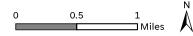


Sources: National Geographic, WRA | Prepared By: njander, 6/21/2024

# Figure 1. Project Area Vicinity

**Restore Hayward Marsh** Hayward Regional Shoreline, Alameda County, California







# Figure 2. Project Area Features

Restore Hayward Marsh Hayward Regional Shoreline, Alameda County, California





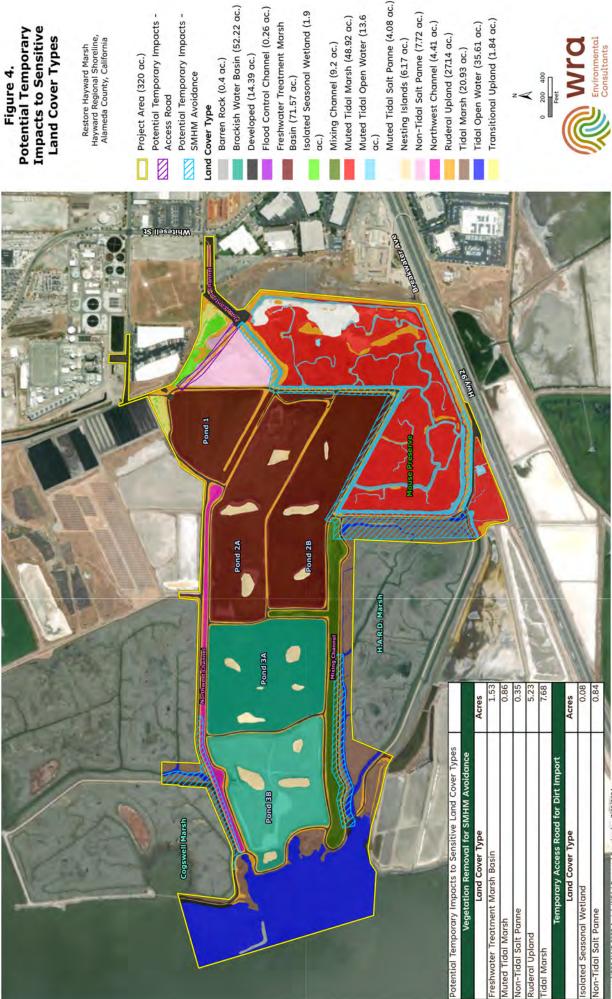


Sources: NRCS NAIP 2022 Aerial, WRA | Prepared By: njander, 6/23/2024



Restore Hayward Marsh Hayward Regional Shoreline, Alameda County, California

Flood Control Channel (0.26 ac.) Freshwater Treatment Marsh Basin (71.57 ac.) Isolated Seasonal Wetland (1.9 ac.) Muted Tidal Open Water (13.6 ac.) Muted Tidal Salt Panne (4.08 ac.) Muted Tidal Marsh (48.92 ac.) Non-Tidal Salt Panne (7.72 ac.) Northwest Channel (4.41 ac.)



ces: NRCS NAIP 2022 Aerial, WRA | Prepared By: njander, 7/30/2024



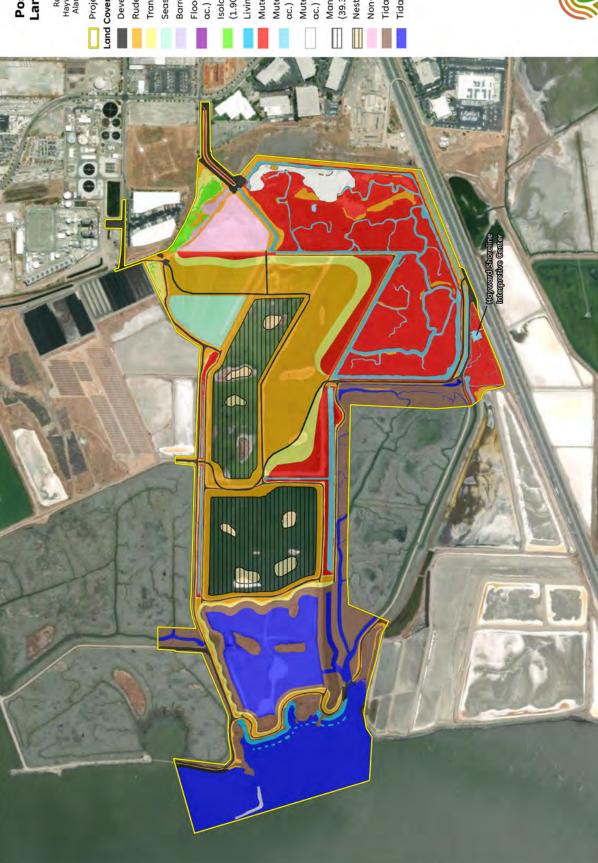


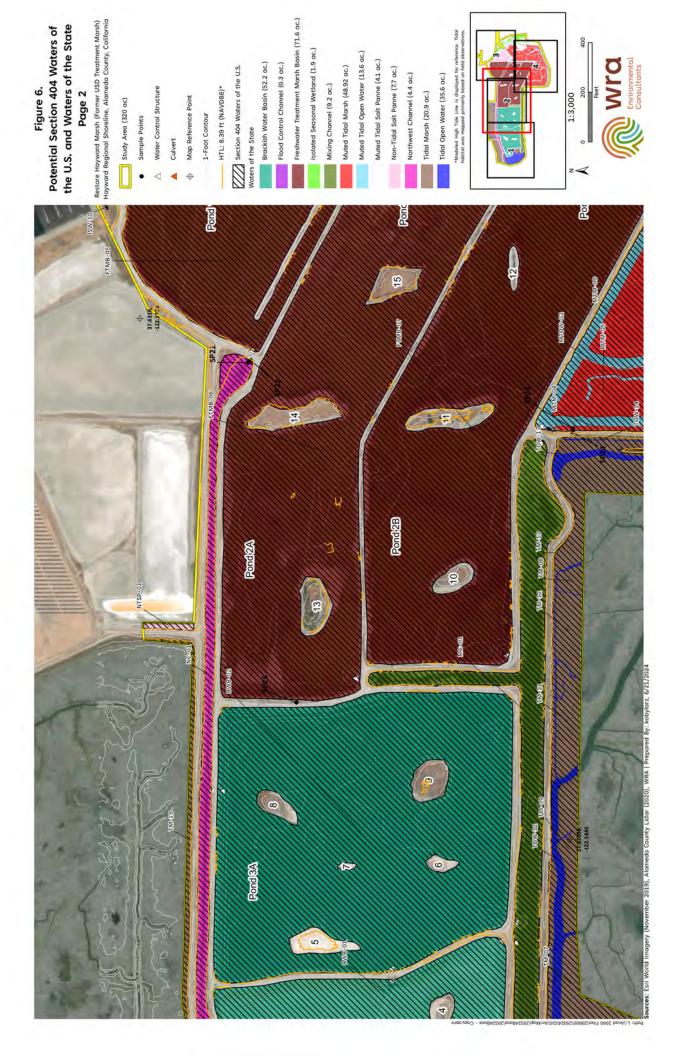
Figure 5. Post-Restoration Land Cover Types

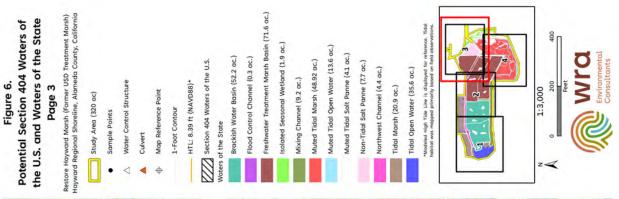
Muted Tidal Open Water (1719 Transitional Upland (15.86 ac.) Muted Tidal Marsh (61.39 ac.) Muted Tidal Salt Panne (4.08 Managed Tern Nesting Pond Flood Control Channel (0.26 Ruderal Upland (59.97 ac.) Isolated Seasonal Wetland Living Shoreline (1.56 ac.) Restore Hayward Marsh Hayward Regional Shoreline, Alameda County, California Seasonal Pond (6.20 ac.) Barren Rock (0.40 ac.) Developed (14.56 ac.) Project Area (320 ac.) and Cover Type (39.32 ac.) (1.90 ac.) ac.) ac.) ac.)

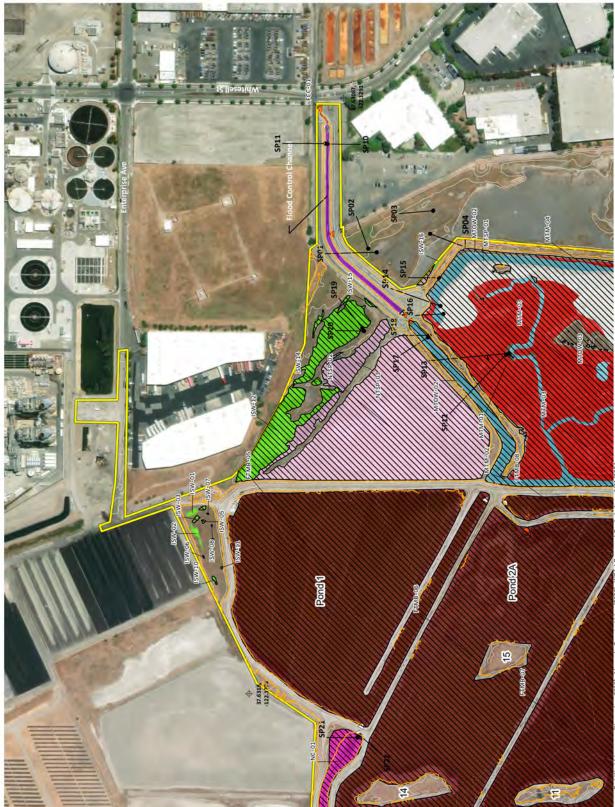
Managed Tern Nesting Pond (39.32 ac.) Nesting Island (3.66 ac.) Non-Tidal Salt Panne (7.59 ac.) Tidal Marsh (31.81 ac.) Tidal Open Water (54.25 ac.)



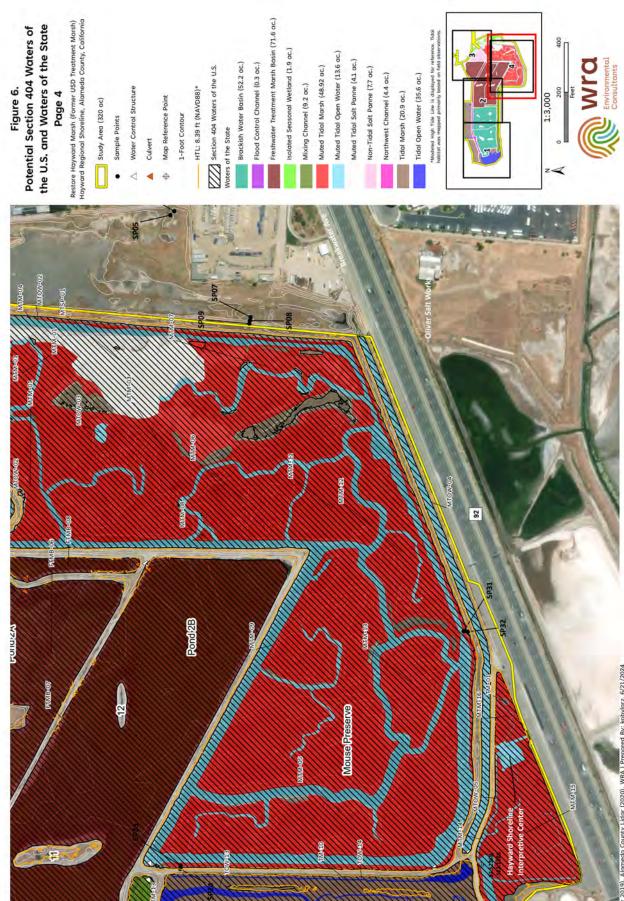








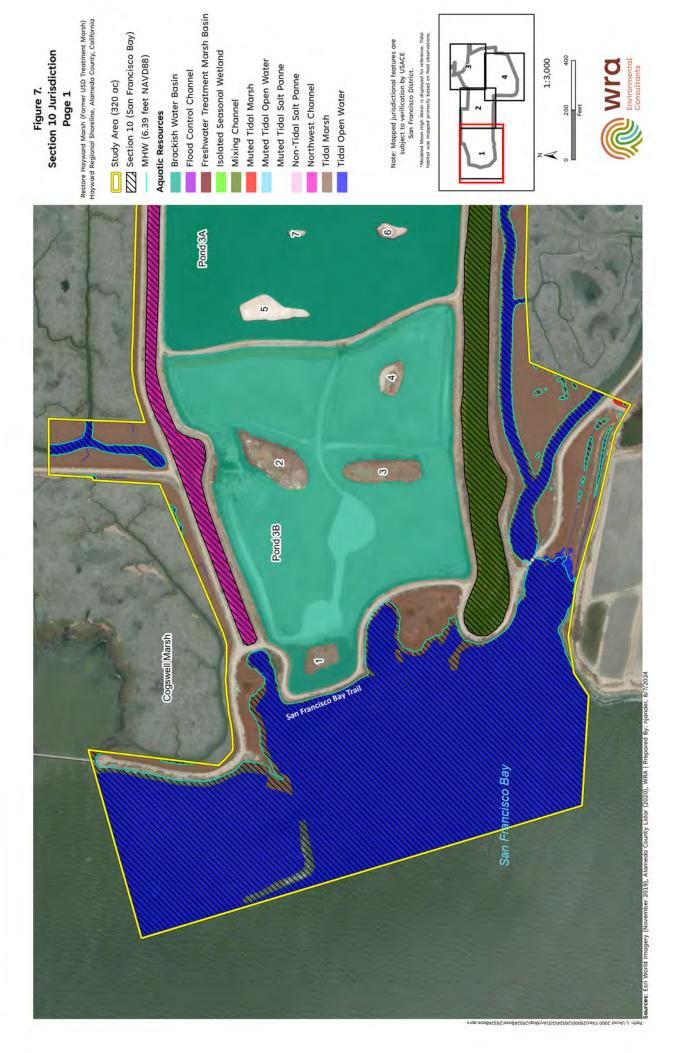
Esri World Imagery (November 2019), Alameda County Lidar (2020), WRA | Prepared By: kobylarz, 6/21/20

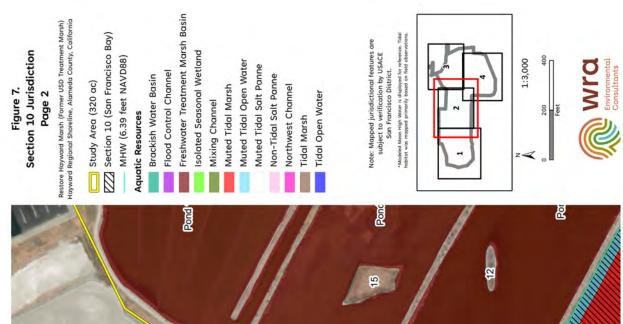


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Sources: Esri World Imagery (November 2019), Alameda County Lidar (2020), WRA | Prepared By: kobylarz, 6/21/2024

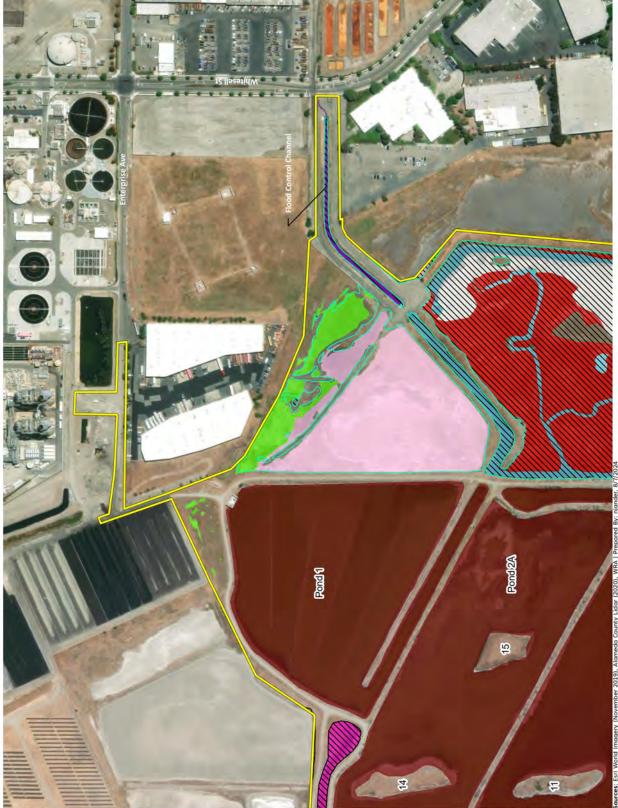




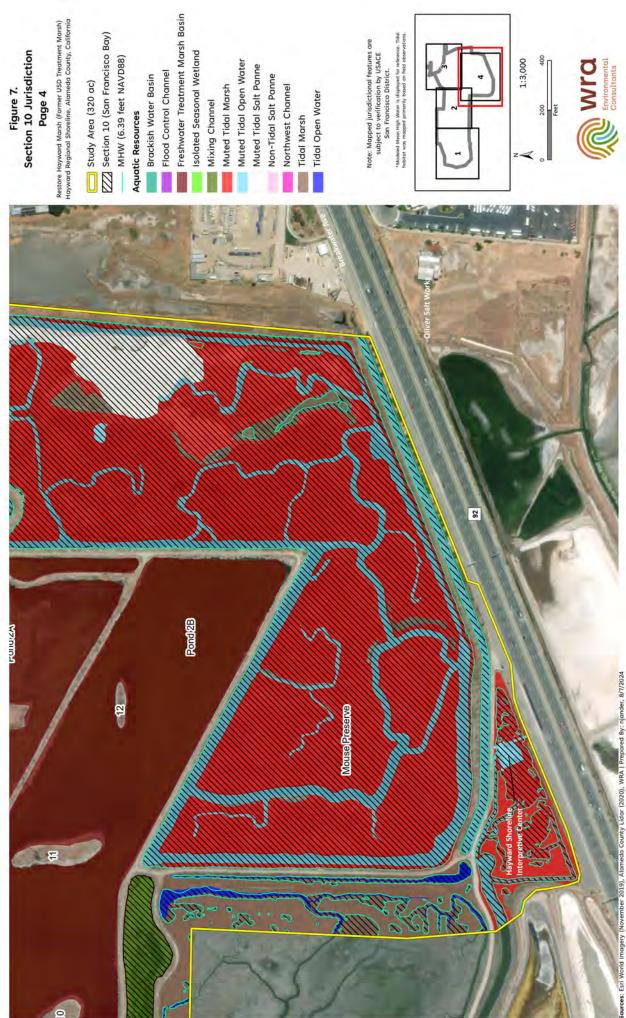


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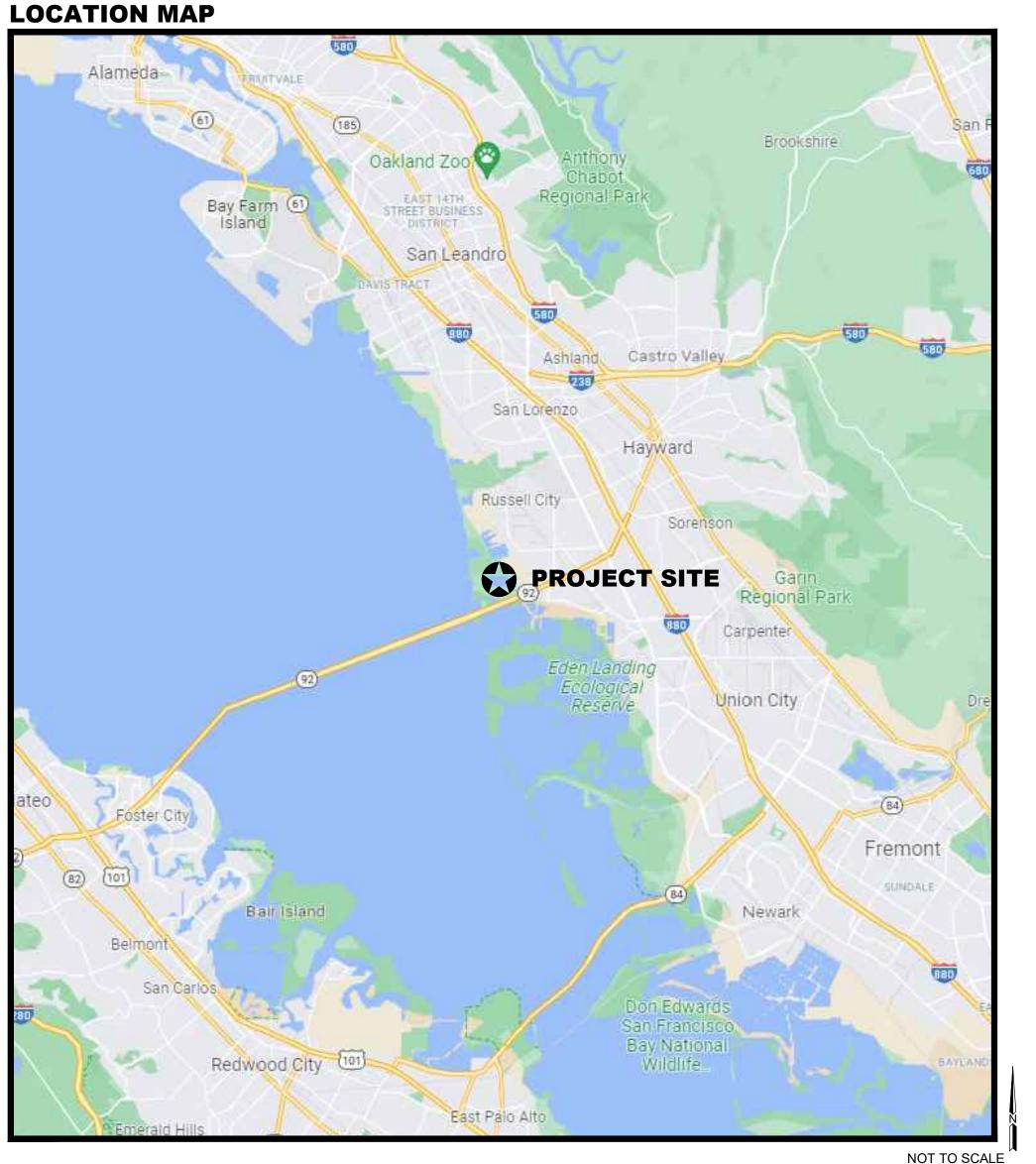




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# **RESTORE HAYWARD MARSH** (FORMER USD TREATEMENT MARSH) HAYWARD, CA **65% DESIGN PLANS**



# SURVEY DATUM

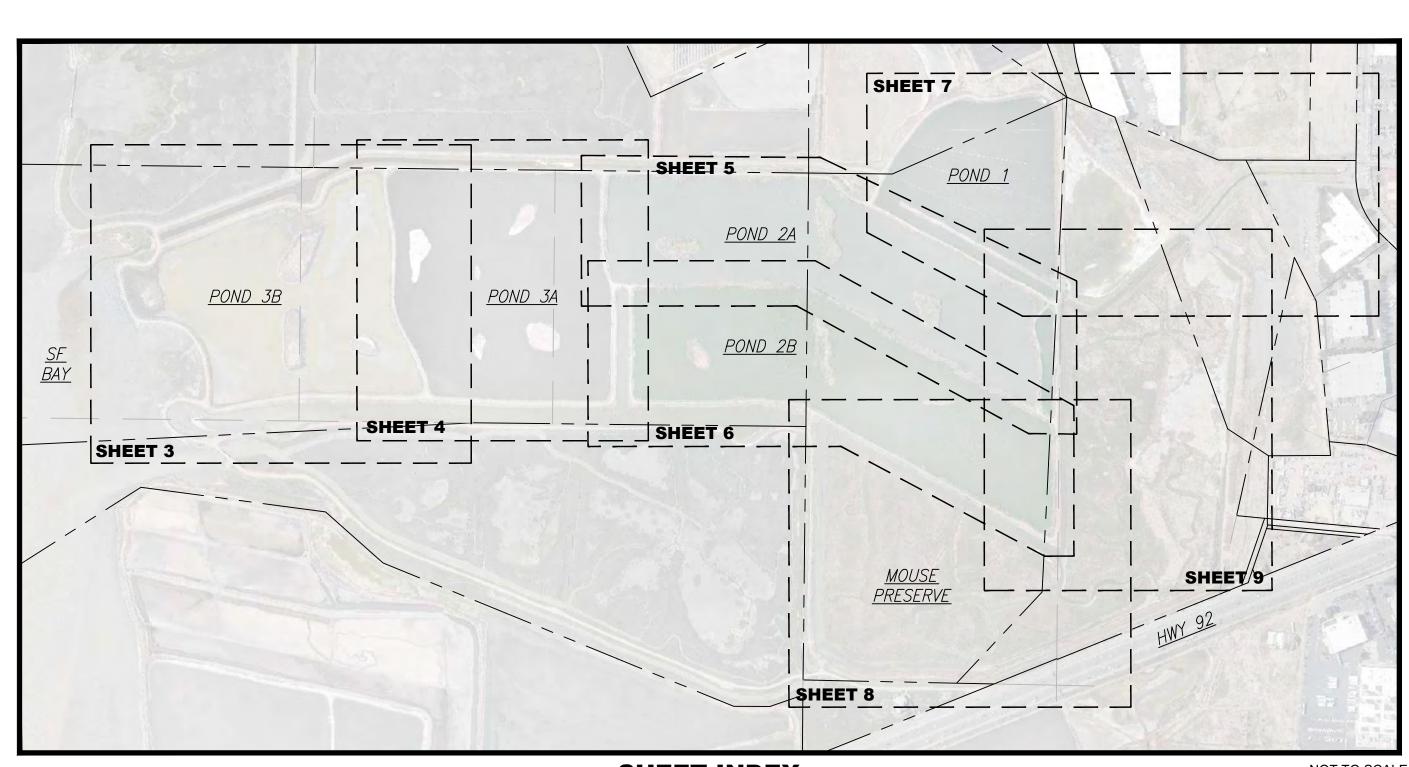
Topographic survey was provided by Bay Area Land Surveying on 10/25/2023. Preliminary Boundary survey provided by Bay Area Land Surveying on 10/30/2023.

