EXISTING CONDITIONS


2. PROTECT EXISTING UTILITIES. CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRS ASSOCIATED WITH DAMAGES TO ANY UTILITIES INCURRED BY THE CONTRACTOR OR ASSOCIATED SUBCONTRACTORS.
EXISTING MODULE 4
UNDERGROUND PIPES
APPROXIMATE LOCATION
OF EXISTING P.PLUMBING
TIES

EXISTING MODULE 4
APPROXIMATE EXISTING MODULE UNIT
APPROXIMATE ALIGNMENT OF
MODULE LIMIT

LANDFILL GAS PROBE
GEO-TECHNICAL BORING
SUBGRADE SURVEY CONTROL POINT
(SUBGRADE SURVEY CONTROL POINT:
NOTE 6)

PERMITTED LANDFILL FOOTPRINT

EXISTING LANDFILL
EXISTING MODULE 4
APPROXIMATE LOCATION
OF EXISTING P.PLUMBING TIES

TOPOGRAPHY PROVIDED BY AERIAL PHOTOMAPPING SERVICES.
DATUM: NAVD88.

TOPOGRAPHY PROVIDED BY AERIAL PHOTOMAPPING SERVICES.
DATUM: NAVD88.

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DATUM: NAVD88.

TOPOGRAPHY PROVIDED BY AERIAL PHOTOMAPPING SERVICES.
DATUM: NAVD88.
NOTES

1. TOPOGRAPHY PROVIDED BY AERIAL PHOTOGRAPHING SERVICES. DATE OF TOPOGRAPHY: JUNE 29, 2018. DATUM: NAVD88. TOPOGRAPHY MODIFIED TO INCLUDE MODULE 5 SUBGRADE (DRAWING 3).

2. CONTRACTOR TO EXPOSE UNDERDRAIN PIPES IN A MINIMUM OF 2 FEET BEYOND THE EXISTING DRAINLINE POINT AT EDGE OF MODULE 4 AND EXTEND ALONG THE SIDE SLOPE TO DRAIN AT A 1% SLOPE. CONTRACTOR SHALL INITIALLY EXCAVATE AND EXPOSE UNDERDRAIN PIPING AT THE EDGE OF THE MODULE 4 LINER THEN FOR DESIGN ENGINEER'S INSPECTION AND REVIEW. BASED ON ACTUAL PIPING CONDITIONS ENCOUNTERED, DESIGN ENGINEER MAY ISSUE A DESIGN CHANGE FOR THE UNDERDRAIN CONSTRUCTION.

3. CONTRACTOR TO EXPOSE THE EXISTING GEOMEMBRANE LINER FOR MODULES 4 AND 5 AND SURVEY THE EDGE OF LINER AT 100 FT SPACING. CONTRACTOR SHALL ADJUST TIE-IN GRADES TO MATCH THE EXISTING MODULES 4 AND 5 EDGE OF LINER.

4. SEE SHEET 14 FOR LINER SURVEY CONTROL POINT TABLE.

NOTE(S)

1. TOPOGRAPHY PROVIDED BY AERIAL PHOTOGRAPHING SERVICES. DATE OF TOPOGRAPHY: JUNE 29, 2018. DATUM: NAVD88. TOPOGRAPHY MODIFIED TO INCLUDE MODULE 5 SUBGRADE (DRAWING 3).

2. CONTRACTOR TO EXPOSE UNDERDRAIN PIPES IN A MINIMUM OF 2 FEET BEYOND THE EXISTING DRAINLINE POINT AT EDGE OF MODULE 4 AND EXTEND ALONG THE SIDE SLOPE TO DRAIN AT A 1% SLOPE. CONTRACTOR SHALL INITIALLY EXCAVATE AND EXPOSE UNDERDRAIN PIPING AT THE EDGE OF THE MODULE 4 LINER THEN FOR DESIGN ENGINEER'S INSPECTION AND REVIEW. BASED ON ACTUAL PIPING CONDITIONS ENCOUNTERED, DESIGN ENGINEER MAY ISSUE A DESIGN CHANGE FOR THE UNDERDRAIN CONSTRUCTION.

