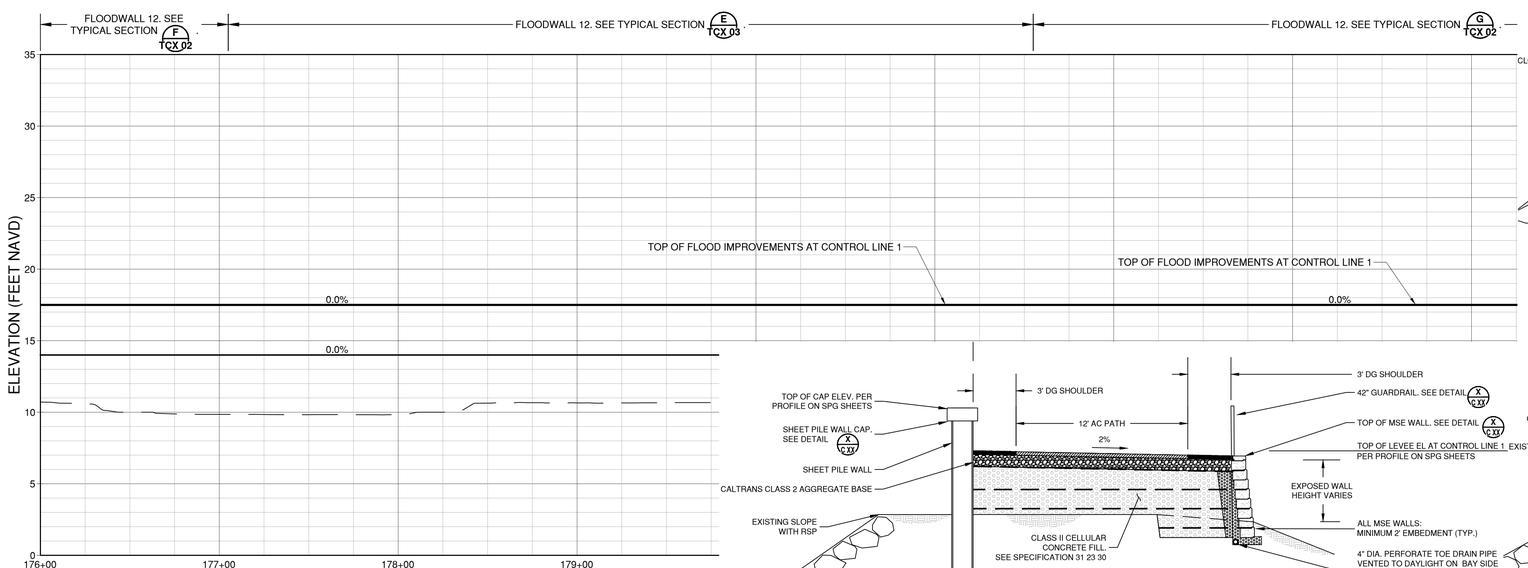
PLOT DATE: 1/31/2019 FILE PATH: J:\FOST\12-Levee_Final\Design\Drawings\CalOES Application\SPG 12-18.dwg

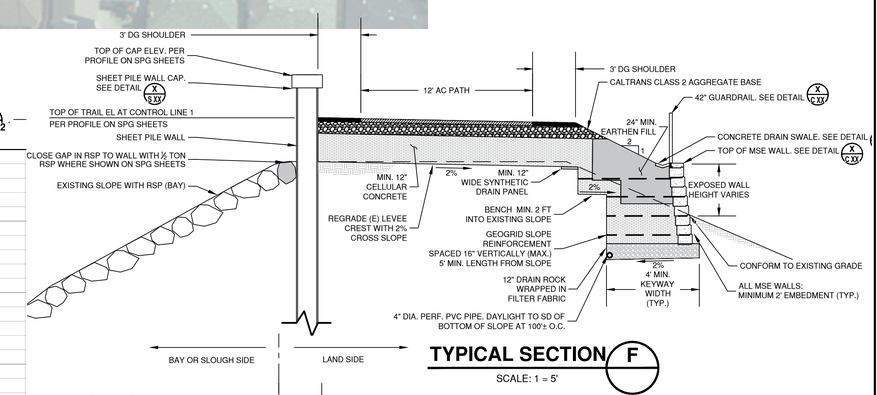
XREFS: X-Title Block, X-Topo - Hwy 92 Bridge, X-FINAL AERIAL TOPO - 15-753-ALL, X-UTILITIES, 90% FINAL GRADING



LEGEND

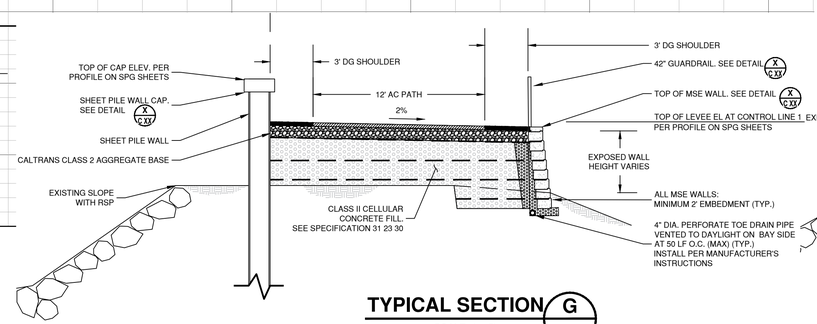
- ICE PLANT
- NATIVE PLANTING
- CONTAINER PLANTING
- OTHER PLANTING
- MHW — MEAN HIGH WATER LINE
- SHORELINE — BCDC SHORELINE BAND
- FLOODWALL





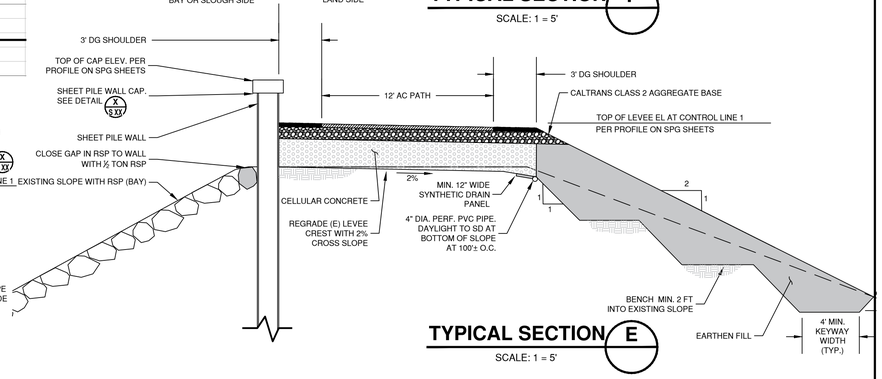
TYPICAL SECTION F

SCALE: 1 = 5'



TYPICAL SECTION G

SCALE: 1 = 5'



TYPICAL SECTION E

SCALE: 1 = 5'

FOR REVIEW – NOT FOR CONSTRUCTION

DATE:	1/25/2019
SCALE:	AS SHOWN
DRAWN BY:	ARO
PROJECT NUMBER:	FOST.12.16
DESIGNED BY:	ARO
CHECKED BY:	CDA
SURVEYED BY:	WILSEY–HAM

APPROVED:

NORM DORAIS, PUBLIC WORKS DIRECTOR/CITY ENGINEER
CITY OF FOSTER CITY

DATE — 57220 R.C.E. # — 12/21/2019 EXPIRES

NO.	BY	DATE	REVISIONS

CITY OF FOSTER CITY
PUBLIC WORKS DEPARTMENT
610 FOSTER CITY BOULEVARD, FOSTER CITY, CA 94404
PHONE (650) 286-3270 FAX (650) 345-4626

REGISTERED PROFESSIONAL ENGINEER — CHARLES D. MCCORMICK — NO. 43776 — CIVIL — STATE OF CALIFORNIA — PRELIMINARY NOT FOR CONSTRUCTION

Schaaf & Wheeler
CONSULTING CIVIL ENGINEERS
1171 HOMESTEAD ROAD, STE 255
SANTA CLARA, CA 95050
(408) 246-4848

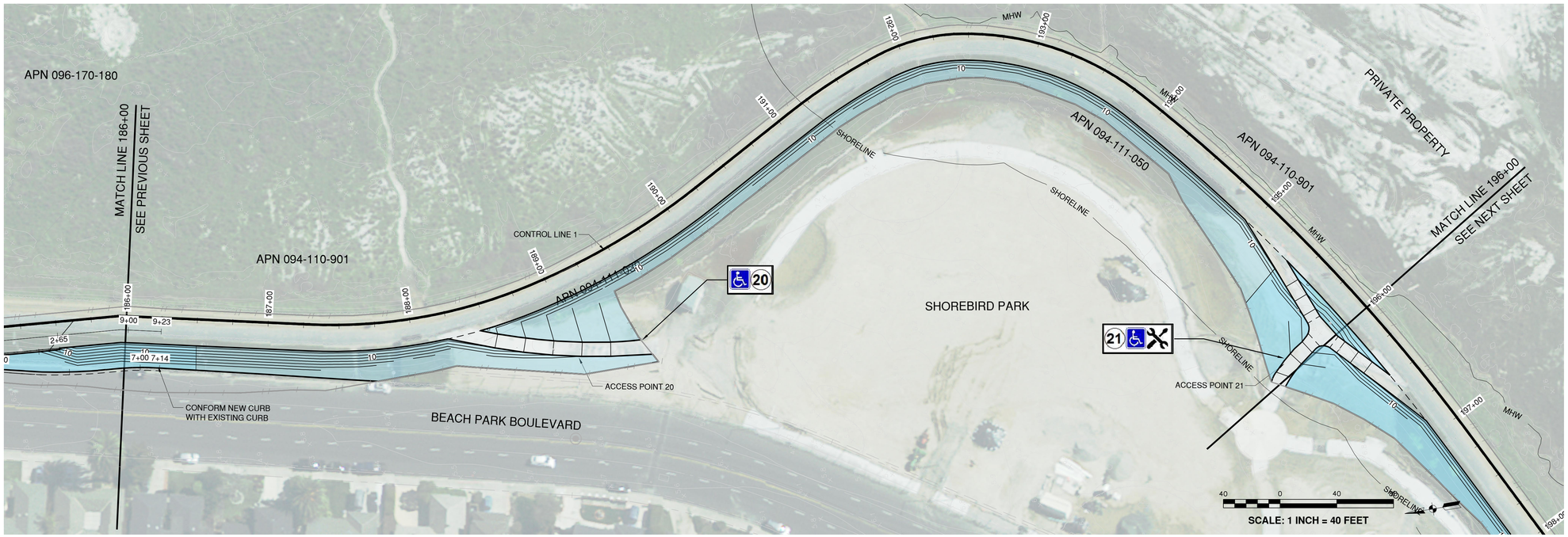
FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

SHEET PILE INSTALLATION AND GRADING

SHEET
SPG 19
SHEET 33 OF xxx
CIP PROJ. NUMBER
CIP 301–657

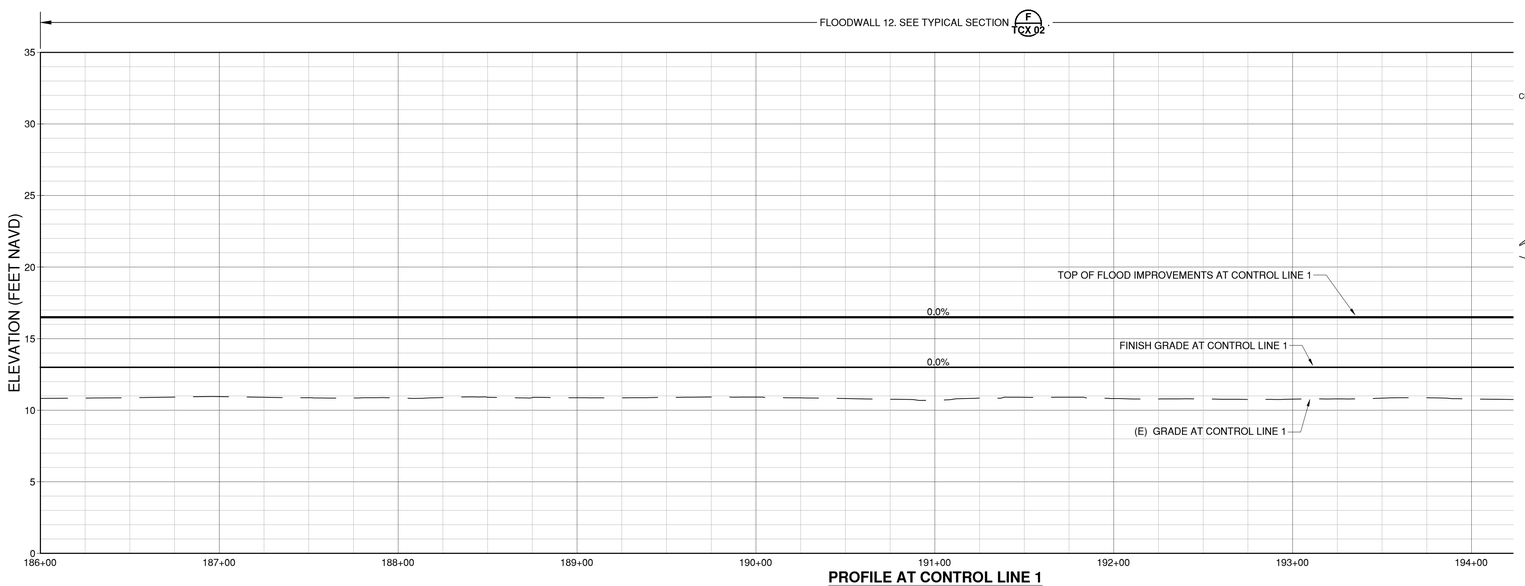
PLOT DATE: 1/31/2019 FILE PATH: J:\FOST\12-Levee_Final\Design\Drawings\CalOES Application\SPG 19-20.dwg

XREFS: X-Title Block, X-Topo - Hwy 92 Bridge, X-FINAL AERIAL TOPO - 15-753-ALL, X-UTILITIES, 90% FINAL GRADING



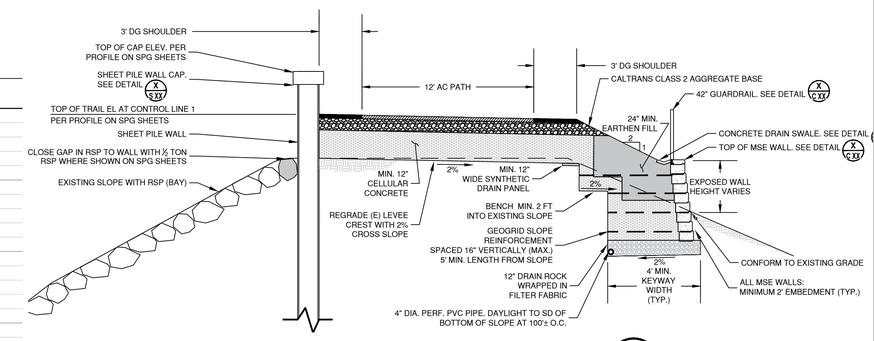
LEGEND

- ICE PLANT
- NATIVE PLANTING
- CONTAINER PLANTING
- OTHER PLANTING
- MHW — MEAN HIGH WATER LINE
- SHORELINE — BCDC SHORELINE BAND
- FLOODWALL



PROFILE AT CONTROL LINE 1

HORIZ.SCALE: 1" = 40'
VERT. SCALE: 1" = 5'



TYPICAL SECTION F

SCALE: 1 = 5'

FOR REVIEW – NOT FOR CONSTRUCTION

DATE: 1/25/2019	APPROVED:	NO. / BY / DATE / REVISIONS	CITY OF FOSTER CITY PUBLIC WORKS DEPARTMENT, 610 FOSTER CITY BOULEVARD, FOSTER CITY, CA 94404, PHONE (650) 286-3270 FAX (650) 345-4626
SCALE: AS SHOWN	NORM DORAIS, PUBLIC WORKS DIRECTOR/CITY ENGINEER, CITY OF FOSTER CITY		
DRAWN BY: ARO			
PROJECT NUMBER: FOST.12.16			
DESIGNED BY: ARO	57220 R.C.E. # / 12/21/2019 EXPIRES		
CHECKED BY: CDA	DATE		
SURVEYED BY: WILSEY-HAM			

REGISTERED PROFESSIONAL ENGINEER, DARREN D. DUNCAN, No. 43776, CIVIL, STATE OF CALIFORNIA — PRELIMINARY NOT FOR CONSTRUCTION

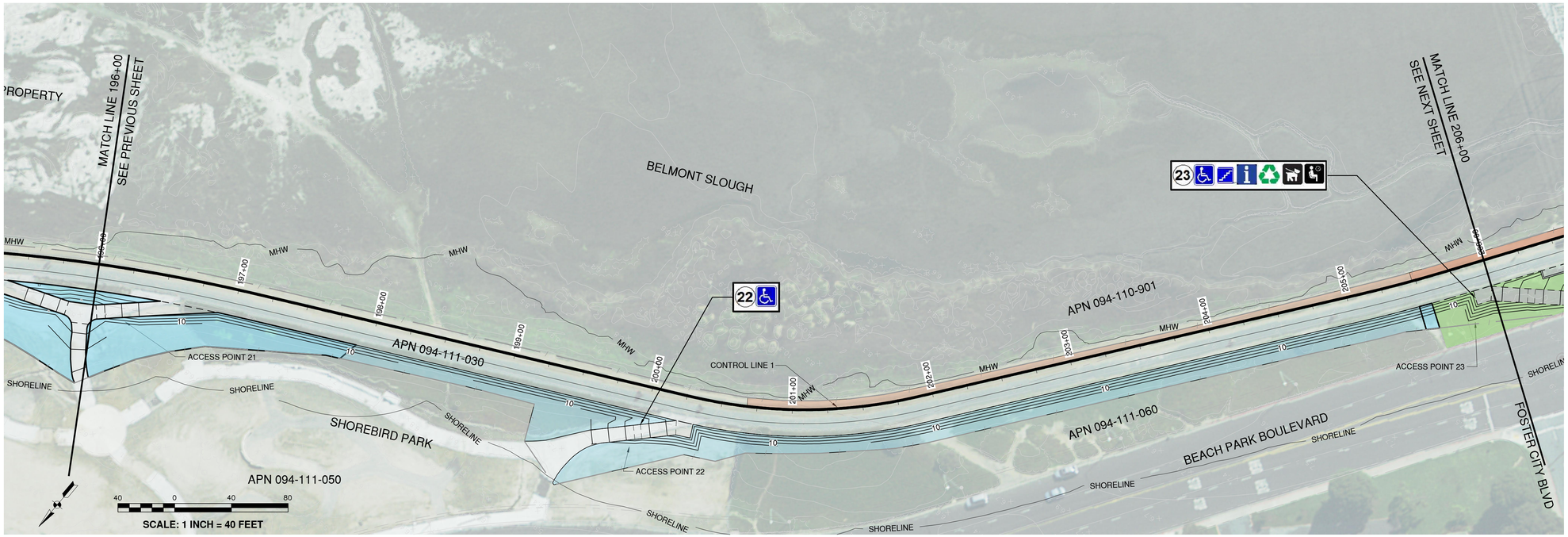
Schaaf & Wheeler
CONSULTING CIVIL ENGINEERS
1171 HOMESTEAD ROAD, STE 255
SANTA CLARA, CA 95050
(408) 246-4848

FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657
SHEET PILE INSTALLATION AND GRADING

SHEET SPG 20
SHEET 34 OF xxx
CIP PROJ. NUMBER CIP 301-657

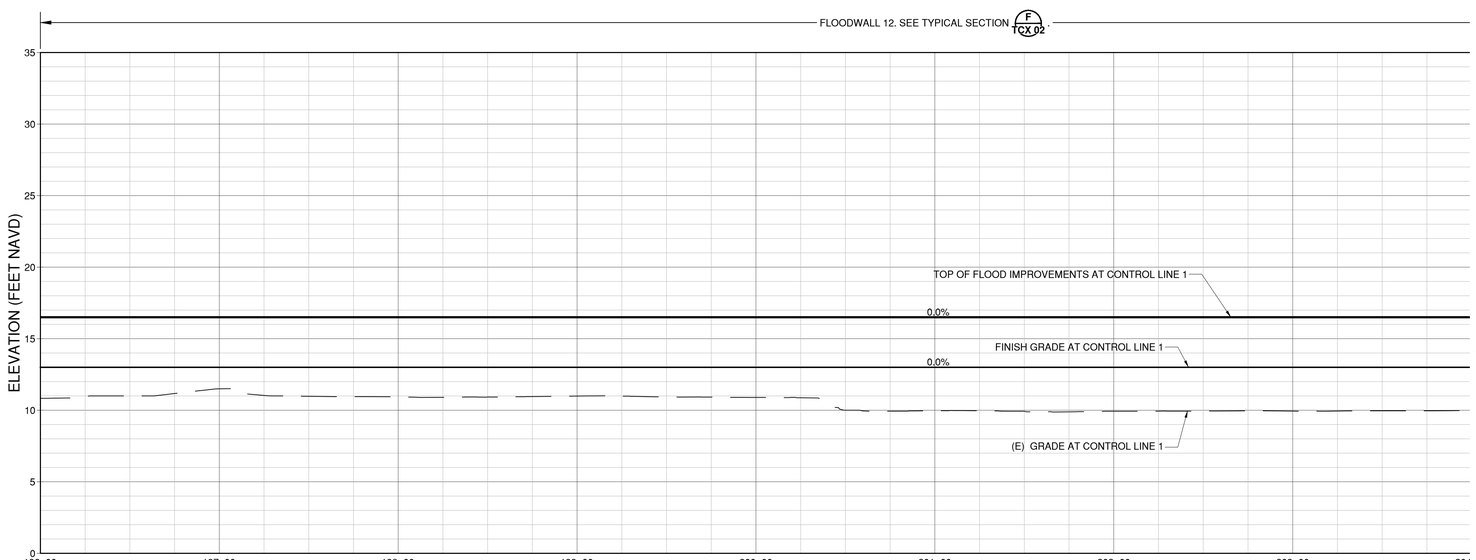
PLOT DATE: 1/31/2019 FILE PATH: J:\FOST\12-Levee_Final\Design\Drawings\CalOES Application\SPG 19-20.dwg

XREFS: X-Title Block, X-Topo - Hwy 92 Bridge, X-FINAL AERIAL TOPO - 15-753-ALL, X-UTILITIES, 90% FINAL GRADING



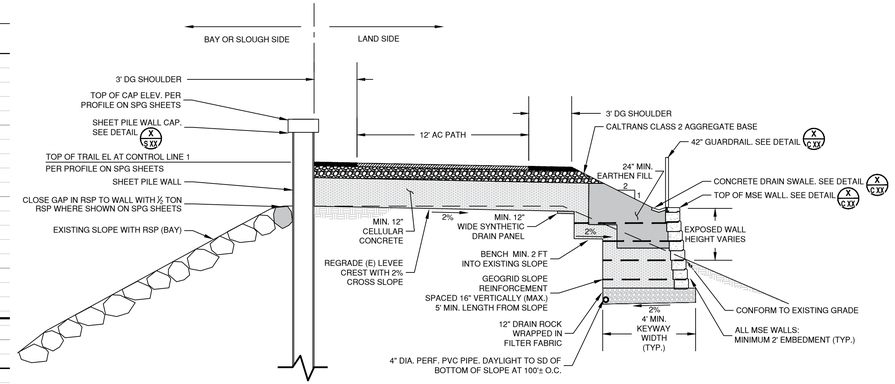
LEGEND

- ICE PLANT
- NATIVE PLANTING
- CONTAINER PLANTING
- OTHER PLANTING
- MHW — MEAN HIGH WATER LINE
- SHORELINE — BCDC SHORELINE BAND
- FLOODWALL



PROFILE AT CONTROL LINE 1

HORIZ.SCALE: 1" = 40'
VERT. SCALE: 1" = 5'



TYPICAL SECTION F

SCALE: 1 = 5'

FOR REVIEW – NOT FOR CONSTRUCTION

DATE:	1/25/2019
SCALE:	AS SHOWN
DRAWN BY:	ARO
PROJECT NUMBER:	FOST.12.16
DESIGNED BY:	ARO
CHECKED BY:	CDA
SURVEYED BY:	WILSEY–HAM

APPROVED:

NORM DORAIS, PUBLIC WORKS DIRECTOR/CITY ENGINEER
CITY OF FOSTER CITY

DATE | 57220 R.C.E. # | 12/21/2019 EXPIRES

NO.	BY	DATE	REVISIONS

CITY OF FOSTER CITY
PUBLIC WORKS DEPARTMENT
610 FOSTER CITY BOULEVARD, FOSTER CITY, CA 94404
PHONE (650) 286–3270 FAX (650) 345–4626

REGISTERED PROFESSIONAL ENGINEER JAMES D. NIELSEN No. 43776 CIVIL STATE OF CALIFORNIA
PRELIMINARY NOT FOR CONSTRUCTION

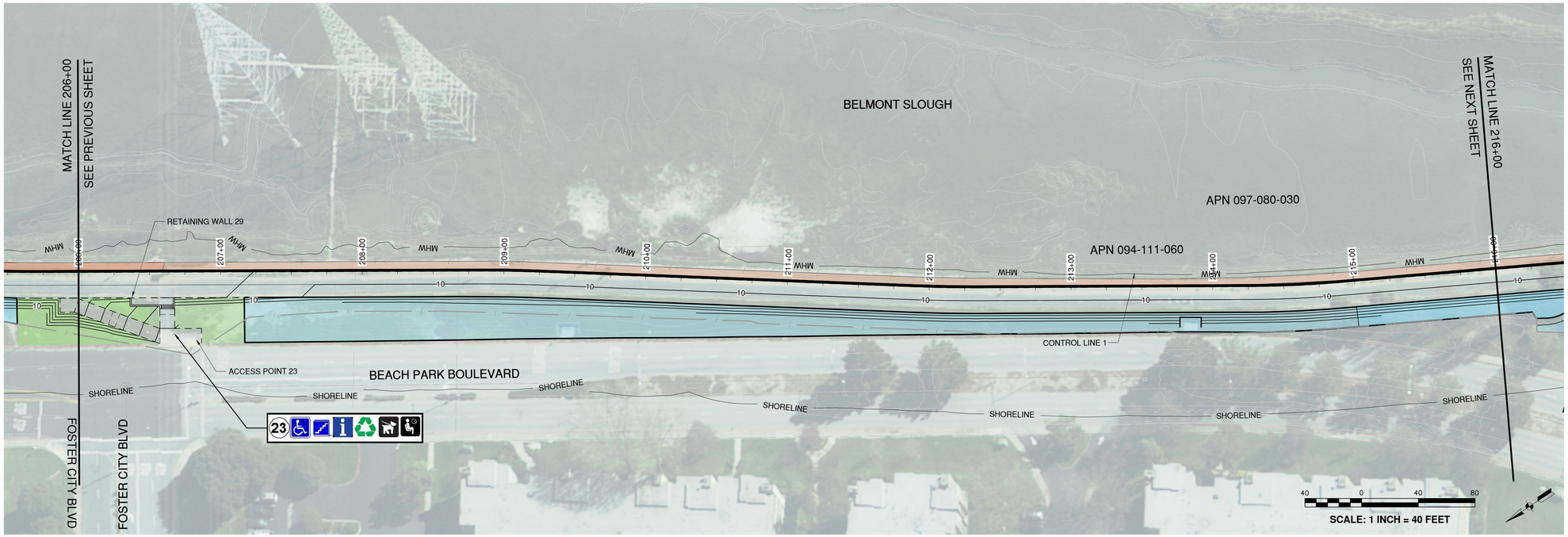
Schaaf & Wheeler
CONSULTING CIVIL ENGINEERS
1171 HOMESTEAD ROAD, STE 255
SANTA CLARA, CA 95050
(408) 246-4848

FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657
SHEET PILE INSTALLATION AND GRADING

SHEET
SPG 21
SHEET 35 OF xxx
CIP PROJ. NUMBER
CIP 301–657

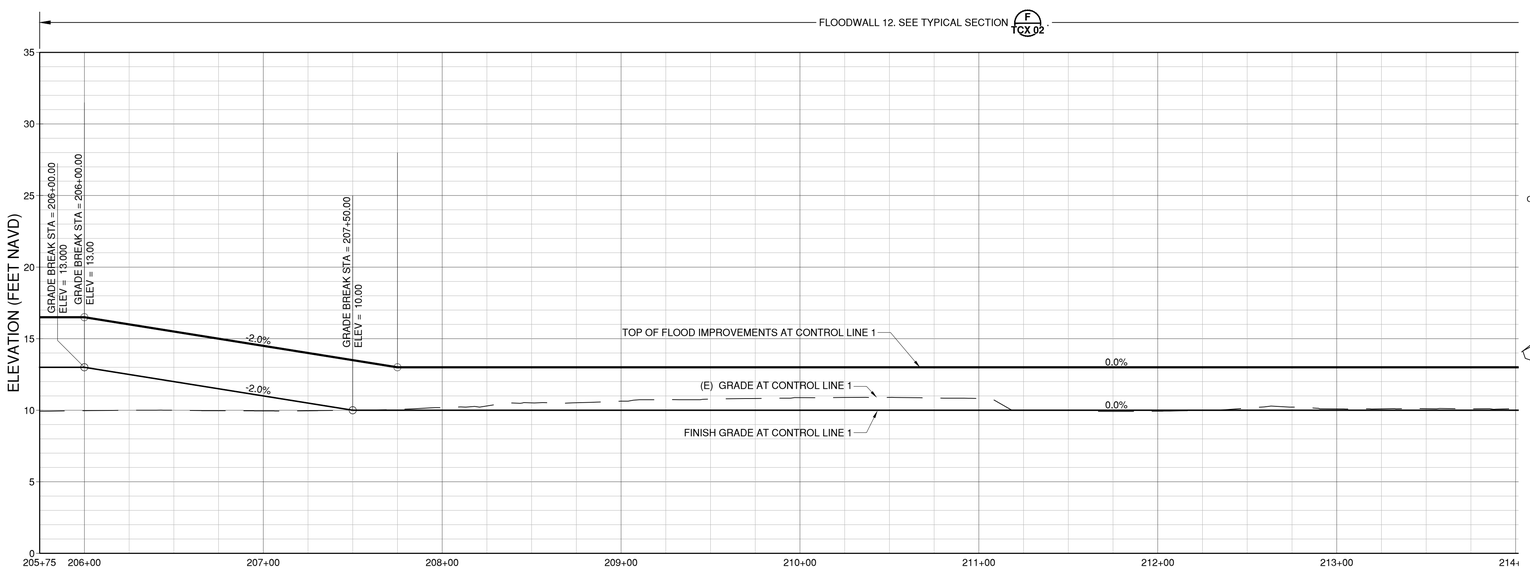
PLOT DATE: 1/31/2019 FILE PATH: J:\FOST\12-Levee_FinalDesign\Drawings\CalOES Application\SPG 21-24.dwg

XREFS: X-Title Block, X-Topo - Hwy 92 Bridge, X-FINAL AERIAL TOPO - 15-753-ALL, X-UTILITIES, 90% FINAL GRADING



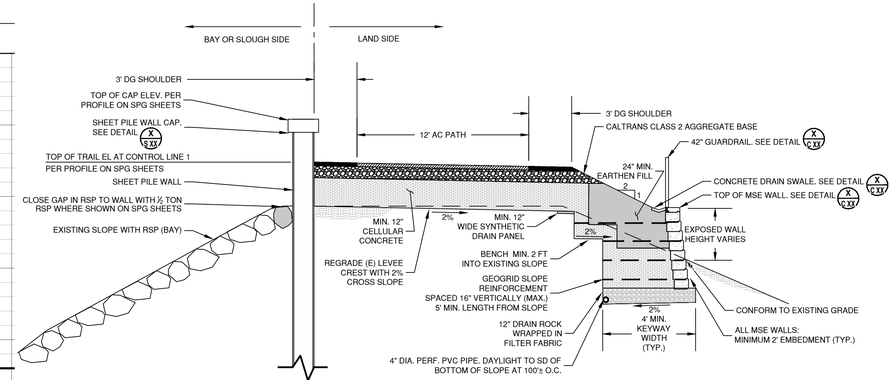
LEGEND

- ICE PLANT
- NATIVE PLANTING
- CONTAINER PLANTING
- OTHER PLANTING
- MHW — MEAN HIGH WATER LINE
- SHORELINE — BCDC SHORELINE BAND
- FLOODWALL



PROFILE AT CONTROL LINE 1

HORIZ.SCALE: 1" = 40'
VERT. SCALE: 1" = 5'



TYPICAL SECTION F

SCALE: 1 = 5'

FOR REVIEW – NOT FOR CONSTRUCTION

DATE: 1/25/2019	APPROVED:	NO.	BY	DATE	REVISIONS
SCALE: AS SHOWN					
DRAWN BY: ARO	NORM DORAIS, PUBLIC WORKS DIRECTOR/CITY ENGINEER				
PROJECT NUMBER: FOST.12.16	CITY OF FOSTER CITY				
DESIGNED BY: ARO					
CHECKED BY: CDA	DATE / 57220 R.C.E. # / 12/21/2019 EXPIRES				
SURVEYED BY: WILSEY-HAM					

CITY OF FOSTER CITY
PUBLIC WORKS DEPARTMENT
610 FOSTER CITY BOULEVARD, FOSTER CITY, CA 94404
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REGISTERED PROFESSIONAL ENGINEER CHRIS D. MINGER NO. 43776 CIVIL STATE OF CALIFORNIA
PRELIMINARY NOT FOR CONSTRUCTION

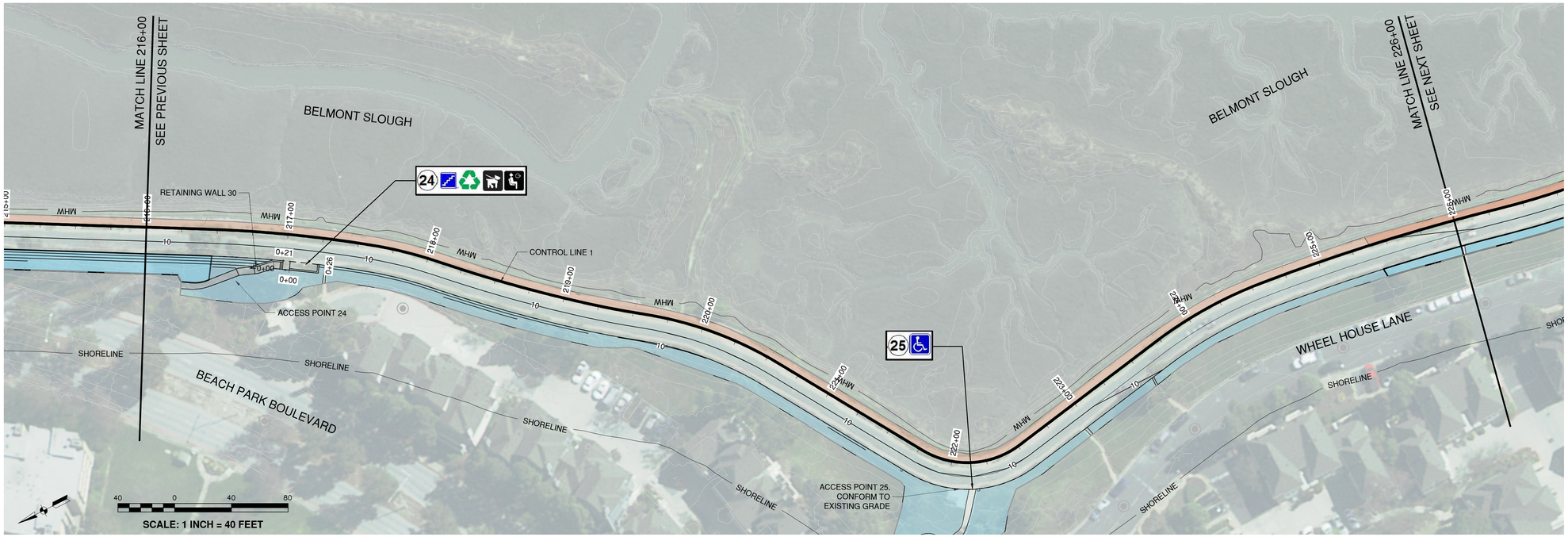
Schaaf & Wheeler
CONSULTING CIVIL ENGINEERS
1171 HOMESTEAD ROAD, STE 255
SANTA CLARA, CA 95050
(408) 246-4848

FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657
SHEET PILE INSTALLATION AND GRADING

SHEET
SPG 22
SHEET 36 OF xxx
CIP PROJ. NUMBER
CIP 301-657

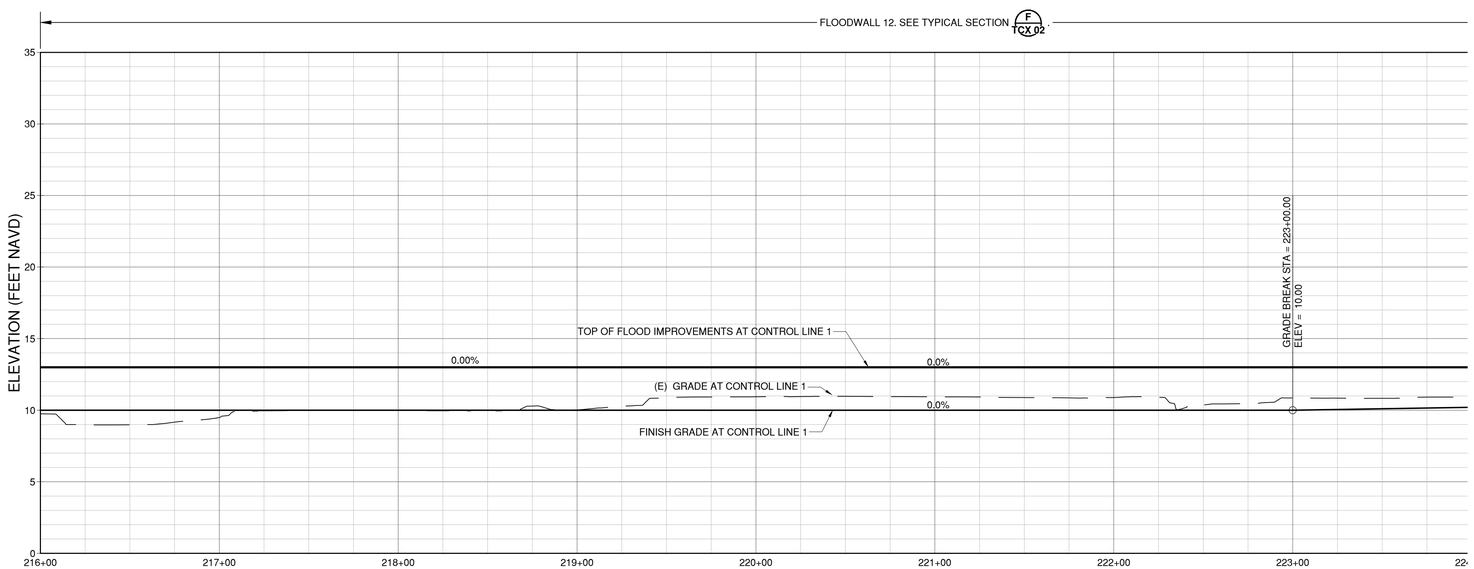
PLOT DATE: 1/31/2019 FILE PATH: J:\FOST\12-Levee_FinalDesign\Drawings\CalOES Application\SPG 21-24.dwg

XREFS: X-Title Block, X-Topo - Hwy 92 Bridge, X-FINAL AERIAL TOPO - 15-753-ALL, X-UTILITIES, 90% FINAL GRADING



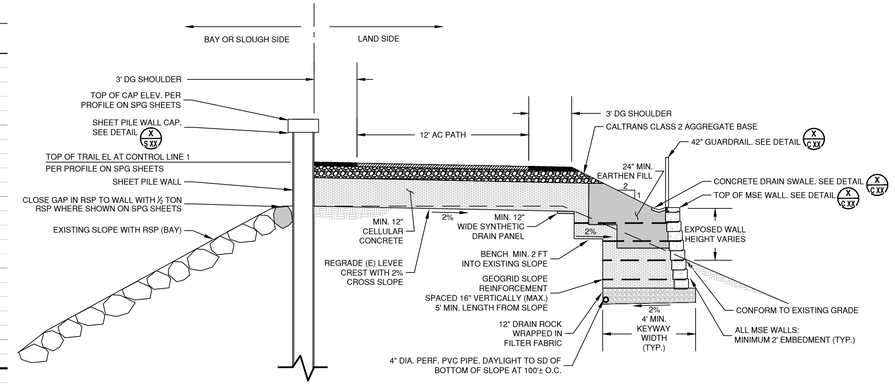
LEGEND

- ICE PLANT
- NATIVE PLANTING
- CONTAINER PLANTING
- OTHER PLANTING
- —MHW— MEAN HIGH WATER LINE
- —SHORELINE— BCDC SHORELINE BAND
- FLOODWALL



PROFILE AT CONTROL LINE 1

HORIZ.SCALE: 1" = 40'
VERT. SCALE: 1" = 5'



TYPICAL SECTION F

SCALE: 1 = 5'

FOR REVIEW – NOT FOR CONSTRUCTION

DATE: 1/25/2019	APPROVED:	NO.	BY	DATE	REVISIONS
SCALE: AS SHOWN					
DRAWN BY: ARO	NORM DORAIS, PUBLIC WORKS DIRECTOR/CITY ENGINEER				
PROJECT NUMBER: FOST.12.16	CITY OF FOSTER CITY				
DESIGNED BY: ARO					
CHECKED BY: CDA	DATE / 57220 R.C.E. # / 12/21/2019 EXPIRES				
SURVEYED BY: WILSEY-HAM					

CITY OF FOSTER CITY
PUBLIC WORKS DEPARTMENT
610 FOSTER CITY BOULEVARD, FOSTER CITY, CA 94404
PHONE (650) 286-3270 FAX (650) 345-4626

REGISTERED PROFESSIONAL ENGINEER — JAMES D. MINGER — NO. 43776 — CIVIL — STATE OF CALIFORNIA — PRELIMINARY NOT FOR CONSTRUCTION

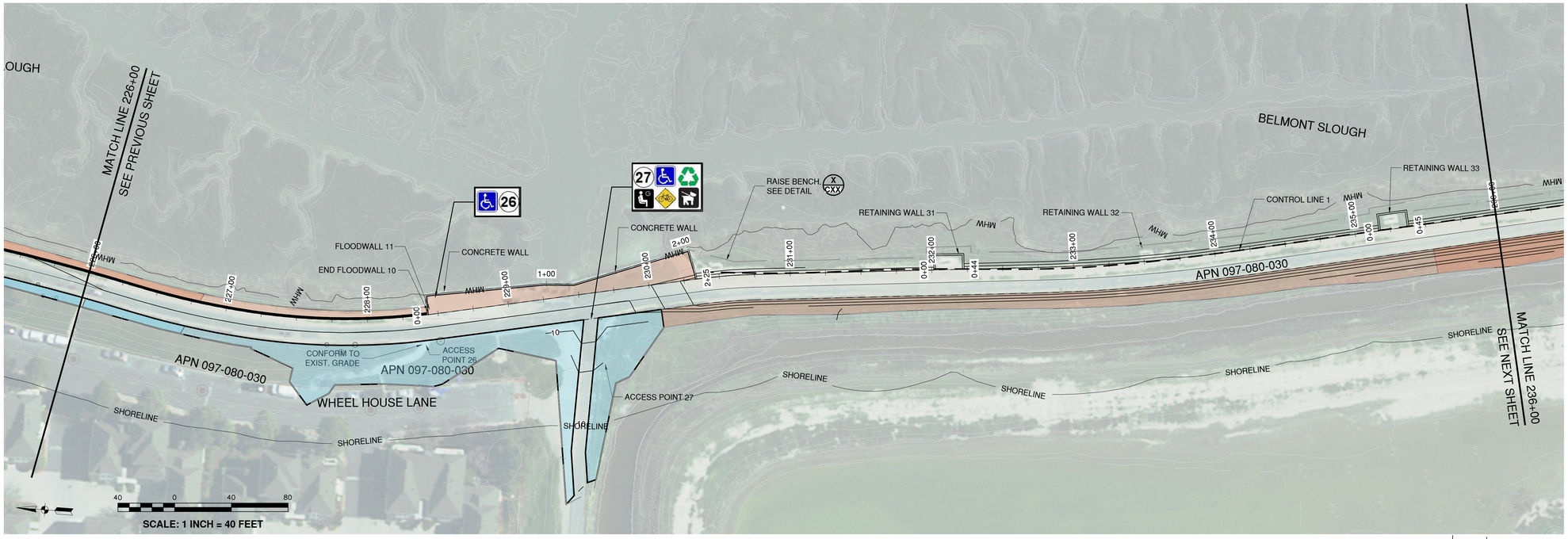
Schaaf & Wheeler
CONSULTING CIVIL ENGINEERS
1171 HOMESTEAD ROAD, STE 255
SANTA CLARA, CA 95050
(408) 246-4848

FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657
SHEET PILE INSTALLATION AND GRADING

SHEET
SPG 23
SHEET 37 OF xxx
CIP PROJ. NUMBER
CIP 301-657

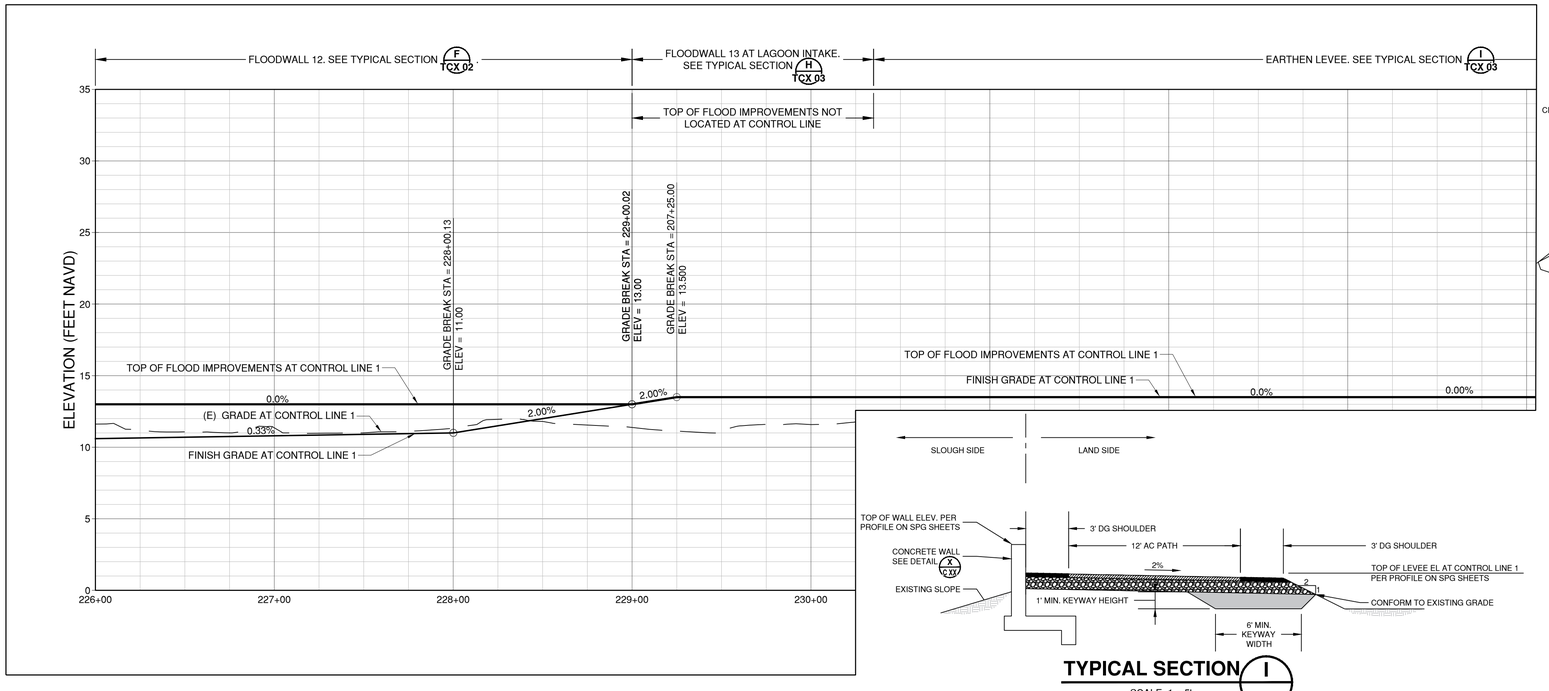
PLOT DATE: 1/31/2019 FILE PATH: J:\FOST\12-Levee_FinalDesign\Drawings\CalOES Application\SPG 21-24.dwg

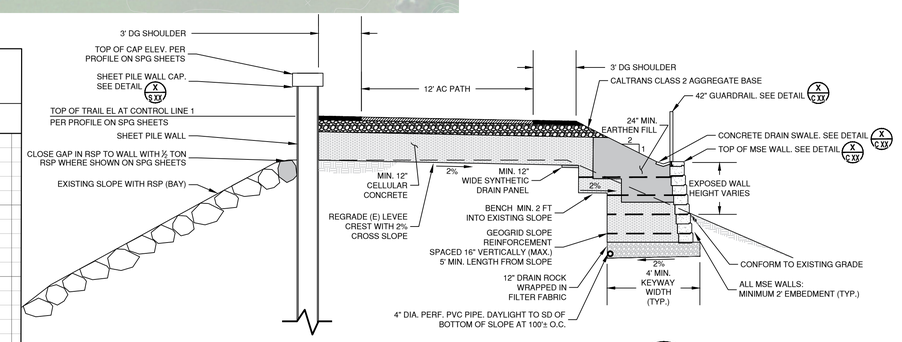
XREFS: X-Title Block, X-Topo - Hwy 92 Bridge, X-FINAL AERIAL TOPO - 15-753-ALL, X-UTILITIES, 90% FINAL GRADING



LEGEND

- ICE PLANT
- NATIVE PLANTING
- CONTAINER PLANTING
- OTHER PLANTING
- MHW — MEAN HIGH WATER LINE
- SHORELINE — BCDC SHORELINE BAND
- FLOODWALL



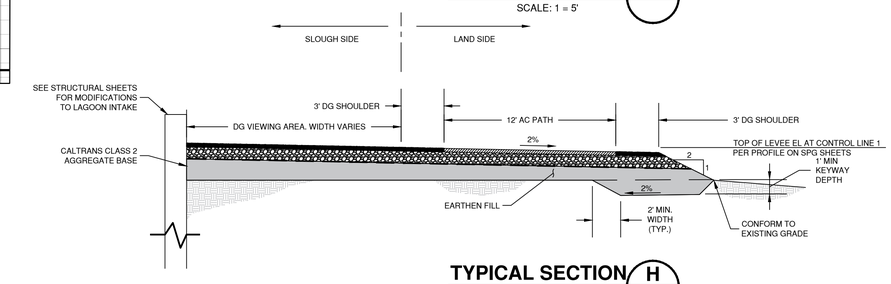


TYPICAL SECTION F

SCALE: 1 = 5'

TYPICAL SECTION I

SCALE: 1 = 5'



TYPICAL SECTION H

SCALE: 1 = 5'

FOR REVIEW – NOT FOR CONSTRUCTION

DATE:	1/25/2019
SCALE:	AS SHOWN
DRAWN BY:	ARO
PROJECT NUMBER:	FOST.12.16
DESIGNED BY:	ARO
CHECKED BY:	CDA
SURVEYED BY:	WILSEY-HAM

APPROVED:

NORM DORAIS, PUBLIC WORKS DIRECTOR/CITY ENGINEER
CITY OF FOSTER CITY

DATE — 57220 R.C.E. # — 12/21/2019 EXPIRES

NO.	BY	DATE	REVISIONS

CITY OF FOSTER CITY
PUBLIC WORKS DEPARTMENT
610 FOSTER CITY BOULEVARD, FOSTER CITY, CA 94404
PHONE (650) 286-3270 FAX (650) 345-4626

REGISTERED PROFESSIONAL ENGINEER — THOMAS D. MUSGROVE — No. 43776 — CIVIL — STATE OF CALIFORNIA — PRELIMINARY NOT FOR CONSTRUCTION

Schaaf & Wheeler
CONSULTING CIVIL ENGINEERS
1171 HOMESTEAD ROAD, STE 255
SANTA CLARA, CA 95050
(408) 246-4848

FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657
SHEET PILE INSTALLATION AND GRADING

