# CITY OF FLAGSTAFF
## CINDER LAKE LANDFILL
## RESIDENTIAL DROP-OFF CENTER

### CONSTRUCTION PLAN

Located in the Northeast 1/4 of Section 15
T 22N, R 16E, Gila and Salt River Meridian,
Coconino County, Arizona

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### VICINITY MAP

NOT TO SCALE

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### LEGEND

- **EXISTING INTERMEDIATE CONTOUR**
- **EXISTING WATERLINE**
- **LOT LINE**
- **BUILDING OUTLINE**
- **EXISTING UNPAVED ROAD**
- **EXISTING PAVED ROAD**
- **EXISTING CULVERT**
- **EXISTING CHAIN LINK FENCE**
- **EXISTING UNDERGROUND ELECTRIC**
- **EXISTING STREET OR PARKING LOT LIGHT**
- **EXISTING POWER POLE**
- **EXISTING TRAFFIC CONTROL SIGN**
- **PROPOSED BIN PADS**
- **PROPOSED DROP-OFF CENTER ROAD**
- **PROPOSED PAVED ROAD**
- **EXISTING SPROUCE TREE**
- **EXISTING SHRUB**
- **EXISTING SMALL SHRUB**

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### SITE PLAN

NOT TO SCALE

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### NOTE:

1. Topographic and boundary information provided by City of Flagstaff, Coordinate System: NAD 83 Arizona State Plane, Central Zone, International Foot.

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### OWNER:
CITY OF FLAGSTAFF
CINDER LAKE LANDFILL
211 WEST ASPEN AVENUE
FLAGSTAFF, AZ 86001
PHONE (928) 527-3843

### ENGINEER:
PINE ENGINEERING, INC.
CONTACT: GERARDO GONZALEZ
2112 S HUFFER LN.
FLAGSTAFF, AZ 86001
PHONE (928) 523-2001

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### OMT:
TALLPINES ENVIRONMENTAL CONSULTING CO.
2 S. BEAVER STREET
FLAGSTAFF, AZ 86001
PHONE (928) 774-0080

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### GRADING DESCRIPTIONS LEGEND

- **WE** - Watch Existing
- **FG** - Finished Grade
- **FL** - Flowline
- **C** - Concrete
- **TC** - Top of Curb
- **P** - Asphalt Paving Sidewalk
- **SW** - Top of Wall
- **TW** - Bottom of Wall
- **BP** - Bottom of Pond
- **X** - Horizontal Control Point
- **#** - Drainage Slope
- **##** - Drainage Arrow
COCONINO COUNTY GENERAL NOTES

1. APPROVAL OF THESE PLANS BY THE COUNTY ENGINEER IS FOR ONE-YEAR PERIOD. UNLESS OTHERWISE AGREED TO IN WRITING, APPROVAL WILL EXPIRE 10 YEARS FROM THE DATE OF SUBMISSION. ANY PLANS NOT APPROVED WITHIN 10 YEARS FROM THE DATE OF SUBMISSION WILL BE DISREGARDED.

2. PLAN REVIEW BY THE COUNTY DOES NOT EXTEND TO OR TO BE CONSIDERED AS A SUBSTITUTE FOR THE ISSUING OFFICIALS OF THE COUNTY OR THE CITY. ALL PLANS MUST BE SUBMITTED TO THE COUNTY FOR REVIEW AND APPROVAL.

3. AN ENCLOSEMENT WILL BE ISSUED BY THE PUBLIC WORKS DEPARTMENT FOR ALL WORK IN CONSTRUCTION PERMITS. PARCEL NUMBERS FOR CONSTRUCTION OF ANY IMPROVEMENTS A GRADING PERMIT WILL BE REQUIRED.

4. THE COUNTY WILL BE NOTIFIED OF ALL WORK PRIOR TO ANY WORK BEING DONE. NO WORK MAY BE DONE ON PUBLIC PREMISES WITHOUT THE WRITTEN AUTHORIZATION OF THE COUNTY ENGINEER. NO WORK MAY BE DONE ON PUBLIC PREMISES WITHOUT THE WRITTEN AUTHORIZATION OF THE COUNTY ENGINEER.

5. CONSTRUCTION PERMITS ARE REQUIRED FOR ALL WORK IN CONSTRUCTION PERMITS. PARCEL NUMBERS FOR CONSTRUCTION OF ANY IMPROVEMENTS A GRADING PERMIT WILL BE REQUIRED.

6. ANY WORK PERFORMED WITHOUT THE KNOWLEDGE AND APPROVAL OF THE COUNTY ENGINEER OR HIS AUTHORIZED REPRESENTATIVE IS SUBJECT TO REMOVAL AND REPLACEMENT AT THE CONTRACTOR'S EXPENSE.

