ANDRÉE CLARK BIRD REFUGE COASTAL RESTORATION 65% DESIGN

PROJECT LOCATION MAP

PROJECT LOCATION:
1100 E CABRILLO BLVD AND 1414 PARK PL

PROJECT SITE PARKING:
15 STALLS (14 STANDARD/1 ADA) AT ACBR PARKING LOT OFF LOS PATOS WAY TO EAST OF 1100 E CABRILLO BLVD

SCOPE OF WORK:
THE PROJECT CONSISTS OF REPLACEMENT OF THE ANDREE CLARK BIRD REFUGE BIORETENTION BASIN INLET; REPLACE 3 SF (CONSTRUCT RAISED WEIR IN EXISTING CHANNEL TO DIVERT FLOW TO BIORETENTION BASIN). NEW 26 SF (INLET HEADWALL, WINGWALLS, AND FILL AT BIORETENTION BASIN) AND GATE WALLS FOR A NEW IMPERVIOUS AREA OF 29 SF. REMOVE 7 SF (EXISTING MANHOLE COVER WITH PERVIOUS GRATING).

ESTIMATED GRADING:
CUT = 2,400 CY
FILL = 2,360 cy

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ESTIMATED GRADING:
CUT = 2,400 CY
FILL = 2,360 cy
PROJECT NARRATIVE

The project will restore a 30-acre coastal lagoon to improve water quality and wildlife habitat. The project includes the following components:

1. Restoration of a 30-acre coastal lagoon to improve water quality and wildlife habitat.
2. Construction of a low flow water treatment wetland on open space.
3. Construction of a low flow water treatment wetland on open space.
4. Removal of a weir/dam and weir gate at East Caballo Blvd. improving water flow between the lagoon and beach lagoon/ocean.
5. Construct a low flow water treatment wetland on open space.

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5. Construct a low flow water treatment wetland on open space.

The restored wetlands will improve hydrologic condition, connectivity to the ocean, fish, and wildlife habitat.

GENERAL CONSTRUCTION NOTES:

1. CONTRACT DOCUMENTS INCLUDE DRAWINGS AND PROJECT SPECIFICATIONS.
2. CONTRACTOR SHALL PURCHASE ALL MATERIALS AND EQUIPMENT, AND LABOR NEEDED TO COMPLETE WORK AS SPECIFIED ON THE CONTRACT DOCUMENTS.
3. CONTRACTOR SHALL PURCHASE ALL MATERIALS AND EQUIPMENT, AND LABOR NEEDED TO COMPLETE WORK AS SPECIFIED ON THE CONTRACT DOCUMENTS.
4. ANY BACKFILL, NOT OTHERWISE DESCRIBED ON THE CONTRACT DOCUMENTS, SHALL BE PLACED WITH A MAXIMUM FILL DEPTH OF 18". THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSURING THAT THE GREEN COLORS CONFORM TO THE COLORTEC SPECIFICATIONS.
5. CONTRACTOR AND ITS EMPLOYEES SHALL PROVIDE SAFETY TRAINING FOR THE WORK CONCONDoc PRIOR TO PROCEEDING WITH THE PROJECT.
6. THE AREAS OF THE JOB SITE DISTURBED BY THE WORK SHALL BE GRADED SMOOTH TO THE PRE-CONSTRUCTION GRADE, ACCORDING TO THE BEST SKILLS AND ATTENTION TO DETAIL.
7. ALL MATERIALS SHALL BE NEW AND UNDAMAGED, UNLESS OTHERWISE APPROVED BY THE CONTRACTING OFFICER.
8. CONTRACTOR SHALL FILL, OVERTOP, AND FLOW TO THE OCEAN.
9. CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY INDICATED OTHERWISE.
10. CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY INDICATED OTHERWISE.
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13. REPRESENTATIONS OF TRUE NORTH SHALL NOT BE USED TO DETERMINE THE Bearing OF TRUE NORTH AT THIS PROJECT LOC.
NOTES:

1. HORIZONTAL DATUM: CALIFORNIA STATE PLANE ZONE V, NORTH AMERICAN DATUM (NAD83), U.S. SURVEY FEET
2. VERTICAL DATUM: NATIONAL GEODETIC VERTICAL DATUM OF 1929, FEET.
3. SEE DRAWING G-2 FOR ADDITIONAL SURVEY NOTES AND LEGEND

TREE NOTE:

NOT ALL TREES SHOWN IN PLANS. ONLY TREES TO BE REMOVED OR PROTECTED IN PLACE ARE PRESENTED.
Know what's below. Call before you dig.
CENTRAL AND NORTHEAST HABITAT LOBES

