Ballona Creek Trail and Bike Path
Greenway Improvements

PROJECT INFORMATION

PROJECT LOCATION:
Planting areas along Ballona Creek Trail and Bike Path between Sepulveda Blvd and 4th Freeway.

SCOPE OF WORK:
Improvement of existing planting beds along Ballona Creek Trail and Bike Path located between Sepulveda Blvd and 4th Freeway, including native plant selection, planting, and installation of signage.

VICINITY MAP

ABBREVIATIONS

INDEX OF DRAWINGS

<table>
<thead>
<tr>
<th>DRAWING NUMBERS</th>
<th>DRAWING DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>S-101</td>
<td>SURVEY (for reference only)</td>
</tr>
<tr>
<td>L-101 - L-103</td>
<td>DEMOLITION PLAN</td>
</tr>
<tr>
<td>L-201 - L-203</td>
<td>SITE PLAN</td>
</tr>
<tr>
<td>L-300 - L-304</td>
<td>IRRIGATION PLAN</td>
</tr>
<tr>
<td>L-401 - L-403</td>
<td>PLANTING PLAN</td>
</tr>
<tr>
<td>L-404</td>
<td>PLANTING NOTES &amp; LEGEND</td>
</tr>
</tbody>
</table>

REVISED:
1.1.10.12 Revision
1.5.12.12 Revision
1.6.12.12 Revision

DATE:
12-20-2010

DRAWN:
MG
CHECKED:
LB
PROJECT:
1014-F10
SCALE:
1:800

G-101
1 OF 19
TREE PROTECTION NOTES
1. NO EXCAVATING FENCES SHALL BE REMOVED EXCEPT THOSE SPECIFICALLY NOTED ON EXCAVATION PLANS.
2. NO EQUIPMENT SHALL BE OPERATED OR PARKED UNDER A TREE. NO MATERIAL SHALL BE STORED WITHIN THE EXCOVE OF ANY EXISTING TREE OR LEAVES AGAINST A TREE. NO WORK SHALL BE STOOD OFF OR CONSTRUCTED WITHIN THE DRIPE OF ANY TREE.
3. SOIL SURFACES WITHIN THE TREE DRIPE FROM AREAS OF CONSTRUCTION SHALL BE PROTECTED WITH THREE INCHES OF MULCH OR OVERLAPPING 4-PI'ECE PLASTIC SHEETING.
4. SURFACE DRAINAGE SHALL NOT BE INSTALLED WITHIN THE DRYM OF A TREE EXCEPT FOR PERMANENT DRAINAGE DESIGNED FOR PLANT ESTABLISHMENT.

GENERAL NOTES
1. CONTRACTOR SHALL INSTALL ALL IMPROVEMENTS IN ACCORDANCE WITH STATE OF CALIFORNIA AND COUNTY OF LOS ANGELES REQUIREMENTS. IN CASE OF CONFLICT OR INSUFFICIENCY BETWEEN THESE PLANS AND THE GOVERNING AGENCY'S REQUIREMENTS, THE MOST STRINGENT REQUIREMENT WILL APPLY.
2. CONTRACTOR SHALL VISIT THE SITE AND NOTIFY ALL CONCERNS PRIOR TO SUBMITTING A PROPOSAL OF COST FOR CONSTRUCTION.
3. CONTRACTOR SHALL KEEP TRUE, REAL, AND COMPLETE RECORDS AND WRITING ANY DISCREPANCIES TO THE ATTENTION OF THE LANDSCAPE ARCHITECT AND OWNER'S REPRESENTATIVE IMMEDIATELY UPON DISCOVERY.
4. CONTRACTOR SHALL BE APPROVED IN WRITING BY THE OWNER PRIOR TO COMPLETION OF WORK.
5. IT IS THE RESPONSIBILITY OF THE SUBCONTRACTORS TO HONOR THEIR AGREEMENTS WITH ALL CODES, STANDARDS, LOCATION OF WAYS, UTILITIES, SEWER/WATER LINES, ETC., AND PERMITS, TO COORDINATE WORK WITH OTHER SUBCONTRACTORS FOR THE LOCATION AND INSTALLATION OF PIPES, UTILITIES, LIGHTING, FENCES, ETC., TO AVOID DAMAGE TO EXISTING UTILITY LINES OR OTHER EXISTING UTILITY MACHINERY.
6. ALL REQUIREMENTS OF THE DRAINAGE ASSOCIATION, SPEIC, AND GREENBOOK DOCUMENTS APPLY TO THE WORK SPECIFIED IN THE CONTRACT REQUIREMENTS OF THE CONTRACT.
7. CONTRACTOR SHALL COMPLY WITH ALL LAWS, ORDINANCES, CODES, AND REGULATIONS GOVERNING THE INSTALLATION OF IMPROVEMENTS TO THE PROJECT.
8. CONTRACTOR SHALL NOTIFY THE OWNER 48 HOURS PRIOR TO BEGINNING CONSTRUCTION.
9. CONTRACTOR TO COORDINATE A PRE-CONSTRUCTION MEETING ON SITE 48 HOURS PRIOR TO START OF CONSTRUCTION, WITH OWNER, LANDSCAPE ARCHITECT, AND ALL SUB-CONTRACTORS.
10. CONTRACTOR TO SURVEY REQUIRED NUMBERS OF CONSTRUCTION ITEMS AND SUBMIT HIS SURVEY TO THE LANDSCAPE ARCHITECT AND OWNER'S REPRESENTATIVE AT LEAST 48 HOURS PRIOR TO THE DATE AND TIME PROPOSED.
11. CONTRACTOR TO AVOID DAMAGE TO EXISTING UTILITY LINES OR OTHER EXISTING UTILITY MACHINERY, PROVIDE 48 HOURS NOTICE TO OWNER PRIOR TO INSTALLATION.
12. CONTRACTOR TO INSTALL ALL MATERIALS IN ACCORDANCE WITH THE ORIGINAL CONTRACT DOCUMENTS.
13. CONTRACTOR TO NOTIFY THE OWNER 48 HOURS PRIOR TO BEGINNING CONSTRUCTION.
14. CONTRACTOR TO PROVIDE SUB-OPTIONAL SERVICES AS NEEDED TO THE OWNER AND LANDSCAPE ARCHITECT.
15. CONTRACTOR TO AVOID DAMAGE TO EXISTING UTILITY LINES OR OTHER EXISTING UTILITY MACHINERY, PROVIDE 48 HOURS NOTICE TO OWNER PRIOR TO INSTALLATION.