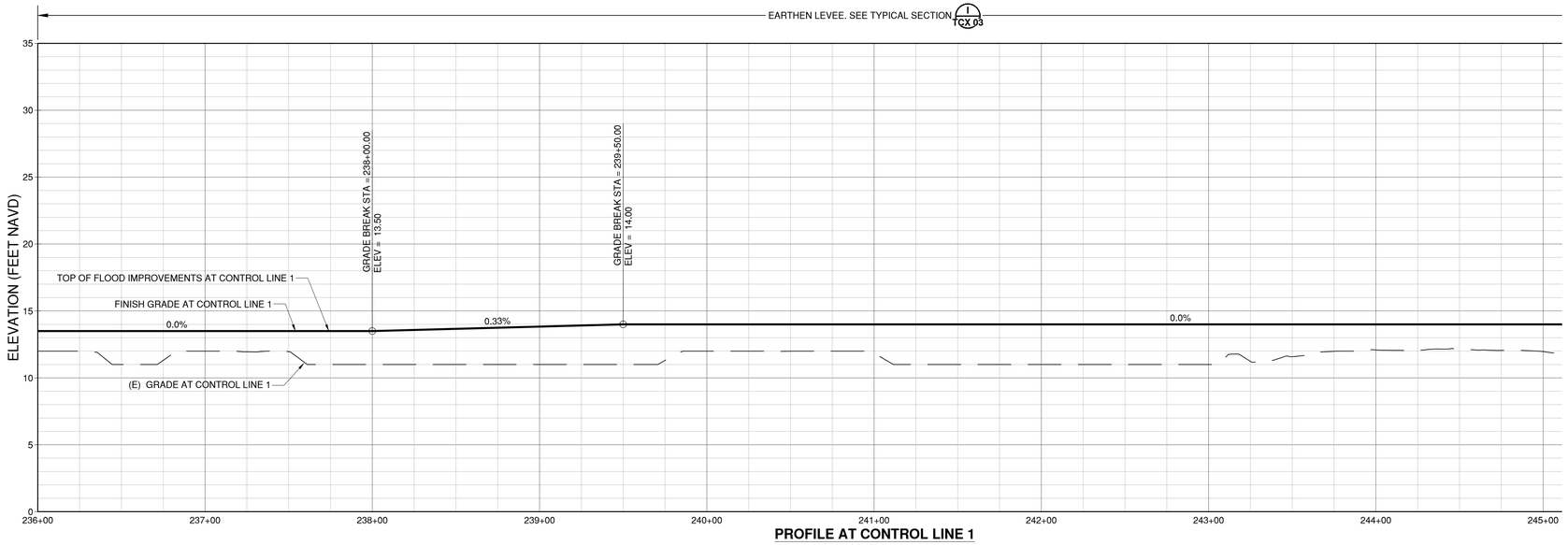
SHEET SPG 24
SHEET 38 OF xxx
CIP PROJ. NUMBER CIP 301-657

PLOT DATE: 1/31/2019 FILE PATH: J:\FOST\12-Levee_Final\Design\Drawings\CalOES Application\SPG 21-24.dwg

XREFS: X-Title Block, X-Topo - Hwy 92 Bridge, X-FINAL AERIAL TOPO - 15-753-ALL, X-UTILITIES, 90% FINAL GRADING

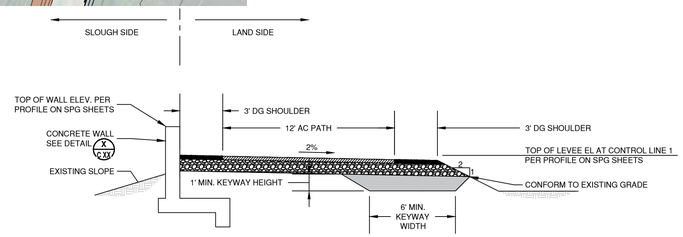
LEGEND

- ICE PLANT
- NATIVE PLANTING
- CONTAINER PLANTING
- OTHER PLANTING
- MHW — MEAN HIGH WATER LINE
- SHORELINE — BCDC SHORELINE BAND
- FLOODWALL



PROFILE AT CONTROL LINE 1

HORIZ.SCALE: 1" = 40'
VERT. SCALE: 1" = 5'



TYPICAL SECTION 1

SCALE: 1 = 5'

FOR REVIEW – NOT FOR CONSTRUCTION

DATE: 1/25/2019
SCALE: AS SHOWN
DRAWN BY: ARO
PROJECT NUMBER: FOST.12.16
DESIGNED BY: ARO
CHECKED BY: CDA
SURVEYED BY: WILSEY-HAM

APPROVED:

NORM DORAIS, PUBLIC WORKS DIRECTOR/CITY ENGINEER
CITY OF FOSTER CITY

DATE — 57220 R.C.E. # — 12/21/2019 EXPIRES

NO.	BY	DATE	REVISIONS

CITY OF FOSTER CITY
PUBLIC WORKS DEPARTMENT
610 FOSTER CITY BOULEVARD, FOSTER CITY, CA 94404
PHONE (650) 286-3270 FAX (650) 345-4626

REGISTERED PROFESSIONAL ENGINEER — JAMES D. ROGERS — No. 43776 — CIVIL — STATE OF CALIFORNIA — PRELIMINARY NOT FOR CONSTRUCTION

Schaaf & Wheeler
CONSULTING CIVIL ENGINEERS
1171 HOMESTEAD ROAD, STE 255
SANTA CLARA, CA 95050
(408) 246-4848

FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

SHEET PILE INSTALLATION AND GRADING

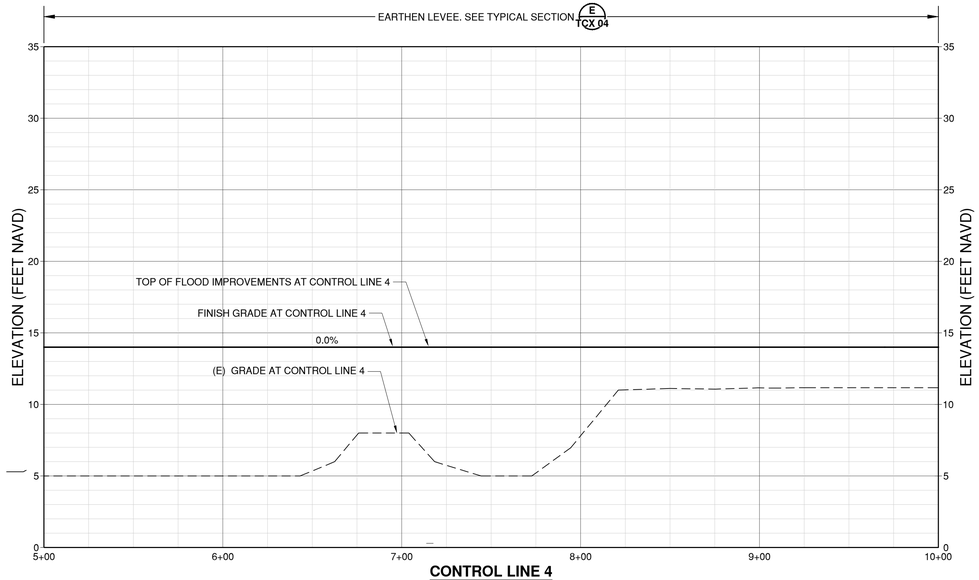
SHEET SPG 25
SHEET 39 OF xxx
CIP PROJ. NUMBER CIP 301-657

PLOT DATE: 1/31/2019 FILE PATH: J:\FOST\12-Levee_Final\Design\Drawings\CalOES Application\SPG 25-26.dwg

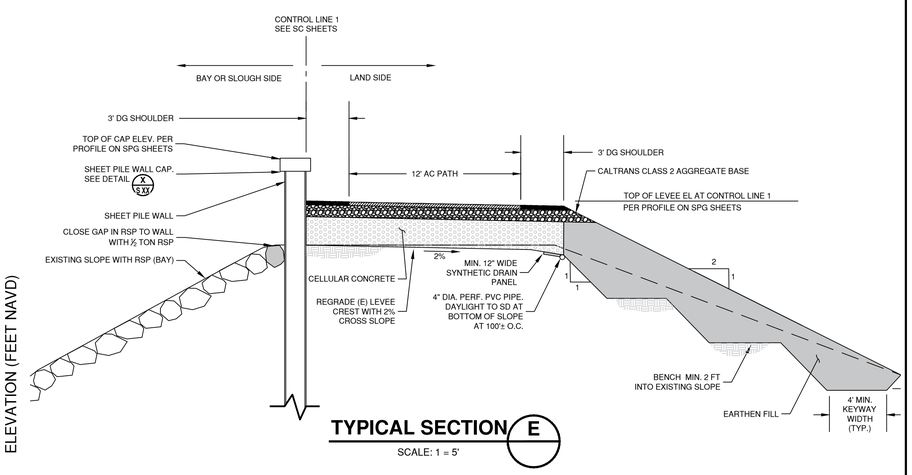
XREFS: X-Title Block, X-Topo - Hwy 92 Bridge, X-FINAL AERIAL TOPO - 15-753-ALL, X-UTILITIES, 90% FINAL GRADING

LEGEND

- ICE PLANT
- NATIVE PLANTING
- CONTAINER PLANTING
- OTHER PLANTING
- MHW — MEAN HIGH WATER LINE
- SHORELINE — BCDC SHORELINE BAND
- FLOODWALL



CONTROL LINE 4
HORIZ.SCALE: 1" = 40'
VERT. SCALE: 1" = 5'



TYPICAL SECTION E
SCALE: 1 = 5'

FOR REVIEW – NOT FOR CONSTRUCTION

DATE: 1/25/2019	APPROVED:	NO.	BY	DATE	REVISIONS
SCALE: AS SHOWN					
DRAWN BY: ARO	NORM DORAIS, PUBLIC WORKS DIRECTOR/CITY ENGINEER				
PROJECT NUMBER: FOST.12.16	CITY OF FOSTER CITY				
DESIGNED BY: ARO					
CHECKED BY: CDA	DATE 57220 R.C.E. # 12/21/2019 EXPIRES				
SURVEYED BY: WILSEY–HAM					

CITY OF FOSTER CITY
PUBLIC WORKS DEPARTMENT
610 FOSTER CITY BOULEVARD, FOSTER CITY, CA 94404
PHONE (650) 286-3270 FAX (650) 345-4626

REGISTERED PROFESSIONAL ENGINEER — JAMES D. ALLEN — No. 43778 — CIVIL — STATE OF CALIFORNIA — PRELIMINARY NOT FOR CONSTRUCTION

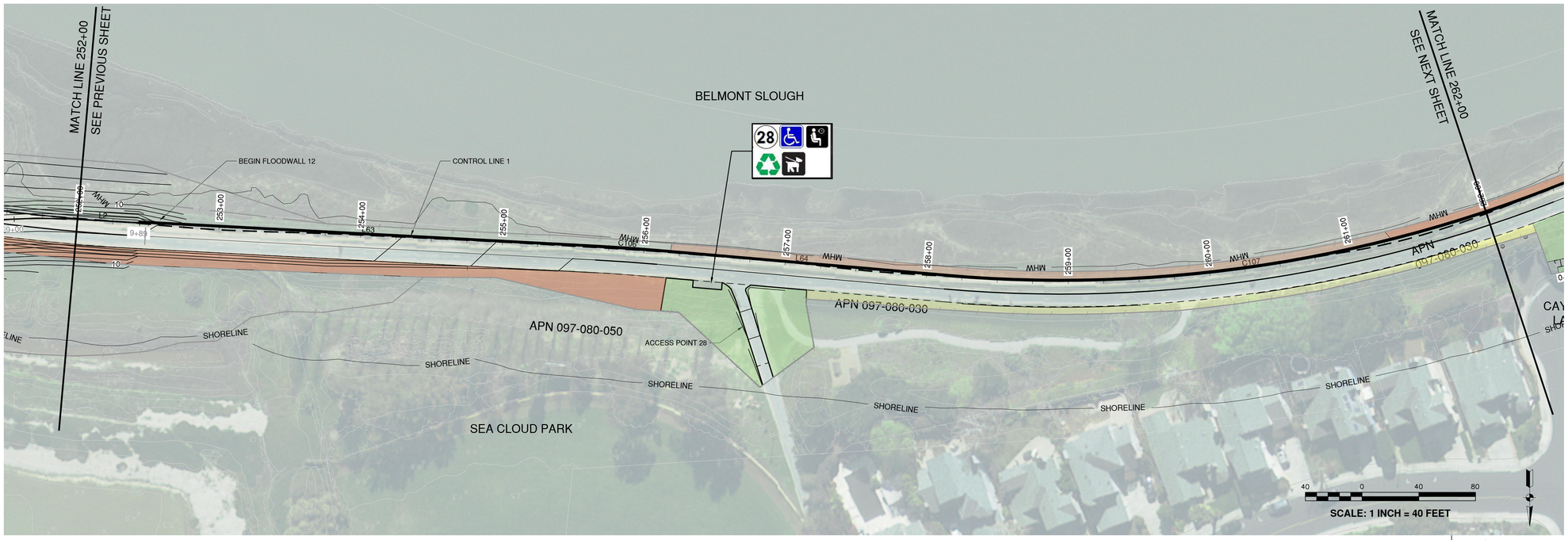
Schaaf & Wheeler
CONSULTING CIVIL ENGINEERS
1171 HOMESTEAD ROAD, STE 255
SANTA CLARA, CA 95050
(408) 246-4848

FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657
SHEET PILE INSTALLATION AND GRADING

SHEET
SPG 26
SHEET 40 OF xxx
CIP PROJ. NUMBER
CIP 301–657

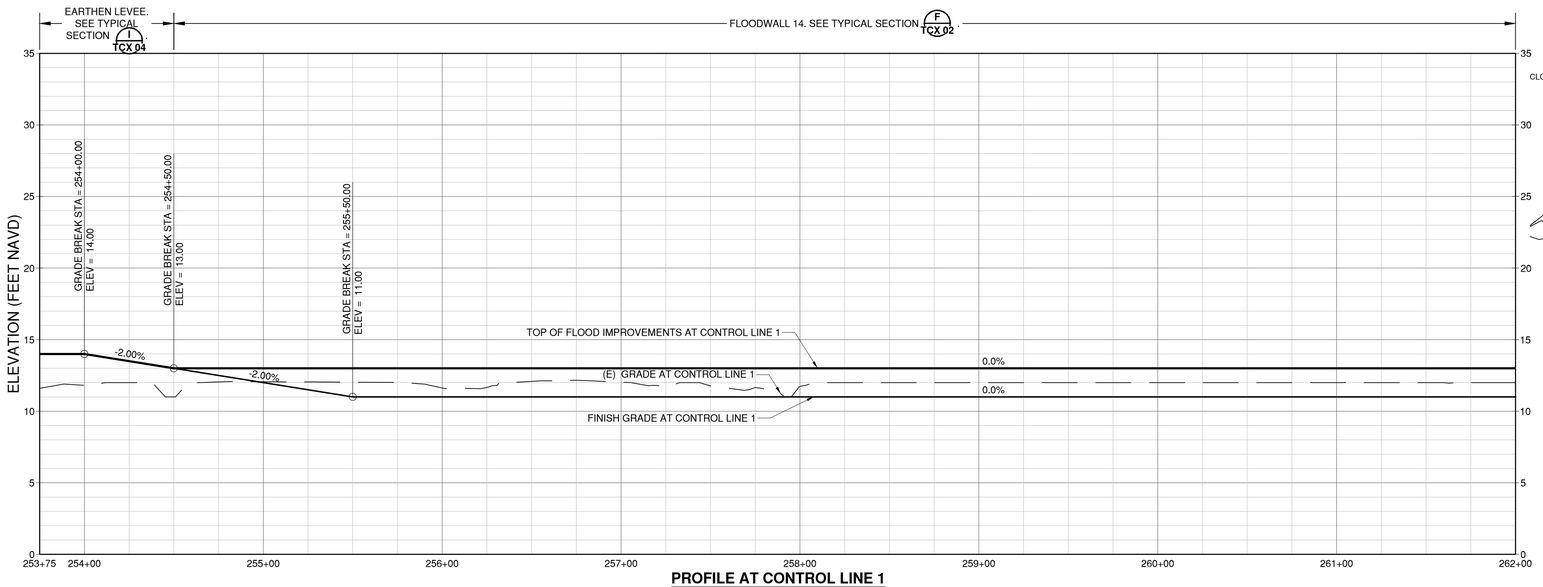
PLOT DATE: 1/31/2019 FILE PATH: J:\FOST\12-Levee_FinalDesign\Drawings\CalOES Application\SPG 25-26.dwg

XREFS: X-Title Block, X-Topo - Hwy 92 Bridge, X-FINAL AERIAL TOPO - 15-753-ALL, X-UTILITIES, 90% FINAL GRADING



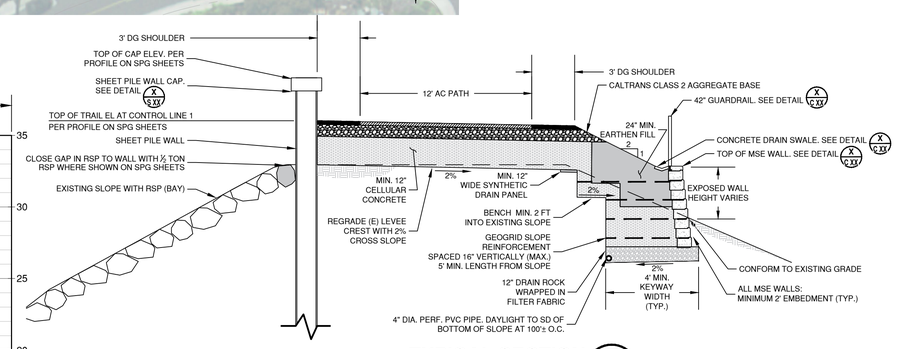
LEGEND

- ICE PLANT
- NATIVE PLANTING
- CONTAINER PLANTING
- OTHER PLANTING
- MHW — MEAN HIGH WATER LINE
- SHORELINE — BCDC SHORELINE BAND
- FLOODWALL



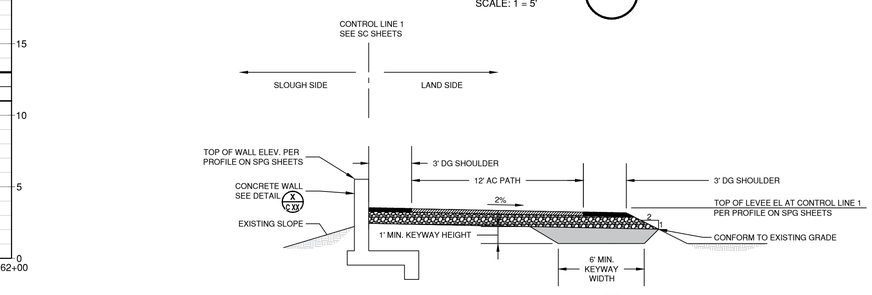
PROFILE AT CONTROL LINE 1

HORIZ.SCALE: 1" = 40'
VERT. SCALE: 1" = 5'