7. THE COUNTY ENGINEER OR AUTHORIZED REPRESENTATIVES MAY SUSPEND THE WORK BY WRITTEN NOTICE WHEN, IN THEIR JUDGMENT, THE WORK IS UNSATISFACTORY. NO WORK MAY BE DONE WITH AUTHORIZATION OR IN CONSTRUCTION PERMITS. PARCEL NUMBERS FOR CONSTRUCTION OF ANY IMPROVEMENTS A GRADING PERMIT WILL BE REQUIRED.

8. THE COUNTY ENGINEER MAY ORDER ANY OR ALL MATERIALS USED IN THE WORK TO BE TESTED ACCORDING TO THE APPLICABLE SAMPLES OR MATERIALS PRACTICES OF STATE DEPARTMENT OF TRANSPORTATION (ADOT). THE CONTRACTOR SHALL, AT THEIR EXPENSE, SUBMIT A QUALIFIED TESTING LABORATORY TO PERFORM QUALITY CONTROL TESTS AND MONITOR THE PROGRESS OF THE CONSTRUCTION PROCESS. THE CONTRACTOR SHALL SUBMIT A QUALIFIED TESTING LABORATORY TO PERFORM QUALITY CONTROL TESTS AND MONITOR THE PROGRESS OF THE CONSTRUCTION PROCESS.

9. LOCAL FIRE DIVISION, COUNTY ENGINEERING DIVISION AND OTHER EMERGENCY RESPONSIBILITIES TO BE CONSIDERED IN THE PERIODS OF DRY WEATHER, WHICH ARE DETERMINED BY THE COUNTY ENGINEER OR HIS AUTHORIZED REPRESENTATIVE.

10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE OF THE STREETS AND OF PAVING PERMITS IS TO BE CONSIDERED AS A SUBSTITUTE FOR THE ISSUING OFFICIALS OF THE COUNTY OR THE CITY. ALL PLANS MUST BE SUBMITTED TO THE COUNTY FOR REVIEW AND APPROVAL.

11. APPROVAL OF A PORTION OF THE WORK IN PROGRESS DO NOT GUARANTEE ITS FINAL ACCEPTANCE. TESTING AND EVALUATION MAY CONTINUE UNTIL WRITTEN ACCEPTANCE IS GIVEN. IF CONSTRUCTION WORK IS NOT STARTED WITHIN THE ONE-YEAR PERIOD, SUBMITION PERMITS TO THE COUNTY ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE OF THE STREETS AND OF PAVING PERMITS IS TO BE CONSIDERED AS A SUBSTITUTE FOR THE ISSUING OFFICIALS OF THE COUNTY OR THE CITY. ALL PLANS MUST BE SUBMITTED TO THE COUNTY FOR REVIEW AND APPROVAL.

12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE OF THE STREETS AND OF PAVING PERMITS IS TO BE CONSIDERED AS A SUBSTITUTE FOR THE ISSUING OFFICIALS OF THE COUNTY OR THE CITY. ALL PLANS MUST BE SUBMITTED TO THE COUNTY FOR REVIEW AND APPROVAL.

13. LOCATION OF UNDERGROUND UTILITIES WILL BE NOTIFIED TO THE CONTRACTOR. ALL WORK TO BE DONE WITH AUTHORIZATION OR IN CONSTRUCTION PERMITS. PARCEL NUMBERS FOR CONSTRUCTION OF ANY IMPROVEMENTS A GRADING PERMIT WILL BE REQUIRED.

14. IF WORK IS TO BE PERFORMED ON PRIVATE PROPERTY IN RELATION TO A PROJECT CONSTRUCTED UNDER THESE STANDARDS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPERTY OWNER TO DO SO.

15. THE UNIVERSITY OF ARIZONA ENGINEERING DIVISION AND OTHER EMERGENCY RESPONSIBILITIES TO BE CONSIDERED IN THE PERIODS OF DRY WEATHER, WHICH ARE DETERMINED BY THE COUNTY ENGINEER OR HIS AUTHORIZED REPRESENTATIVE.

COCONINO COUNTY PAYING NOTES (PAYING PLAN)

1. ALL PAYING SHALL BE PERFORMED IN ACCORDANCE WITH THE CONTRACT CONDITIONS AND PAYING PLAN.

2. THE CONTRACTOR SHALL PROVIDE ANY NECESSARY TRAFFIC CONTROL DEVICES REQUIRED FOR THE CONTROL OF TRAFFIC DURING ANY PHASES OF THE CONSTRUCTION WORK.