Horizontal Datum: NAD83, USA, California Zone 3, US Survey Feet Vertical Datum: NAVD88, Feet

# MAP DATA

Contour Interval: 1 Foot

Aerial Photo: Bing Maps

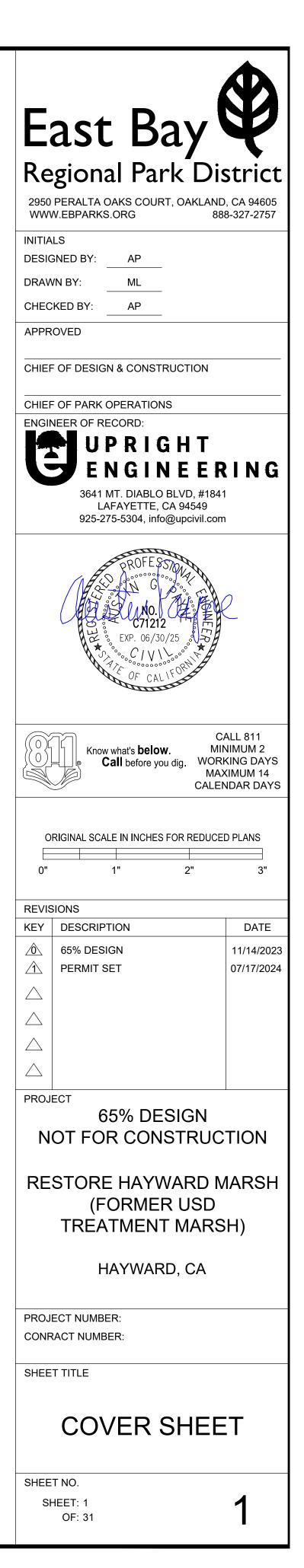


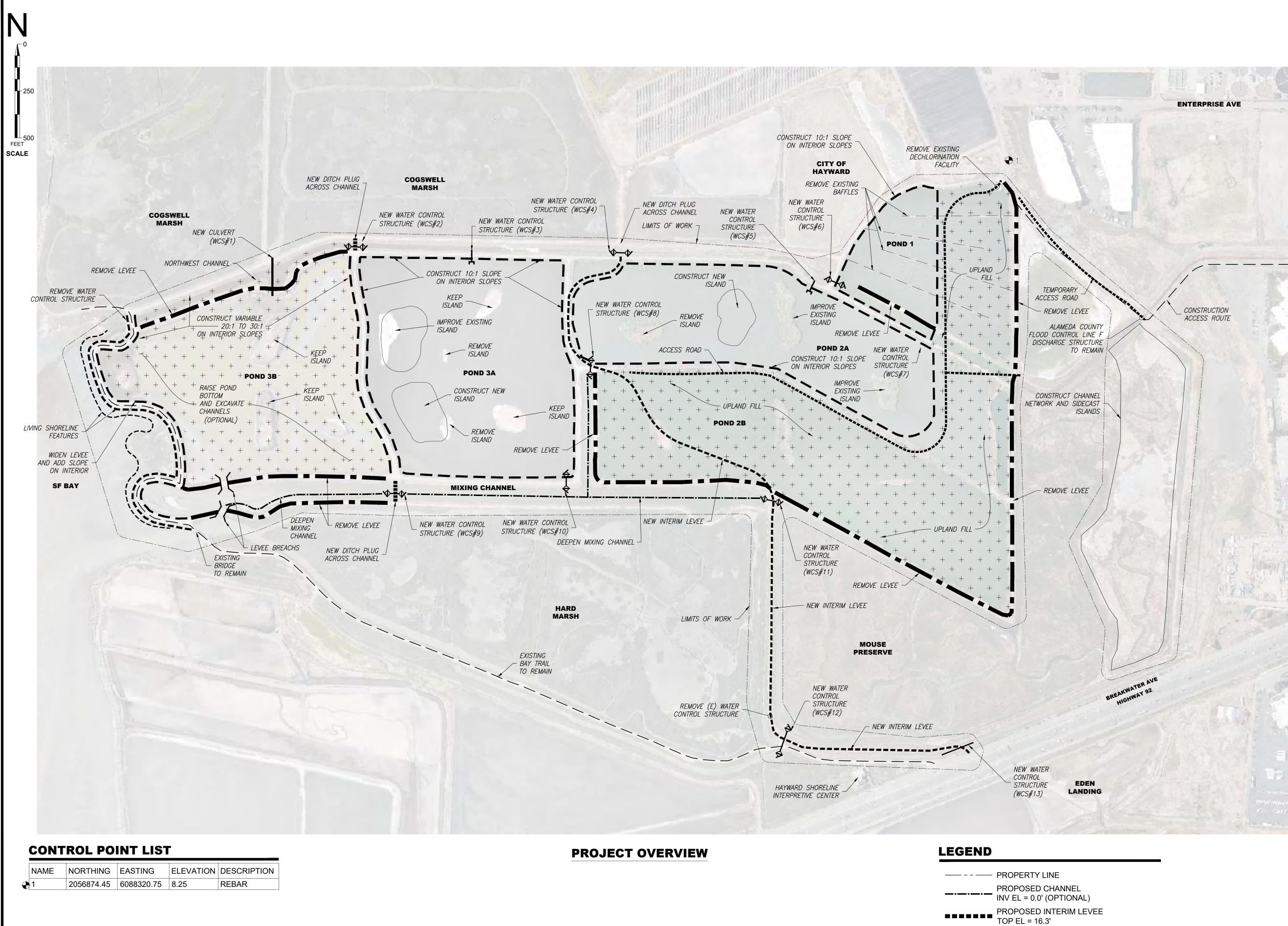
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# **SHEET INDEX**

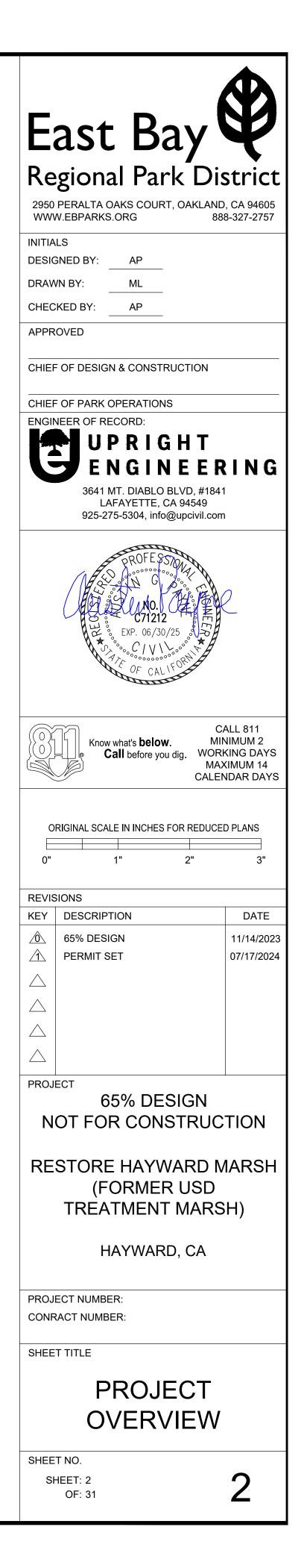
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1	1 OF 31 COVER SHEET	17	19 OF 31	WATER CONTROL STRUCTURES
2	2 OF 31 PROJECT OVERVIEW	L1.1	20 OF 31	PLANTING PLAN - KEY MAP
2.1	3 OF 31 CONSTRUCT ACCESS AND STAGING PLAN	L1.2	21 OF 31	POND_3B - PLANTING PLAN
2.2	4 OF 31 SITE PREPARATION PLAN	L1.3	22 OF 31	POND_3A - PLANTING PLAN
3	5 OF 31 POND 3B GRADING PLAN	L1.4	23 OF 31	POND_2A - PLANTING PLAN
4	6 OF 31 POND 3A GRADING PLAN	L1.5	24 OF 31	POND_2B - PLANTING PLAN
5	7 OF 31 POND 2A GRADING PLAN	L1.6	25 OF 31	POND_1 - PLANTING PLAN
6	8 OF 31 POND 2B GRADING PLAN	L1.7	26 OF 31	MOUSE_PRESERVE - PLANTING PLAN
7	9 OF 31 POND 1 GRADING PLAN	L1.8	27 OF 31	PLANTING PALETTES AND_NOTES
8	10 OF 31 MOUSE PRESERVE GRADING PLAN	L1.9	28 OF 31	PLANTING DETAILS
9	11 OF 31 MOUSE PRESERVE GRADING PLAN	L2.0	29 OF 31	IRRIGATION OVERVIEW_PLAN
10	12 OF 31 SECTIONS AND DETAILS	L3.0	30 OF 31	PUBLIC ACCESS PLAN
11	13 OF 31 SECTIONS AND DETAILS	L3.1	31 OF 31	FENCE AND_GATE DETAILS
12	14 OF 31 SECTIONS AND DETAILS			
C101	15 OF 31 MARSH BENCH - PLAN			
C102	16 OF 31 SECTIONS			
C601	17 OF 31 CIVIL DETAILS			
16	18 OF 31 WATER CONTROL STRUCTURES			

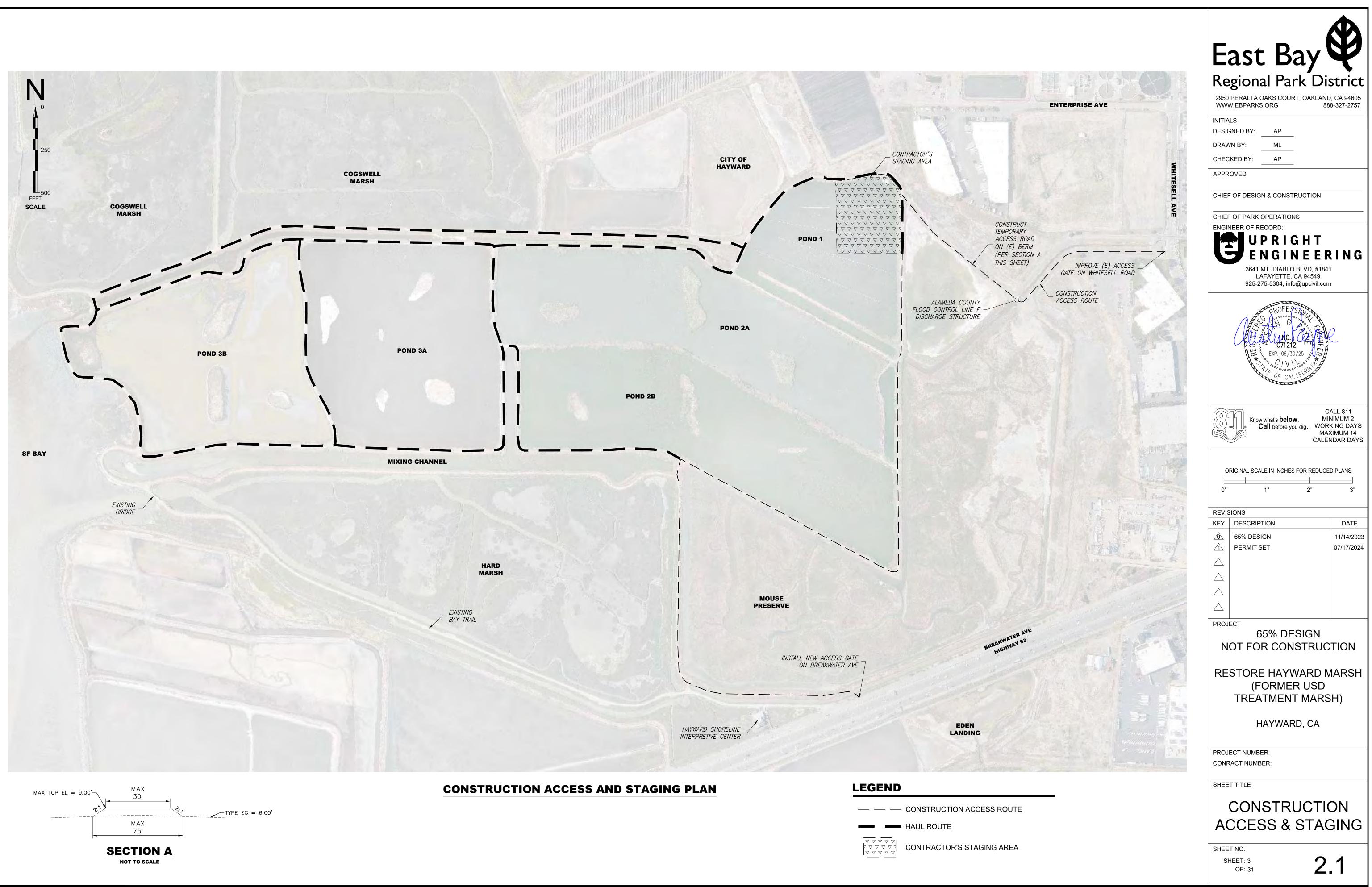
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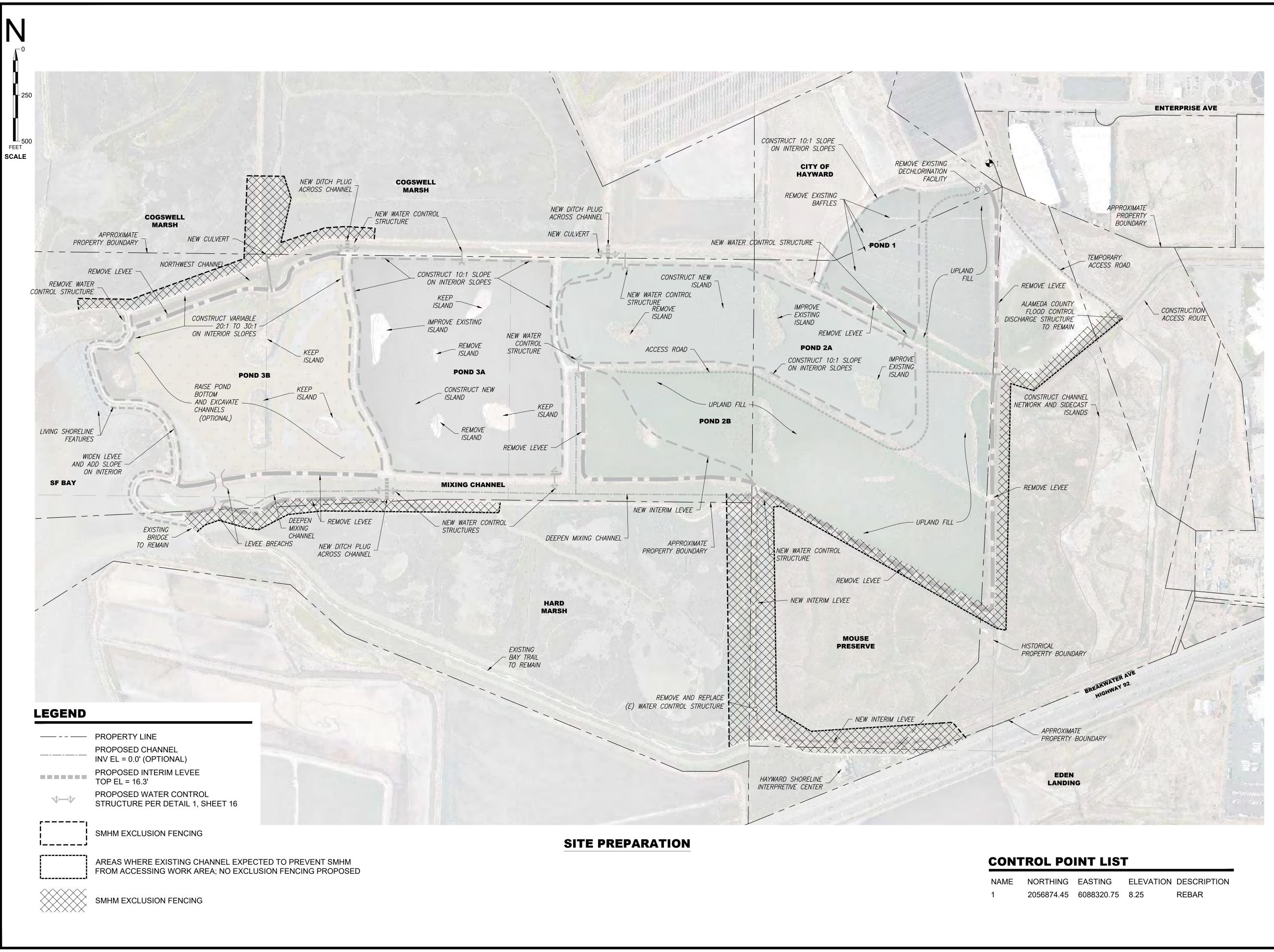




# PROPOSED WATER CONTROL \$---\$ STRUCTURE PER DETAIL 1, SHEET 16







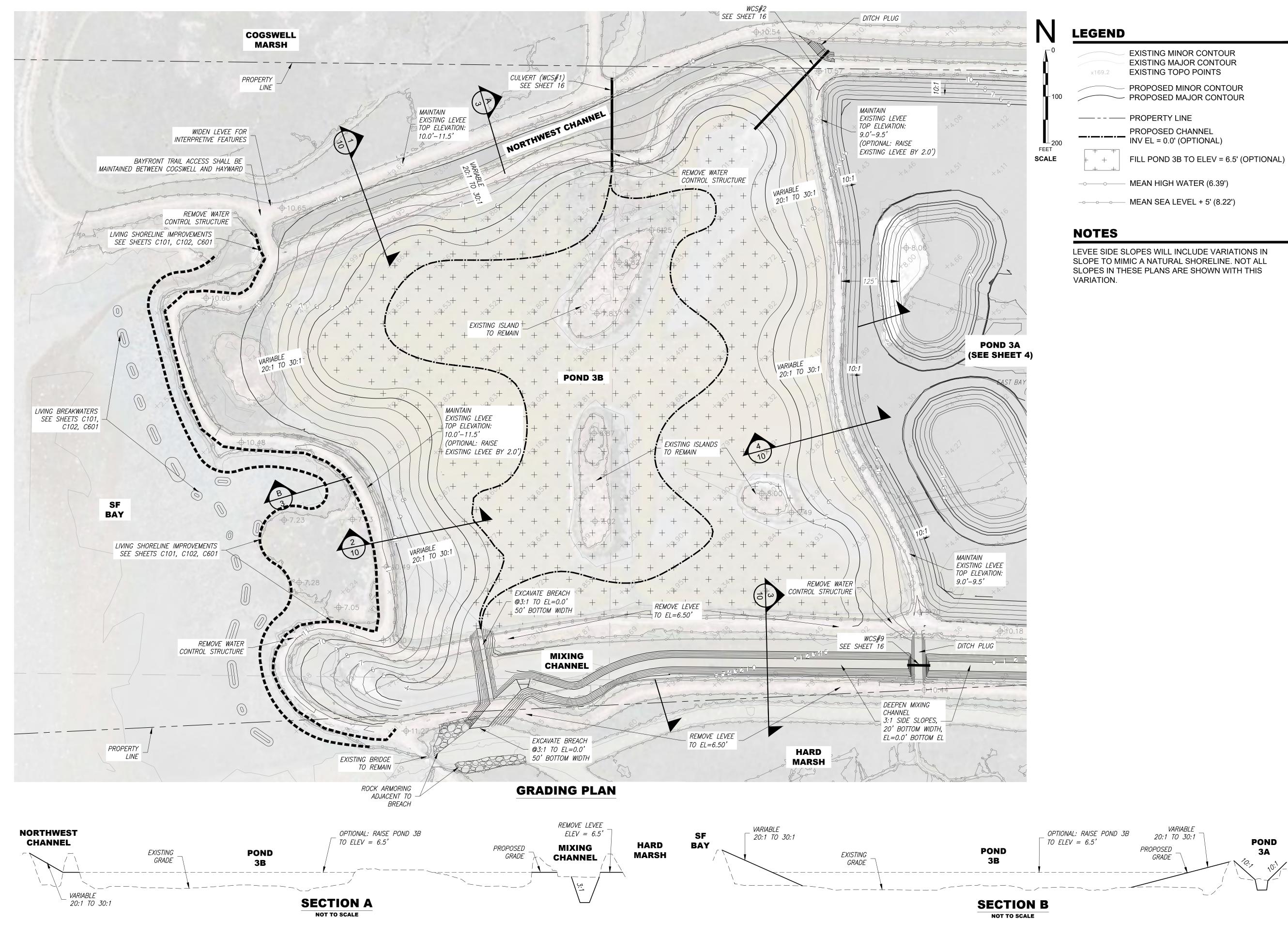
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# East Bay Y Regional Park District 2950 PERALTA OAKS COURT, OAKLAND, CA 94605 WWW.EBPARKS.ORG 888-327-2757 INITIALS DESIGNED BY: AP DRAWN BY: ML CHECKED BY: AP APPROVED CHIEF OF DESIGN & CONSTRUCTION CHIEF OF PARK OPERATIONS ENGINEER OF RECORD: UPRIGHT ENGINEERING 3641 MT. DIABLO BLVD, #1841 LAFAYETTE, CA 94549 925-275-5304, info@upcivil.com THE CALL 811 MINIMUM 2 Know what's **below**. WORKING DAYS Call before you dig. MAXIMUM 14 CALENDAR DAYS ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0" 2" REVISIONS KEY DESCRIPTION DATE Ô 65% DESIGN 11/14/2023 $\triangle$ PERMIT SET 07/17/2024 $\bigtriangleup$ $\bigtriangleup$ $\bigtriangleup$ $\bigtriangleup$ PROJECT 65% DESIGN NOT FOR CONSTRUCTION **RESTORE HAYWARD MARSH** (FORMER USD TREATMENT MARSH) HAYWARD, CA PROJECT NUMBER: CONRACT NUMBER SHEET TITLE SITE PREPARATION