CONSTRUCTION NOTES
1. CONTRACTOR TO PROVIDE QUESTIONS REGARDING THE PLAN TO THE PROJECT MANAGER PRIOR TO PROPOSING.
2. CONTRACTOR TO PROVIDE QUESTIONS REGARDING THE PLAN TO THE PROJECT MANAGER PRIOR TO PROPOSING.
3. CONTRACTOR TO PROVIDE QUESTIONS REGARDING THE PLAN TO THE PROJECT MANAGER PRIOR TO PROPOSING.
4. CONTRACTOR TO PROVIDE QUESTIONS REGARDING THE PLAN TO THE PROJECT MANAGER PRIOR TO PROPOSING.
5. CONTRACTOR TO PROVIDE QUESTIONS REGARDING THE PLAN TO THE PROJECT MANAGER PRIOR TO PROPOSING.
6. CONTRACTOR TO PROVIDE QUESTIONS REGARDING THE PLAN TO THE PROJECT MANAGER PRIOR TO PROPOSING.

GENERAL NOTES
1. CONTRACTOR TO PROVIDE QUESTIONS REGARDING THE PLAN TO THE PROJECT MANAGER PRIOR TO PROPOSING.
2. CONTRACTOR TO PROVIDE QUESTIONS REGARDING THE PLAN TO THE PROJECT MANAGER PRIOR TO PROPOSING.
3. CONTRACTOR TO PROVIDE QUESTIONS REGARDING THE PLAN TO THE PROJECT MANAGER PRIOR TO PROPOSING.
4. CONTRACTOR TO PROVIDE QUESTIONS REGARDING THE PLAN TO THE PROJECT MANAGER PRIOR TO PROPOSING.
5. CONTRACTOR TO PROVIDE QUESTIONS REGARDING THE PLAN TO THE PROJECT MANAGER PRIOR TO PROPOSING.
6. CONTRACTOR TO PROVIDE QUESTIONS REGARDING THE PLAN TO THE PROJECT MANAGER PRIOR TO PROPOSING.
Existing LACFCD BALLONA CREEK

NOTE: MAINTAIN EXISTING SURFACE MATERIAL BETWEEN EXISTING ASPHALT SHOULDER AND NEW PROPOSED PLANTING. MINIMUM WIDTH: 2'-0" PLUS 4'-0" MAX. UNLESS OTHERWISE INSTRUCTED BY PROJECT LANDSCAPE ARCHITECT, PATHWAY TO SLOPE AT A MINIMUM OF 2% AWAY FROM ASPHALT EDGE TOWARDS PLANTING AREA. REGIONS WITH EXCAVATED SIDE FROM PLANTING PITS (AS REQUIRED) AND COMPACT TO 0% RELATIVE COMPACITION IN ORDER TO CREATE SMOOTH TRANSITION BETWEEN ASPHALT AND DIRT PATHWAY.