3. CONTRACTOR TO EXPOSE THE EXISTING GEOMEMBRANE LINER FOR MODULES 4 AND 5 AND SURVEY THE EDGE OF LINER AT 100 FT SPACING. CONTRACTOR SHALL ADJUST TIE-IN GRADES TO MATCH THE EXISTING MODULES 4 AND 5 EDGE OF LINER.

4. SEE SHEET 14 FOR LINER SURVEY CONTROL POINT TABLE.
   TOPOGRAPHY MODIFIED TO INCLUDE MODULE 6 SUBGRADE (DRAWING 3).

2. CONTRACTOR TO EXPOSE UNDERDRAIN PIPES (4) AT EDGE OF MODULE 4 AND EXTEND ALONG THE SIDE SLOPE TO DRAIN AT A 1% GRADE.

3. SEE SHEET 14 FOR SUBGRADE AND LINER SURVEY CONTROL POINT TABLES.

4. THE ENTIRE 40-MIL SACRIFICIAL GEOMEMBRANE SHALL BE BALLASTED BY SAND BAG LINES PER THE TECHNICAL SPECIFICATIONS.

5. WELD GEOMEMBRANES ALONG ENTIRE EXPOSED MODULE 4 GEOMEMBRANE.

NOTES:

   TOPOGRAPHY MODIFIED TO INCLUDE MODULE 6 SUBGRADE (DRAWING 3).

2. CONTRACTOR TO EXPOSE UNDERDRAIN PIPES (4) AT EDGE OF MODULE 4 AND EXTEND ALONG THE SIDE SLOPE TO DRAIN AT A 1% GRADE.

3. SEE SHEET 14 FOR SUBGRADE AND LINER SURVEY CONTROL POINT TABLES.

4. THE ENTIRE 40-MIL SACRIFICIAL GEOMEMBRANE SHALL BE BALLASTED BY SAND BAG LINES PER THE TECHNICAL SPECIFICATIONS.

5. WELD GEOMEMBRANES ALONG ENTIRE EXPOSED MODULE 4 GEOMEMBRANE.
1. GEOSYNTHETICS EXAGGERATED FOR CLARITY.
2. EXPOSED SACRIFICIAL GEOMEMBRANE ON THE MODULE 4 SIDESLOPE WILL BE REMOVED IN THE FUTURE BY OTHERS.
SIDE SLOPE LINER TERMINATION SECTION

WEST SLOPE LINER TERMINATION SECTION

SOUTH SLOPE ANCHOR TRENCH

CALPINE REALIGN ROAD SECTION

2. Erosion Control Blanket
3. Stormwater Channel
4. Conform grade to existing topography
5. Straw Wattle every 10 ft vertically
6. Access Road - Recycled Backfill
7. Installation of Erosion Control Blanket
8. Sacrificial Geomembrane Cover
9. 60 mil Single-Sided Textured HDPE Geomembrane (Textured Side Down)
10. Geosynthetic Clay Liner

SCALE: 1" = 2'

MONTEREY PENINSULA LANDFILL
MODULE 6 LINER DESIGN
MONTEREY COUNTY, CALIFORNIA

LINER TERMINATION DETAILS

MONTEREY REGIONAL WASTE MANAGEMENT DISTRICT
14201 DEL MONTE BOULEvard
MONTEREY COUNTY, CA 93933-1670
PH: (831) 384-5313

SACRAMENTO OFFICE
1550 MASSACHUSETTS AVENUE, SUITE 100
SACRAMENTO, CA 95810
PH: (916) 786-2424

1. ISSUED FOR BIDDING
2. ISSUED FOR BIDDING
3. ISSUED FOR BIDDING
4. ISSUED FOR BIDDING

01-01
01-01
01-01
01-01

01-10
01-10
01-10
01-10

2019
2019
2019
2019

MONTEREY REGIONAL WASTE MANAGEMENT DISTRICT
14201 DEL MONTE BOULEvard
MONTEREY COUNTY, CA 93933-1670
PH: (831) 384-5313

SACRAMENTO OFFICE
1550 MASSACHUSETTS AVENUE, SUITE 100
SACRAMENTO, CA 95810
PH: (916) 786-2424

www.golder.com

2019
2019
2019
2019
NOTES:
2. PROTECT EXISTING UTILITIES. CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRS ASSOCIATED WITH DAMAGES TO ANY UTILITIES INCURRED BY THE CONTRACTOR OR ASSOCIATED SUBCONTRACTORS.
3. MODULE 6 GRADES ShOWN AT SUBGRADE GRADING.
4. GEOSYNTHETICS EXAGGERATED FOR CLARITY.
5. SEE SHEET 14 FOR SUBGRADE SURVEY CONTROL POINT TABLE.
6. ONLY ONE PIPE SHOWN. UP TO FOUR PIPES MAY NEED TO BE EXTENDED.
1.5 ft
0.75 ft
ACCESS ROAD - ASPHALT
CHIP ROAD BASE (MATERIAL
PROVIDED BY OWNER)