TYPICAL SECTION F

SCALE: 1 = 5'



TYPICAL SECTION I

SCALE: 1 = 5'

FOR REVIEW – NOT FOR CONSTRUCTION

DATE:	1/25/2019
SCALE:	AS SHOWN
DRAWN BY:	ARO
PROJECT NUMBER:	FOST.12.16
DESIGNED BY:	ARO
CHECKED BY:	CDA
SURVEYED BY:	WILSEY-HAM

APPROVED:

NORM DORAIS, PUBLIC WORKS DIRECTOR/CITY ENGINEER
CITY OF FOSTER CITY

DATE — 57220 R.C.E. # — 12/21/2019 EXPIRES

NO.	BY	DATE	REVISIONS

CITY OF FOSTER CITY
PUBLIC WORKS DEPARTMENT
610 FOSTER CITY BOULEVARD, FOSTER CITY, CA 94404
PHONE (650) 286-3270 FAX (650) 345-4626

REGISTERED PROFESSIONAL ENGINEER — CHARLES D. DUNCAN — No. 43776 — CIVIL — STATE OF CALIFORNIA — NOT FOR CONSTRUCTION

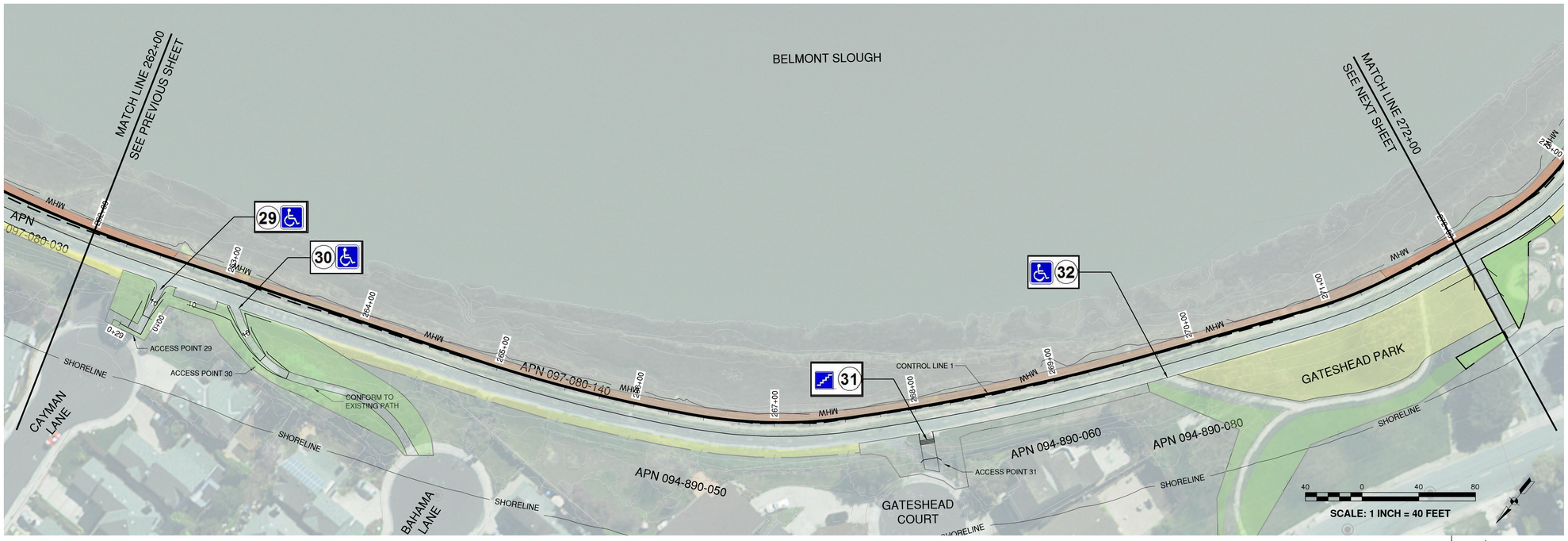
Schaaf & Wheeler
CONSULTING CIVIL ENGINEERS
1171 HOMESTEAD ROAD, STE 255
SANTA CLARA, CA 95050
(408) 246-4848

FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657
SHEET PILE INSTALLATION AND GRADING

SHEET SPG 27
SHEET 41 OF xxx
CIP PROJ. NUMBER CIP 301-657

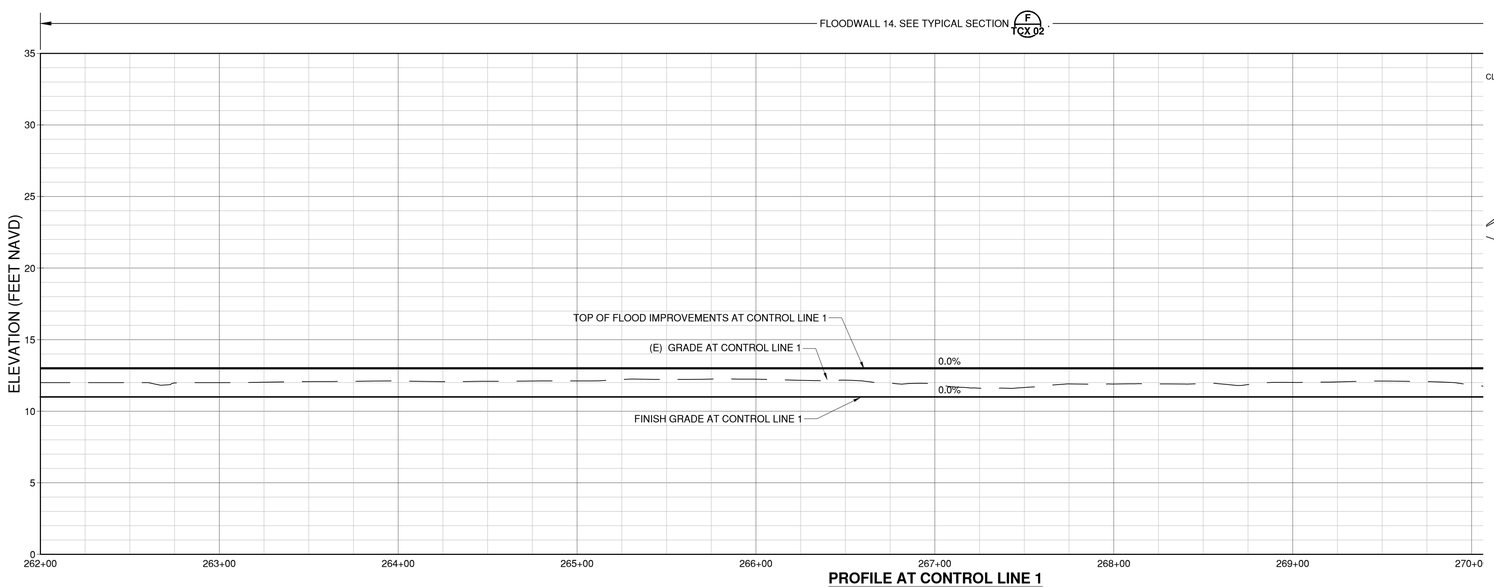
PLOT DATE: 1/31/2019 FILE PATH: J:\FOST\12-Levee_Final\Design\Drawings\CalOES Application\SPG 27-31.dwg

XREFS: X-Title Block, X-Topo - Hwy 92 Bridge, X-FINAL AERIAL TOPO - 15-753-ALL, X-UTILITIES, 90% FINAL GRADING



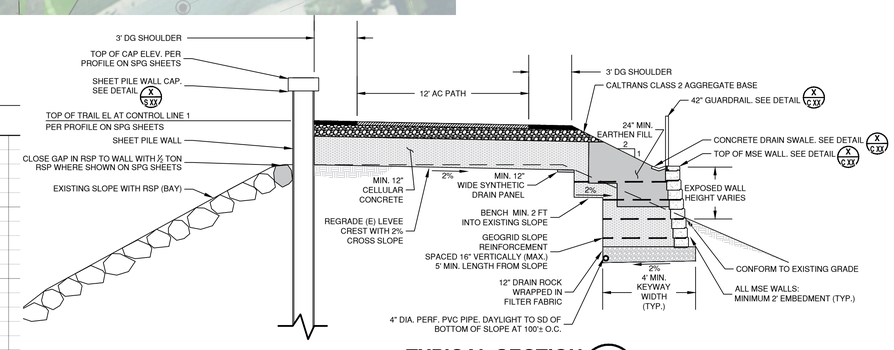
LEGEND

- ICE PLANT
- NATIVE PLANTING
- CONTAINER PLANTING
- OTHER PLANTING
- MHW — MEAN HIGH WATER LINE
- SHORELINE — BCDC SHORELINE BAND
- FLOODWALL



PROFILE AT CONTROL LINE 1

HORIZ.SCALE: 1" = 40'
VERT. SCALE: 1" = 5'



TYPICAL SECTION F

SCALE: 1 = 5'

FOR REVIEW – NOT FOR CONSTRUCTION

DATE: 1/25/2019
SCALE: AS SHOWN
DRAWN BY: ARO
PROJECT NUMBER: FOST.12.16
DESIGNED BY: ARO
CHECKED BY: CDA
SURVEYED BY: WILSEY-HAM

APPROVED:

NORM DORAIS, PUBLIC WORKS DIRECTOR/CITY ENGINEER
CITY OF FOSTER CITY

DATE — 57220 R.C.E. # — 12/21/2019 EXPIRES

NO.	BY	DATE	REVISIONS

CITY OF FOSTER CITY
PUBLIC WORKS DEPARTMENT
610 FOSTER CITY BOULEVARD, FOSTER CITY, CA 94404
PHONE (650) 286-3270 FAX (650) 345-4626

REGISTERED PROFESSIONAL ENGINEER — CHARLES D. DRAKE — No. 43776 — CIVIL — STATE OF CALIFORNIA — NOT FOR CONSTRUCTION

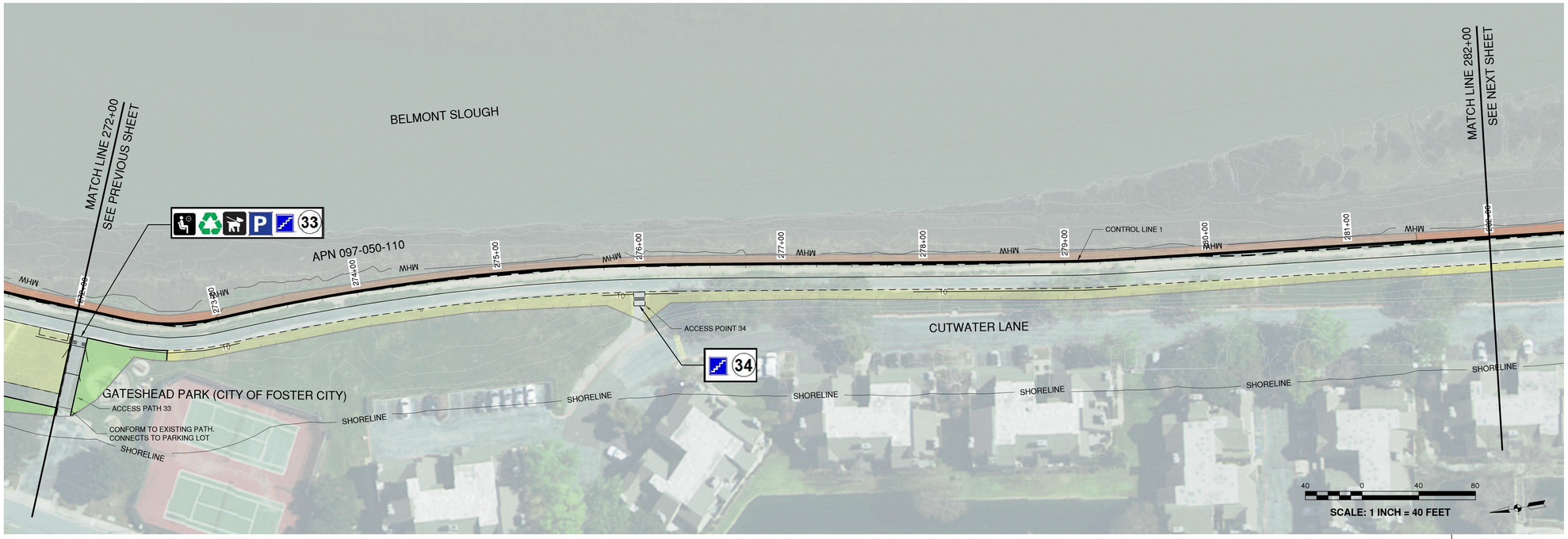
Schaaf & Wheeler
CONSULTING CIVIL ENGINEERS
1171 HOMESTEAD ROAD, STE 255
SANTA CLARA, CA 95050
(408) 246-4848

FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657
SHEET PILE INSTALLATION AND GRADING

SHEET SPG 28
SHEET 42 OF xxx
CIP PROJ. NUMBER CIP 301-657

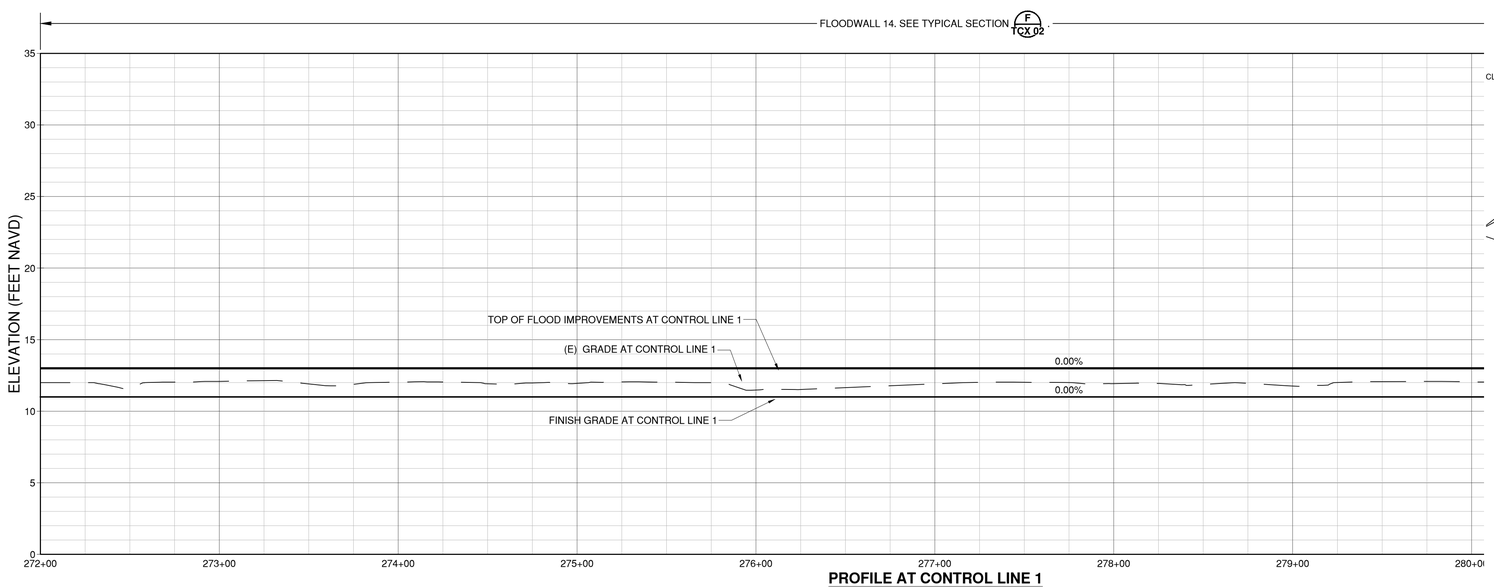
PLOT DATE: 1/31/2019 FILE PATH: J:\FOST\12-Levee_Final\Design\Drawings\CalOES Application\SPG 27-31.dwg

XREFS: X-Title Block, X-Topo - Hwy 92 Bridge, X-FINAL AERIAL TOPO - 15-753-ALL, X-UTILITIES, 90% FINAL GRADING



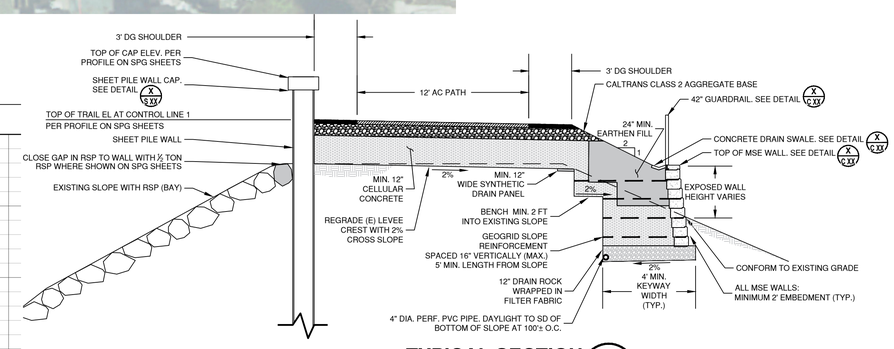
LEGEND

- ICE PLANT
- NATIVE PLANTING
- CONTAINER PLANTING
- OTHER PLANTING
- MHW — MEAN HIGH WATER LINE
- SHORELINE — BCDC SHORELINE BAND
- FLOODWALL



PROFILE AT CONTROL LINE 1

HORIZ.SCALE: 1" = 40'
VERT. SCALE: 1" = 5'



TYPICAL SECTION F

SCALE: 1 = 5'

FOR REVIEW – NOT FOR CONSTRUCTION

DATE: 1/25/2019	APPROVED:	NO.	BY	DATE	REVISIONS
SCALE: AS SHOWN					
DRAWN BY: ARO	NORM DORAIS, PUBLIC WORKS DIRECTOR/CITY ENGINEER				
PROJECT NUMBER: FOST.12.16	CITY OF FOSTER CITY				
DESIGNED BY: ARO					
CHECKED BY: CDA	DATE / 57220 R.C.E. # / 12/21/2019 EXPIRES				
SURVEYED BY: WILSEY-HAM					