LEGEND
- EXISTING CONTOURS (1' & 5' INTERVALS)
- ELEV AT OR BELOW PROPOSED HIGH CREST ELEV
- PROPOSED ELEMENT GRADING EXTENT
- PARCEL BOUNDARY
- TURBIDITY CURTAIN
- SANDBAG SEDIMENT BARRIER

VEGETATED BIO-RETENTION BASIN

PROPOSED INLET STRUCTURE FROM EXISTING STORM CHANNEL

EXISTING STORM CHANNEL

PROPOSED OUTLET STRUCTURE TO EXISTING STORM CHANNEL

MUNICIPAL TENNIS COURTS

SILT FENCE

SANDBAG SEDIMENT BARRIER

DOUBLE CULVERT TO LAKE
TURBIDITY CURTAIN NOTES:
1. AROUND PILE DRIVING AREAS AND EXISTING PILE REMOVAL AREAS,
   LENGTH OF CURTAIN SHALL EXTEND TO MUDLINE FOR ALL TIDE
   LEVELS.
2. ALL OTHER AREAS, WHERE DEBRIS FROM DEMOLITION WORK MAY
   ENTER OCEAN, THE LENGTH OF CURTAIN SHALL BE 6 FEET.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE
   TURBIDITY CURTAIN TO MAINTAIN FUNCTIONALITY OF THE
   TURBIDITY CURTAIN THROUGHOUT ALL TIDAL CONDITIONS AND
   WEATHER EXPECTED DURING THE CONSTRUCTION PERIOD.
4. SEE SPECIFICATIONS FOR MATERIAL REQUIREMENTS.

FILTER FABRIC MATERIAL
36" WIDE ROLLS

SILT FENCE NOTES:
1. BURY BOTTOM OF FILTER FABRIC 4" VERTICALLY BELOW
   FINISHED GRADE.
2. 2 x 2" OR 6" PAIR OF STEEL FENCE POSTS.
3. INSTALL BURIED LOOPS TO BE INSTALLED DOWNHILL SIDE OF
   SLOPE.
4. COMPACT ALL AREAS OF FILTER FABRIC TRENCH.

STABILIZED CONSTRUCTION ENTRANCE

INSTALL DRIVEWAY CULVERT & ROADSIDE DITCH PRESENT

IT IS RECOMMENDED THAT THE ENTRANCE BE CROWNED SO THAT
RUNOFF DRAINS OFF THE PAD

Provides full width of ingress/egress area

4" QUARRY SPALLS

5" 12" 8" (4x4) 12" MIN. THICKNESS

INSTALL GEOTEXTILE (NON-WOVEN, 4 OZ. MIN.)

15' MIN.

25' MIN.
PLACEHOLDER – TO BE POPULATED AT 90%

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NO BATHYMETRIC DATA AVAILABLE IN THIS AREA

LAKE OUTLET

MATCHLINE DWG X-1.1

MATCHLINE DWG X-1.3

MATCHLINE DWG X-1.8

MATCHLINE DWG X-1.9

SCALE: 1" = 30'

NOTES:
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2. VERTICAL DATUM: NATIONAL GEODETIC VERTICAL DATUM OF 1929, FEET
3. REFER TO EXISTING CONDITIONS PLANS (SHEETS V-1.1 THROUGH V-1.9) FOR EXISTING CONDITION PLANS
4. SEE DRAWING L-1.1 TO L-1.8 FOR FENCING, PLANTING, AND HABITAT DESIGN.

TREE NOTE: NOT ALL TREES SHOWN IN PLANS.
ONLY TREES TO BE REMOVED OR PROTECTED IN PLACE ARE PRESERVED.
Know what's below. Call before you dig.

DIAGRAMS:
- ANDRÉE CLARK BIRD REFUGE
- COASTAL RESTORATION
- GRADING AND CONST. MAT. PLAN (3 OF 9)

LEGEND:
- EXISTING CONTOURS (1' & 5' INTERVALS)
- ELEV AT OR BELOW PROPOSED WEIR CREST ELEV
- PARCEL BOUNDARY
- LIMIT OF GRAVING
- PROPOSED CONTOURS (1' & 5' INTERVALS)
- PROPOSED CORR LOG
- PROPOSED WETLAND SOILS
- PROPOSED SANDSTONE BOULDERS FOR TURTLE BASKING, TYP
- TREE TO BE PROTECTED IN PLACE
- TREE TO BE REMOVED