SHEET NO. SHEET: 4

OF: 31



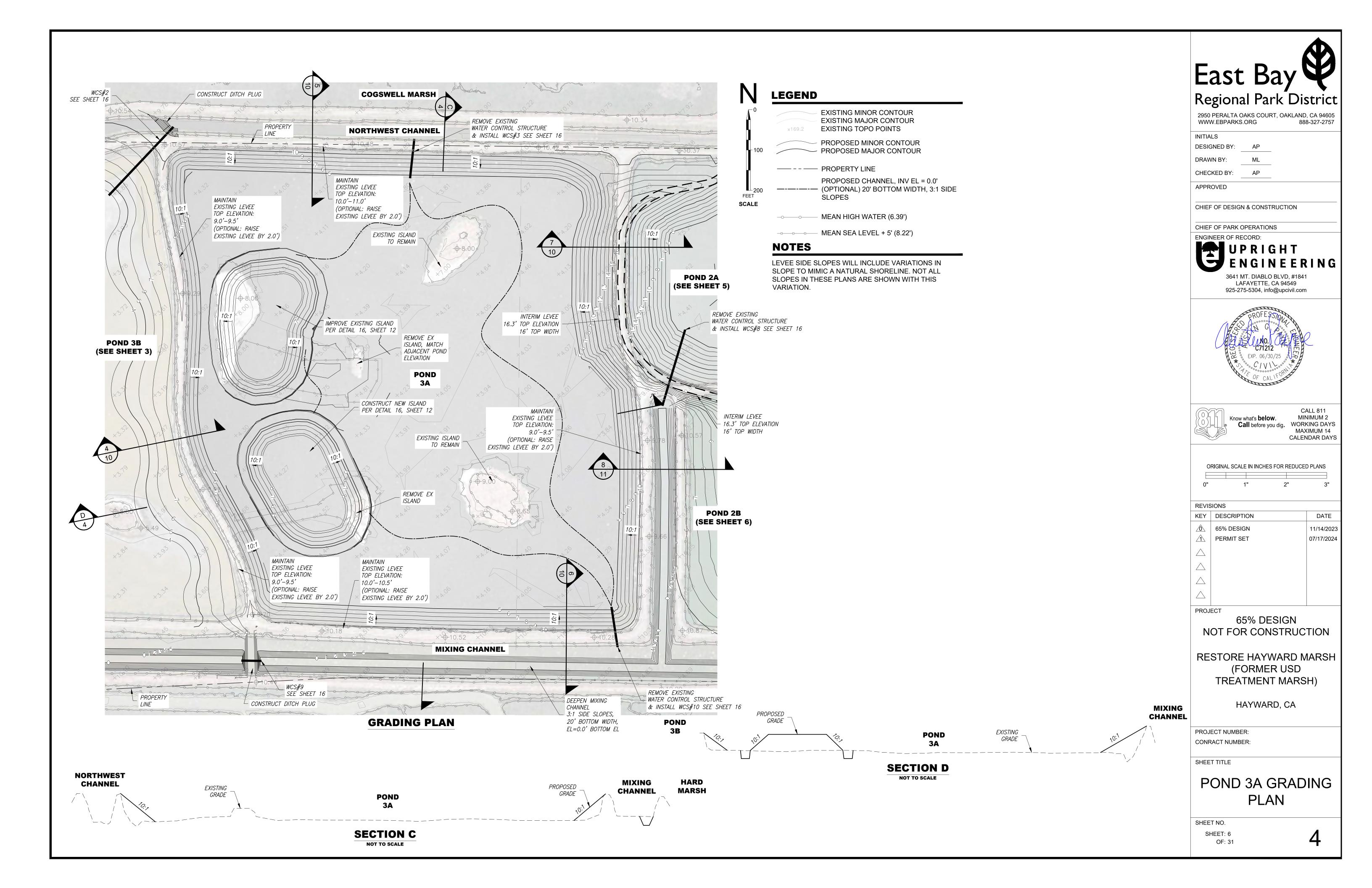


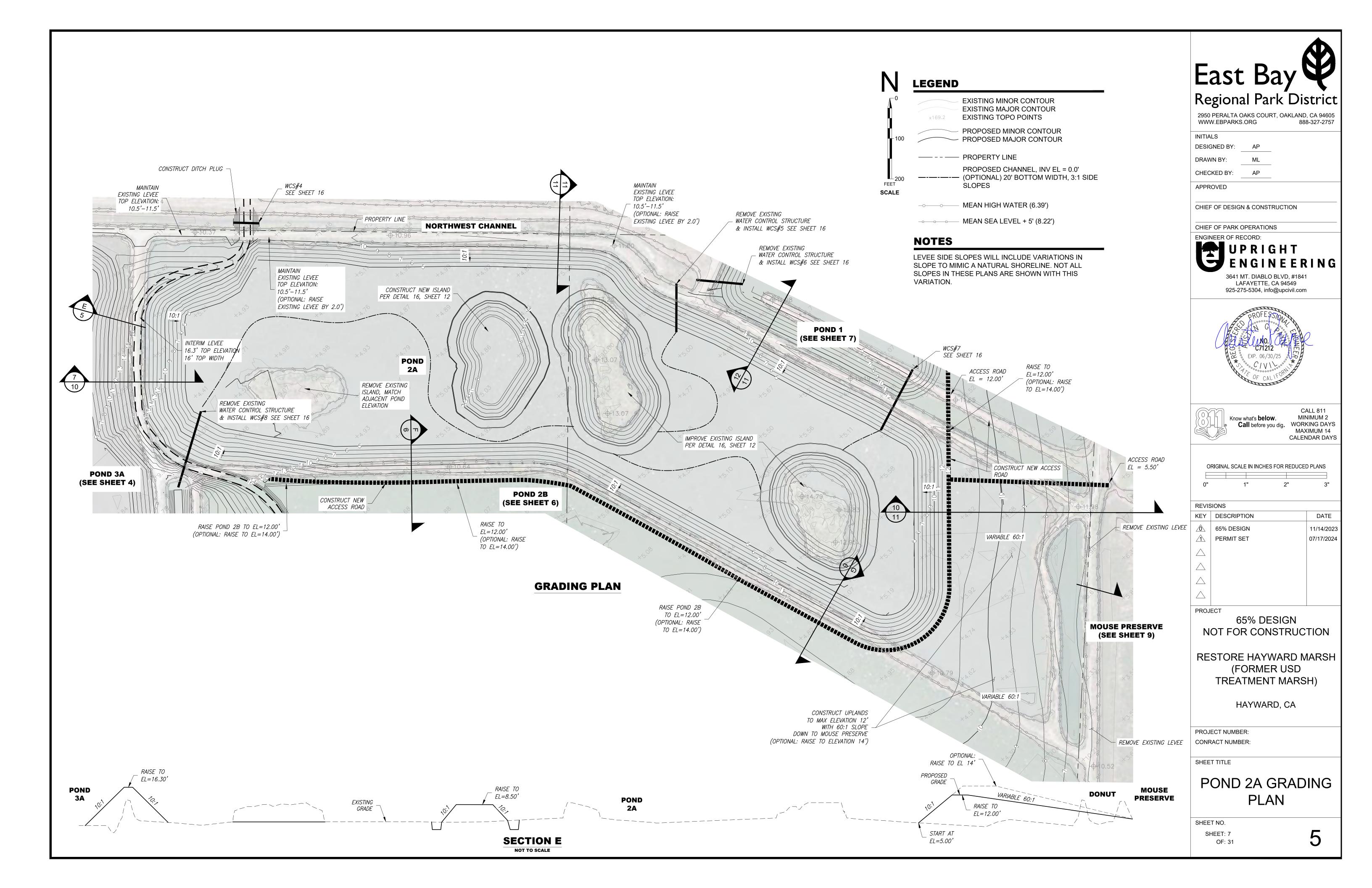
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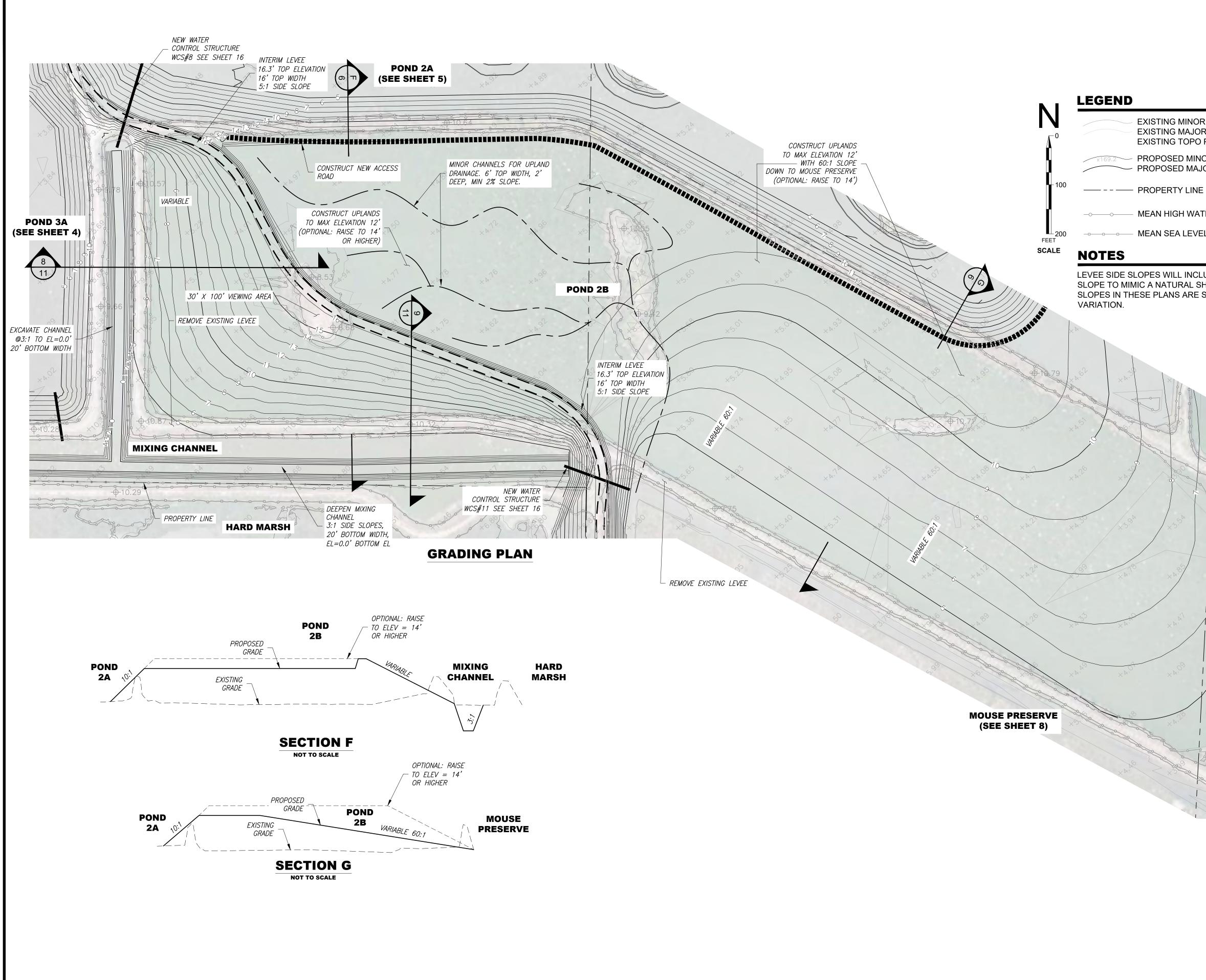


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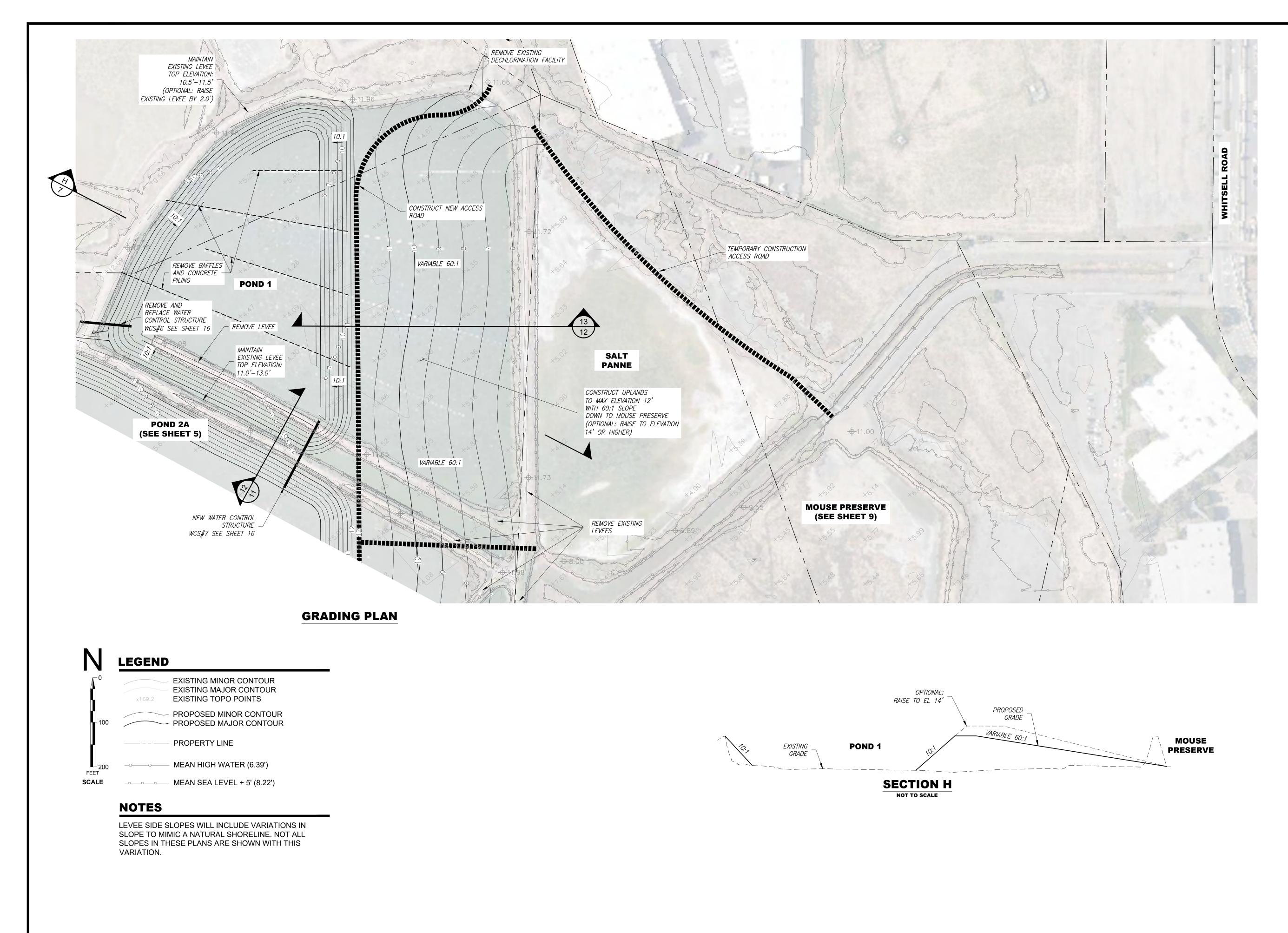
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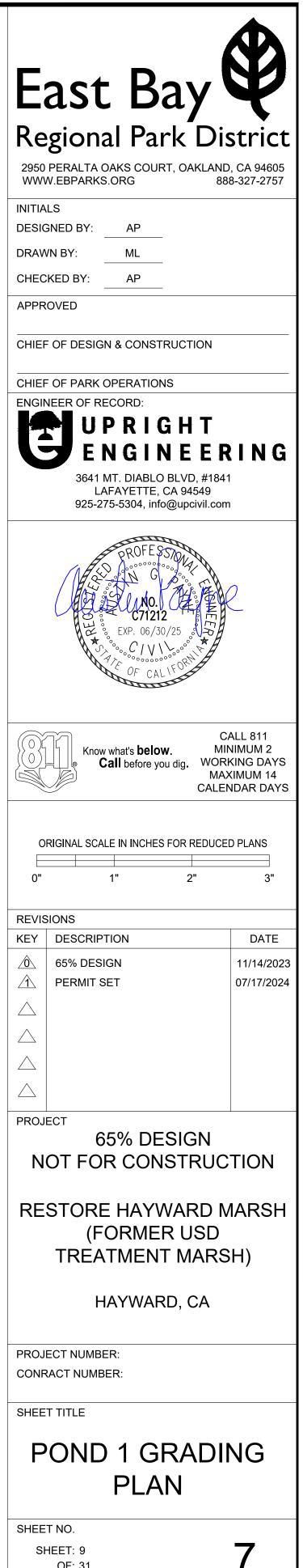


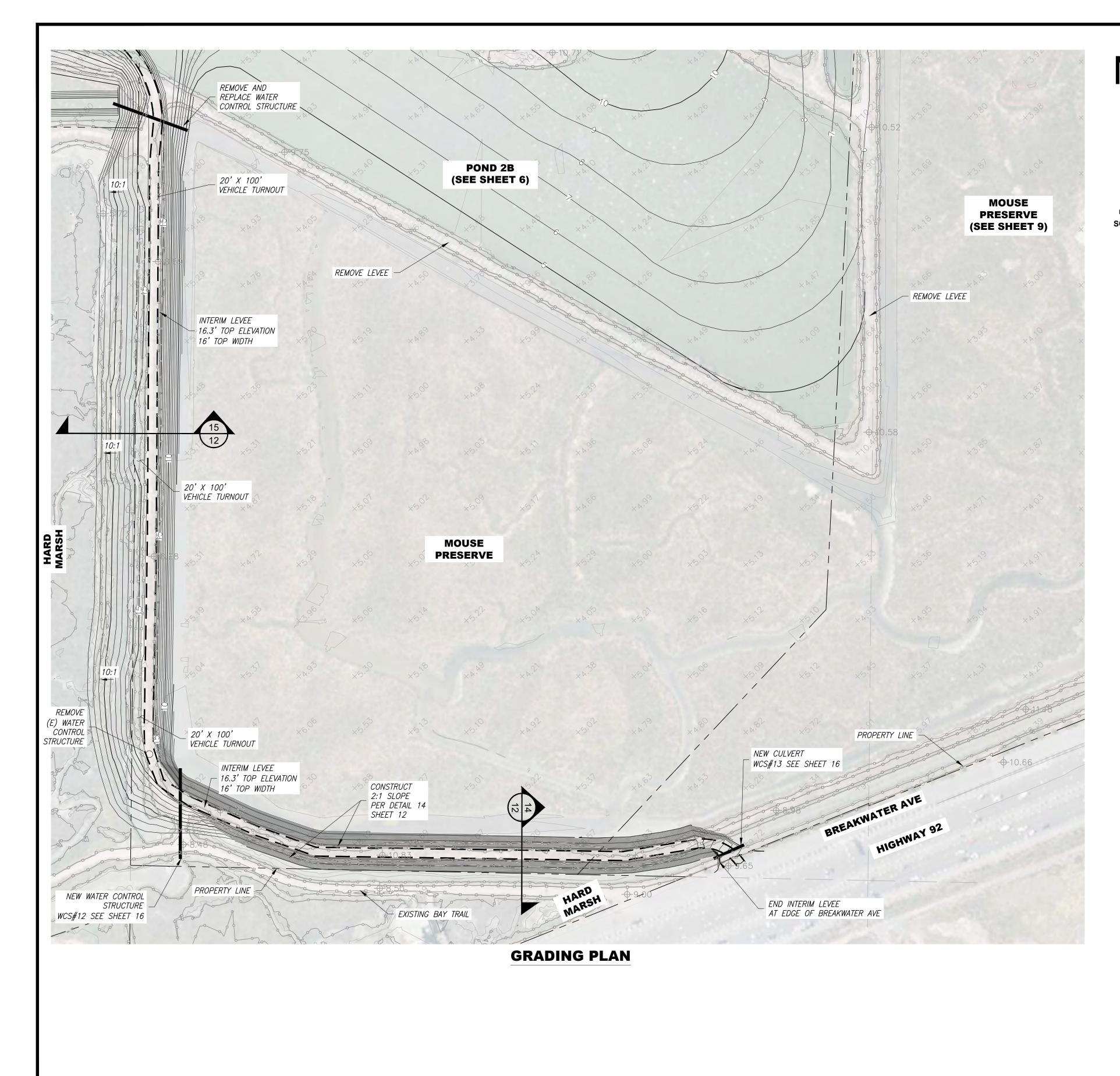




East Bay W Regional Park District 2950 PERALTA OAKS COURT, OAKLAND, CA 94605 WWW.EBPARKS.ORG 888-327-2757 INITIALS **EXISTING MINOR CONTOUR EXISTING MAJOR CONTOUR** DESIGNED BY: AP EXISTING TOPO POINTS DRAWN BY: ML PROPOSED MINOR CONTOUR CHECKED BY: AP PROPOSED MAJOR CONTOUR APPROVED CHIEF OF DESIGN & CONSTRUCTION MEAN HIGH WATER (6.39') CHIEF OF PARK OPERATIONS MEAN SEA LEVEL + 5' (8.22') ENGINEER OF RECORD: F ENGINEERING LEVEE SIDE SLOPES WILL INCLUDE VARIATIONS IN SLOPE TO MIMIC A NATURAL SHORELINE. NOT ALL 3641 MT. DIABLO BLVD, #1841 SLOPES IN THESE PLANS ARE SHOWN WITH THIS LAFAYETTE, CA 94549 925-275-5304, info@upcivil.com CALL 811 MINIMUM 2 Know what's **below**. WORKING DAYS Call before you dig. MAXIMUM 14 REMOVE EXISTING LEVEE CALENDAR DAYS ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 2" 3" 0" 1" REVISIONS KEY DESCRIPTION DATE Ô 65% DESIGN 11/14/2023 PERMIT SET 07/17/2024 1**MOUSE PRESERVE**  $\bigtriangleup$ (SEE SHEET 9)  $\bigtriangleup$  $\bigtriangleup$  $\bigtriangleup$ PROJECT 65% DESIGN NOT FOR CONSTRUCTION **RESTORE HAYWARD MARSH** (FORMER USD REMOVE EXISTING LEVEE TREATMENT MARSH) HAYWARD, CA PROJECT NUMBER: CONRACT NUMBER SHEET TITLE POND 2B GRADING PLAN SHEET NO. 6 SHEET: 8 OF: 31