CITY OF FOSTER CITY
PUBLIC WORKS DEPARTMENT
610 FOSTER CITY BOULEVARD, FOSTER CITY, CA 94404
PHONE (650) 286-3270 FAX (650) 345-4626

REGISTERED PROFESSIONAL ENGINEER — CHARLES D. DRAKE — No. 43776 — CIVIL — STATE OF CALIFORNIA — NOT FOR CONSTRUCTION

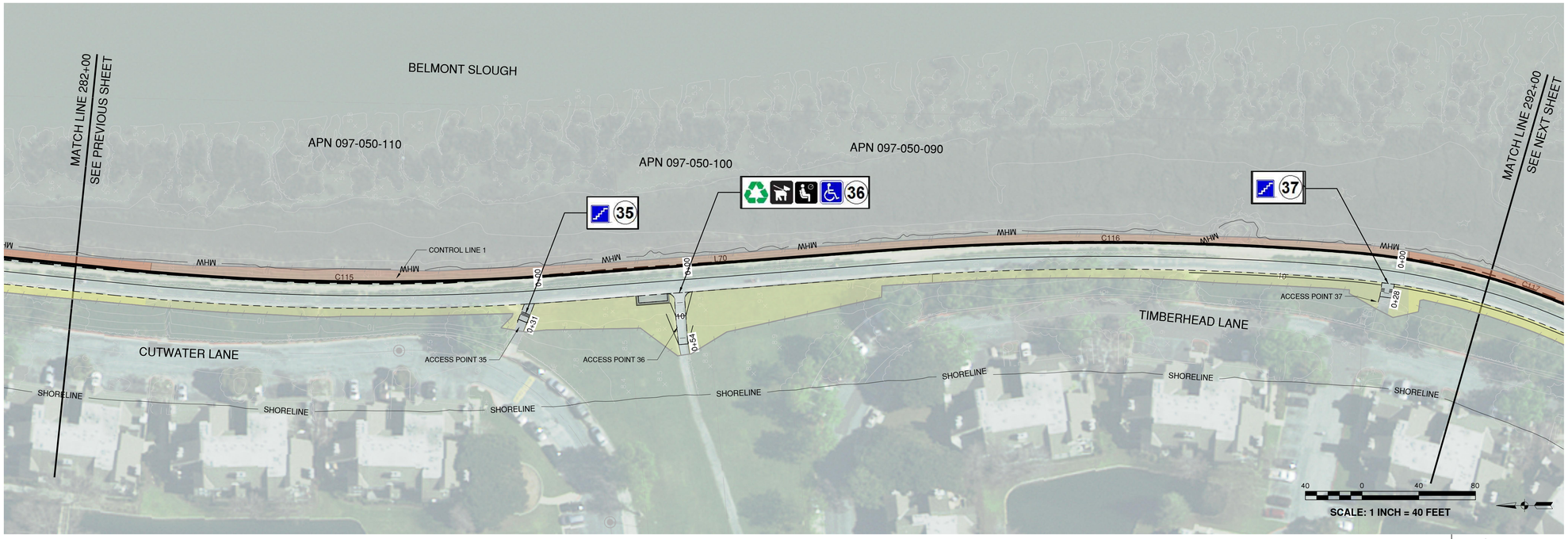
Schaaf & Wheeler
CONSULTING CIVIL ENGINEERS
1171 HOMESTEAD ROAD, STE 255
SANTA CLARA, CA 95050
(408) 246-4848

FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657
SHEET PILE INSTALLATION AND GRADING

SHEET SPG 29
SHEET 43 OF xxx
CIP PROJ. NUMBER CIP 301-657

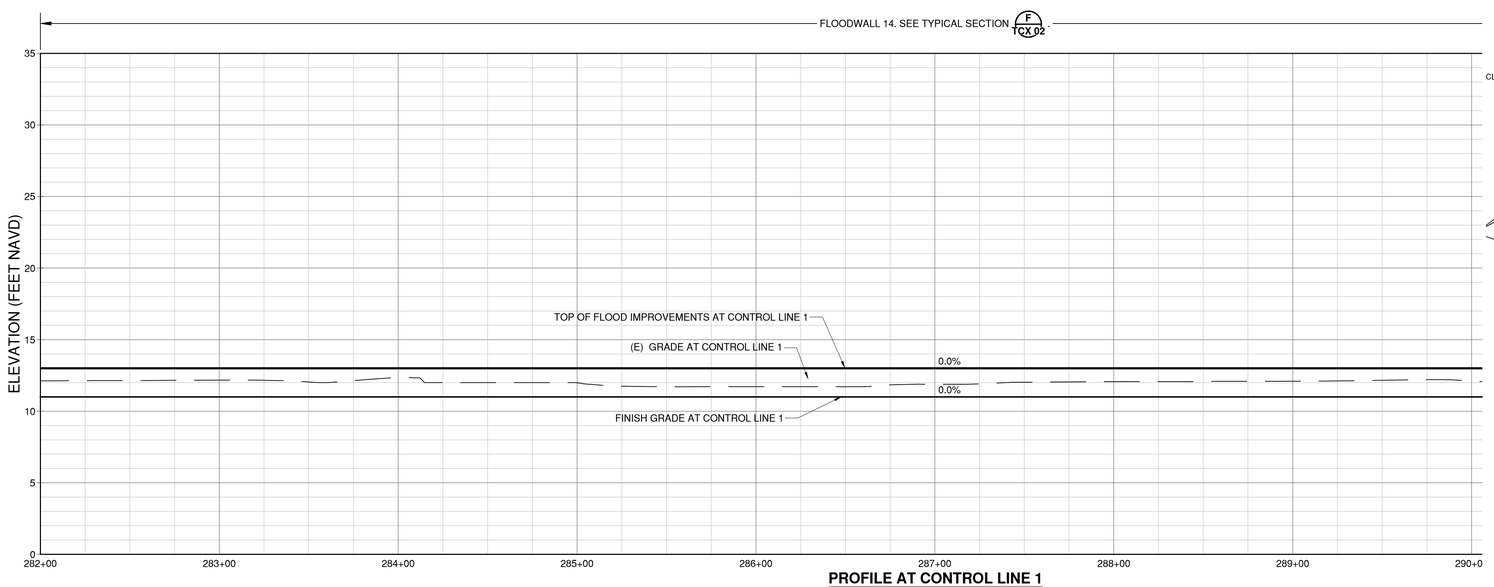
PLOT DATE: 1/31/2019 FILE PATH: J:\FOST\12-Levee_Final\Design\Drawings\CalOES Application\SPG 27-31.dwg

XREFS: X-Title Block, X-Topo - Hwy 92 Bridge, X-FINAL AERIAL TOPO - 15-753-ALL, X-UTILITIES, 90% FINAL GRADING



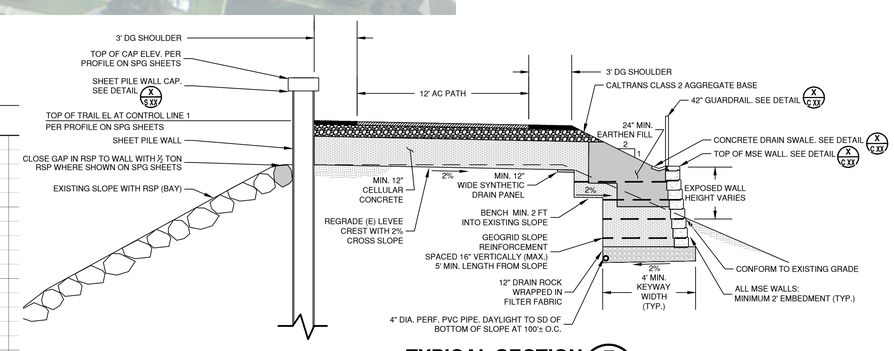
LEGEND

- ICE PLANT
- NATIVE PLANTING
- CONTAINER PLANTING
- OTHER PLANTING
- MHW — MEAN HIGH WATER LINE
- SHORELINE — BCDC SHORELINE BAND
- FLOODWALL



PROFILE AT CONTROL LINE 1

HORIZ.SCALE: 1" = 40'
VERT. SCALE: 1" = 5'



TYPICAL SECTION F

SCALE: 1 = 5'

FOR REVIEW – NOT FOR CONSTRUCTION

DATE: 1/25/2019
SCALE: AS SHOWN
DRAWN BY: ARO
PROJECT NUMBER: FOST.12.16
DESIGNED BY: ARO
CHECKED BY: CDA
SURVEYED BY: WILSEY-HAM

APPROVED:

NORM DORAIS, PUBLIC WORKS DIRECTOR/CITY ENGINEER
CITY OF FOSTER CITY

DATE — 57220 R.C.E. # — 12/21/2019 EXPIRES

NO.	BY	DATE	REVISIONS

CITY OF FOSTER CITY
PUBLIC WORKS DEPARTMENT
610 FOSTER CITY BOULEVARD, FOSTER CITY, CA 94404
PHONE (650) 286-3270 FAX (650) 345-4626

REGISTERED PROFESSIONAL ENGINEER — CHARLES D. WHEELER — No. 43776 — CIVIL — STATE OF CALIFORNIA — PRELIMINARY NOT FOR CONSTRUCTION

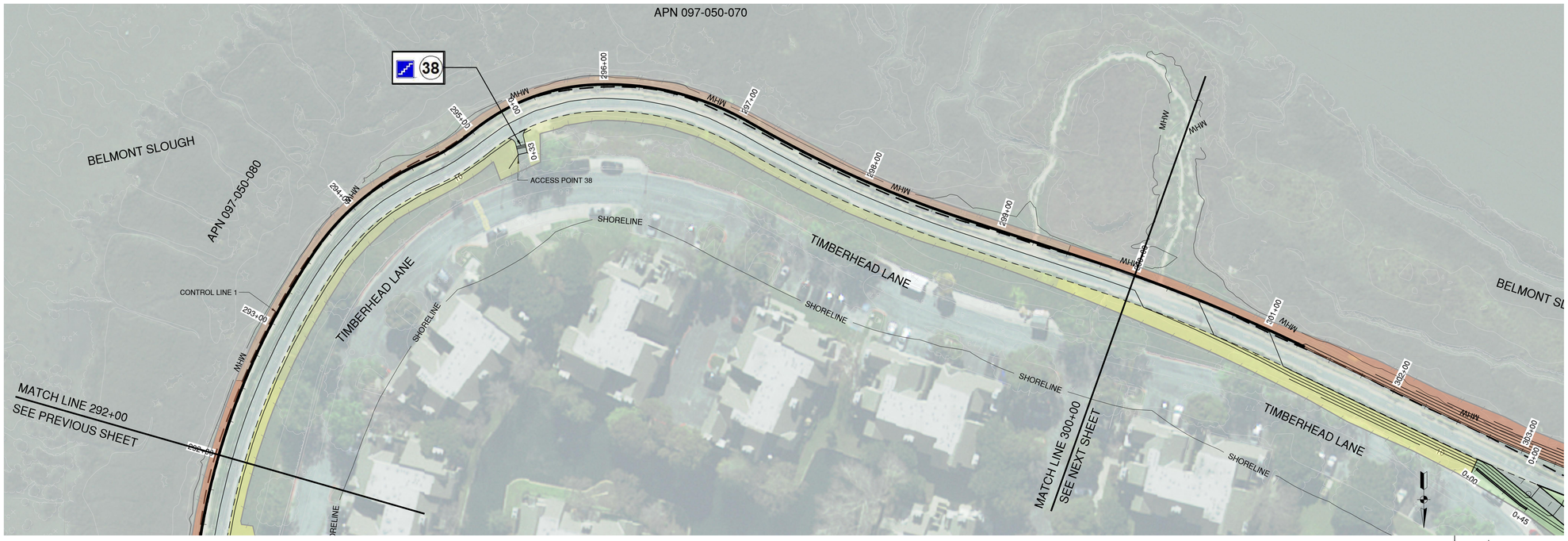
Schaaf & Wheeler
CONSULTING CIVIL ENGINEERS
1171 HOMESTEAD ROAD, STE 255
SANTA CLARA, CA 95050
(408) 246-4848

FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657
SHEET PILE INSTALLATION AND GRADING

SHEET
SPG 30
SHEET 44 OF xxx
CIP PROJ. NUMBER
CIP 301-657

PLOT DATE: 1/31/2019 FILE PATH: J:\FOST\12-Levee_Final\Design\Drawings\CalOES Application\SPG 27-31.dwg

XREFS: X-Title Block, X-Topo - Hwy 92 Bridge, X-FINAL AERIAL TOPO - 15-753-ALL, X-UTILITIES, 90% FINAL GRADING

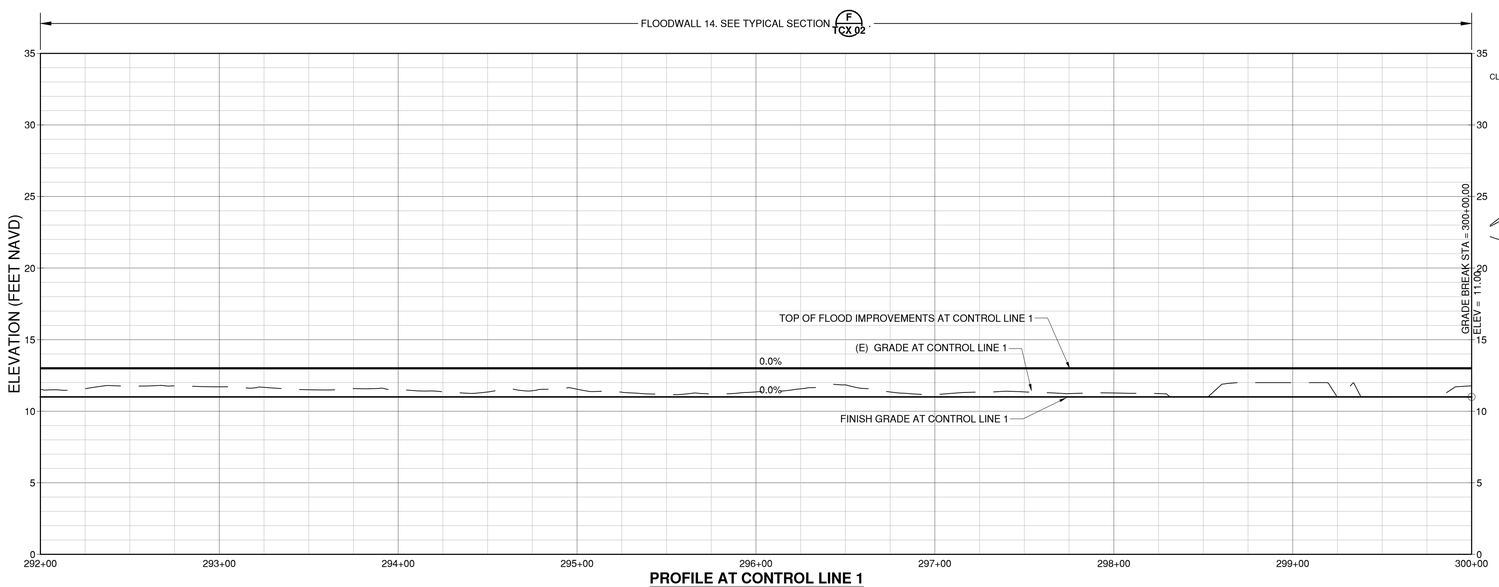


LEGEND

- ICE PLANT
- NATIVE PLANTING
- CONTAINER PLANTING
- OTHER PLANTING
- MHW — MEAN HIGH WATER LINE
- SHORELINE — BCDC SHORELINE BAND
- FLOODWALL

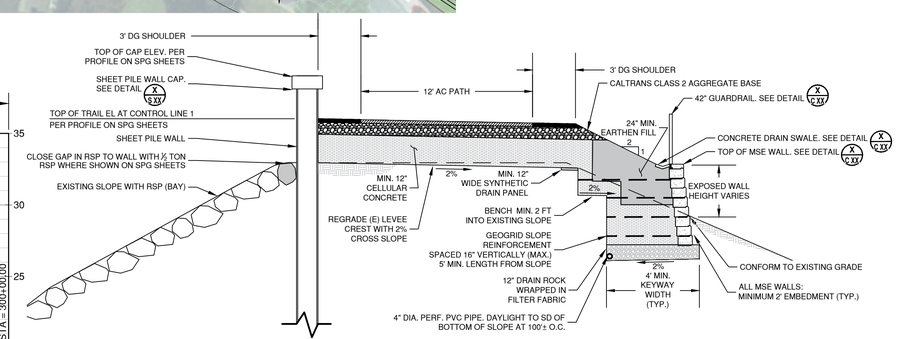
40 0 40 80

SCALE: 1 INCH = 40 FEET



PROFILE AT CONTROL LINE 1

HORIZ.SCALE: 1" = 40'
VERT. SCALE: 1" = 5'



TYPICAL SECTION F

SCALE: 1 = 5'

FOR REVIEW – NOT FOR CONSTRUCTION

DATE: 1/25/2019
SCALE: AS SHOWN
DRAWN BY: ARO
PROJECT NUMBER: FOST.12.16
DESIGNED BY: ARO
CHECKED BY: CDA
SURVEYED BY: WILSEY-HAM

APPROVED:

NORM DORAIS, PUBLIC WORKS DIRECTOR/CITY ENGINEER
CITY OF FOSTER CITY

DATE — 57220 R.C.E. # — 12/21/2019 EXPIRES

NO.	BY	DATE	REVISIONS

CITY OF FOSTER CITY
PUBLIC WORKS DEPARTMENT
610 FOSTER CITY BOULEVARD, FOSTER CITY, CA 94404
PHONE (650) 286-3270 FAX (650) 345-4626