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3. REFER TO EXISTING CONDITIONS PLANS (SHEETS V-1.1 THROUGH V-1.9) FOR EXISTING CONDITION PLANS
4. SEE DRAWING G-2 FOR ADDITIONAL SURVEY NOTES AND LEGEND
5. SEE DRAWINGS L-1.1 TO L-1.8 FOR FENCING, PLANTING, AND HABITAT DESIGN.
NOTES:
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LEGEND
EXISTING CONTOURS (1' & 5' INTERVALS)
EXISTING HEIR AT OR BELOW PROPOSED WEIR CRETE ELEV
PARCEL BOUNDARY
LIMIT OF GRADE
PROPOSED COIR LOG
PROPOSED WETLAND SOILS
TREE TO BE REMOVED

Easter Note: NOT ALL TREES SHOWN IN PLANS.
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SCALE:
1" = 30'

DRAFT 65%
5

Know what's below. Call before you dig.

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**Notes:**

3. Refer to existing conditions plans (sheets V-1.1 through V-1.9) for existing condition plans.
4. See drawing G-2 for additional survey notes and legend.
5. See drawings L-1.1 to L-1.8 for fencing, planting, and habitat design.
NOTES:
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5. SEE DRAWINGS L-1.1 TO L-1.8 FOR FENCING, PLANTING, AND HABITAT DESIGN.
NOTES:
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4. SEE DRAWING G-2 FOR ADDITIONAL SURVEY NOTES AND LEGEND
5. SEE DRAWINGS L-1.1 TO L-1.8 FOR FENCING, PLANTING, AND HABITAT DESIGN
WOODEN PLANK BIRD-WATCHING PLATFORM, ELEV 6.01'
FOOTPATH (APPROX. 2' W)
CULVERT OUTLET CHANNEL TO LAKE (TOE ELEV APPROX. 3', TOP ELEV APPROX. 5.5')
WOODEN FOOT BRIDGE, DECK ELEV 7.60'
CHANNEL OUTLET FROM HWY 101 CULVERT
GATE IN CL FENCE
EXISTING VIEWING PLATFORM

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3. REFER TO EXISTING CONDITIONS PLANS (SHEETS V-1.1 THROUGH V-1.9) FOR EXISTING CONDITION PLANS.
4. SEE DRAWING S-1.1 FOR ADDITIONAL SURVEY NOTES AND LEGEND.
5. SEE DRAWINGS G-1.1 TO G-1.6 FOR FENCING, PLANTING, AND HABITAT DESIGN.

LEGEND
EXISTING CONTOURS (1' & 5' INTERVALS)
PROPOSED CONTOURS (1' & 5' INTERVALS)
PROPOSED BIO-RETENTION SOILS
PROPOSED ROCK TOE BOULDER
TREE TO BE PROTECTED IN PLACE
TREE TO BE REMOVED

TREE NOTE: NOT ALL TREES SHOWN IN PLANS. ONLY TREES TO BE REMOVED OR PROTECTED IN PLACE ARE PRESENTED.
DUNE GRADING NOTE:
EXCAVATED MATERIAL FROM BEACH LAGOON EXPANSION WILL BE USED TO CREATE NEW DUNE PLANFORMS. DUNE ELEVATIONS WILL RANGE FROM 7 TO 10 FEET NGVD29. LOCATIONS AND EXTENTS TO BE DETERMINED IN THE FIELD.

CONSTRUCT TO APPROXIMATE GRADE

EXISTING GRADE

CONSTRUCT TO APPROXIMATE GRADE

EXISTING GRADE

CROSS-SECTION: BEACH CHANNEL AND DUNE

CROSS-SECTION: BEACH DUNE

LEGEND

- Existing Grade
- Construct to Approximate Grade
Know what's below before you dig. Call before you dig.
STRUCTURAL NOTES

1. THE REFERENCE SPECIFICATIONS FOR THIS PROJECT WILL BE THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 2018 EDITION, REFERRED TO IN THESE NOTES AND THE CONTRACT DOCUMENTS AS "SSPWC".

2. CONCRETE ANCHORS SHALL BE INSTALLED IN STRICT CONFORMANCE WITH MANUFACTURER'S RECOMMENDATIONS, IN SOUND MATERIAL, WITH NO LESS THAN THE MINIMUM EMBEDMENT SPECIFIED BY THE MANUFACTURER.