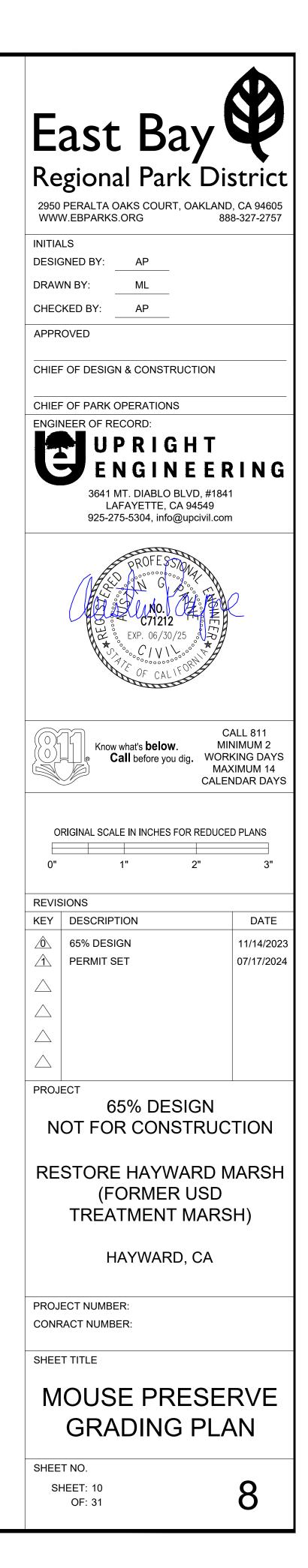




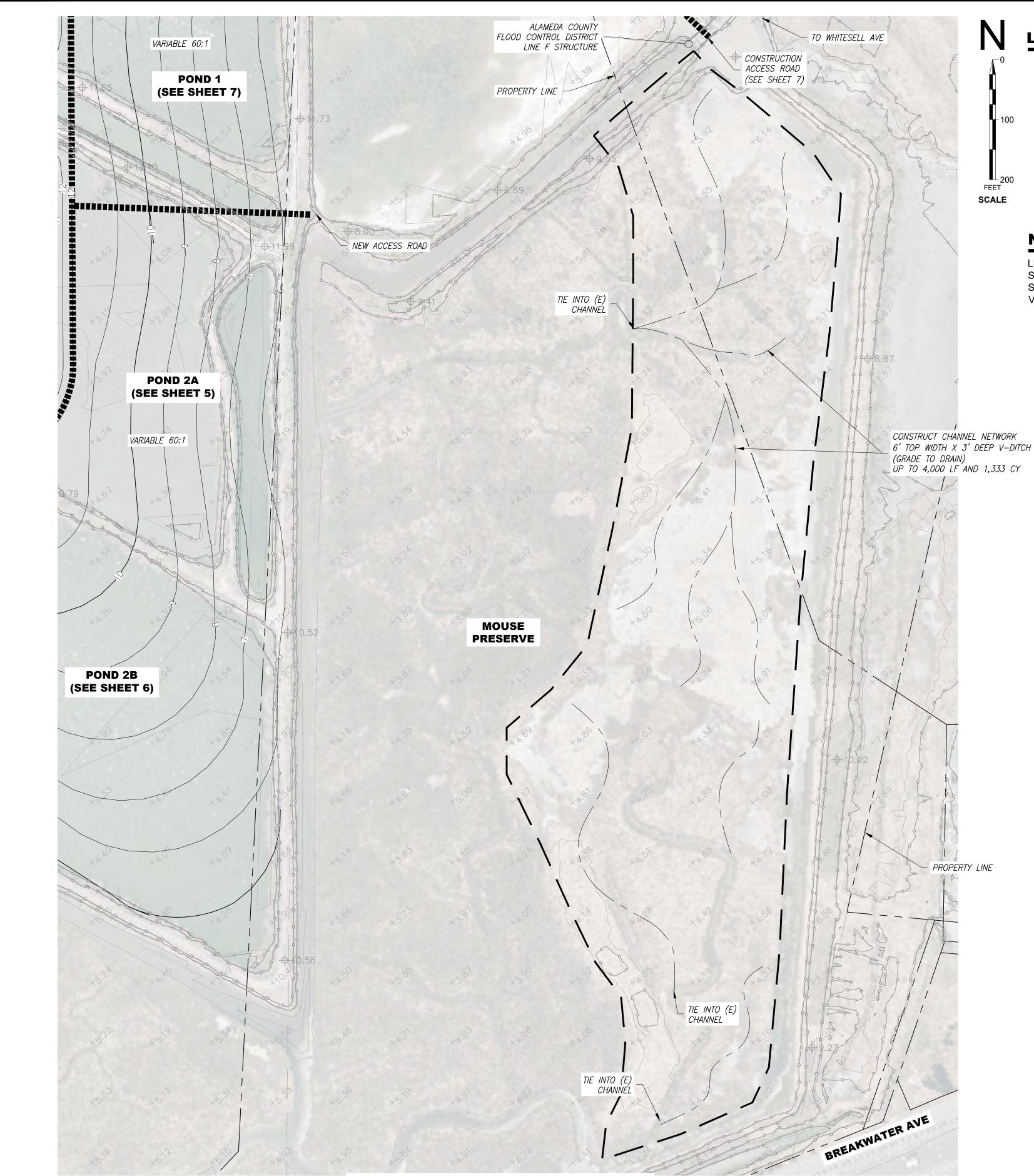
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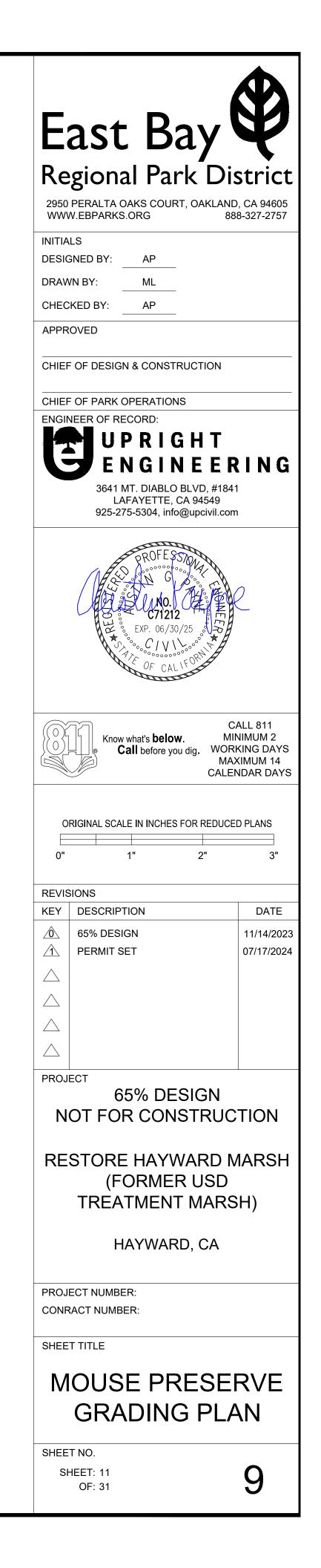
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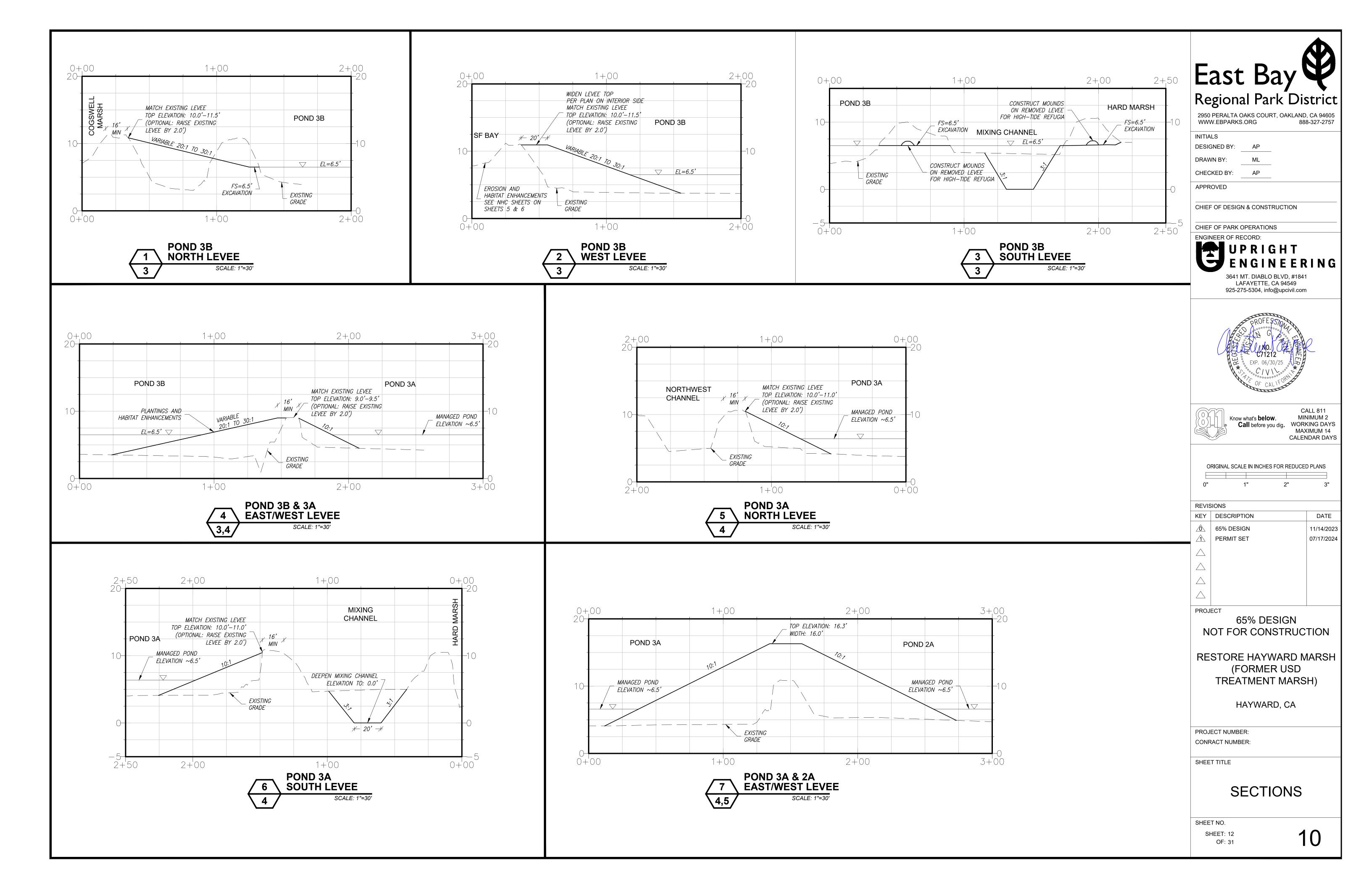


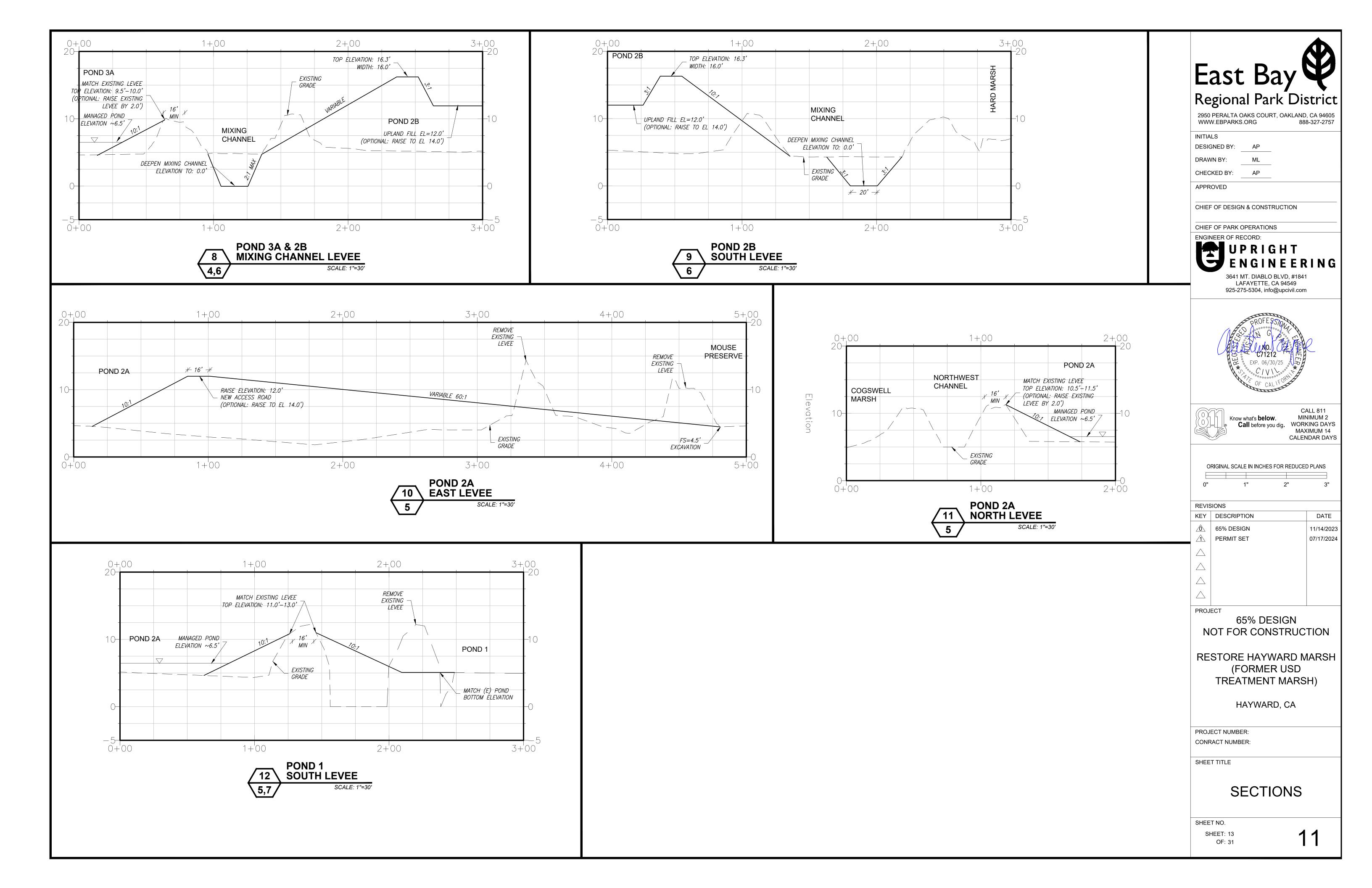
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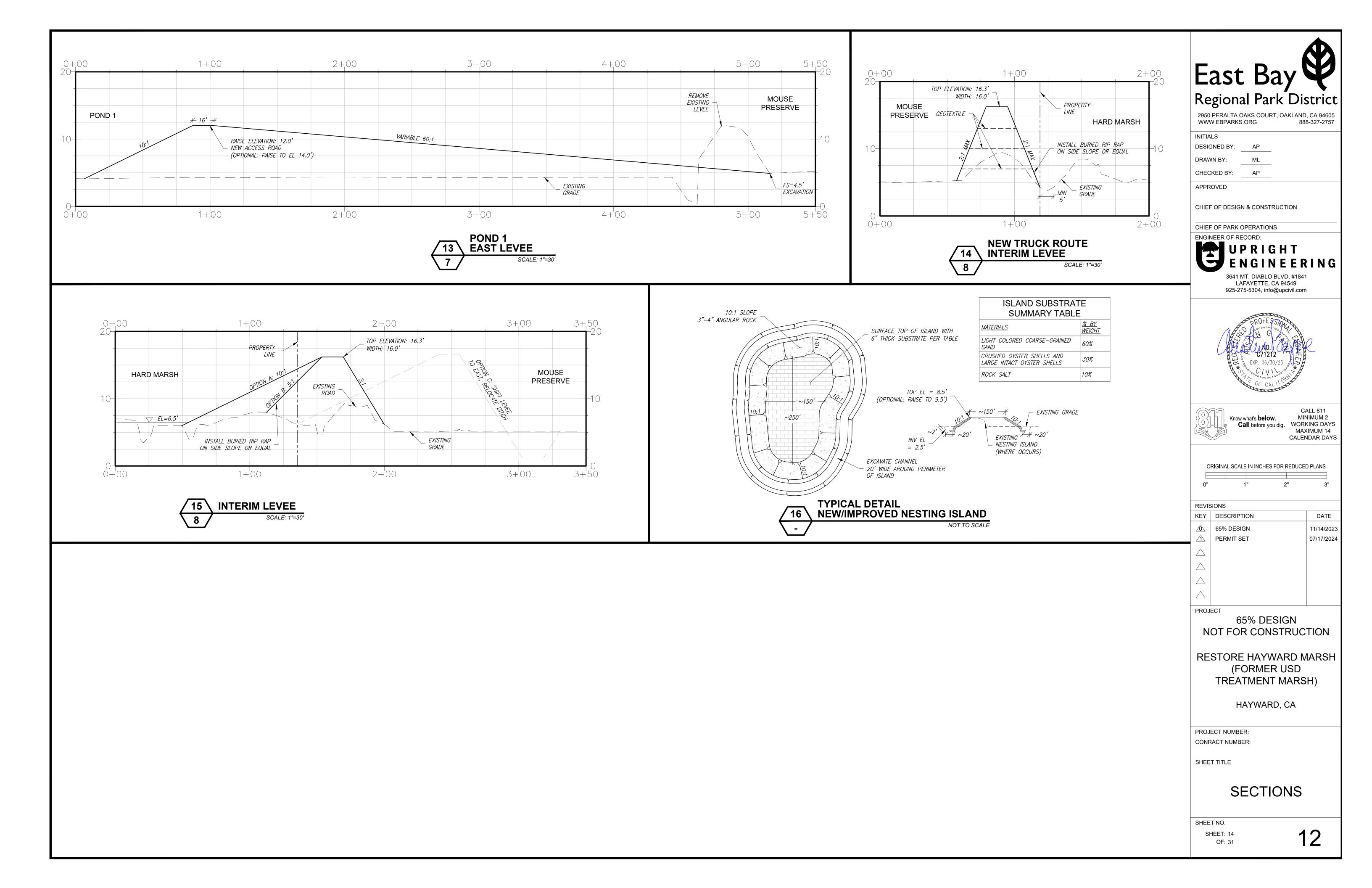
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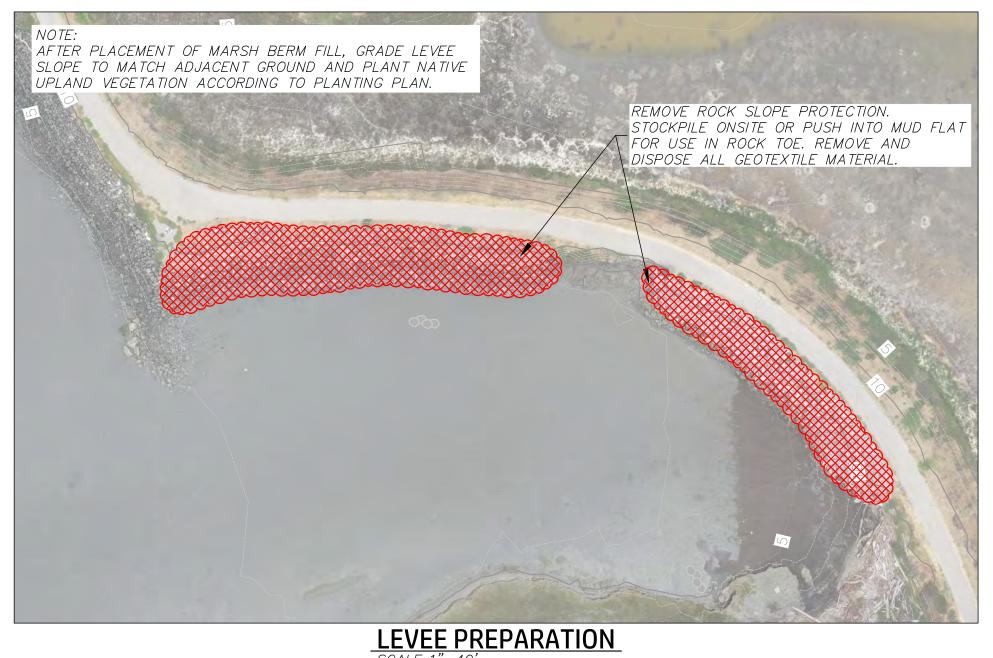
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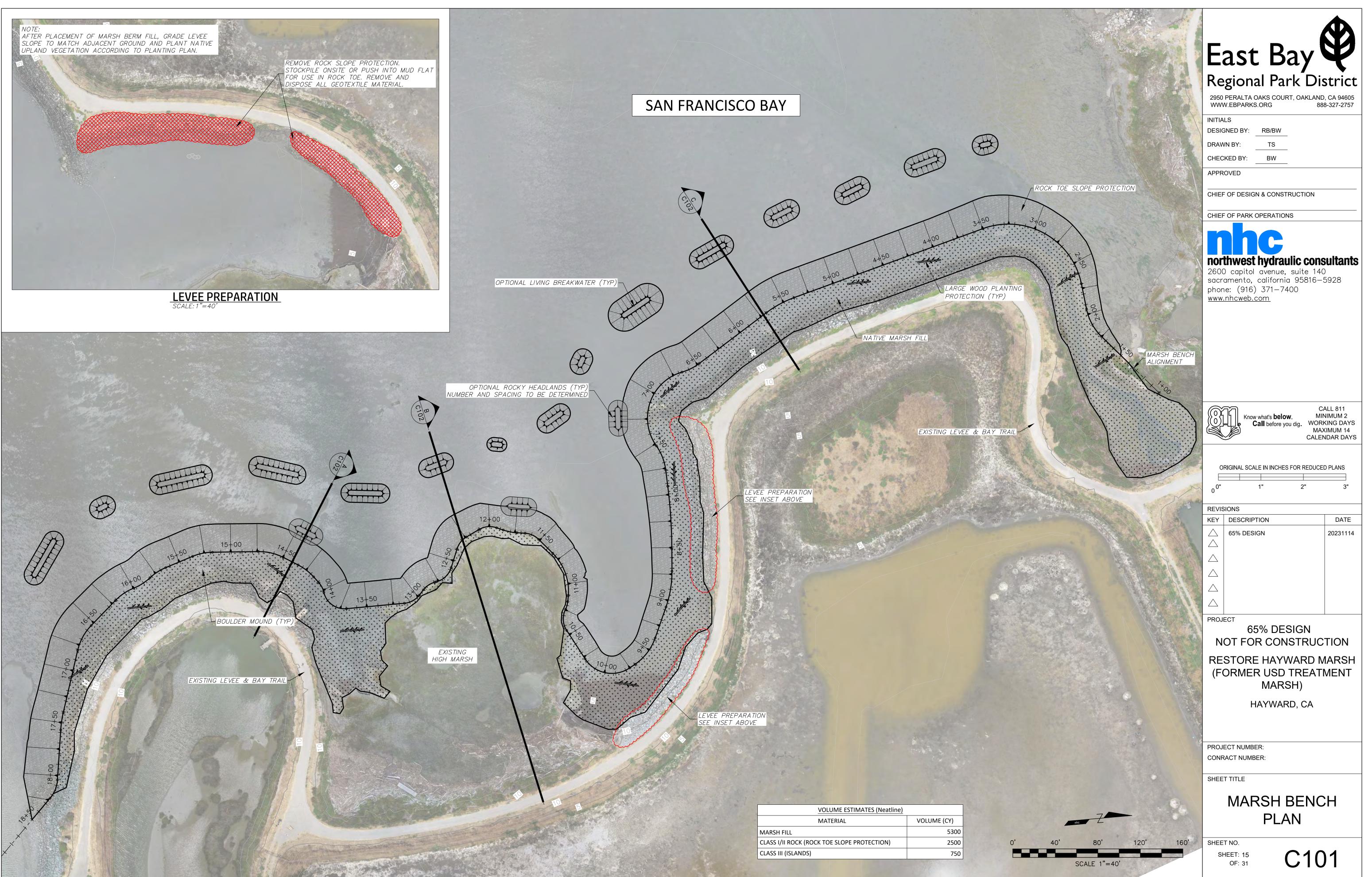


