CONSTRUCTION PLANS
FOR
DESCHUTES COUNTY DEPT. OF SOLID WASTE
SW TRANSFER STATION TRAILER BAY
and BIN STORAGE IMPROVEMENTS PROJECT
54580 HIGHWAY 97
DESCHUTES COUNTY
T21S R1E S05 00101
ODOT MILE POST 159.51
NOTES:
1. CONTRACTOR SHALL PERFORM ALL WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENT SPECIFICATIONS AND PLANS.
2. CONTRACTOR SHALL MAINTAIN A CURRENT SET OF DRAWINGS AND SPECIFICATIONS ON THE PROJECT SITE AT ALL TIMES.
4. CONTRACTOR SHALL COMPLY WITH ORS 757.541 TO 757.571.
5. CONTRACTOR IS RESPONSIBLE TO PROVIDE NOTICE TO OWNER OF INCONSISTENCIES BETWEEN THESE PLANS AND ACTUAL SITE CONDITIONS THAT WOULD ADVERSELY AFFECT THE INTEGRITY OF THIS PROJECT.
6. ALL EXISTING SURVEY MONUMENTS AND CONTROL POINTS THAT ARE REMOVED OR DISTURBED IN ANY WAY DURING CONSTRUCTION SHALL BE REESTABLISHED AND DOCUMENTED BY AN OREGON REGISTERED LAND SURVEYOR AT CONTRACTOR'S EXPENSE.
7. CONTRACTOR UNDERSTANDS THAT THE INTENT OF THIS PROJECT IS TO CONSTRUCT SITE IMPROVEMENTS THAT SHALL BE COMPLETE, FUNCTIONAL, AND READY FOR USE AT THE COMPLETION OF CONSTRUCTION, AND THAT ALL COSTS FOR SUCH WORK HAVE BEEN INCLUDED IN THE BID PRICE PROVIDED TO THE OWNER.
8. COUNTY ENGINEER SIGNATURE DOES NOT GRANT APPROVAL TO COMMENCE CONSTRUCTION.
9. ALL WORK SHALL BE PERFORMED BY A STATE APPROVED CONTRACTOR.
10. COUNTY ENGINEER'S SIGNATURE DOES NOT CONSTITUTE APPROVAL OF FACILITIES PROPOSED ON PRIVATE PROPERTY. SEPARATE PERMITS ISSUED BY THE BUILDING DEPARTMENT ARE REQUIRED AND SHALL BE OBTAINED BY THE DEVELOPER FOR FACILITIES LOCATED OUTSIDE OF THE PUBLIC RIGHT−OF−WAY.
11. ANY WORK WITHIN EXISTING PUBLIC RIGHT−OF−WAY OR DEDICATED COUNTY AND STATE EASEMENTS REQUIRES A SEPARATE RIGHT−OF−WAY/EXCAVATION PERMIT OBTAINED FROM THE COUNTY ENGINEERING DIVISION OR STATE RIGHT−OF−WAY DEPARTMENT. WORK WITHIN THE RIGHT−OF−WAY OR EASEMENT MAY OCCUR ONLY BETWEEN THE HOURS OF 7:00AM AND 4:00 PM UNLESS OTHERWISE PERMITTED ANY AND EVERY CALENDAR DAY EXCLUDING SATURDAYS, SUNDAYS AND LEGAL HOLIDAYS.
12. ALL CONSTRUCTION SHALL CONFORM TO STATE AND FEDERAL STANDARDS REGARDING ACCESSIBILITY TO PEOPLE WITH DISABILITIES.
13. TEMPORARY ACCESS FOR ALL USERS, INCLUDING THOSE WITH DISABILITIES, SHALL BE MAINTAINED WITHIN THE EXISTING RIGHT−OF−WAY.