3. CONCRETE: ALL CONCRETE MIX DESIGNS SHALL BE CERTIFIED BY A 2. CONCRETE TESTING LABORATORY AND STAMPED AND SIGNED BY A PROFESSIONAL CIVIL ENGINEER LICENSED IN THE STATE OF CALIFORNIA.
   1. f'c = 5000 psi @ 28 DAYS, CONFORMING TO ASTM C94
   2. WATER-CEMENT RATIO = 0.42 MIN.
   3. PRIOR TO PLACEMENT OF CONCRETE, ENGINEER SHALL INSPECT EXCAVATION AND PLACEMENT OF REBAR.

4. REINFORCING BARS:
   A. ASTM-A615, GRADE 60
   B. ALL BARS TO BE EPOXY COATED PER ASTM A950 AND A775

5. STEEL:
   A. STRUCTURAL STEEL SHALL CONFORM TO STANDARD SPECIFICATIONS FOR STRUCTURAL STEEL FOR BRIDGES AND BUILDINGS, ASTM A572, UNLESS NOTED OTHERWISE.
   B. FABRICATION AND ERECTION SHALL COMPLY WITH THE LATEST AISC SPECIFICATIONS.
   C. ALL DIMENSIONS SHALL BE FIELD VERIFIED PRIOR TO FABRICATION OR ERECTION.
   D. ALL STEEL SHALL HAVE HOT-DIPPED GALVANIZED FINISH, UNLESS NOTED OTHERWISE.
   E. ALL EXPANSION ANCHORS USED FOR THIS PROJECT SHALL BE STAINLESS STEEL, TYPE 316.

6. ALUMINUM:
   A. ALUMINUM SHAPES SHALL BE EXTRUDED FROM 6061-T6 OR 6063-T6 UNLESS OTHERWISE NOTED.
   B. ALL FASTENERS SHALL BE STAINLESS STEEL.

7. WELDING:
   A. WELD LENGTHS SHOWN ARE EFFECTIVE LENGTH PER CODE. WHERE LENGTHS ARE NOT SHOWN, THE WELD SHALL BE FULL LENGTH OF JOINT. IN ADDITION TO INDICATED STRUCTURAL WELDS, ALL CONNECTED PARTS SHALL BE SEAL-WELDED, ALL-AROUND, A MINIMUM OF 1/8" FILLET WELDS.
   B. ALL WELDERS SHALL BE CERTIFIED TO THE SATISFACTION OF THE GOVERNING JURISDICTION.
   C. ALL WELDING REQUIREMENTS SHOWN OR INDICATED ON THE DRAWINGS MAY BE FIELD OR SHOP WELDED AS REQUIRED FOR EFFICIENT ERECTION BY CERTIFIED WELDERS, SUBJECT TO THE APPROVAL OF THE ENGINEER.
BIO-RETENTION INLET AND OUTLET STRUCTURE NOTE:
REINFORCEMENT AND ADDITIONAL DETAIL TO BE PROVIDED AT 90% DESIGN.
Know what's below.
Call before you dig.
Know what's below. Call before you dig.
NOTES:
1. REFER TO L-2 FOR PLANTING SCHEDULE.
2. HORIZONTAL DATUM: CALIFORNIA STATE PLANE ZONE V, NORTH AMERICAN DCTM (INCHES), V.S. SURVEY FEET.
3. VERTICAL DATUM: NATIONAL GEODETIC VERTICAL DATUM OF 1929, FEET.
4. REFER TO EXISTING CONDITIONS PLANS (SHEETS V-1.1 THROUGH V-1.9) FOR EXISTING CONDITION PLANS.

LEGEND
- EXISTING CONTOURS (1' & 5' INTERVALS)
- ELEV AT OR BELOW PROPOSED WEIR CREST ELEV
- PARCEL BOUNDARY
- PROPOSED CONTOURS (1' & 5' INTERVALS)
- PROPOSED WOODEN POSTS AND ROPE BARRIER
- SALT MARSH
- WILLOW SCRUB
- WOODLAND
- COASTAL SAGE SCRUB
- EXISTING TURF TO REMAIN

BOTANICAL NAME COMMON NAME
Platanus racemosa Western Sycamore
Populus trichocarpa Black Cottonwood
Quercus agrifolia Coast Live Oak
Sambucus mexicanus Mexican Elderberry
Umbellularia californica Bay Laurel

Call before you dig.
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Know what's below. Call before you dig.
**Know what's **