PRELIMINARY NOT FOR CONSTRUCTION

Schaaf & Wheeler
CONSULTING CIVIL ENGINEERS
1171 HOMESTEAD ROAD, STE 255
SANTA CLARA, CA 95050
(408) 246-4848

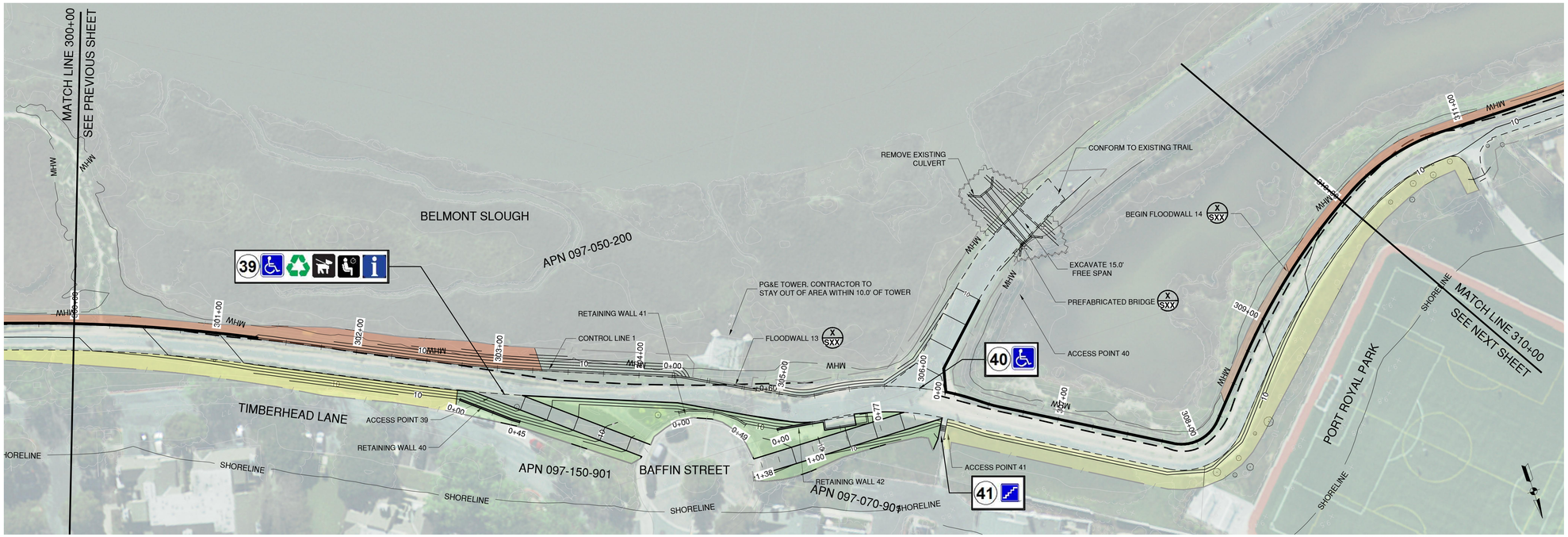
FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

SHEET PILE INSTALLATION AND GRADING

SHEET
SPG 31
SHEET 45 OF xxx
CIP PROJ. NUMBER
CIP 301-657

PLOT DATE: 1/31/2019 FILE PATH: J:\FOST\12-Levee_Final\Design\Drawings\CalOES Application\SPG 27-31.dwg

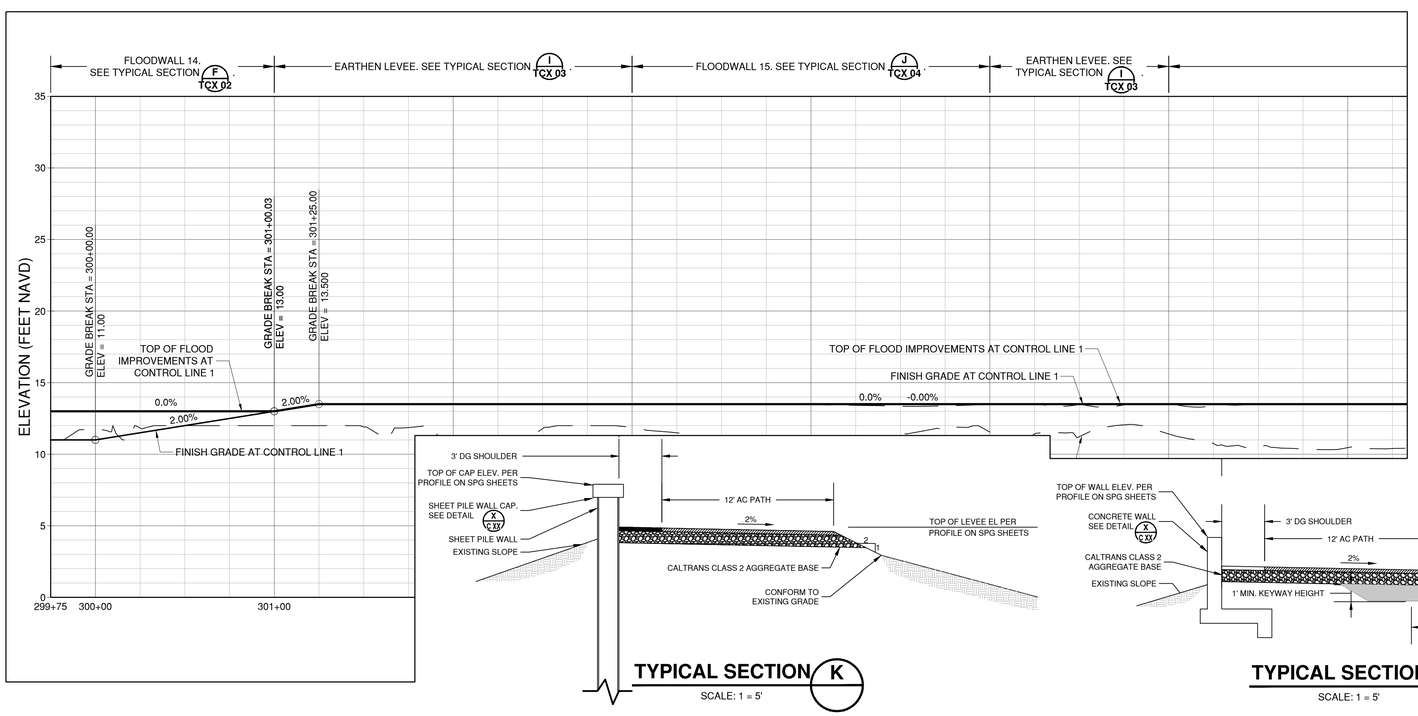
XREFS: X-Title Block, X-Topo - Hwy 92 Bridge, X-FINAL AERIAL TOPO - 15-753-ALL, X-UTILITIES, 90% FINAL GRADING



LEGEND

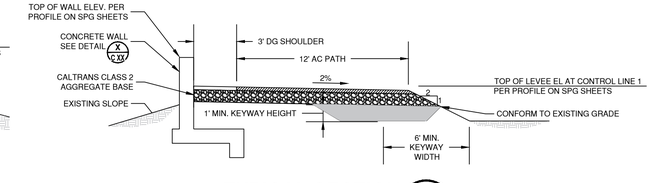
- ICE PLANT
- NATIVE PLANTING
- CONTAINER PLANTING
- OTHER PLANTING
- MHW — MEAN HIGH WATER LINE
- SHORELINE — BCDC SHORELINE BAND
- FLOODWALL

SCALE: 1 INCH = 40 FEET



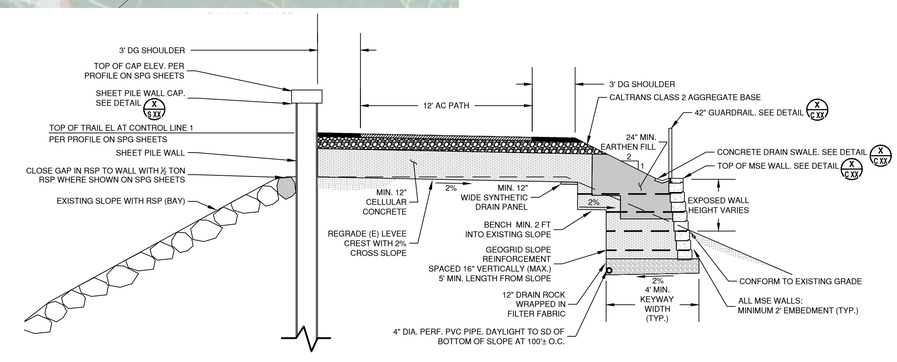
TYPICAL SECTION K

SCALE: 1 = 5'



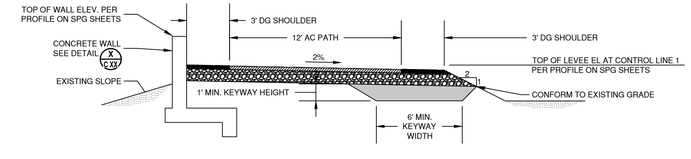
TYPICAL SECTION J

SCALE: 1 = 5'



TYPICAL SECTION F

SCALE: 1 = 5'



TYPICAL SECTION I

SCALE: 1 = 5'

FOR REVIEW – NOT FOR CONSTRUCTION

DATE:	1/25/2019
SCALE:	AS SHOWN
DRAWN BY:	ARO
PROJECT NUMBER:	FOST.12.16
DESIGNED BY:	ARO
CHECKED BY:	CDA
SURVEYED BY:	WILSEY–HAM

APPROVED:

NORM DORAIS, PUBLIC WORKS DIRECTOR/CITY ENGINEER
CITY OF FOSTER CITY

DATE — 57220 R.C.E. # — 12/21/2019 EXPIRES

NO.	BY	DATE	REVISIONS

CITY OF FOSTER CITY
PUBLIC WORKS DEPARTMENT
610 FOSTER CITY BOULEVARD, FOSTER CITY, CA 94404
PHONE (650) 286-3270 FAX (650) 345-4626

REGISTERED PROFESSIONAL ENGINEER — CHRIS D. ALKIRE — No. 43776 — CIVIL — STATE OF CALIFORNIA
PRELIMINARY NOT FOR CONSTRUCTION

Schaaf & Wheeler
CONSULTING CIVIL ENGINEERS
1171 HOMESTEAD ROAD, STE 255
SANTA CLARA, CA 95050
(408) 246-4848

FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657
SHEET PILE INSTALLATION AND GRADING

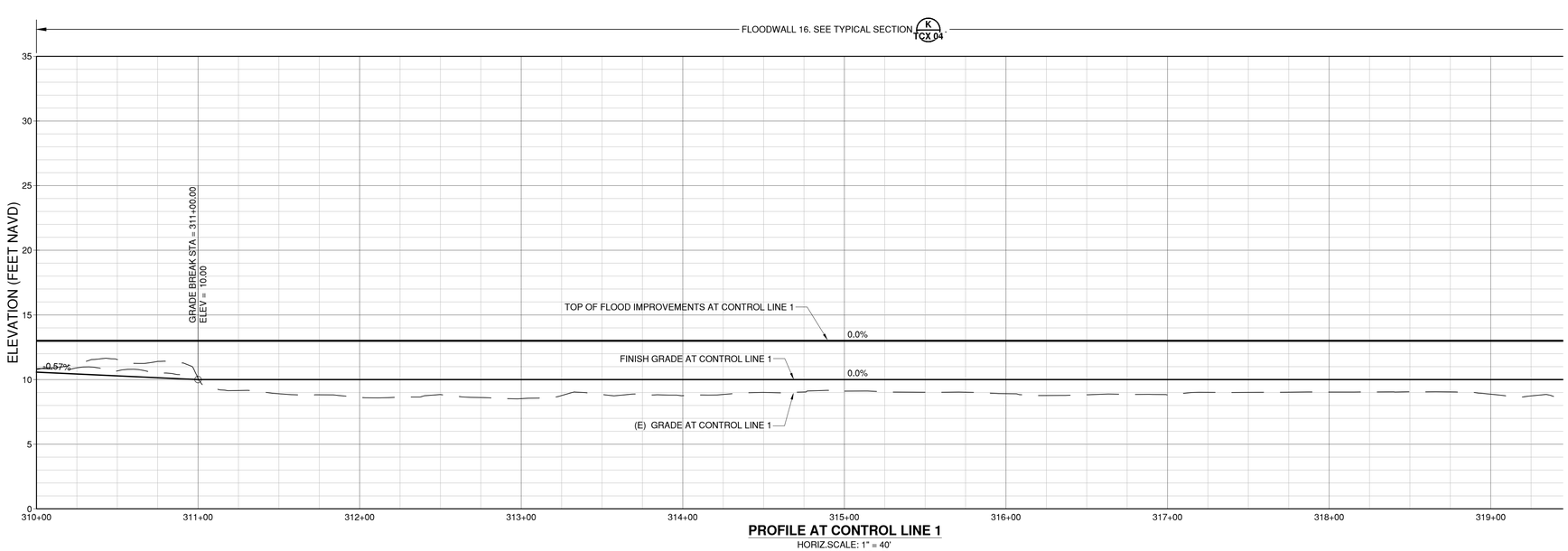
SHEET SPG 32
SHEET 46 OF xxx
CIP PROJ. NUMBER CIP 301–657

PLOT DATE: 1/31/2019 FILE PATH: J:\FOST\12-Levee_Final\Design\Drawings\CalOES Application\SPG 32.dwg

XREFS: X-Title Block, X-Topo - Hwy 92 Bridge, X-FINAL AERIAL TOPO - 15-753-ALL, X-UTILITIES, 90% FINAL GRADING

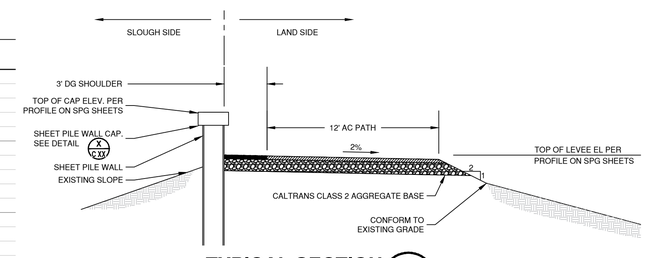
LEGEND

- ICE PLANT
- NATIVE PLANTING
- CONTAINER PLANTING
- OTHER PLANTING
- MHW — MEAN HIGH WATER LINE
- SHORELINE — BCDC SHORELINE BAND
- FLOODWALL



PROFILE AT CONTROL LINE 1

HORIZ.SCALE: 1" = 40'
VERT. SCALE: 1" = 5'



TYPICAL SECTION K

SCALE: 1 = 5'

FOR REVIEW – NOT FOR CONSTRUCTION

DATE: 1/25/2019
SCALE: AS SHOWN
DRAWN BY: ARO
PROJECT NUMBER: FOST.12.16
DESIGNED BY: ARO
CHECKED BY: CDA
SURVEYED BY: WILSEY-HAM

APPROVED:

NORM DORAIS, PUBLIC WORKS DIRECTOR/CITY ENGINEER
CITY OF FOSTER CITY

DATE — 57220 R.C.E. # — 12/21/2019 EXPIRES

NO.	BY	DATE	REVISIONS

CITY OF FOSTER CITY
PUBLIC WORKS DEPARTMENT
610 FOSTER CITY BOULEVARD, FOSTER CITY, CA 94404
PHONE (650) 286-3270 FAX (650) 345-4626

REGISTERED PROFESSIONAL ENGINEER — THOMAS D. INGRAM — No. 43776 — CIVIL — STATE OF CALIFORNIA — NOT FOR CONSTRUCTION

Schaaf & Wheeler
CONSULTING CIVIL ENGINEERS
1171 HOMESTEAD ROAD, STE 255
SANTA CLARA, CA 95050
(408) 246-4848

FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657
SHEET PILE INSTALLATION AND GRADING

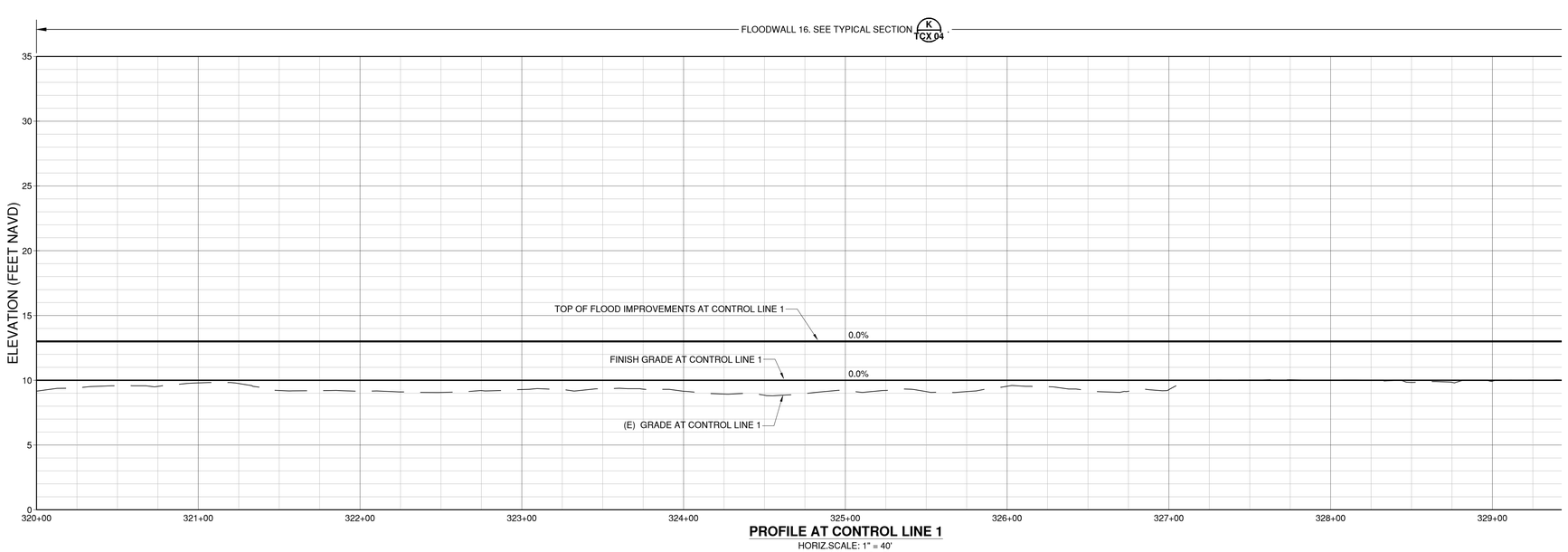
SHEET
SPG 33
SHEET 47 OF xxx
CIP PROJ. NUMBER
CIP 301-657