Station 198 + 52.78

Station 201 + 00

Note: Stations are copied from L.A. County Flood Control District as-built No. 17-T69-1 and No. 17-T6.
**IRRIGATION NOTES**

**IRRIGATION SCHEDULE**

<table>
<thead>
<tr>
<th>SYMBOL</th>
<th>MANUFACTURER/MODEL/DESCRIPTION</th>
<th>CITY</th>
<th>DETAIL</th>
</tr>
</thead>
<tbody>
<tr>
<td>S10</td>
<td>High Pressure 4000 PSI 1177</td>
<td>gly</td>
<td>7.65</td>
</tr>
<tr>
<td>S20</td>
<td>High Pressure 4000 PSI 1177</td>
<td>gly</td>
<td>12.32</td>
</tr>
</tbody>
</table>

**L300**

**IRRIGATION NOTES**

**IRRIGATION SYSTEM**

<table>
<thead>
<tr>
<th>SYMBOL</th>
<th>MANUFACTURER/MODEL/DESCRIPTION</th>
<th>CITY</th>
<th>DETAIL</th>
</tr>
</thead>
<tbody>
<tr>
<td>S10</td>
<td>High Pressure 4000 PSI 1177</td>
<td>gly</td>
<td>7.65</td>
</tr>
<tr>
<td>S20</td>
<td>High Pressure 4000 PSI 1177</td>
<td>gly</td>
<td>12.32</td>
</tr>
</tbody>
</table>

**L300**

**IRRIGATION NOTES**

**IRRIGATION SYSTEM**

<table>
<thead>
<tr>
<th>SYMBOL</th>
<th>MANUFACTURER/MODEL/DESCRIPTION</th>
<th>CITY</th>
<th>DETAIL</th>
</tr>
</thead>
<tbody>
<tr>
<td>S10</td>
<td>High Pressure 4000 PSI 1177</td>
<td>gly</td>
<td>7.65</td>
</tr>
<tr>
<td>S20</td>
<td>High Pressure 4000 PSI 1177</td>
<td>gly</td>
<td>12.32</td>
</tr>
</tbody>
</table>

**L300**
HYDROZONE KEY

- Hydrozone 1:
  - Slope: 1:5
  - Fallow area: 3.04 acres
  - Hydrozone of flood water can:
    - 3.04 acres

- Hydrozone 2:
  - Slope: 1:10
  - Fallow area: 3.04 acres
  - Hydrozone of flood water can:
    - 3.04 acres

- Hydrozone 3:
  - Slope: 1:20
  - Fallow area: 3.04 acres
  - Hydrozone of flood water can:
    - 3.04 acres

THE WRA WILL BE APPLYING FOR A PERMIT AT INGEWOOD APPROX. 500 FT TO THE SOUTHEAST.

L305
14 DF 19

ID# LS110519000
## PLANTING LEGEND

<table>
<thead>
<tr>
<th>Key</th>
<th>Common Name</th>
<th>Botanical Name</th>
<th>Size</th>
<th>Spacing</th>
<th>Minimum Qty</th>
<th>Water Needs</th>
</tr>
</thead>
<tbody>
<tr>
<td>PLA</td>
<td>California Juniper</td>
<td>Juniperus californica</td>
<td>2' x 6'</td>
<td>see plan</td>
<td>4</td>
<td>Moderate</td>
</tr>
<tr>
<td>RLV</td>
<td>California Pepper</td>
<td>Schinus terebinthifolius</td>
<td>5 Gal.</td>
<td>10' x 10'</td>
<td>6</td>
<td>Low</td>
</tr>
<tr>
<td>SLM</td>
<td>Cleveland Sage</td>
<td>Salvia clevelandii</td>
<td>3 gal.</td>
<td>8' x 8'</td>
<td>6</td>
<td>Very Low</td>
</tr>
<tr>
<td>HMN</td>
<td>Open Gaura</td>
<td>Gaillardia aristata</td>
<td>1 Qt.</td>
<td>2' x 2'</td>
<td>55</td>
<td>Low</td>
</tr>
<tr>
<td>CAB</td>
<td>Creosote Bush</td>
<td>Larrea tridentata</td>
<td>1 Qt.</td>
<td>12' x 12'</td>
<td>1350</td>
<td>Medium</td>
</tr>
<tr>
<td>FES</td>
<td>Fountain Grass</td>
<td>Paspalum distichum</td>
<td>sod</td>
<td>-</td>
<td>4055.52</td>
<td>Very Low</td>
</tr>
<tr>
<td>LEY</td>
<td>Leymus tenuis</td>
<td>P pseudocorymbosus</td>
<td>1 gal.</td>
<td>24' x 24'</td>
<td>1044</td>
<td>Medium</td>
</tr>
<tr>
<td>SBD</td>
<td>Blue Eyed Grass</td>
<td>Amsinckia intermedia</td>
<td>1 gal.</td>
<td>12' x 12'</td>
<td>1087</td>
<td>Low</td>
</tr>
</tbody>
</table>