**below.**

**before you dig.**

Call **R**

**ARE APPROXIMATE**

**PROPERTY LINES**

**EXISTING CONTOURS (1' & 5' INTERVALS)**

**LIMIT OF GRADING**

**TREE TO BE PROTECTED IN PLACE**

**TREE TO BE REMOVED**

**TREE NOTE: NOT ALL TREES SHOWN IN PLANS. ONLY TREES TO BE REMOVED OR PROTECTED IN PLACE ARE PRESENTED.**

**NOTES:**

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2. **VERTICAL DATUM: NATIONAL GEODETIC VERTICAL DATUM OF 1929, FEET.**
3. **REFER TO EXISTING CONDITIONS PLANS (SHEETS V-1.1 THROUGH V-1.9) FOR EXISTING CONDITION PLANS.**
4. **PLANT LOCATION SHALL BE FIELD-DIRECTED BY OWNER PRIOR TO INSTALLATION.**
5. **REFER TO L-2 FOR PLANTING SCHEDULE (CONTAINER SIZE, SPACING, AND QUANTITIES).**
6. **THE SEED MIX AT THE BIO-RETENTION BASIN AREA WILL BE A HYDROSEED APPLICATION.**
<table>
<thead>
<tr>
<th>SYMBOL</th>
<th>HABITAT/COMMUNITY</th>
<th>SPECIES NAME</th>
<th>COMMON NAME</th>
<th>CONTAINER OR SEED</th>
<th>CONTAINER SIZE</th>
<th>SPACING</th>
<th>SEED LBS/AC</th>
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<td><strong>COASTAL RESTORATION</strong></td>
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<td></td>
<td><em>Sisyrinchium bellum</em></td>
<td>Blue Eyed Grass</td>
<td>Container</td>
<td>4 in × 3' O.C.</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>Ac</td>
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<td><em>Lupinus succulentus</em></td>
<td>Succulent Lupine</td>
<td>Container</td>
<td>1 gal × 5' O.C.</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>Ac</td>
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<td><em>Eschscholzia californica</em></td>
<td>California Poppy</td>
<td>Container</td>
<td>2 gal × 5' O.C.</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>Ac</td>
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<td><strong>Container</strong></td>
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<td><em>Phacelia ramosissima</em></td>
<td>Branching Phacelia</td>
<td>Container</td>
<td>1 gal × 5' O.C.</td>
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<td><em>Corethrogyne filaginifolia</em></td>
<td>Seacliff Buckwheat</td>
<td>Container</td>
<td>1 gal × 5' O.C.</td>
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<td><em>Camissoniopsis chieranthifolia</em></td>
<td>Beach Evening Primrose</td>
<td>Container</td>
<td>1 gal × 5' O.C.</td>
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<td>1.5</td>
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</tr>
<tr>
<td></td>
<td></td>
<td><em>Astragalus trichopodus</em></td>
<td>Santa Barbara Milkvetch</td>
<td>Container</td>
<td>1 gal × 5' O.C.</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>Ac</td>
<td>1.5</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td><em>Ambrosia chamissonis</em></td>
<td>Beach Bur</td>
<td>Container</td>
<td>1 gal × 5' O.C.</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>Ac</td>
<td>1.5</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td><em>Abronia umbellata</em></td>
<td>Pink Sand Verbena</td>
<td>Container</td>
<td>1 gal × 5' O.C.</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>Ac</td>
<td>1.5</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td><em>Abronia maritima</em></td>
<td>Red Sand Verbena</td>
<td>Container</td>
<td>1 gal × 5' O.C.</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>Ac</td>
<td>1.5</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td><strong>Container</strong></td>
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<tr>
<td></td>
<td></td>
<td><em>Salvia mellifera</em></td>
<td>Black Sage</td>
<td>Container</td>
<td>1 gal × 5' O.C.</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>Ac</td>
<td>2.5</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td><em>Rhus integrifolia</em></td>
<td>Lemonade Berry</td>
<td>Container</td>
<td>1 gal × 5' O.C.</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>Ac</td>
<td>2.5</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td><em>Quercus dumosa</em></td>
<td>Scrub Oak</td>
<td>Container</td>
<td>1 gal × 5' O.C.</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>Ac</td>
<td>2.5</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td><em>Prunus ilicifolia</em></td>
<td>Hollyleaf Cherry</td>
<td>Container</td>
<td>1 gal × 5' O.C.</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>Ac</td>
<td>2.5</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Container</strong></td>
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<tr>
<td></td>
<td></td>
<td><em>Salix laseolepis</em></td>
<td>Arroyo Willow</td>
<td>Container</td>
<td>1 gal × 5' O.C.</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>Ac</td>
<td>2.5</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td><em>Salix laevigata</em></td>
<td>Red Willow</td>
<td>Container</td>
<td>1 gal × 5' O.C.</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>Ac</td>
<td>2.5</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td><em>Baccharis salicifolia</em></td>
<td>Mulefat</td>
<td>Container</td>
<td>1 gal × 5' O.C.</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>Ac</td>
<td>2.5</td>
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<tr>
<td></td>
<td></td>
<td><strong>Container</strong></td>
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<tr>
<td></td>
<td></td>
<td><em>Sueada taxifolia</em></td>
<td>Malvella leprosa</td>
<td>Container</td>
<td>1 gal × 5' O.C.</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>Ac</td>
<td>2.5</td>
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<tr>
<td></td>
<td></td>
<td><em>Limonium californicum</em></td>
<td>California Heliotrope</td>
<td>Container</td>
<td>1 gal × 5' O.C.</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>Ac</td>
<td>2.5</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td><em>Eriogonum fasciculatum</em></td>
<td>California Fuschia</td>
<td>Container</td>
<td>4 in × 3' O.C.</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>Ac</td>
<td>2.5</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td><em>Artemisia californica</em></td>
<td>California Sagebrush</td>
<td>Container</td>
<td>1 gal × 5' O.C.</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>Ac</td>
<td>2.5</td>
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<tr>
<td></td>
<td></td>
<td><em>Acmispon glaber</em></td>
<td>Deerweed</td>
<td>Container</td>
<td>1 gal × 5' O.C.</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>Ac</td>
<td>2.5</td>
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<td></td>
<td></td>
<td><strong>Container</strong></td>
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<tr>
<td></td>
<td></td>
<td><em>Umbellularia californica</em></td>
<td>Bay Laurel</td>
<td>Container</td>
<td>1 gal × 5' O.C.</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>Ac</td>
<td>2.5</td>
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<td></td>
<td></td>
<td><strong>Container</strong></td>
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<tr>
<td></td>
<td></td>
<td><em>Elymus triticoides</em></td>
<td>Alkali Rye</td>
<td>Container</td>
<td>4 in × 3' O.C.</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>Ac</td>
<td>2.5</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td><em>Eleocharis macrostachya</em></td>
<td>Spike Rush</td>
<td>Container</td>
<td>4 in × 3' O.C.</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>Ac</td>
<td>2.5</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td><em>Bolboschoenus maritimus</em></td>
<td>Alkali Bulrush</td>
<td>Container</td>
<td>4 in × 3' O.C.</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>Ac</td>
<td>2.5</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td><strong>Container</strong></td>
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<tr>
<td></td>
<td></td>
<td><em>Anemopsis californica</em></td>
<td>Yerba Mansa</td>
<td>Container</td>
<td>4 in × 3' O.C.</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>Ac</td>
<td>2.5</td>
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<tr>
<td></td>
<td></td>
<td><strong>Container</strong></td>
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<td></td>
<td></td>
<td><strong>Total Plant</strong></td>
<td></td>
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</tr>
</tbody>
</table>
### BACKDUNE