PLOT DATE: 1/31/2019 FILE PATH: J:\FOST\12-Levee_Final\Design\Drawings\CalOES-Application\SPG 33-36.dwg

XREFS: X-Title Block, X-Topo - Hwy 92 Bridge, X-FINAL AERIAL TOPO - 15-753-ALL, X-UTILITIES, 90% FINAL GRADING

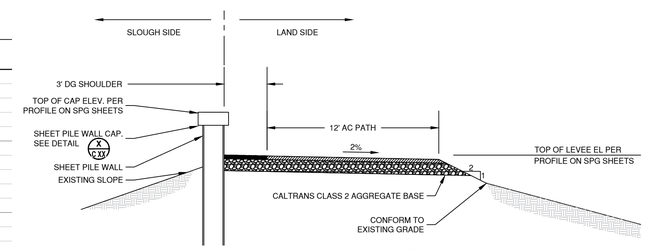
LEGEND

- ICE PLANT
- NATIVE PLANTING
- CONTAINER PLANTING
- OTHER PLANTING
- MHW — MEAN HIGH WATER LINE
- SHORELINE — BCDC SHORELINE BAND
- FLOODWALL



PROFILE AT CONTROL LINE 1

HORIZ.SCALE: 1" = 40'
VERT. SCALE: 1" = 5'



TYPICAL SECTION K

SCALE: 1 = 5'

FOR REVIEW – NOT FOR CONSTRUCTION

DATE: 1/25/2019
SCALE: AS SHOWN
DRAWN BY: ARO
PROJECT NUMBER: FOST.12.16
DESIGNED BY: ARO
CHECKED BY: CDA
SURVEYED BY: WILSEY-HAM

APPROVED:

NORM DORAIS, PUBLIC WORKS DIRECTOR/CITY ENGINEER
CITY OF FOSTER CITY

DATE — 57220 R.C.E. # — 12/21/2019 EXPIRES

NO.	BY	DATE	REVISIONS

CITY OF FOSTER CITY
PUBLIC WORKS DEPARTMENT
610 FOSTER CITY BOULEVARD, FOSTER CITY, CA 94404
PHONE (650) 286-3270 FAX (650) 345-4626

REGISTERED PROFESSIONAL ENGINEER — FRANCIS D. INGRAM — No. 43776 — CIVIL — STATE OF CALIFORNIA — NOT FOR CONSTRUCTION

Schaaf & Wheeler
CONSULTING CIVIL ENGINEERS
1171 HOMESTEAD ROAD, STE 255
SANTA CLARA, CA 95050
(408) 246-4848

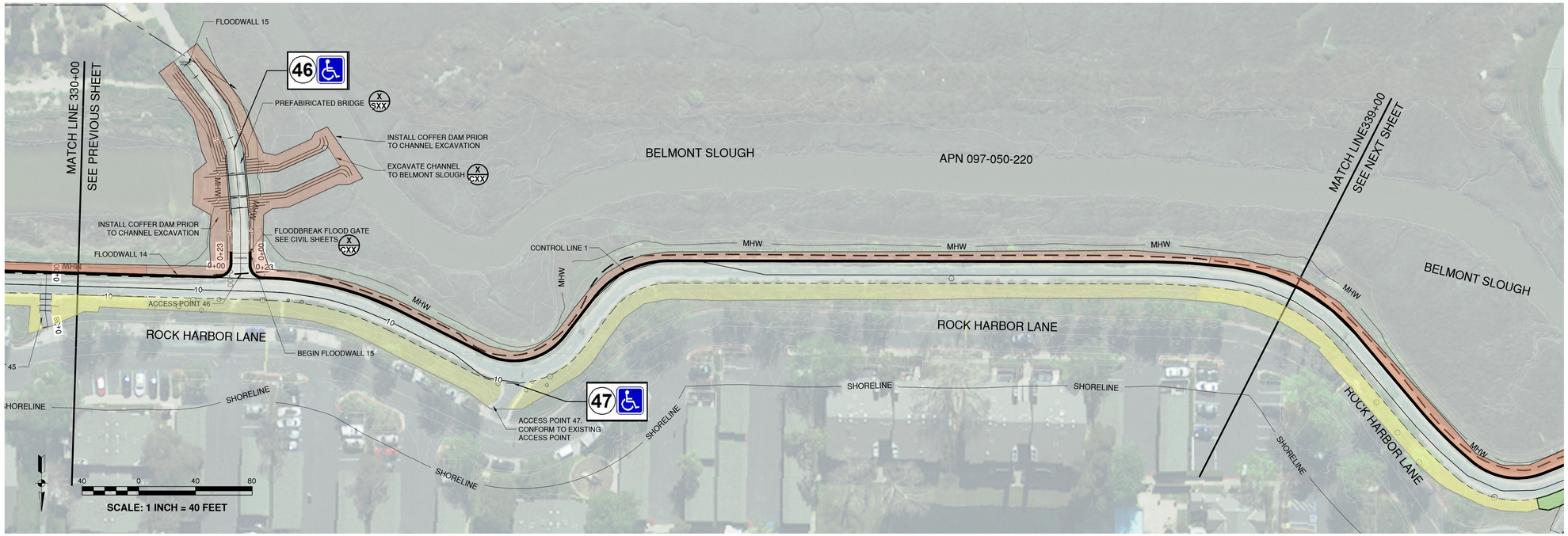
FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

SHEET PILE INSTALLATION AND GRADING

SHEET
SPG 34
SHEET 48 OF xxx
CIP PROJ. NUMBER
CIP 301-657

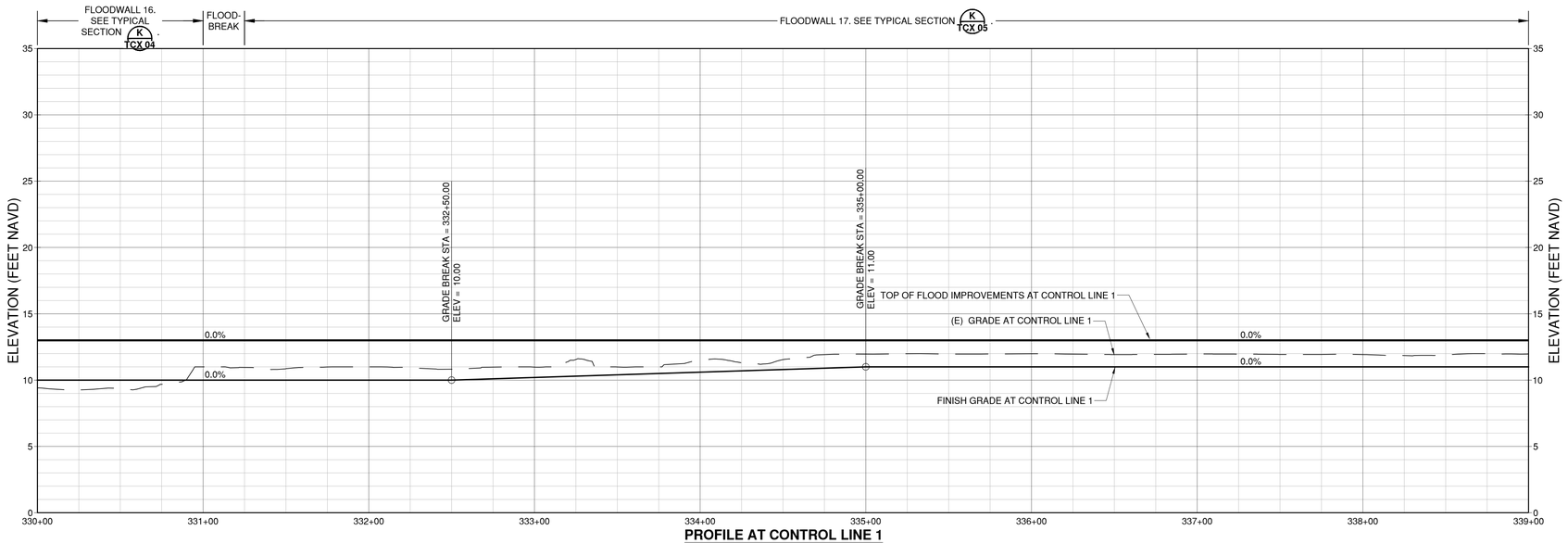
PLOT DATE: 1/31/2019 FILE PATH: J:\FOST\12-Levee_Final\Design\Drawings\CalOES-Application\SPG 33-36.dwg

XREFS: X-Title Block, X-Topo - Hwy 92 Bridge, X-FINAL AERIAL TOPO - 15-753-ALL, X-UTILITIES, 90% FINAL GRADING



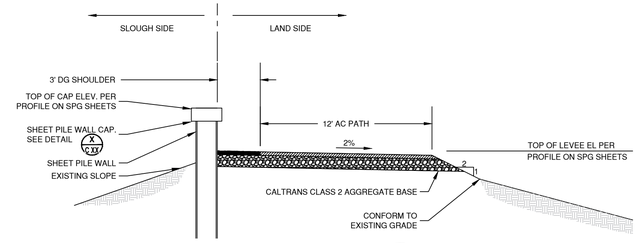
LEGEND

- ICE PLANT
- NATIVE PLANTING
- CONTAINER PLANTING
- OTHER PLANTING
- MHW — MEAN HIGH WATER LINE
- SHORELINE — BCDC SHORELINE BAND
- FLOODWALL



PROFILE AT CONTROL LINE 1

HORIZ.SCALE: 1" = 40'
VERT. SCALE: 1" = 5'



TYPICAL SECTION K

SCALE: 1 = 5'

FOR REVIEW – NOT FOR CONSTRUCTION

DATE: 1/25/2019
SCALE: AS SHOWN
DRAWN BY: ARO
PROJECT NUMBER: FOST.12.16
DESIGNED BY: ARO
CHECKED BY: CDA
SURVEYED BY: WILSEY-HAM

APPROVED:

NORM DORAIS, PUBLIC WORKS DIRECTOR/CITY ENGINEER
CITY OF FOSTER CITY

DATE — 57220 R.C.E. # — 12/21/2019 EXPIRES

NO.	BY	DATE	REVISIONS

CITY OF FOSTER CITY
PUBLIC WORKS DEPARTMENT
610 FOSTER CITY BOULEVARD, FOSTER CITY, CA 94404
PHONE (650) 286-3270 FAX (650) 345-4626

REGISTERED PROFESSIONAL ENGINEER — DENNIS D. MORGAN — NO. 43776 — CIVIL — STATE OF CALIFORNIA — PRELIMINARY NOT FOR CONSTRUCTION

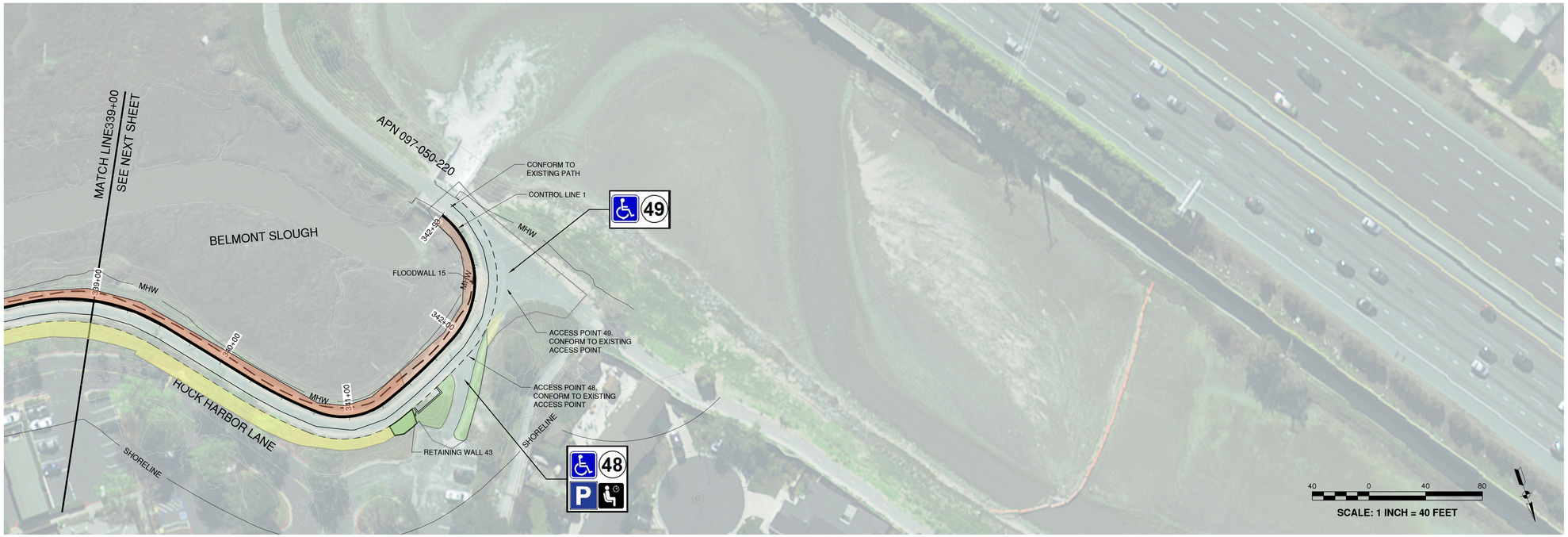
Schaaf & Wheeler
CONSULTING CIVIL ENGINEERS
1171 HOMESTEAD ROAD, STE 255
SANTA CLARA, CA 95050
(408) 246-4848

FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657
SHEET PILE INSTALLATION AND GRADING

SHEET SPG 35
SHEET 49 OF xxx
CIP PROJ. NUMBER CIP 301-657

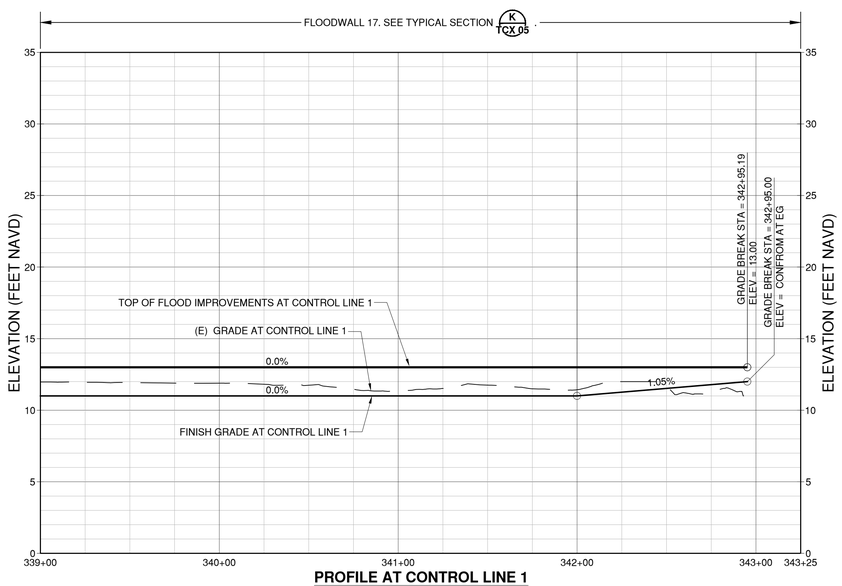
PLOT DATE: 1/31/2019 FILE PATH: J:\FOST\12-Levee_Final\Design\Drawings\CalOES Application\SPG 33-36.dwg

XREFS: X-Title Block, X-Topo - Hwy 92 Bridge, X-FINAL AERIAL TOPO - 15-753-ALL, X-UTILITIES, 90% FINAL GRADING



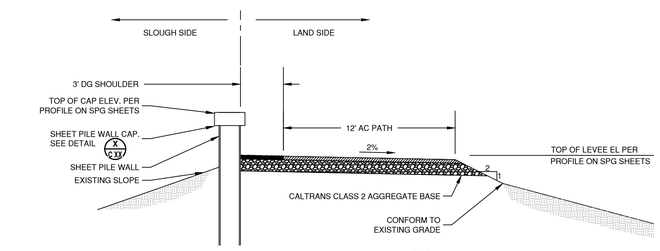
LEGEND

- ICE PLANT
- NATIVE PLANTING
- CONTAINER PLANTING
- OTHER PLANTING
- —MHW— MEAN HIGH WATER LINE
- —SHORELINE— BCDC SHORELINE BAND
- FLOODWALL



PROFILE AT CONTROL LINE 1

HORIZ.SCALE: 1" = 40'
VERT. SCALE: 1" = 5'



TYPICAL SECTION K

SCALE: 1 = 5'

FOR REVIEW – NOT FOR CONSTRUCTION

DATE: 1/25/2019
SCALE: AS SHOWN
DRAWN BY: ARO
PROJECT NUMBER: FOST.12.16
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APPROVED:

NORM DORAIS, PUBLIC WORKS DIRECTOR/CITY ENGINEER
CITY OF FOSTER CITY

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CITY OF FOSTER CITY
PUBLIC WORKS DEPARTMENT
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FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

SHEET PILE INSTALLATION AND GRADING

SHEET
SPG 36
SHEET 50 OF xxx
CIP PROJ. NUMBER
CIP 301-657

PLOT DATE: 1/31/2019 FILE PATH: J:\FOST\12 Levee_Final\Design\Drawings\CalOES Application\SPG 33-36.dwg

XREFS: X-Title Block, X-Topo - Hwy 92 Bridge, X-FINAL AERIAL TOPO - 15-753-ALL, X-UTILITIES, 90% FINAL GRADING