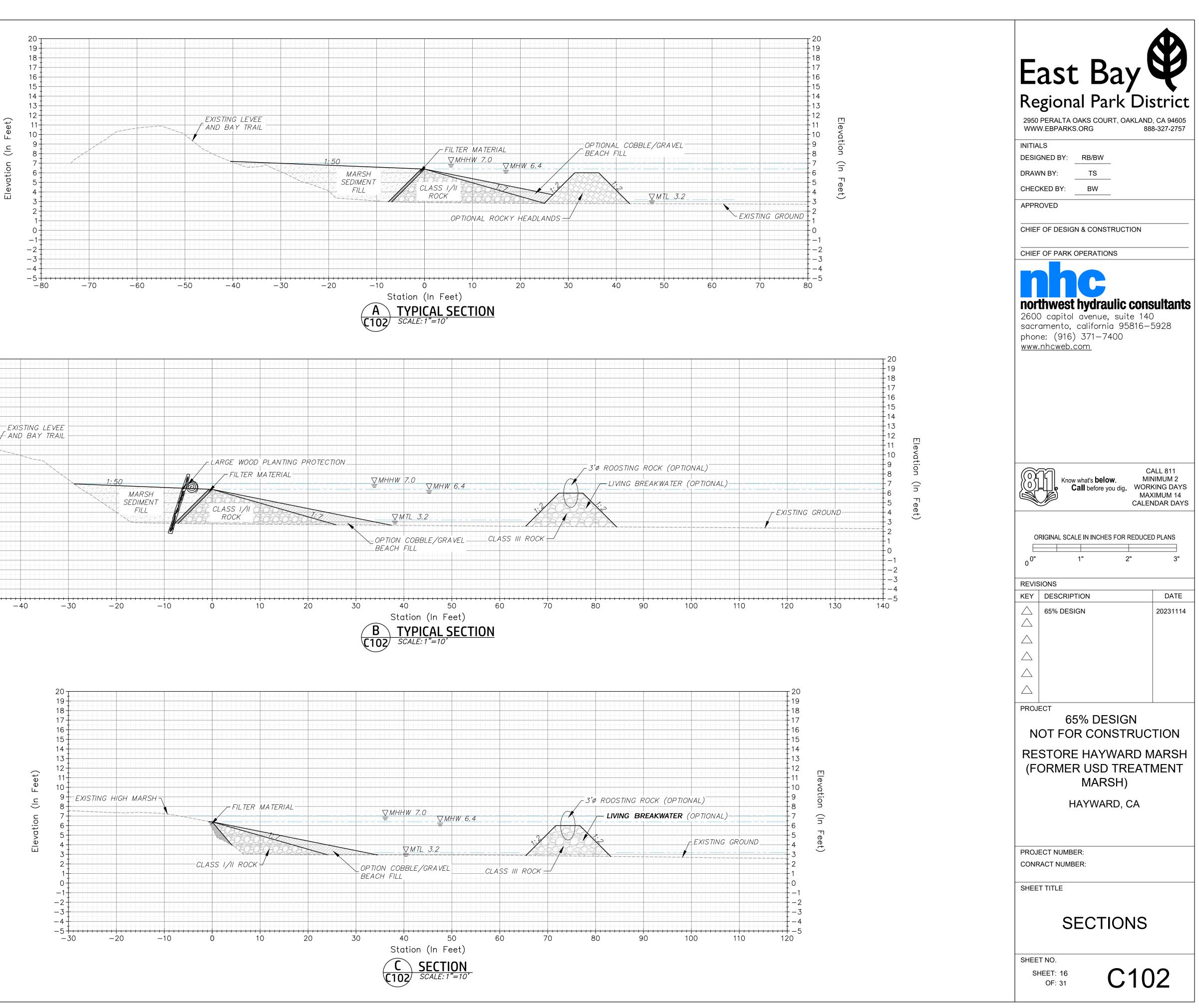


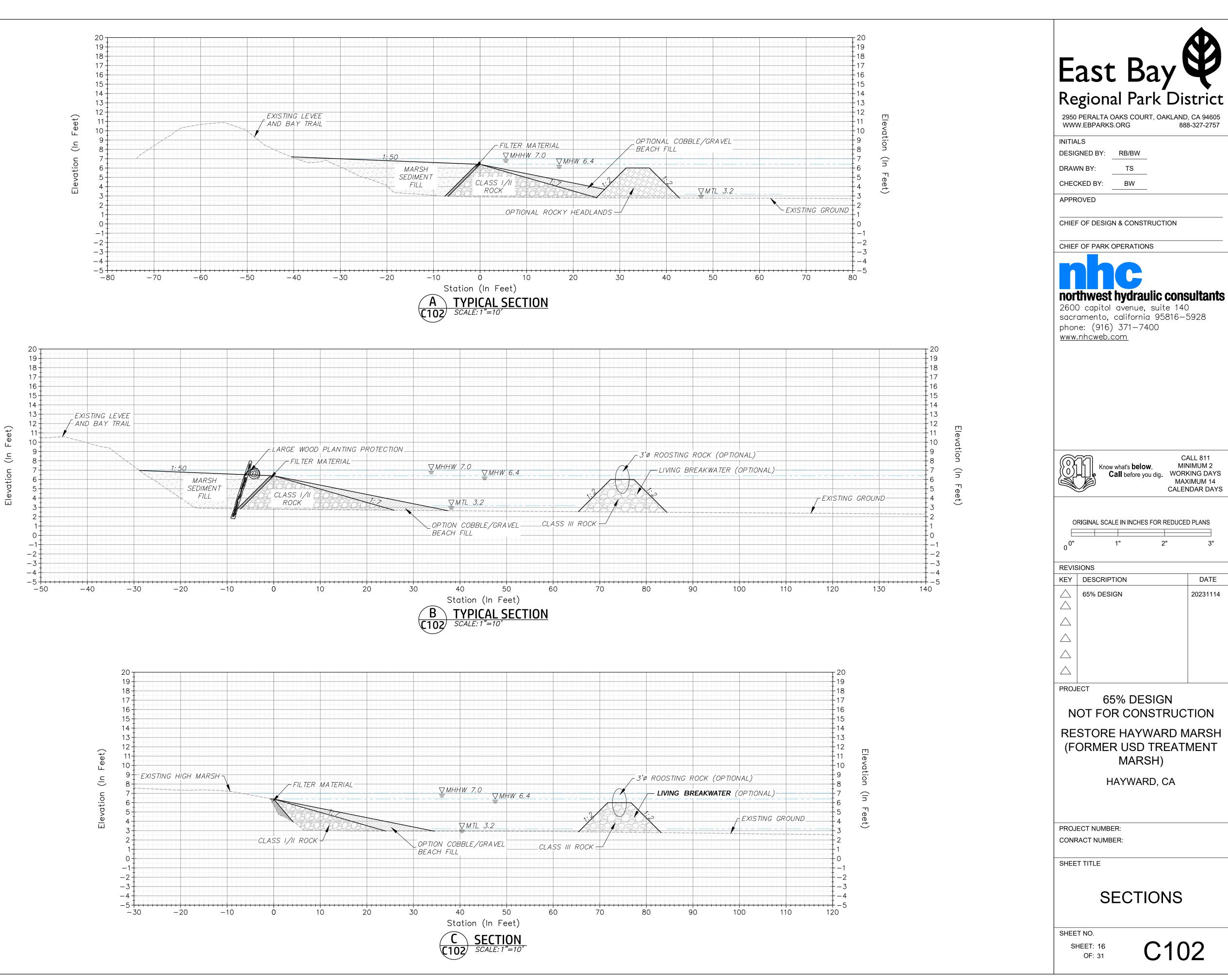


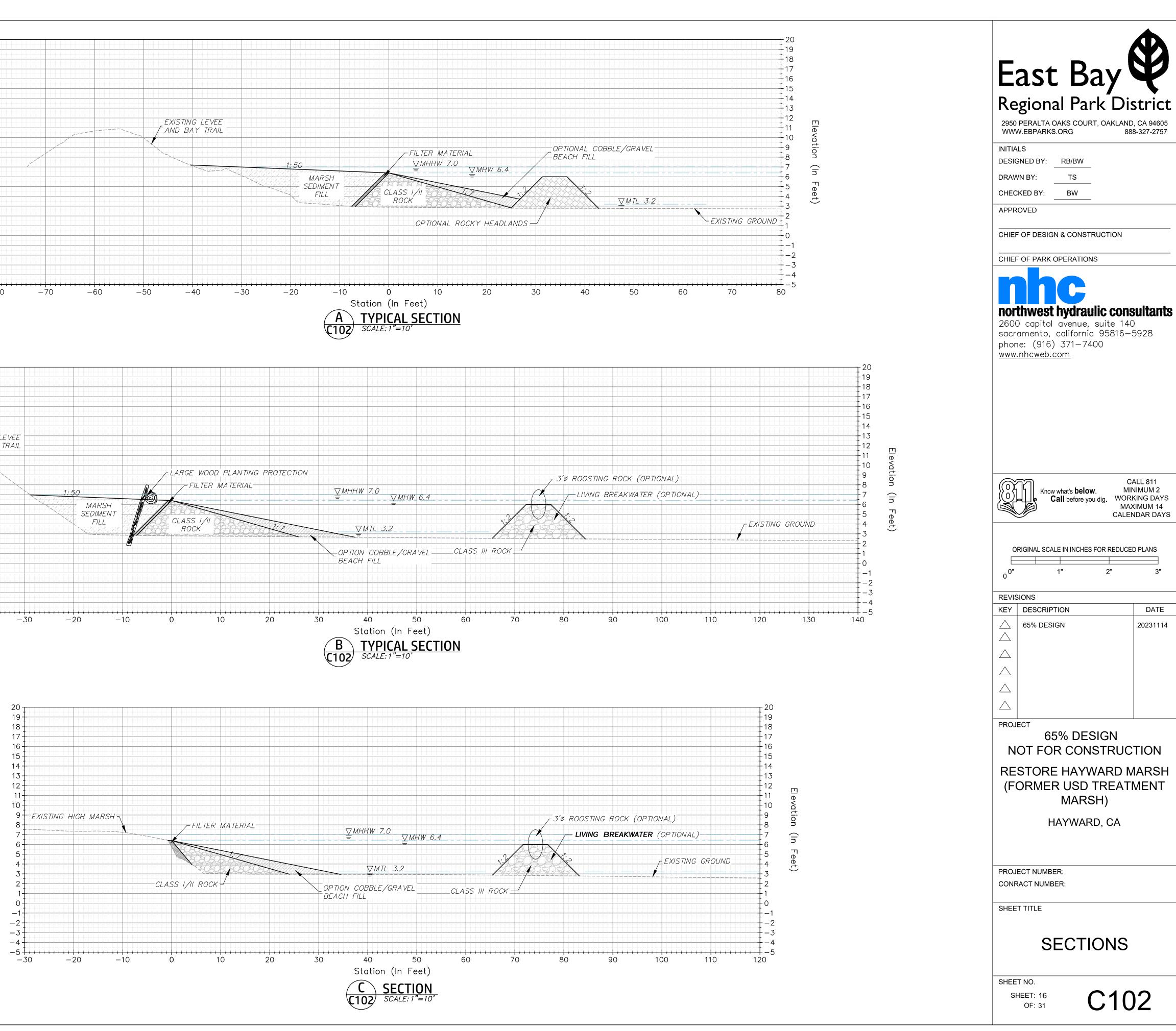




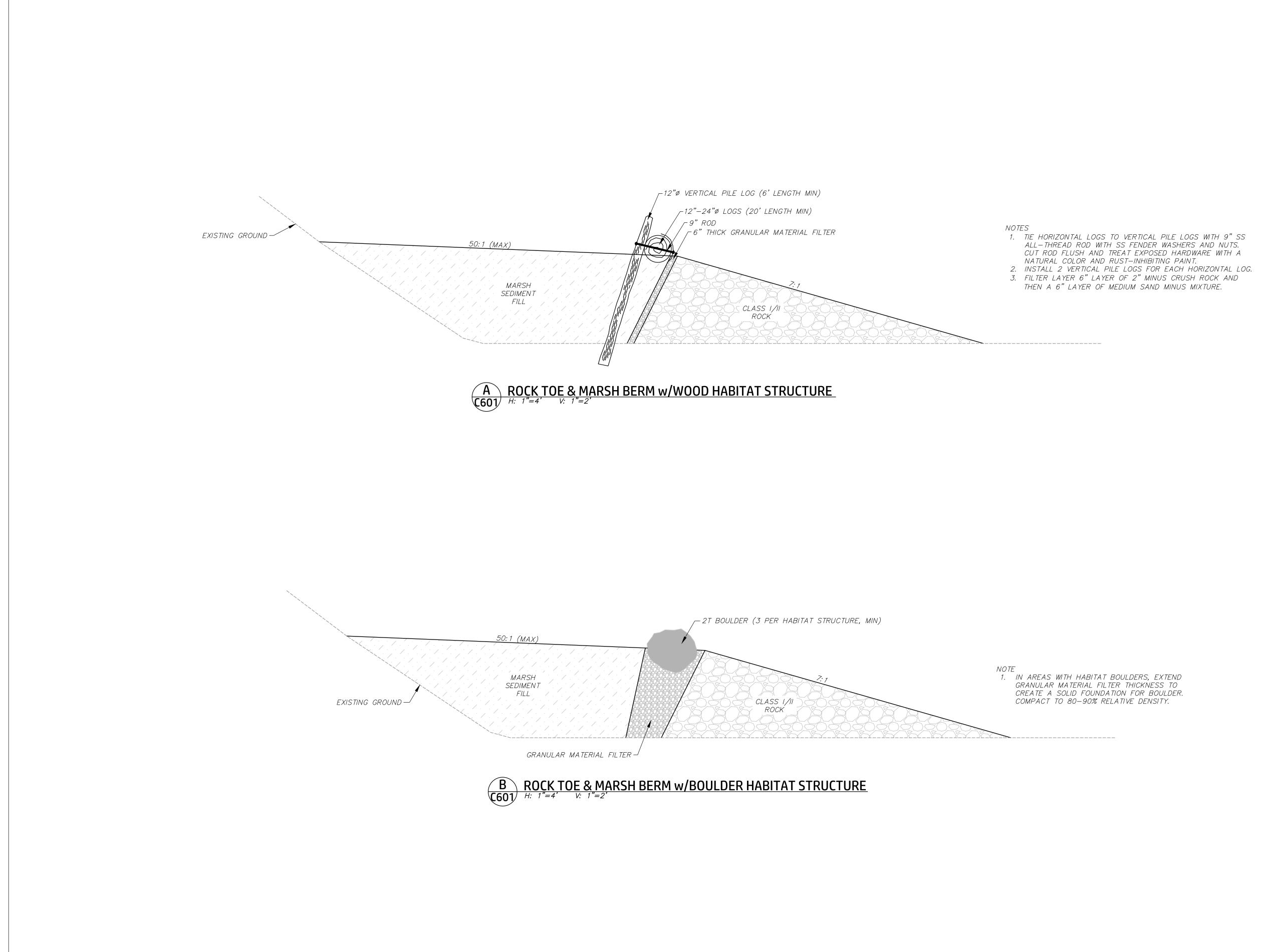






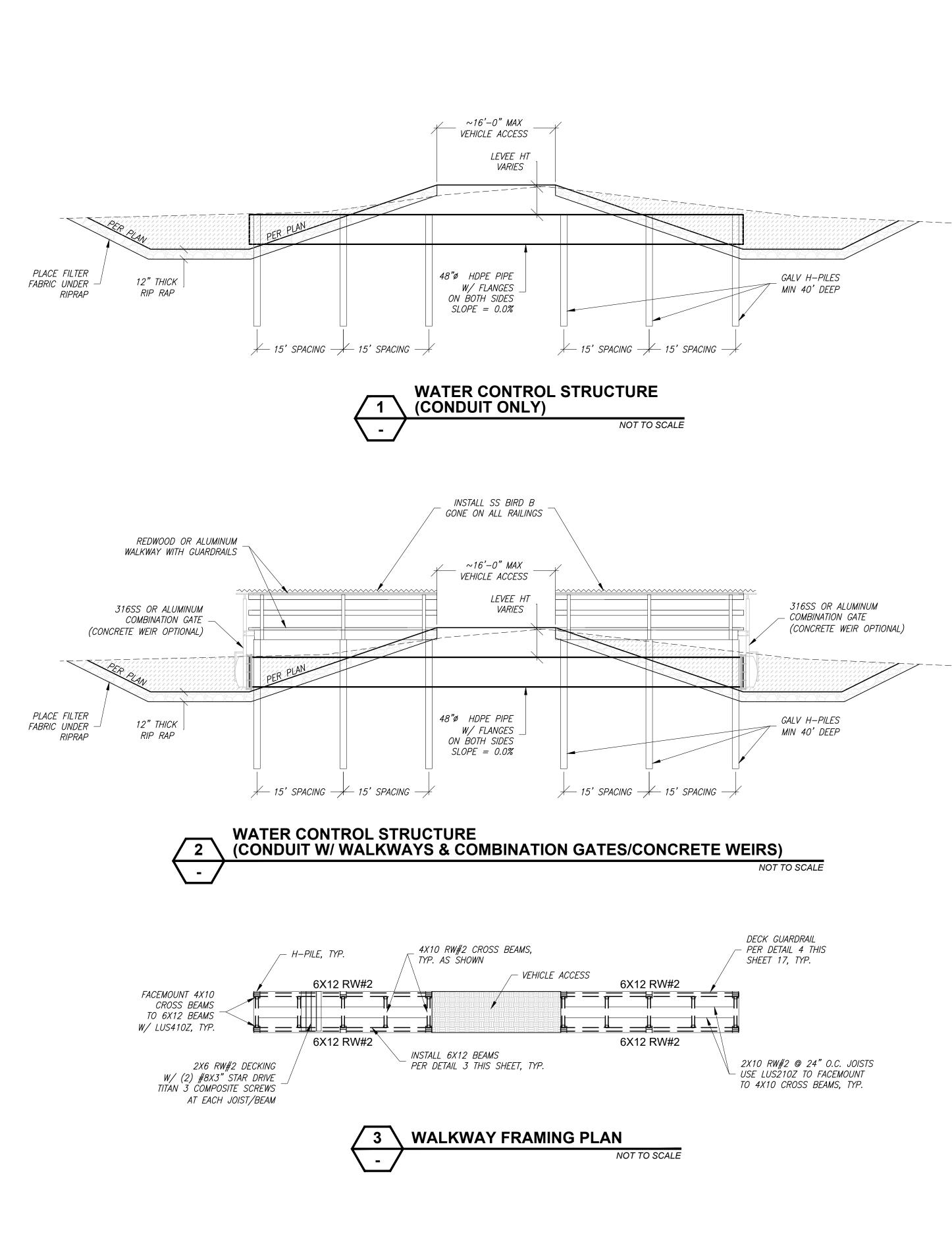


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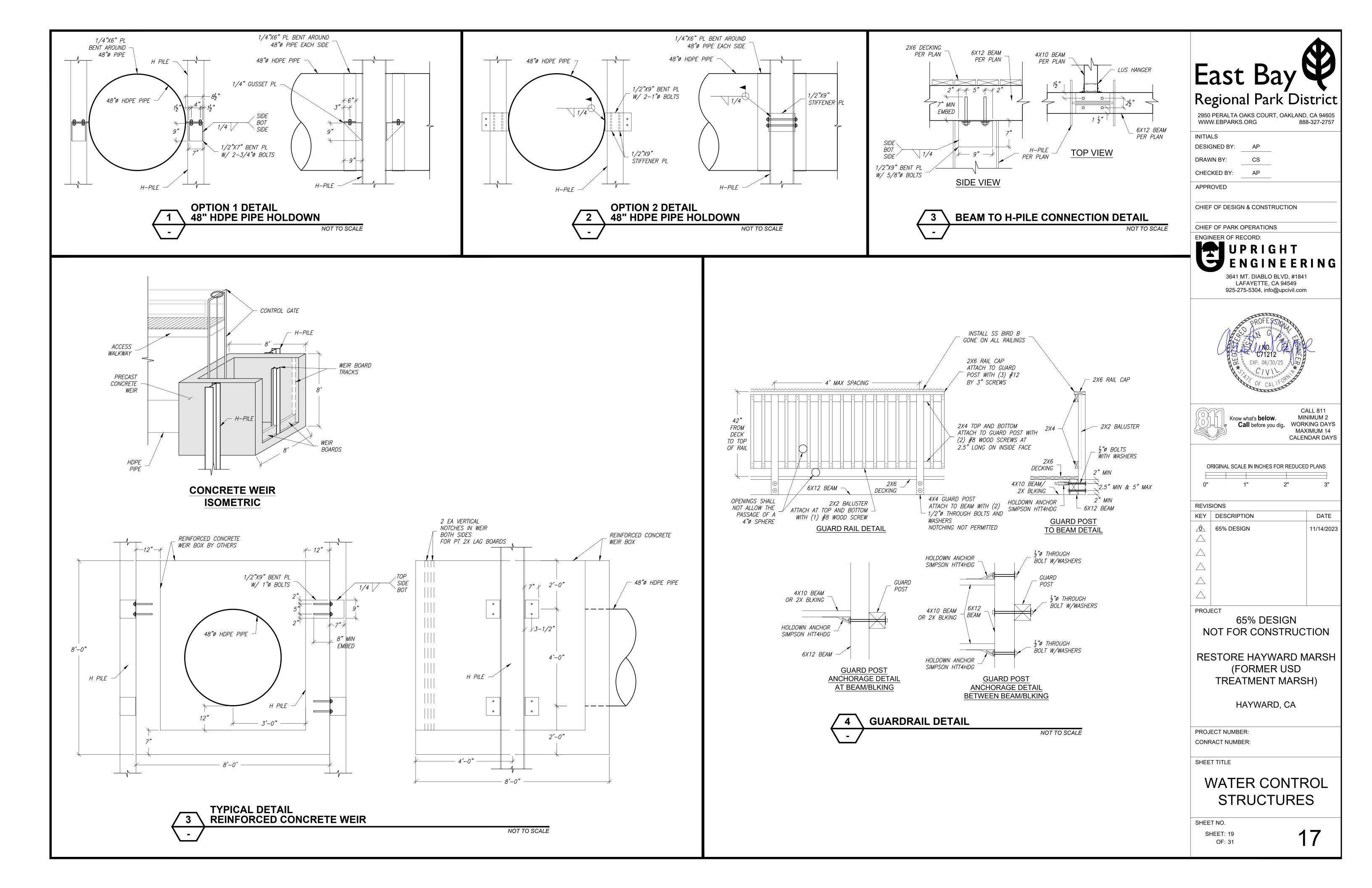


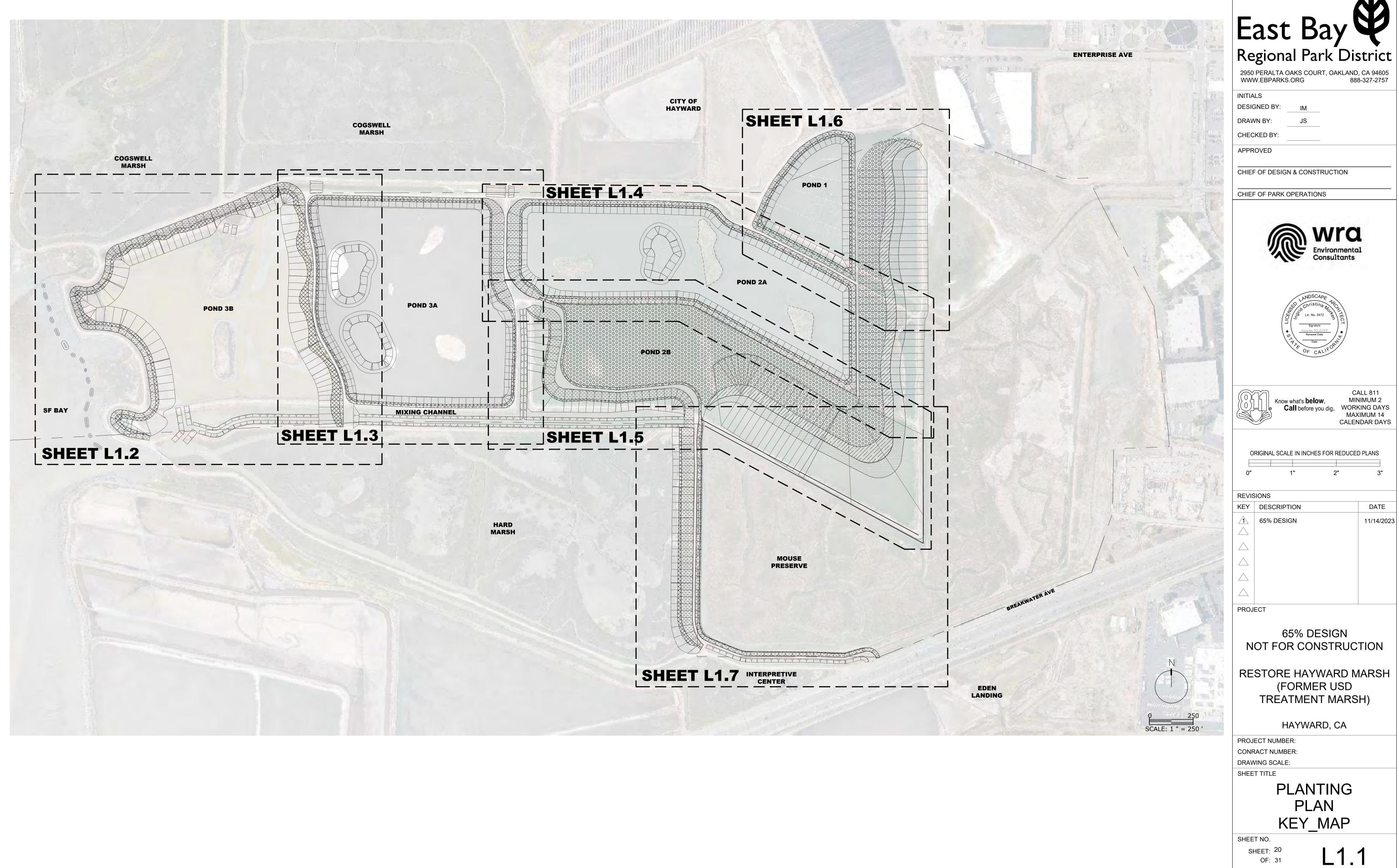
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APPROVED CHIEF OF DESIGN & CONSTRUCTION CHIEF OF PARK OPERATIONS
<b>northwest hydraulic consultants</b> 2600 capitol avenue, suite 140 sacramento, california 95816–5928 phone: (916) 371–7400 www.nhcweb.com
Know what's <b>below</b> . Call before you dig. Call before you dig. Call before you dig. Call before you dig.
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS
REVISIONS
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SHEET NO. SHEET: 17 OF: 31 <b>C601</b>