<table>
<thead>
<tr>
<th>Species Name</th>
<th>Common Name</th>
<th>Container</th>
<th>Spacing</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>SEED MIX</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Astragalus trichopodus</td>
<td>Santa Barbara Milkvetch</td>
<td>1 gal</td>
<td>5' O.C.</td>
</tr>
<tr>
<td>Atriplex leucophylla</td>
<td>Sea Scale</td>
<td>4 in</td>
<td>3' O.C.</td>
</tr>
<tr>
<td>Corethogynne filaginifolia</td>
<td>Common Sandaster</td>
<td>1 gal</td>
<td>5' O.C.</td>
</tr>
<tr>
<td>Elodea canadensis</td>
<td>Water Hyssop</td>
<td>4 in pot</td>
<td>3' O.C.</td>
</tr>
<tr>
<td>Phacelia ramosissima</td>
<td>Branching Phacelia</td>
<td>1 gal</td>
<td>5' O.C.</td>
</tr>
</tbody>
</table>

### FOREDUNE

<table>
<thead>
<tr>
<th>Species Name</th>
<th>Common Name</th>
<th>Container</th>
<th>Spacing</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>SEED MIX</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Abronia umbellata</td>
<td>Red Sand Verbena</td>
<td>1 gal</td>
<td>5' O.C.</td>
</tr>
<tr>
<td>Corethogynne filaginifolia</td>
<td>Common Sandaster</td>
<td>1 gal</td>
<td>5' O.C.</td>
</tr>
<tr>
<td>Eriogonum parvifolium</td>
<td>Seacliff Buckwheat</td>
<td>4 in pot</td>
<td>3' O.C.</td>
</tr>
<tr>
<td>Phacelia ramosissima</td>
<td>Branching Phacelia</td>
<td>1 gal</td>
<td>5' O.C.</td>
</tr>
</tbody>
</table>