PROPERTY OWNER:
DESCHUTES COUNTY, OR

INDEX OF SHEETS

C0.0 COVER SHEET
C1.0 SITE PLAN AND GENERAL GRADING
C2.0 WALL PLAN AND PROFILE
S1.0 STRUCTURAL PLAN AND GENERAL STRUCTURAL NOTES
S2.0 STRUCTURAL DETAILS
S3.0 DEMO PLAN & FENCE PLAN
S4.0 NEW FENCE - AXON DRAWING
S5.0 STRUCTURAL NOTES AND SITE PLAN
S6.0 WALL DETAILS

BENCHMARK AND BASIS OF BEARINGS:
A SURVEY WAS PREPARED BY JOHN THOMPSON AND ASSOCIATES, INC ON APRIL 12, 2013 AND ON NOVEMBER 26, 2014 FOR THE PURPOSE OF A TOPOGRAPHIC SURVEY FOR THIS PROJECT.

PROPERTY OWNER:
DESCHUTES COUNTY, OR

CONTOUR INTERVAL = 1.0 FT
COORDINATES ARE BASED ON CENTRAL OREGON COORDINATE SYSTEM, VERTICAL DATUM WAS PROVIDED BY JOHN THOMPSON AND ASSOCIATES, INC BASED ON NGVD 1929, ODOT BM D532 ELEV 4209.26 FT

NOTE:
PROJECT SITE

 UFC0000 Plan

 CONTRACTOR:

 DATE

 CONTRACTOR:

 DATE

 CONTRACTOR:

 DATE

 CONTRACTOR:

 DATE

 CONTRACTOR:

 DATE

 CONTRACTOR:

 DATE

 CONTRACTOR:

 DATE
**Typical Gravity Wall Section**

1" Setback or as recommended by manufacturer

**Finished Grade**
Unreinforced Concrete or Crushed Stone Leveling Pad

**Design Height**
6'8" typ

**Retained Soil**
18" Wide Drainage Fill (3/4" Crushed Rock or Stone)

Keystone Modular Block, Allen Block or approved equal
Flat Face Straight-Sided

4" Perforated PVC Drainage Pipe
Wrapped in Filter Fabric
Drain to Weep Holes 20' o.c.

Glue top course
Spray exposed surfaces
With breathable anti-graffiti sealant
Keystone Modular Block, Allen Block or approved equal
Flat Face Straight-Sided

Asphalt Concrete Surface
As manufactured by Keystone or approved equal

At Exposed Wall Ends use
Flat Face Straight-Sided to make Vertical Face

**See Structural Plan for more specific information**
**General Structural Notes**

**PROJECT DESCRIPTION:**

- **AREA:** Eastern Ave & Pkwy
- **PROJECT:** Eastern Ave & Parkway
- **GENERAL:** Structural Notes, All Materials, and Design Specifications - See Section 1105.2

**ENVIRONMENTAL:**

- See Section 1105.2

**SPECIAL INSPECTIONS:**

- See Section 1105.2

**SPECIFICATIONS:**

- ACI 318: Ch. 4, 5.2-5.4
- AWS D1.1
- AWS D1.4
- ANSI A20.1

**DATE:**

- January 7, 2015

**CONCRETE:**

- **Ready Mixed:**
  - Mix design:
  - Water/Cement Ratio:
  - Air Content:
  - Maximum Aggregate Size:

**REINFORCING STEEL:**

- **Grade:**
  - Beam/Column:
  - Stirrups:
  - Ties:

**ANCHORS:**

- **Location:**
  - Slab on Grade:
  - Walls:

**WELDING:**

- **Criteria:**
  - Welds:
  - Inspection:

**REINFORCING BAR:**

- **Location:**
  - Slab on Grade:
  - Walls:

**FILL, BACKFILL, AND COMPACTION:**

- **Materials:**
  - Crushed rock:
  - Fines:
  - **Units:**
    - Cubic yards:

**PLACEMENT:**

- **Methods:**
  - **Temperature:**
    - Specified curing:
    - Ambient:

**INSPECTION:**

- **Special Inspections:**
  - See Section 1707.1

**ARCHITECTURAL: STRUCTURAL:**

- **MEANS & METHODS:**
  - **Construction:**
  - **Sequencing:**
  - **Shoring:**

**GENERAL:**

- **Notes:**
  - See Section 1105.2

**CONTACT:**

- **Engineer of Record:**
  - Structural:
  - Geotechnical:
  - Architect:

**REVISION:**

- **Date:**
  - January 7, 2015

**SHEET NUMBER:**

- S1.0
Keyed Notes:

1. ANCHOR FENCE TO NEW WALL PER 7/S2.0. WELD NEW FENCE TO EXISTING VERTICAL FENCE POST WITH 1/4" FILLET WELDS ON ALL SIDES.

2. PAINTED, OPERABLE GATE.

3. WHEEL AT EAST END OF GATE.

4. LATCHING MECHANISM AT EAST END OF GATE.

5. HINGE MECHANISM.

Contractor Note:
The intent is to match the existing fence construction in every way except for improved anchorage in the wall.
REQUIRED GEO-TECHNICAL VERIFICATION & INSPECTION OF ANALYSIS PROCEDURE

SITE CLASS

VERIFY MATERIALS BELOW SHALLOW EXCAVATION

VERIFY USE OF PROPER MATERIALS, SPECTRAL RESPONSE COEFFICIENTS

FILL MATERIAL VERIFICATION

VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED CAPACITY

NOTE MINIMUM OF 3" OF SOIL BETWEEN OVERLAPPING KEYSTONE REQUIREMENTS THERE IS TO BE A 12" GAP FROM FACE OF EXISTING WALL TO PROJECT CERTAIN KEYSTONE MATERIALS

GEORETICNICAL ENGINEER SHALL INSPECT EXCAVATION PRIOR TO PLACING FIRST BLOCKS AND 18" OF POLYESTER GEOGRID TO START 4'-0" FROM FACE OF EXISTING WALL AND LEVELLING MATERIAL OR FILL SOILS. PROOF ROLL FOUNDATION AREA AS DIRECTED TO DETERMINE IF FOUNDATIONS ARE ADEQUATE TO SUPPORT THE NEW SITE RETAINING WALL.

GENERAL STRUCTURAL NOTES

1. ALL PRODUCTS AND MATERIALS USED BY THE CONTRACTOR SHALL BE APPLIED, PLACED, ERECTED OR INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.

2. THE STRUCTURAL DRAWINGS REPRESENT THE COMPLETED STRUCTURE AND ARE NOT INTENDED TO INDICATE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCING, AND SAFETY REQUIRED FOR THIS PROJECT.

3. THE CONTRACTOR IS RESPONSIBLE FOR THE DESIGN AND CONSTRUCTION OF ALL ERECTION BRACING, FORM CONSTRUCTION, AND TEMPORARY SHORING REQUIRED FOR THIS PROJECT.

4. RECORD.

5. THESE DOCUMENTS CONTAIN NOTES THAT MAY APPLY GENERALLY TO ALL STRUCTURAL ELEMENTS, PROJECTS, AND CONTRACTS.

6. RECORDED DURING PLACEMENT AND COMPACTION OF COMPACTED FILL MATERIALS.

7. SURCHARGE BEHIND WALL 2500 PSF PER GEOTECHNICAL REPORT.

8. REMEDIAL WORK IS REQUIRED.

9. INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.

10. USED. LIFT THICKNESS SHALL BE DECREASED TO ACHIEVE THE REQUIRED DENSITY. HAND COMPACTION IS USED, OR 8-10" (200 TO 250 MM) WHERE HEAVY COMPACTION EQUIPMENT IS USED. LIFT THICKNESS SHALL BE DECREASED TO ACHIEVE THE REQUIRED DENSITY.