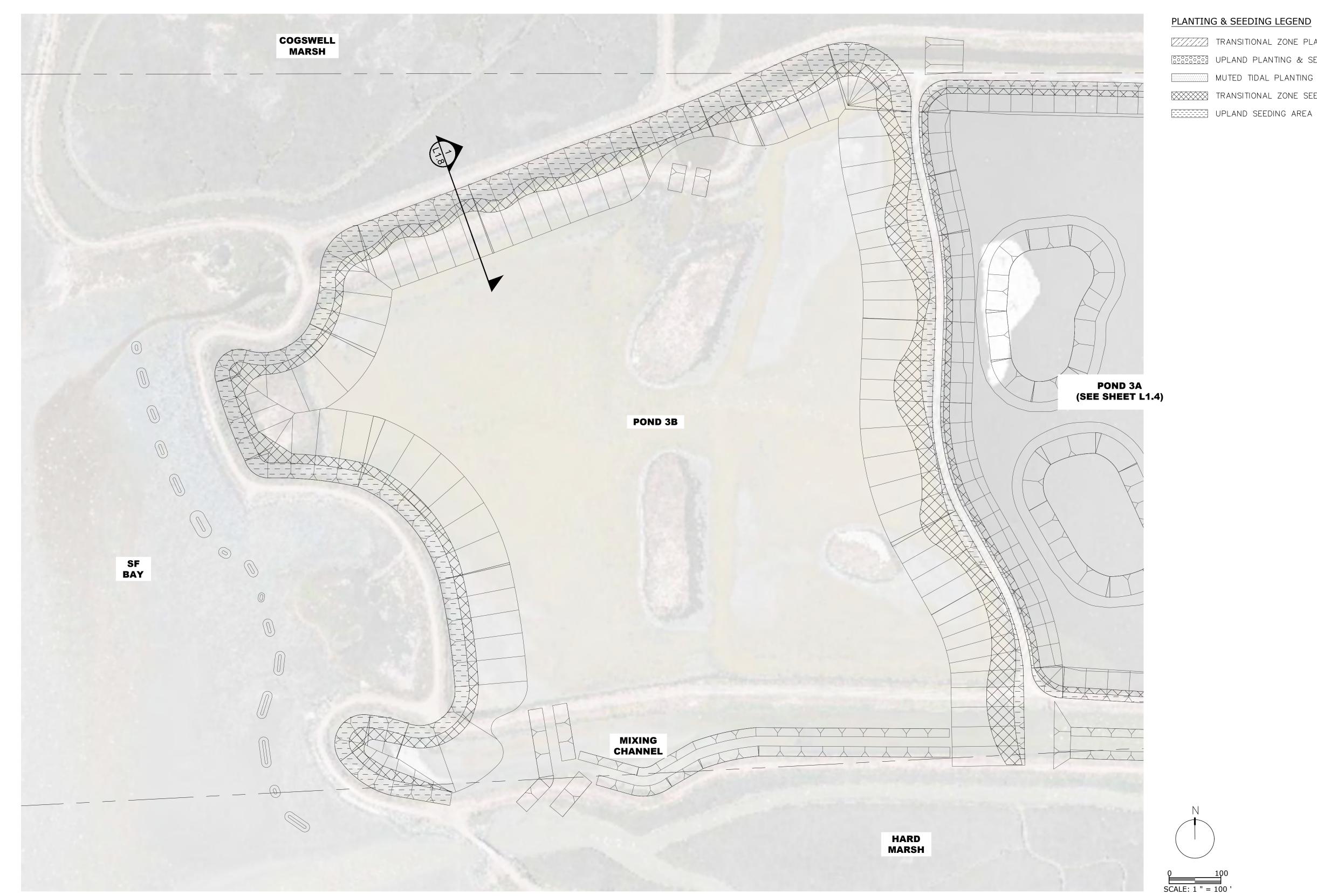
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WCS 2	28	200	48	2.5	BOTH ENDS	NONE
WCS 3	14	100	48	2.5	NONE	ONE END
WCS 4	32	235	48	2.5	BOTH ENDS	NONE
WCS 5	14	100	48	2.5	NONE	ONE END
WCS 6	16	110	48	3.5	BOTH ENDS	NONE
WCS 7	28	200	48	2.5	NONE	one end
WCS 8	24	175	48	2.5	BOTH ENDS	NONE
WCS 9	12	80	48	0.0	BOTH ENDS	NONE
WCS 10	14	95	48	2.5	BOTH ENDS	NONE
WCS 11	16	115	48	0.0	BOTH ENDS	NONE
WCS 12	12	80	48	1.5	BOTH ENDS	NONE
WCS 13	12	80	48	4.0	NONE	NONE

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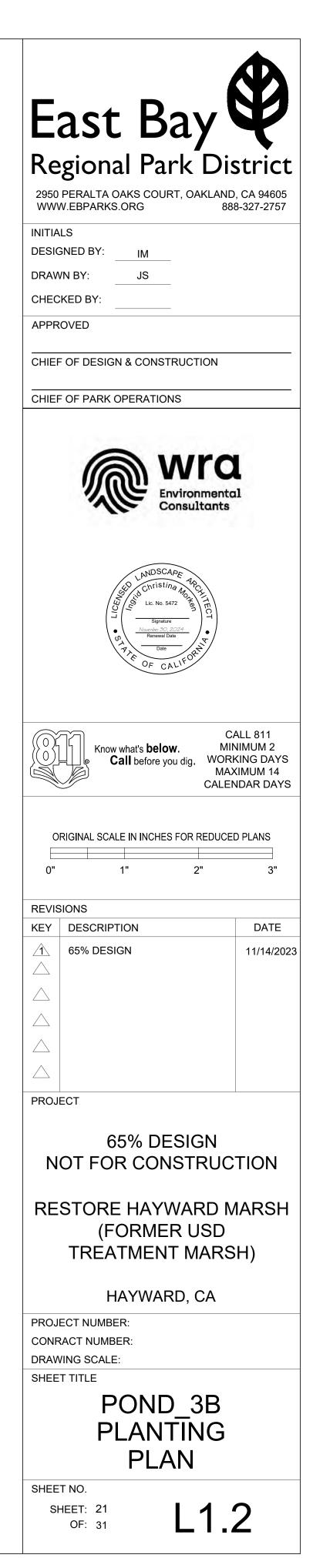
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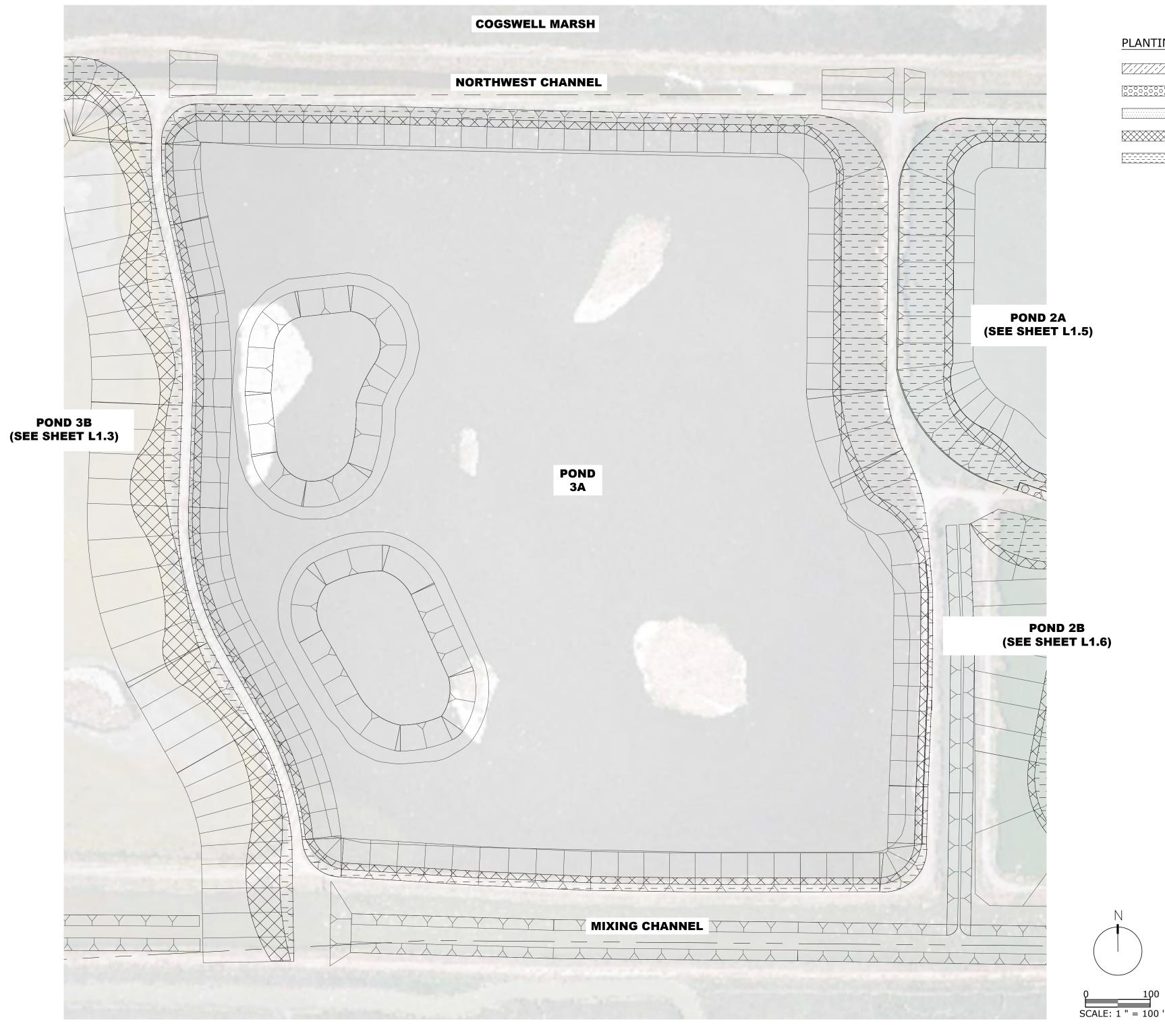


PLANTING PLAN

# PLANTING & SEEDING LEGEND

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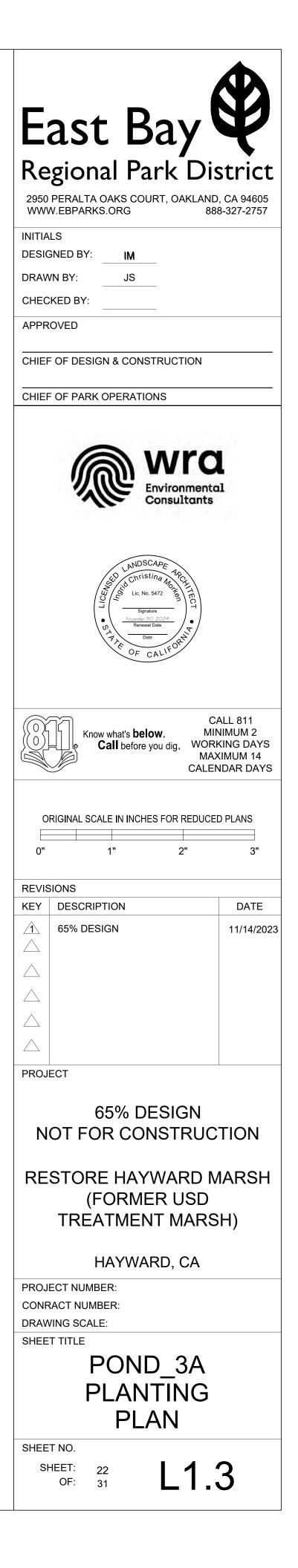


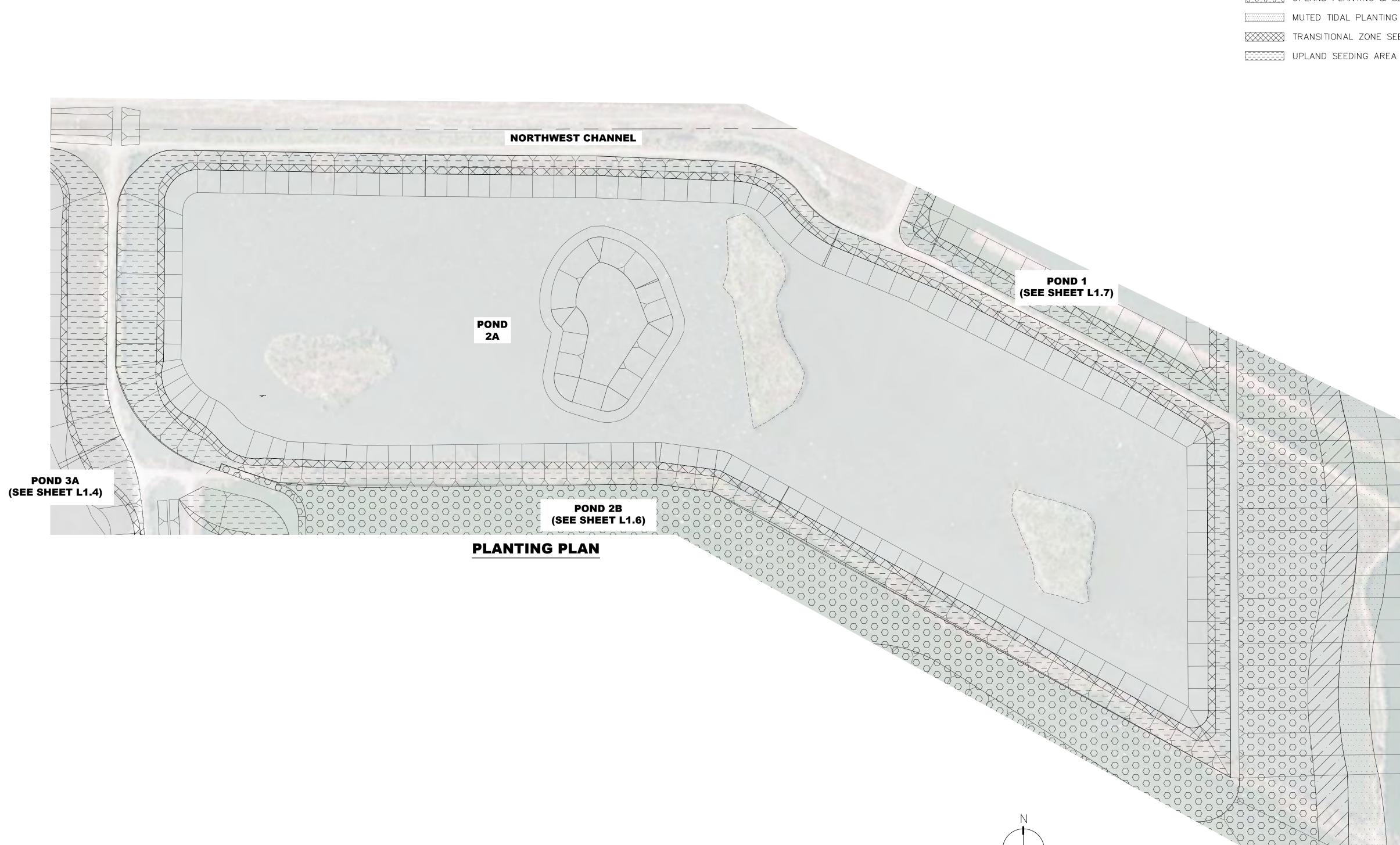


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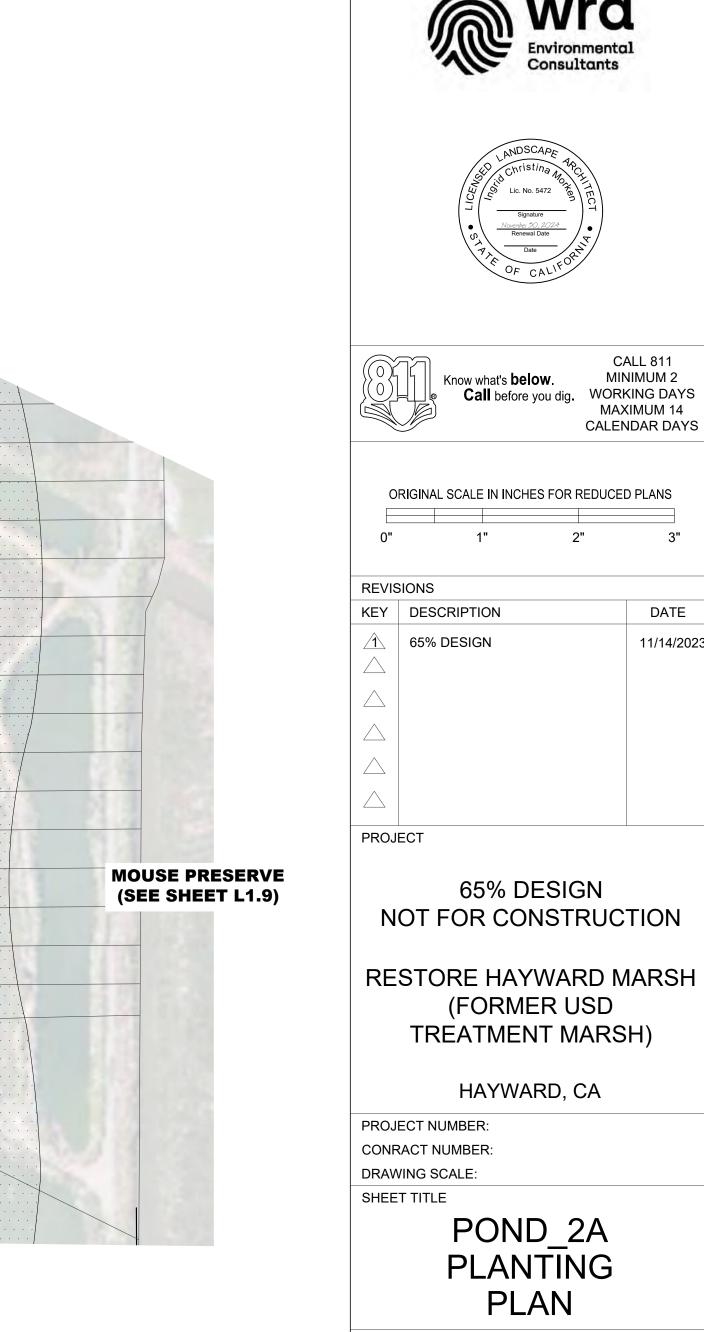




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East Bay Regional Park District

2950 PERALTA OAKS COURT, OAKLAND, CA 94605 WWW.EBPARKS.ORG 888-327-2757

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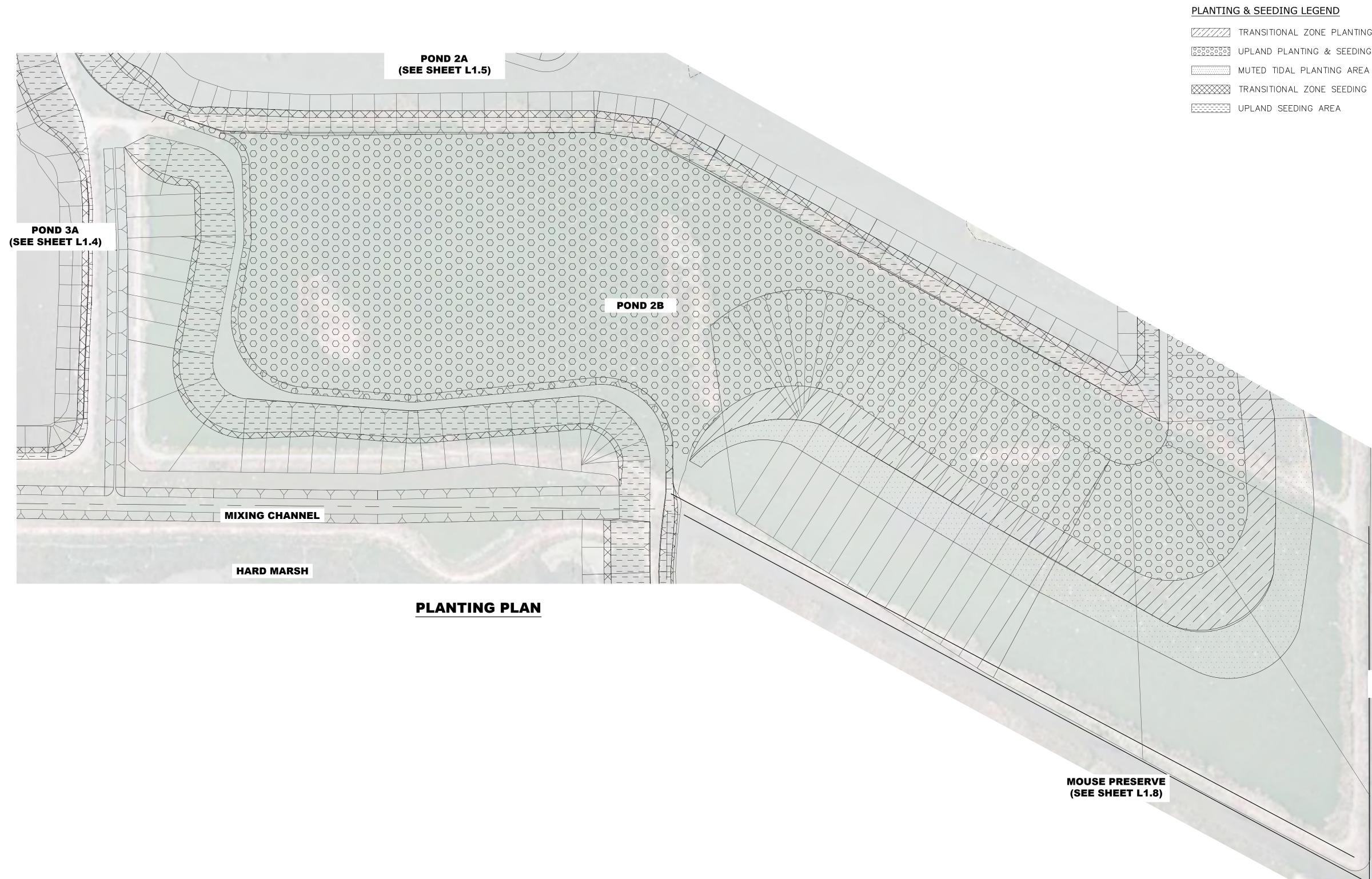
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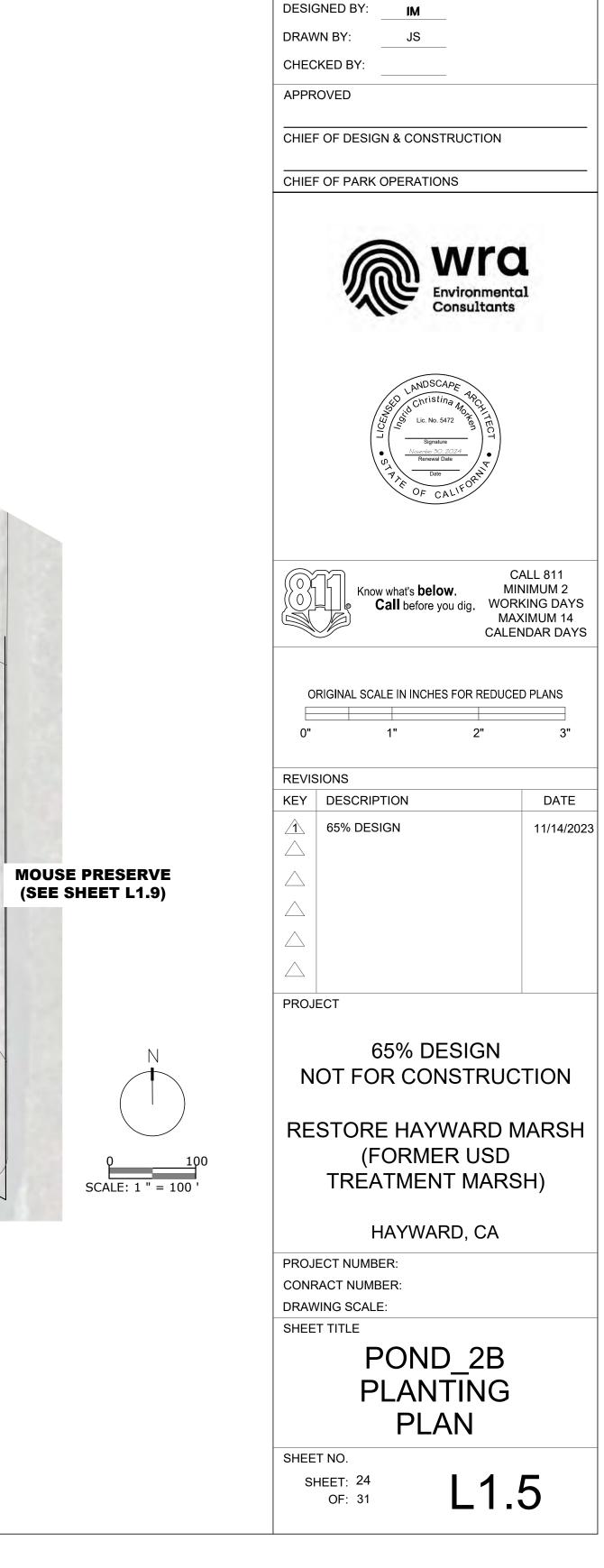
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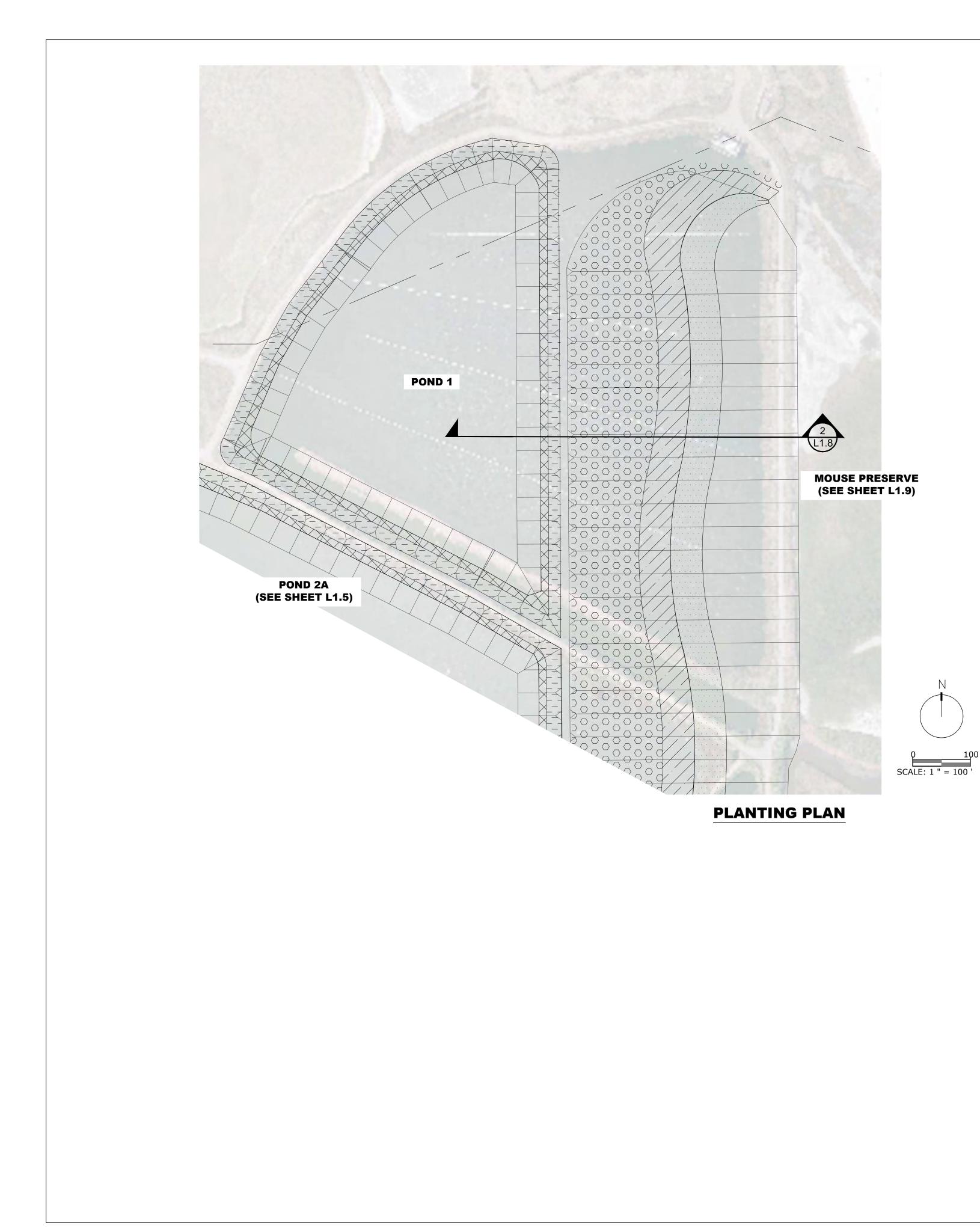
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East Bay Regional Park District