### UPPER MARSH

<table>
<thead>
<tr>
<th>Species Name</th>
<th>Common Name</th>
<th>Container</th>
<th>Spacing</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>SEED MIX</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Abronia umbellata</td>
<td>Red Sand Verbena</td>
<td>1 gal</td>
<td>5' O.C.</td>
</tr>
<tr>
<td>Corethogynne filaginifolia</td>
<td>Common Sandaster</td>
<td>1 gal</td>
<td>5' O.C.</td>
</tr>
<tr>
<td>Baccharis salicifolia</td>
<td>Mulefat</td>
<td>1 gal</td>
<td>5' O.C.</td>
</tr>
<tr>
<td>Salix laevigata</td>
<td>Red Willow</td>
<td>1 gal</td>
<td>10' O.C.</td>
</tr>
<tr>
<td>Salix laesoelepis</td>
<td>Arroyo Willow</td>
<td>1 gal</td>
<td>10' O.C.</td>
</tr>
</tbody>
</table>

### LOWER MARSH

<table>
<thead>
<tr>
<th>Species Name</th>
<th>Common Name</th>
<th>Container</th>
<th>Spacing</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>SEED MIX</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Antennaria californica</td>
<td>Red Sand Verbena</td>
<td>1 gal</td>
<td>5' O.C.</td>
</tr>
<tr>
<td>Corethogynne filaginifolia</td>
<td>Common Sandaster</td>
<td>1 gal</td>
<td>5' O.C.</td>
</tr>
<tr>
<td>Baccharis salicifolia</td>
<td>Mulefat</td>
<td>1 gal</td>
<td>5' O.C.</td>
</tr>
<tr>
<td>Salix laevigata</td>
<td>Red Willow</td>
<td>1 gal</td>
<td>10' O.C.</td>
</tr>
<tr>
<td>Salix laesoelepis</td>
<td>Arroyo Willow</td>
<td>1 gal</td>
<td>10' O.C.</td>
</tr>
</tbody>
</table>

### WILLOW SCRUB WEST SHORELINE

<table>
<thead>
<tr>
<th>Species Name</th>
<th>Common Name</th>
<th>Container</th>
<th>Spacing</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>SEED MIX</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Baccharis salicifolia</td>
<td>Mulefat</td>
<td>1 gal</td>
<td>5' O.C.</td>
</tr>
<tr>
<td>Salix laevespertis</td>
<td>Amropo Willow</td>
<td>1 gal</td>
<td>10' O.C.</td>
</tr>
</tbody>
</table>

### WILLOW SCRUB NORTH SHORELINE

<table>
<thead>
<tr>
<th>Species Name</th>
<th>Common Name</th>
<th>Container</th>
<th>Spacing</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>SEED MIX</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Baccharis salicifolia</td>
<td>Mulefat</td>
<td>1 gal</td>
<td>5' O.C.</td>
</tr>
<tr>
<td>Salix laevigata</td>
<td>Red Willow</td>
<td>1 gal</td>
<td>12' O.C.</td>
</tr>
</tbody>
</table>

### GENERAL DETAIL NOTES:

1. OVERALL DIMENSIONS OF PLANT AREA VARIES. SEE L-1 X SHEETS FOR LIMITS OF PLANTING. REPEAT PLANT SPACING AS NEEDED TO ACHIEVE UNIFORM COVERAGE.
2. PLANT LOCATION SHALL BE FIELD-DIRECTED BY OWNER.
3. BEFORE PLANTING, CONTRACTOR TO PROVIDE 10' X 10' SAMPLE OF PLANTING APPROACH FOR APPROVAL BY RESTORATION ECологIST.
### Upper Marsh

<table>
<thead>
<tr>
<th>Species Name</th>
<th>Common Name</th>
<th>Container</th>
<th>Spacing</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arthrocnemum subterminale</td>
<td>Parish's Glasswort</td>
<td>4 in pot</td>
<td>3' O.C.</td>
</tr>
<tr>
<td>Distichlis littoralis</td>
<td>Shoregrass</td>
<td>4 in pot</td>
<td>3' O.C.</td>
</tr>
<tr>
<td>Juncus ensifolius</td>
<td>Spiny Rush</td>
<td>1 gal</td>
<td>5' O.C.</td>
</tr>
<tr>
<td>Suaeda taxifolia</td>
<td>Woody Sea Blite</td>
<td>1 gal</td>
<td>5' O.C.</td>
</tr>
</tbody>
</table>