### PLANTING NOTES
1. DRAWING IS DIAGRAMMATIC. CONTRACTOR TO VERIFY ALL LOCATIONS AND CONDITIONS ON SITE. COUNT ALL PLANT MATERIAL SHOWN.
2. CONTRACTOR TO INSPECT ALL EXISTING CONDITIONS ON SITE AND LOCATE ALL EXISTING UTILITIES BEFORE CONSTRUCTION BEGINS.
3. CONTRACTOR TO REPAIR ANY DAMAGE TO WATCH DITCHES OR ANY OTHER DRAINAGE WHICH OCCURS DURING PROJECT INSTALLATION.
4. NOTE ADDITIONAL ITEMS ON SITE PLANT LIST.
5. FEATHER GRADE TO BE FUMED WITH VARIOUS FUMIGANTS.
6. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION REGARDING THIS SECTION OF WORK.

### MOUNTAIN BUSH liner
1. ALL PLANTING AREAS WITH LESS THAN .5 INCHES OF SOIL SHALL BE SOWNED WITH DOUBLE dispenser SEEDS.

### HOMALOPSIS
1. WESTERN TOAD LILY: ACCORDING TO THE DIRECTIONS ON THE LABEL, REMOVE AND REPLACED BARE PLANTS. REPLACEMENT PLANTS SHALL BE QUANTIFIED FOR SPECIFICATIONS.

### MAINTENANCE NOTES
1. PLANTS SHALL NOT BE PLACED WITHIN 12 INCHES OF SPRINKLER HEADS.

### SYMBOLS
- **PLA**: PLANT LIDSS
- **CAR**: CAREX PRAIRIEA 
- **FES**: FESTUCA RUBRA 'RED POWER'
- **LEY**: LYTTONGI'TED GHOSEROSSEUX 'ABDIKIN'
- **BAS**: BALSAMOCLEROTICA 'EVEY DENS

### SEE SHEET L-202 FOR PLACEMENT OF LINEAR ROOT CONTROL BARRIERS

### SEE SHEET L-400 FOR PLANTING LEGEND AND NOTES

### PLANTING NOTES & LEGEND
- **PLA**: PLANT LIDSS
- **CAR**: CAREX PRAIRIEA 
- **FES**: FESTUCA RUBRA 'RED POWER'
- **LEY**: LYTTONGI'TED GHOSEROSSEUX 'ABDIKIN'
- **BAS**: BALSAMOCLEROTICA 'EVEY DENS

### MAINTENANCE NOTES
- **PLA**: PLANT LIDSS

### REVISIONS
- 1.4.25.11 Protection
- 3.5.13.11 Retention
- 9.

### DATE
- 10-5-2010

### DRAWN
- MG

### DRAWN
- MG CHECKED: LS PROJECT: 6604.7501 SCALE: AS IS

### L-400
- 15 OF 19
MRCA
Attachment
3/14/12
Agenda Item VI (j)

BALLONA CREEK TRAIL: Greenway Improvements

LANDSCAPE ARCHITECT
Mountains Recreation and Conservation Authority
15700 Valley View Drive
Valencia, CA 91355
(661) 770-2000

SURVEYOR
Daniel Surveying & Mapping, Inc.
3348 Heywood Street
Los Angeles, CA 90016
(323) 965-0900

DRAWING CONSULTANT
J Ando
3144 Magnolia Road
Los Angeles, CA 90066
(323) 387-1191

REVISIONS:
1-4-25-11 Revision
2-2-12-11 Revision

DATE: 10-15-2010
DRAWN: BIG
CHECKED: IS
PROJECT: W151-7156
SCALE: As noted

PLANTING PLAN
AREA 1
L-401
16 CF 19

SEE SHEET L-203 FOR PLACEMENT OF LINEAR ROOT CONTROL BARRIERS

SEE L-400 FOR PLANTING LEGEND AND NOTES

KEY MAP

REVISIONS:
1.4.25.11 Revision
2.2.12.11 Revision

DATE: 10-15-2010
DRAWN: BIG
CHECKED: IS
PROJECT: W151-7156
SCALE: As noted

PLANTING PLAN
AREA 1
L-401
16 CF 19

SEE SHEET L-203 FOR PLACEMENT OF LINEAR ROOT CONTROL BARRIERS

SEE L-400 FOR PLANTING LEGEND AND NOTES

KEY MAP