11. UNDERSHOT REINFORCEMENT, MATERIALS, GEOTEXTILE, AND FILM COATING THAT RESISTS PEELING, CRACKING, AND STRIPPING.

12. POLYSTYRENE FILAMENT YARN WITH A MOLECULAR WEIGHT EXCEEDING 25,000 G/M AND A CARBOYL END.

13. POLYESTER FILAMENT YARN OR HIGH DENSITY POLYETHYLENE. POLYESTER GEOGRID SHALL BE KNITTED FROM HIGH TENACITY POLYESTER FIBERS.

14. ALL PRODUCTS AND MATERIALS USED BY THE CONTRACTOR AFTER DISCOVERY OF SUCH DISCREPANCY SHALL BE DONE PROPERLY.

15. SPECIAL INSPECTION: SOILS AND FOUNDATION.
**SEGMENTAL RETAINING WALL WITH GEOGRID**

### MINIMUM REQUIREMENTS

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<tr>
<th>GEOGRID</th>
<th>WALL HEIGHT</th>
<th>LENGTH</th>
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<th>X2</th>
<th>X3</th>
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<tr>
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<td>2'-0&quot;</td>
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<td>7XT</td>
<td>5'-4&quot;</td>
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<td>7'-0&quot;</td>
<td>7XT</td>
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</table>

**NOTE:** SEE DETAILS 2, 3 & 4/S2.0 FOR MORE INFORMATION

1. WALL HEIGHT (H) IS THE TOTAL HEIGHT FROM TOP INCLUDING EMBEDMENT.
2. FINISHED GRADE TO PROVIDE FOR POSITIVE DRAINAGE.
3. FOUNDATION ROW SET ON GRADED AND COMPACT SOIL OR GRANULAR PAD
4. ALL BACKFILL TO BE COMPACTED TO 95% MAX. DENSITY.

**SCALE:** 1/2" = 1'-0"

**KEYSTONE RETAINING WALL**

**STANDARD UNIT**

**DIMENSIONS MAY VARY BY REGION**

**STANDARD PLAN**

**STANDARD ELEVATION**

**LEVELING PAD DETAIL**

**GRID & PIN CONNECTION**

**STANDARD UNIT**

**BASE LEVELING PAD NOTES:**

1. THE LEVELING PAD IS TO BE CONSTRUCTED OF CRUSHED STONE OR UNREINFORCED CONCRETE.
2. THE BASE FOUNDATION IS TO BE APPROVED BY THE SITE GEOTECHNICAL ENGINEER PRIOR TO PLACEMENT OF THE LEVELING PAD.

**EXCAVATION LIMITS**

**BASE LEVELING PAD NOTES:**

1. THE LEVELING PAD IS TO BE CONSTRUCTED OF CRUSHED STONE OR UNREINFORCED CONCRETE.
2. THE BASE FOUNDATION IS TO BE APPROVED BY THE SITE GEOTECHNICAL ENGINEER PRIOR TO PLACEMENT OF THE LEVELING PAD.

**LEVELING PAD DETAIL**

**STANDARD UNIT**

**WEIGHT:** 108 lbs

**HEIGHT:** 18"

**WIDTH:** 18"

**DEPT:** 6" CRUSHED ROCK OR UNREINFORCED CONCRETE

**LEVELING PAD**

**EXCAVATION LIMITS**

**BASE LEVELING PAD NOTES:**

1. THE LEVELING PAD IS TO BE CONSTRUCTED OF CRUSHED STONE OR UNREINFORCED CONCRETE.
2. THE BASE FOUNDATION IS TO BE APPROVED BY THE SITE GEOTECHNICAL ENGINEER PRIOR TO PLACEMENT OF THE LEVELING PAD.

**LEVELING PAD DETAIL**

**STANDARD UNIT**

**WEIGHT:** 50 lbs

**HEIGHT:** 18"

**DEPTH:** 10 1/2"

**WIDTH:** 4"

**NOTE:** PER KEYSTONE REQUIREMENTS THERE IS TO BE A MINIMUM OF 3" SOIL BETWEEN.