### Mid Marsh

<table>
<thead>
<tr>
<th>Species Name</th>
<th>Common Name</th>
<th>Container</th>
<th>Spacing</th>
</tr>
</thead>
<tbody>
<tr>
<td>Batis maritima</td>
<td>Salt Wort</td>
<td>4 in pot</td>
<td>3' O.C.</td>
</tr>
<tr>
<td>Limonium californicum</td>
<td>Marini Rosemary</td>
<td>4 in pot</td>
<td>3' O.C.</td>
</tr>
</tbody>
</table>

### Seed Mix

- Centromadia paryii australis (Southern Tarplant)
- Helianthus annuus (Sesame Helianthus)
- Malva lespidea (Alkali Mallow)

### General Detail Notes:

1. **Overall Dimensions of Plant Area Varies.** See L-1.X sheets for limits of plantings. Repeat plant spacing as needed to achieve uniform coverage.
2. **Plant Location Shall Be Field-Directed by Owner.**
3. **Before Planting, Contractor to Provide 10'x10' Sample of Planting Approach for Approval by Restoration Ecologist.**
**COASTAL SLOPE PLANTING DETAIL**

- **CONTAINERIZED TREE OR SHRUB (TYP) SET ROOT CROWN AT 1" ABOVE FINISHED GRADE**
- **SHRUB PLANTING PIT PREPARATION = ROOTBALL DEPTH & WIDTH PLUS 1'-0" ALL SIDES FINISH GRADE (SEE NOTE 1)**
- **PREPARED SOIL, REFER TO SPECS**
- **NOTE: INSTALL 3" MULCH FOLLOWING INSTALLATION IN ALL PLANTING AREAS EXCEPT SALT MARSH AND DUNES**
- **NOTE: SHAPE SOIL TO PROVIDE 3-FOOT DIAMETER OR ROOTBALL DIAMETER (WHICHEVER IS GREATER) WATERING RING.**
- **NOTE: NON-BIOGRADABLE MATERIAL SHALL BE COMPLETELY REMOVED.**
- **NOTE: INSTALL JUTE FABRIC OVER ENTIRE PLANTING AREA WITH SLOPE 4:1 OR STEEPER. AVOID EXISTING TREES AND EXISTING STUMPS.**
- **NOTE: JUTE FABRIC SHALL BE ROLLED IN A CONTROLLED FASHION. INSTALL 2" X 2" X 12" WOOD STAKES AS MAT IS UNROLLED. FABRIC SHALL NOT BE ALLOWED TO ROLL DOWN THE SLOPE ON ITS OWN.**

**1 AND 5 GALLON PLANTING**

- **2' X 2' WOOD STAKES 30° LONG BOTH SIDES AT 4'-0"**
- **IMPORTED TOPSOIL**

**3" MULCH DEPTH TAPERED AT TRUNK (SEE NOTE 1)**

**TREE OR SHRUB PLANTING AS SPECIFIED**

**SET ALL PLANTS PLUMB**

**BACKFILL WITH TOPSOIL 2:1 MAX**

**EXISTING GRADE (REFER TO GRADING PLANS)**

**PROPOSED GRADE (REFER TO GRADING PLANS)**

**INSTALL JUTE FABRIC ON 4:1 OR STEEPER SLOPES (SEE FIGURE 5, THIS SHEET)**

**JUTE FABRIC INSTALLATION, TOP OF SLOPE ISOMETRIC VIEW**

**NOTES:**
1. SLOPE SURFACE SHALL BE FREE OF ROCKS, CLods, STICKS AND GRASS. MATS/BLEANKETS SHALL HAVE GOOD SOIL CONTACT.
2. LAY BLANKETS LOOSELY AND STAKE TO MAINTAIN DIRECT CONTACT WITH THE SOIL, DO NOT STRETCH.
3. MATS/BLEANKETS SHOULD BE INSTALLED VERTICALLY DOWN THE SLOPE.
4. INSTALL JUTE MAT OVER ENTIRE PLANTING AREA WITH SLOPE 4:1 OR STEEPER. AVOID EXISTING TREES AND EXISTING STUMPS.
5. JUTE FABRIC SHALL BE ROLLED IN A CONTROLLED FASHION. INSTALL 2" X 2" X 12" WOOD STAKES AS MAT IS UNROLLED. FABRIC SHALL NOT BE ALLOWED TO ROLL DOWN THE SLOPE ON ITS OWN.