2950 PERALTA OAKS COURT, OAKLAND, CA 94605WWW.EBPARKS.ORG888-327-2757

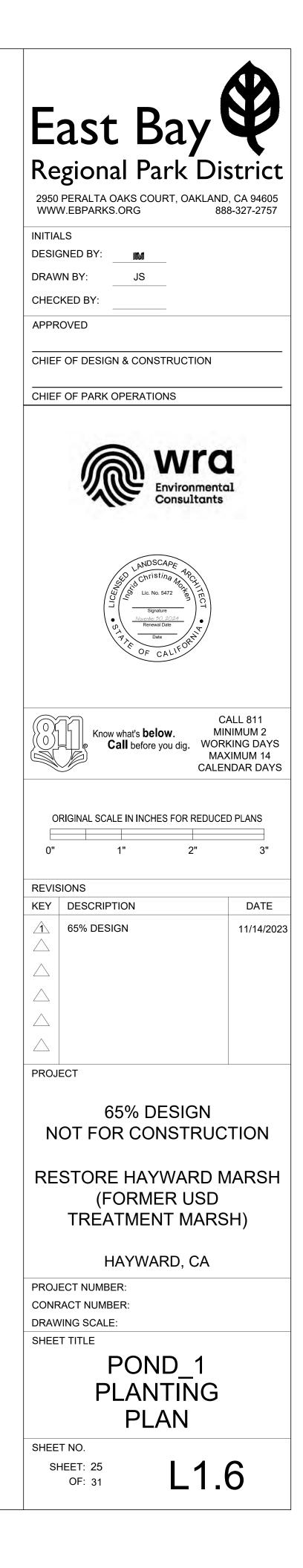
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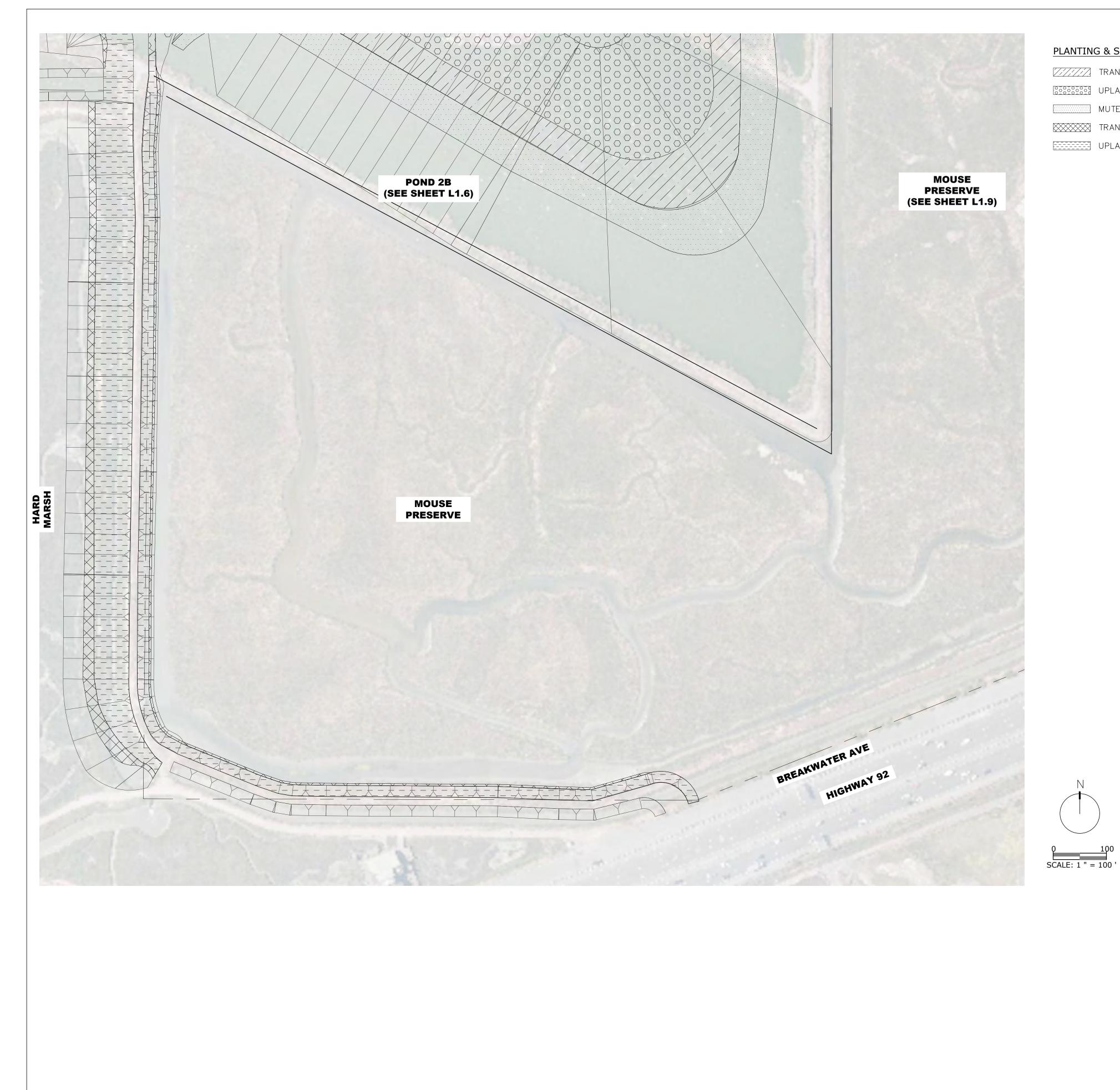


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PROJECT NUMBER: CONRACT NUMBER: DRAWING SCALE:	
MOUSE_PRESE PLANTING PLAN	RVE
SHEET NO. SHEET: 26 OF: 31	7

# **PLANTING NOTES**

TRANSITION ZONE PLANT PALETTE

- 1. PLANTING NOTES DESCRIBED IN THE DISTRICT'S STANDARD PLAN NUMBER 601 SHALL BE USED AS APPLICABLE.
- 2. PLANT INSTALLATION SHALL OCCUR BETWEEN OCTOBER 15TH AND DECEMBER 31ST OR AS APPROVED BY THE OWNER'S REPRESENTATIVE. ANY IRRIGATION SYSTEMS SHALL BE OPERATIONAL PRIOR TO PLANTING.

3. PLANTINGS SHALL BE INSTALLED IN CLUSTERS WITHIN THE UPLAND, TRANSITION ZONE, AND MUTED TIDAL MARSH PLANTING AREAS COMPRISING APPROXIMATELY 20% OF THE TOTAL AREA.

4. THE CONTRACTOR SHALL STAKE OR MARK THE OUTER LIMITS OF THE PLANTING AREAS AND A TYPICAL LAYOUT FOR APPROVAL BY THE OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION. THE ELEVATION RANGES FOR THE PLANTING AREAS SHALL BE FINALIZED FOLLOWING EARTHWORK ACTIVITIES AND BASED ON OBSERVATIONS OF THE POST-CONSTRUCTION TIDAL RANGE WITHIN THE PROJECT AREA. THE CONTRACTOR SHALL ENSURE THAT THE PLANTINGS ARE INSTALLED WITHIN THE APPROPRIATE ELEVATION RANGES.

5. FOLIAGE PROTECTION CAGES SHALL BE INSTALLED AROUND SHRUB PLANTINGS AS NEEDED TO PREVENT HERBIVORY.

SYMBOL	BOTANICAL <u>NAME</u>		CONTAINER <u>SIZE</u>	SPACING (O.C. FEET)	APPROX. PLANTING ELEVATION
BAC PIL	BACCHARIS PILLULARIS VAR. PILULARIS	COYOTE BRUSH (PROSTRATE FORM)	D-40 OR EQ	6.0	
eri nud	ERIOGONUM NUDUM	BUCKWHEAT	D-40 OR EQ	3.0	
FRA CAL	FRANGULA CALIFORNICA	COFFEEBERRY	D-40 OR EQ	8.0	
HET ARB	HETEROMELES ARBUTIFOLIA	TOYON	D-40 OR EQ	8.0	>9.00'
LUP ALB	LUPINUS ALBIFRONS	SILVER BUSH LUPINE	D-40 OR EQ	4.0	29.00
MIM AUR	MIMULUS AURANTIACUS	STICKY MONKEY FLOWER	D-40 OR EQ	5.0	
ROS CAL	ROSA CALIFORNICA	CALIFORNIA ROSE	D-40 OR EQ	8.0	
SCR CAL	SCROPHULARIA CALIFORNICA	BEE PLANT	D-40 OR EQ	3.0	

# **SEEDING NOTES**

- (PLS).
- SEEDING AREAS SHALL BE MARKED PRIOR TO SEED APPLICATION AND APPROVED BY THE OWNER'S REPRESENTATIVE.
- 2. 3. SOIL WILL BE PREPARED FOR SEED INSTALLATION BY HAND
- RAKING OR DISKING. SEED APPLICATION METHODS SHALL INCLUDE DRILL SEEDING OR 4. HYDROSEEDING, DEPENDING ON ACCESS AND SLOPE.

# UDI AND TONE OFFD MTV

<u>SYMBOL</u>	BOTANICAL <u>NAME</u>	COMMON NAME	PURE LIVE SEED	APPROX. PLANTING ELEVATION
ACH MIL	ACHILLEA MILLEFOLIUM	YARROW	0.50	
ACM AME	ACMISPON AMERICANUS	SPANISH CLOVER	0.50	
AMB PSI	AMBROSIA PSILOSTACHYA	WESTERN/PERENNIAL RAGWEED	1.00	
ART CAL	ARTEMISIA CALIFORNICA	CA SAGEBRUSH	0.15	
ART DOU	ARTEMISIA DOUGLASIANA	CA MUGWORT	0.20	
BRO CAR	BROMUS CARINATUS	CALIFORNIA BROME	5.00	
CEN PUN	CENTROMADIA PUNGENS	COMMON SPIKEWEED/TARWEED	0.20	
DAN CAL	DANTHONIA CALIFORNICA	CALIFORNIA OATGRASS	1.50	
ELY GLA	ELYMUS GLAUCUS	BLUE WILDRYE	4.00	>0.00'
ELY TRI	ELYMUS TRITICOIDES	CREEPING WILD RYE	4.00	>9.00'
ESC CAL	ESCHSCHOLZIA CALIFORNICA	CALIFORNIA POPPY	1.00	
FES MIC	FESTUCA MICROSTACHYS	THREE WEEKS FESCUE	6.00	
HET GRA	HETEROTHECA GRANDIFLORA	TELEGRAPH WEED	0.50	
HOR BRA	HORDEUM BRACHYANTHERUM	MEADOW BARLEY	4.00	
HOR DEP	HORDEUM DEPRESSUM	ALKALI BARLEY	4.00	
LAS GLA	LASTHENIA GLABRATA	CA GOLDFIELDS	1.00	
SIS BEL	SISYRINCHIUM BELLUM	BLUE-EYED GRASS	1.50	
STI PUL	STIPA PULCHRA	PURPLE NEEDLEGRASS	4.00	
TOTAL			39.05	

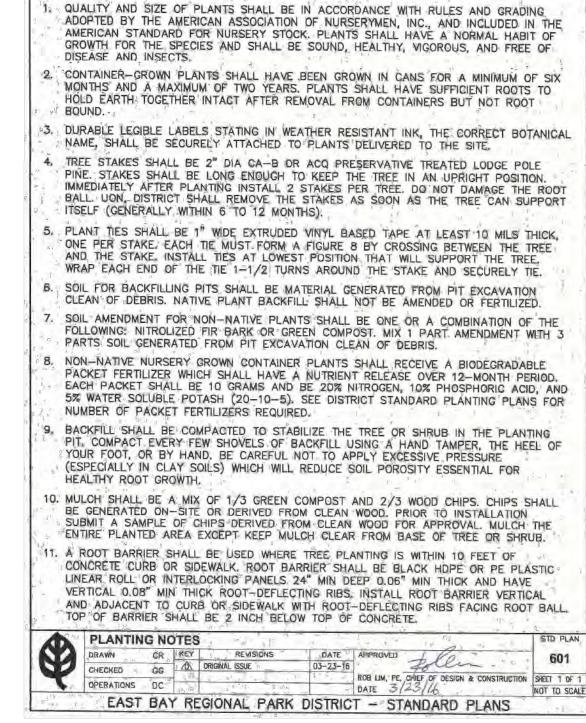
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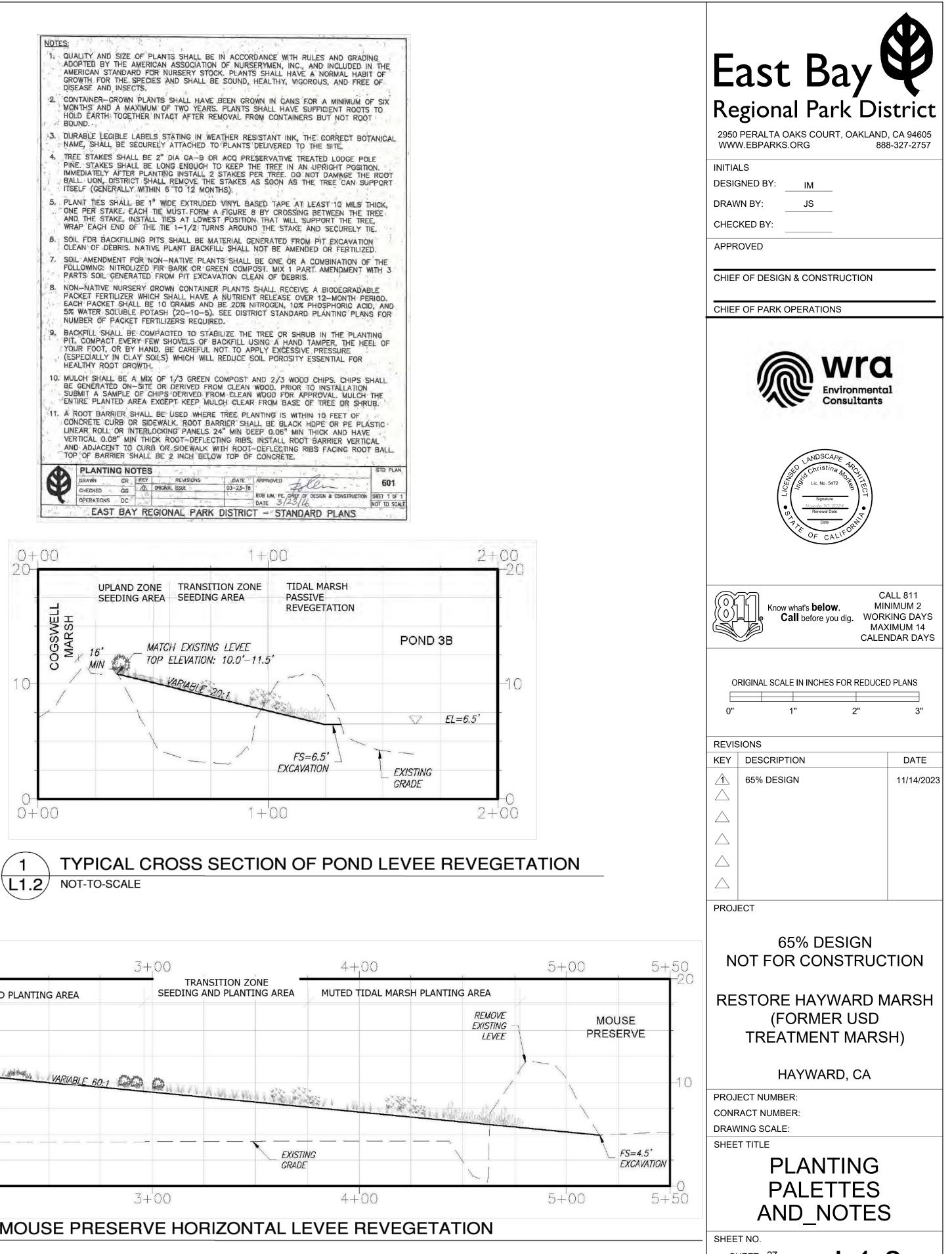
<u>SYMBOL</u>	BOTANICAL <u>NAME</u>	COMMON NAME	PURE LIVE SEED POUND/ACRE	APPROX. PLANTING ELEVATION
ATR TRI	ATRIPLEX TRIANGULARIS	FAT HEN	2.00	
BAC GLU	BACCHARIS GLUTINOSA	SALT MARSH BACCHARIS	2.00	
BAC PIL	BACCHARIS PILULARIS VAR. PILULARIS	COYOTE BRUSH (PROSTRATE FORM)	0.20	
DIS SPI	DISTICHLIS SPICATA	SALT GRASS	2.50	7.50'-9.00'
ELY TRI	ELYMUS TRITICOIDES	CREEPING WILD RYE	4.00	100 5100
FRA SAL	FRANKENIA SALINA	ALKALI HEATH	0.50	
GRI STR	GRINDELIA STRICTA	MARSH GUMPLANT	2.00	
HOR DEP	HORDEUM DEPRESSUM	ALKALI BARLEY	4.00	
TOTAL			17.20	