FILL IN AROUND EDGE
CHRISTY BOX WITH
TRAFFIC-RATED LID OR
APPROVED EQUIVALENT

FLEXIBLE HOSE WITH SLIP-ON CONNECTION

8 oz GEOTEXTILE
TEMPORARY 80-MIL HDPE GEOMEMBRANE

1/2 in HOLE IN GEOMEMBRANE
SEAL PENETRATION WITH TWO
INCH OF POWDERED BENTONITE
PLACED AROUND HOLE

TRENCH BACKFILLED WITH
POWDERED BENTONITE

SUBGRADE

1 ft
2 in DIA. PROTECTIVE PVC PIPE

2 in PROTECTIVE DIA. PVC PIPE

2 in SILICA FLOUR SLURRY PER
MANUFACTURER’S RECOMMENDATION

2 in DIA. PVC PIPE

SACRAMENTO OFFICE
1000 ENTERPRISE WAY, SUITE 190
ROSEVILLE, CA  95678
USA
(916) 786-2424

www.golder.com

MONTEREY PENINSULA LANDFILL
MODULE 6 LINER DESIGN
MONTEREY COUNTY, CALIFORNIA

LEAK DETECTION SYSTEM DETAILS

PROJECT NO.
1770479

GOLDEN

MONTEREY REGIONAL WASTE MANAGEMENT DISTRICT
14201 DEL MONTE BOULEVARD
MONTEREY COUNTY, CA  93933-1670
PH: (831) 384-5313

CONSULTANT

SACRAMENTO OFFICE
1000 ENTERPRISE WAY, SUITE 160
ROSEVILLE, CA  95747
(916) 786-2424
www.golder.com

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NOTE(S)
1. GEOSYNTHETICS EXAGGERATED FOR CLARITY.
2. STEEL WELL CASING ESTIMATED TO BE 8-INCH DIA. CONTRACTOR TO VERIFY DIAMETER.
3. STEEL CASING SHALL BE OVERDRILLED, CUT, AND REMOVED TO ELEVATION 13 FT MSL.

LEGEND

1" = 2'
GRADE INDICATOR
SLOPE INDICATOR

SCALE
LYSIMETER CHRISTY BOX DETAIL

1/100

SCALE
LYSIMETER DETAIL
1/100

SCALE
WATER WELL ABANDONMENT DETAIL
1/100
### SUBGRADE CONTROL POINT TABLE

<table>
<thead>
<tr>
<th>POINT NO.</th>
<th>MERTING (F)</th>
<th>CASTING (F)</th>
<th>ELEVATION (F)</th>
<th>SUBGRADE CONTROL POINT TABLE</th>
<th>MERTING (F)</th>
<th>CASTING (F)</th>
<th>ELEVATION (F)</th>
</tr>
</thead>
<tbody>
<tr>
<td>901</td>
<td>1,025,231.94</td>
<td>9,760,848.56</td>
<td>14.2</td>
<td>1,019,270.56</td>
<td>9,760,848.56</td>
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<tr>
<td>902</td>
<td>1,025,254.01</td>
<td>9,760,852.99</td>
<td>12.2</td>
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<td>903</td>
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<tr>
<td>904</td>
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<td>14.0</td>
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<tr>
<td>906</td>
<td>1,025,256.24</td>
<td>9,760,853.49</td>
<td>14.2</td>
<td>1,019,301.71</td>
<td>9,760,853.49</td>
<td>14.0</td>
<td></td>
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<tr>
<td>907</td>
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### SURVEY CONTROL POINT TABLE

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<th>MERTING (F)</th>
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<tbody>
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<td>JDR</td>
<td>1,025,256.24</td>
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<tr>
<td>RH</td>
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<td>9,760,853.49</td>
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<td>9,760,853.49</td>
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</table>