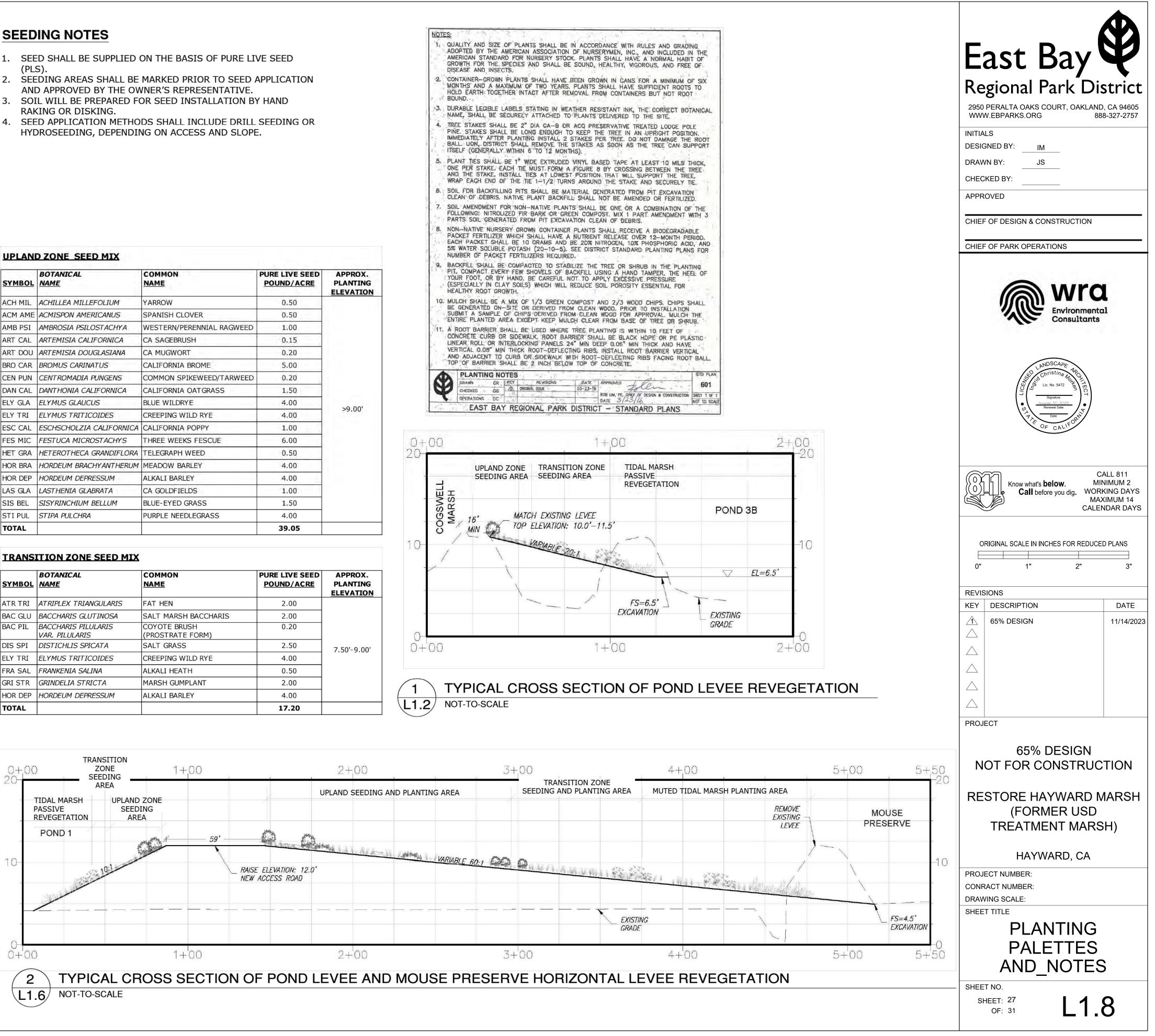
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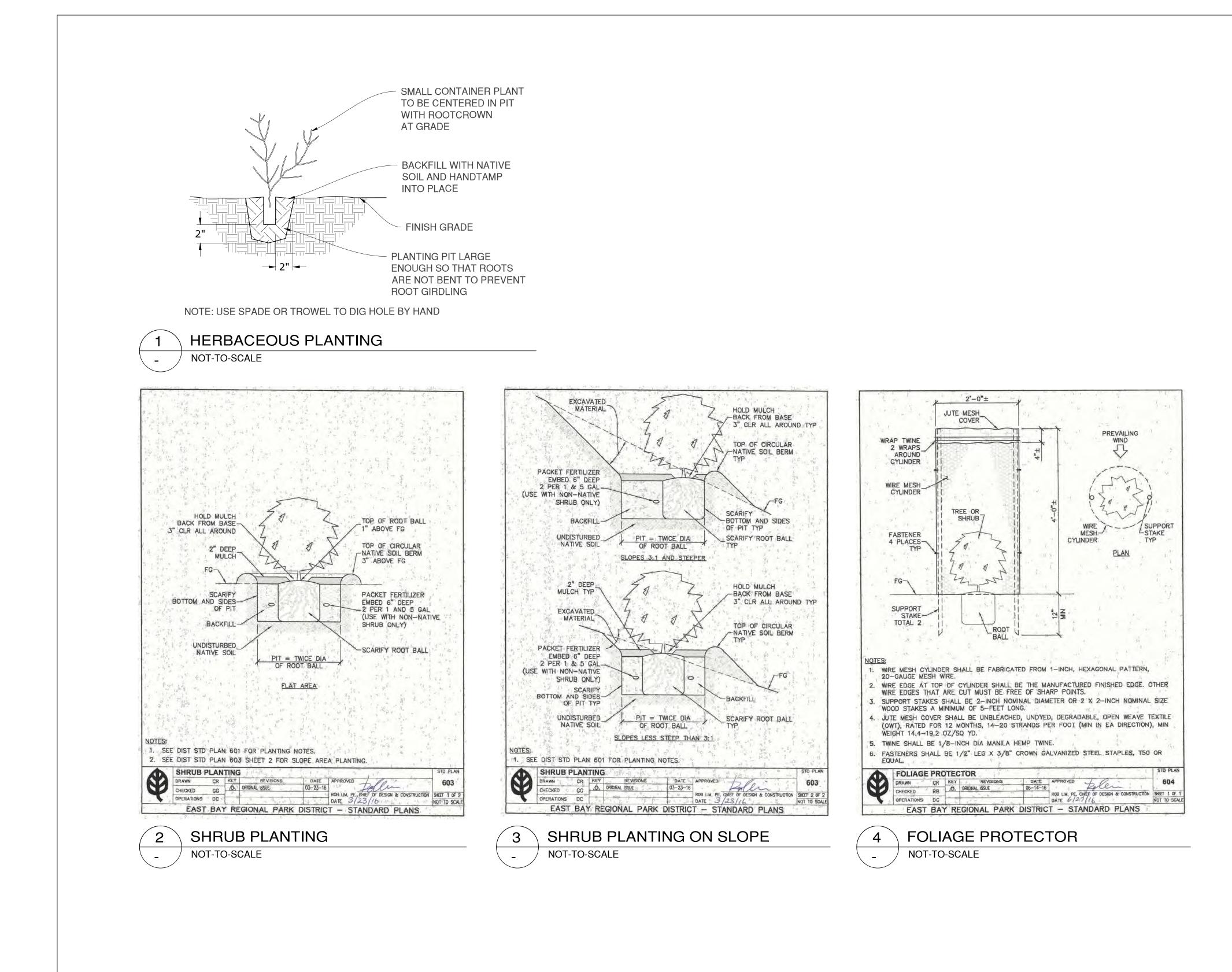
SYMBOL	BOTANICAL NAME	COMMON NAME	CONTAINER SIZE	SPACING (O.C. FEET)	APPROX. PLANTING
<u></u>			<u></u>	10.01.001	ELEVATION
BAC GLU	BACCHARIS	SALT MARSH	D-16	3.0	7.50' - 8.50'
	GLUTINOSA	BACCHARIS	OR EQ		
BAC PIL	BACCHARIS	COYOTE BRUSH	D-16	6.0	> 8.00'
	PILULARIS	(PROSRATE FORM)	OR EQ		
	VAR. PILULARIS				
DIS SPI	DISTICHLIS	SALT GRASS	4" POT	1.5	7.25' - 9.00
	SPICATA		OR EQ		
FRA SAL	FRANKENIA	ALKALI HEATH	4" POT	2.0	7.00' - 8.50'
	SALINA	ofer a conservation of a conservation of the c	OR EQ	-15 yester	
GRI STR	GRINDELIA	MARSH	D-16	3.0	7.25' - 8.25'
	STRICTA VAR.	GUMPLANT	OR EQ	51 497 Aug 1085	
	ANGUSTIFOLIA				
SYM CHI	SYMPHYOTRICHUM	CALIFORNIA ASTER	D-16	3.0	7.25' - 9.00'
	CHILENSE		OR EQ		

<u>SYMBOL</u>	BOTANICAL NAME	COMMON NAME	CONTAINER <u>SIZE</u>	SPACING (O.C. FEET)	APPROX. PLANTING ELEVATION
DIS SPI	DISTICHLIS SPICATA	SALT GRASS	4" POT OR EQ	1.5	6.50' - 7.50'
FRA SAL	FRANKENIA SALINA	ALKALI HEATH	4" POT OR EQ	2.0	7.00' - 8.50'
JAU CAR	JAUMEA CARNOSA	FLESHY JAUMEA	4" POT OR EQ	2.0	6.50' - 7.50'
LIM CAL	LIMONIUM CALIFORNICUM	WESTERN MARSH ROSEMARY	4" POT OR EQ	2.0	7.00' - 7.50'
SAL PAC	SALICORNIA PACIFICA	CALIFORNIA PICKLEWEED	4" POT OR EQ	2.0	5.75' - 7.00'
TRI MAR	TRIGLOCHIN MARITIMA	SEASIDE ARROWGRASS	4" POT OR EQ	2.0	6.50' - 7.50'

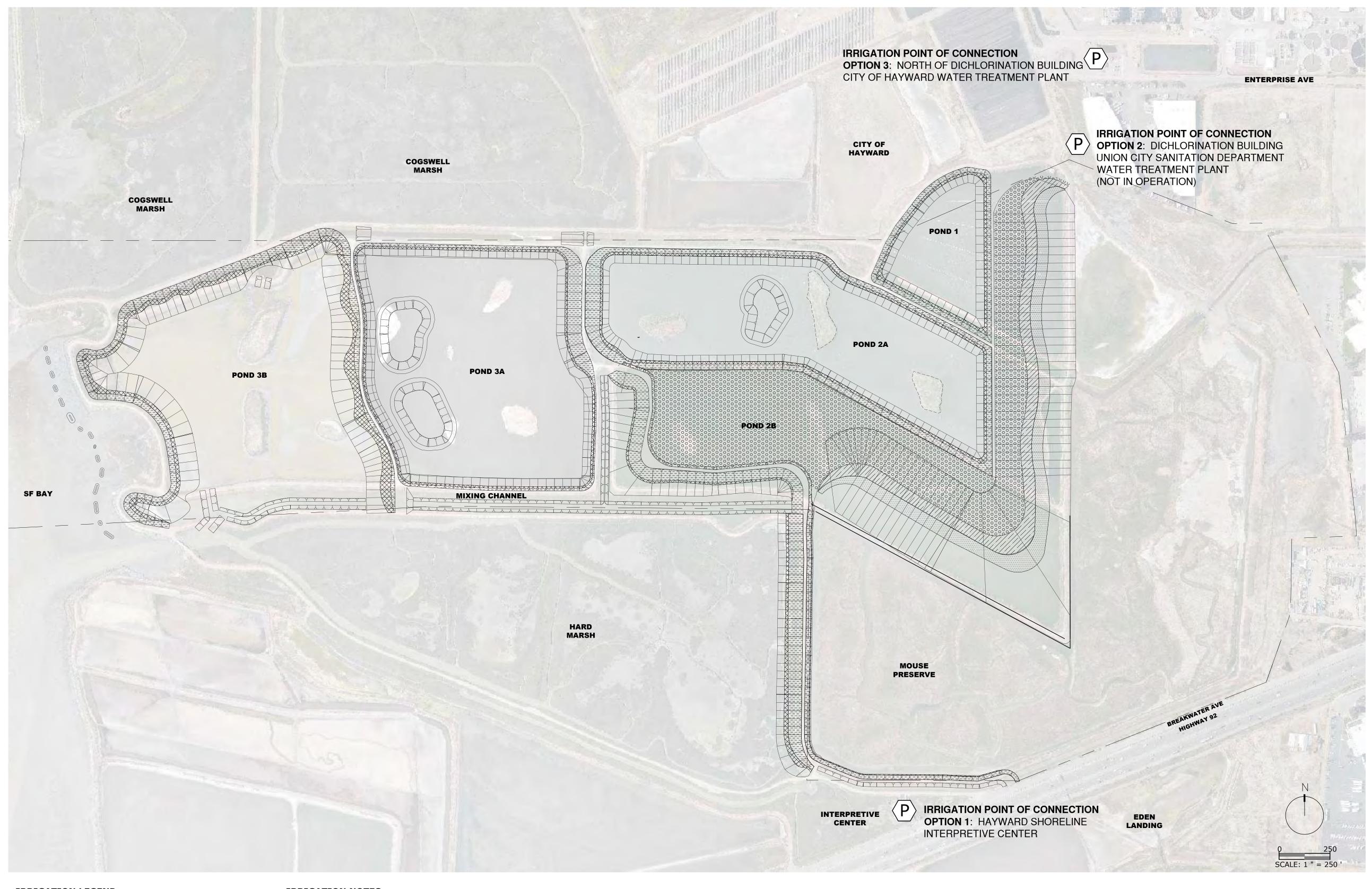








East Bay Regional Park Distri 2950 PERALTA OAKS COURT, OAKLAND, CA 94 WWW.EBPARKS.ORG 888-327-2	4605
INITIALS DESIGNED BY: IM DRAWN BY: JS CHECKED BY: APPROVED	
CHIEF OF DESIGN & CONSTRUCTION	
CHIEF OF PARK OPERATIONS	
WICE Environmental Consultants	
LIC NO SCAPE Christing Mo Christing Mo Signature November 50, 2024 Renewal Date OF CALLFORM	
CALL 817 MINIMUM Call before you dig. CALL 817 MINIMUM WORKING D MAXIMUM CALENDAR D	2 AYS 14
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	6 ∃ 3"
REVISIONS KEY DESCRIPTION DA	TE
	4/2023
65% DESIGN	N
RESTORE HAYWARD MARS (FORMER USD TREATMENT MARSH)	SH
HAYWARD, CA PROJECT NUMBER: CONRACT NUMBER: DRAWING SCALE: SHEET TITLE	
PLANTING DETAILS	
SHEET NO. SHEET: 28 OF: 31 L19	



## **IRRIGATION LEGEND**

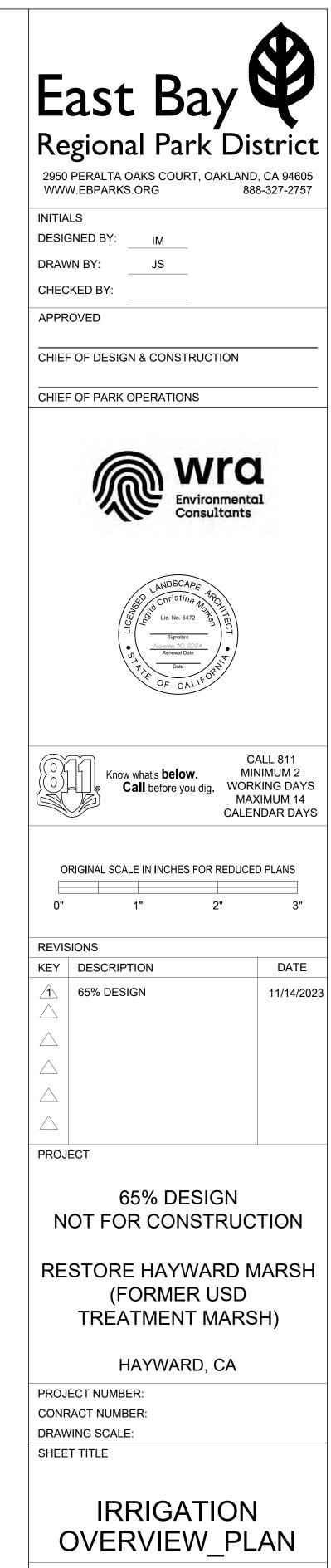
# SYMBOL $\langle \mathsf{P} \rangle$

DESCRIPTION POINT OF CONNECTION LOCATION

# **IRRIGATION NOTES:**

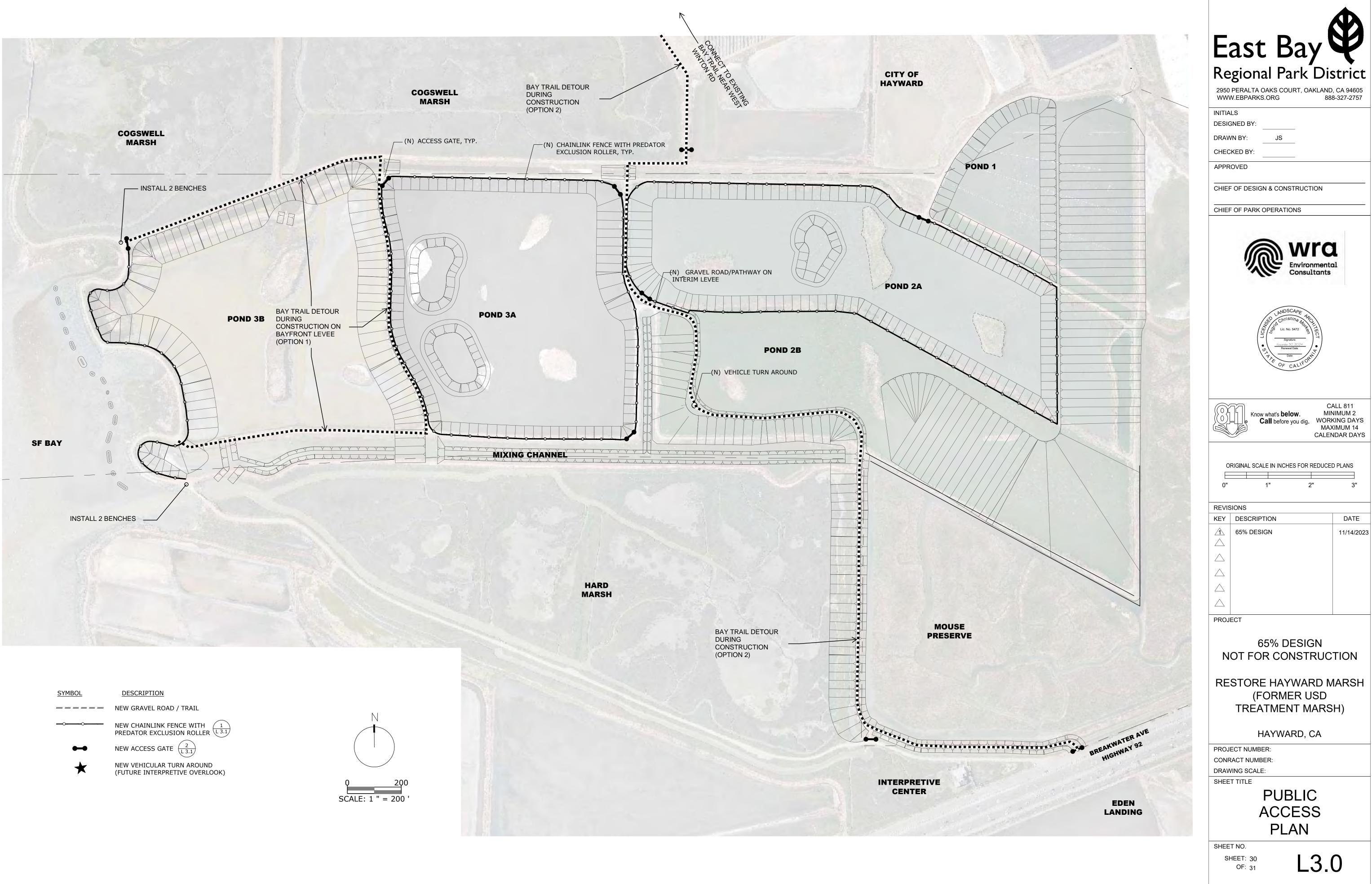
- 1. THE POINT OF CONNECTION(S) FOR THE IRRIGATION SYSTEMS SHALL BE DETERMINED BASED ON FLOW
- 2. A TEMPORARY DRIP OR OTHER TYPE OF APPROVED IRRIGATION SYSTEM SHALL BE USED FOR THE
- UPLAND PLANTINGS. 3. A TEMPORARY SPRAY OR OTHER APPROVED TYPE OF IRRIGATION SYSTEM SHALL BE USED FOR THE
- TRANSITION ZONE AND MUTED TIDAL MARSH PLANTINGS IF NECESSARY AND FEASIBLE. 4. THE IRRIGATION SYSTEMS SHALL BE INSTALLED AND OPERABLE PRIOR TO PLANT INSTALLATION UNLESS
- OTHERWISE APPROVED BY THE OWNER'S REPRESENTATIVE. 5. THE IRRIGATION SCHEDULES SHALL BE DETERMINED BASED ON LOCAL RAINFALL AND
- EVAPOTRANSPIRATION DATA. THE INTENT OF THE IRRIGATION SYSTEMS IS TO PROVIDE THE MINIMUM AMOUNT OF WATER TO SUSTAIN GOOD PLANT HEALTH.

AND PRESSURE REQUIREMENTS AND GENERAL FEASIBILITY IN COORDINATION WITH THE DISTRICT.

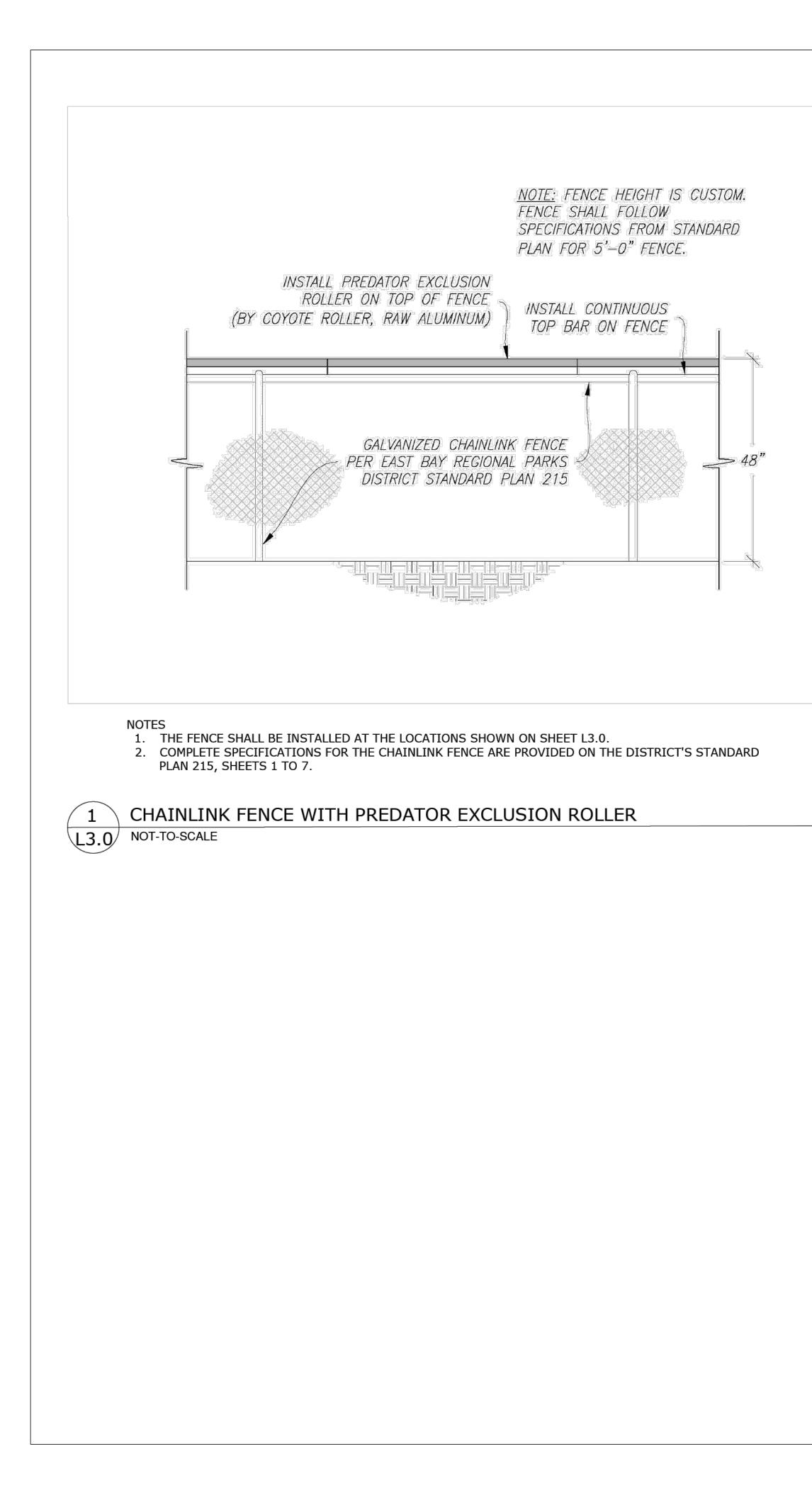


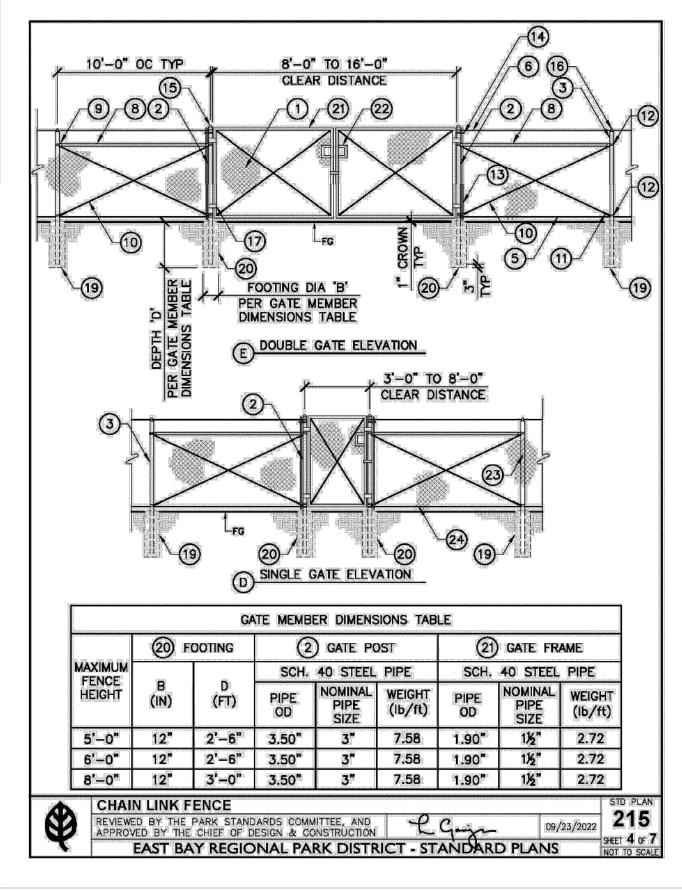
SHEET NO. SHEET: 29 OF: 31

L2.0



# 2950 PERALTA OAKS COURT, OAKLAND, CA 94605 WWW.EBPARKS.ORG 888-327-2757 nvironmenta Consultants Know what's **below**. **Call** before you dig. **Call** before you dig. MAXIMUM 14 CALENDAR DAYS ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 3" DATE 11/14/2023 65% DESIGN NOT FOR CONSTRUCTION **RESTORE HAYWARD MARSH** (FORMER USD TREATMENT MARSH)





# NOTES

- 1. THE DOUBLE GATE (E) SHALL BE INSTALLED AT THE LOCATIONS SHOWN ON SHEET L3.0.
- 2. COMPLETE SPECIFICATIONS FOR THE CHAINLINK FENCE AND GATES ARE PROVIDED ON THE DISTRICT'S STANDARD PLAN 215, SHEETS 1 TO 7.



ACCESS GATE