### LINEAR CONTROL POINT TABLE

<table>
<thead>
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<th>PROJECT NO.</th>
<th>MERTING (F)</th>
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<th>ELEVATION (F)</th>
<th>LINEAR CONTROL POINT TABLE</th>
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<tr>
<td>JDR</td>
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<td>9,760,853.49</td>
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<td></td>
</tr>
</tbody>
</table>

### NOTE

1. SURVEY CONTROL POINTS BASED ON MERTING AND CASTING HOrizontal Datum HAD30 CA STATE ZONE IV ELEVATION VERTICAl Datum NAVD88

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**SUBGRADE CONTROL POINT TABLE**

- **MERTING (F):** 1,025,231.94
- **CASTING (F):** 9,760,848.56
- **ELEVATION (F):** 14.2

- **MERTING (F):** 1,025,254.01
- **CASTING (F):** 9,760,852.99
- **ELEVATION (F):** 12.2

- **MERTING (F):** 1,025,256.24
- **CASTING (F):** 9,760,853.49
- **ELEVATION (F):** 14.4

---

**SURVEY CONTROL POINT TABLE**

- **PROJECT NO.:** JDR
- **MERTING (F):** 1,025,256.24
- **CASTING (F):** 9,760,853.49
- **ELEVATION (F):** 14.2

- **PROJECT NO.:** RH
- **MERTING (F):** 1,025,256.24
- **CASTING (F):** 9,760,853.49
- **ELEVATION (F):** 14.2

---

**LINEAR CONTROL POINT TABLE**

- **PROJECT NO.:** JDR
- **MERTING (F):** 1,025,256.24
- **CASTING (F):** 9,760,853.49
- **ELEVATION (F):** 14.2

- **PROJECT NO.:** RH
- **MERTING (F):** 1,025,256.24
- **CASTING (F):** 9,760,853.49
- **ELEVATION (F):** 14.2

---

**NOTE**

1. SURVEY CONTROL POINTS BASED ON MERTING AND CASTING HOrizontal Datum HAD30 CA STATE ZONE IV ELEVATION VERTICAl Datum NAVD88

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**SUBGRADE CONTROL POINT TABLE**

- **POINT NO.:** 901
- **MERTING (F):** 1,025,231.94
- **CASTING (F):** 9,760,848.56
- **ELEVATION (F):** 14.2

- **POINT NO.:** 902
- **MERTING (F):** 1,025,254.01
- **CASTING (F):** 9,760,852.99
- **ELEVATION (F):** 12.2

- **POINT NO.:** 903
- **MERTING (F):** 1,025,255.15
- **CASTING (F):** 9,760,853.49
- **ELEVATION (F):** 14.4

---

**SURVEY CONTROL POINT TABLE**

- **PROJECT NO.:** JDR
- **MERTING (F):** 1,025,256.24
- **CASTING (F):** 9,760,853.49
- **ELEVATION (F):** 14.2

- **PROJECT NO.:** RH
- **MERTING (F):** 1,025,256.24
- **CASTING (F):** 9,760,853.49
- **ELEVATION (F):** 14.2

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**LINEAR CONTROL POINT TABLE**

- **PROJECT NO.:** JDR
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- **CASTING (F):** 9,760,853.49
- **ELEVATION (F):** 14.2

- **PROJECT NO.:** RH
- **MERTING (F):** 1,025,256.24
- **CASTING (F):** 9,760,853.49
- **ELEVATION (F):** 14.2

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**NOTE**

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**SUBGRADE CONTROL POINT TABLE**

- **POINT NO.:** 901
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- **ELEVATION (F):** 14.2

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- **MERTING (F):** 1,025,254.01
- **CASTING (F):** 9,760,852.99
- **ELEVATION (F):** 12.2

- **POINT NO.:** 903
- **MERTING (F):** 1,025,255.15
- **CASTING (F):** 9,760,853.49
- **ELEVATION (F):** 14.4

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**SURVEY CONTROL POINT TABLE**

- **PROJECT NO.:** JDR
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- **CASTING (F):** 9,760,853.49
- **ELEVATION (F):** 14.2

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**LINEAR CONTROL POINT TABLE**

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- **CASTING (F):** 9,760,853.49
- **ELEVATION (F):** 14.2

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**NOTE**

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