3. NO WORK WILL BE CONSIDERED COMPLETE UNTIL:
   a. ALL CURBS, PAVEMENTS, SIDEWALKS, DITCHES, AND MANHOLE COVERS ARE CLEANED OF DIRT AND DEBRIS.
   b. SURVEY MONUMENTS ARE INSTALLED AND STAMPED.
   c. ALL FRAMES, COVERS, AND VALVE BOXES ARE ADJUSTED TO GRADE.
   d. ASPHALT SHALL NOT BE PLACED BEFORE THE CONTRACTOR'S JOB COMMENCEMENT CERTIFICATE HAS BEEN APPROVED AND RECEIVED, AND ADEQUATE MEANS TO PROTECT THE WORK FROM DAMAGE UPON SUBGRADE HAS BEEN APPROVED BY THE COUNTY ENGINEER OR HIS AUTHORIZED REPRESENTATIVE.

4. THE LOCATION OF ALL WATER VALVES, FIRE HYDRANTS, AND MANHOLE COVERS MUST BE ACCURATELY PLACED AND MADE ACCESSIBLE.

5. EXISTING STREET AND TRAFFIC SIGNS WILL BE MAINTAINED DURING CONSTRUCTION AND RELOCATED BY THE CONTRACTOR AS DIRECTED BY THE COUNTY ENGINEER OR HIS AUTHORIZED REPRESENTATIVE.

6. DRAINAGE MAINTENANCE DURING CONSTRUCTION IS THE RESPONSIBILITY OF THE CONTRACTOR.

7. PAYMENTS TO THE CONTRACTOR WILL BE MADE AT THE END OF EACH PAY PERIOD, SUBJECT TO WRITTEN APPROVAL OF THE COUNTY ENGINEER OR HIS AUTHORIZED REPRESENTATIVE.

8. DAMAGES TO ADJACENT PROPERTIES OR TO ANY PORTION OF THE WORK CAUSED BY THE CONTRACTOR'S FAILURE TO PROVIDE ADEQUATE DRAINAGE OF THE CONSTRUCTION SITE OR TO ORDER THE WORK SO AS TO MINIMIZE THE POSSIBLE EXTENT OF DAMAGE SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.

9. NO EXTENSION OF TIME WILL BE GRANTED ON ACCOUNT OF THE TIME REQUIRED TO MAKE SUCH REPAIRS.

EARTHWORK SUMMARY

SITE GRADING: UNADJUSTED FILL 625 CY. UNADJUSTED CUT 2700 CY.

THE ENGINEER HAS USED THE BEST JUDGMENT IN THE ESTIMATION OF THE EARTHWORK FOR THIS PROJECT. THE ENGINEER HAS NO CONTROL OVER THE VARYING FIELD CONDITIONS AND CONSTRUCTION METHODS INVOLVED IN THE SITE GRADING. THE ACTUAL QUANTITY, COST AND TIME REQUIRED FOR THE PROJECT MAY BE AFFECTED BY MANY FACTORS BEYOND THE ENGINEER'S CONTROL. THE ENGINEER SHALL NOT BE HELD LIABLE FOR ANY DEVIATION FROM THE ESTIMATED QUANTITIES.

IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE EARTHWORK QUANTITIES BASED ON THE GEOTECHNICAL REPORTS AND OTHER CONSIDERATIONS. THE ENGINEER'S ESTIMATE OF EARTHWORK QUANTITIES FOR THIS PROJECT MAY NOT REFLECT THE ACTUAL QUANTITIES OF THE WORK IF THERE ARE UNDETERMINED QUANTITIES OF THE WORK THAT ARE DETERMINED AFTER CONSTRUCTION.
RIP RAPped SIDE SLOPES

EXISTING GROUND

PROPOSED ASPHALT

ELEVATION

RIPRAP GRADATION TABLE

<table>
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<tr>
<th>PERCENT PASSING</th>
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RIPRAP

- Riprap shall have a bulk specific gravity of 2.4 or greater (per ASTM C778) and all rock shall be angular.
- Riprap shall be between 3-inches and 12-inches in diameter, with 50% (by weight) larger than 6-inches in diameter unless otherwise specified by the city engineer.

RIPRAP INSTALLATION DETAIL
ASSEMBLY INSTRUCTIONS FOR ADJUSTABLE STAIRS

STAIR TO LANDING CONNECTION

OSHA STAIRS WITH LANDING

PLATE: 4, QTY: 1
PLATE: 1, QTY: 1
PLATE: 5, QTY: 1
PLATE: 6, QTY: 2

PLATE: 2, QTY: 1
PLATE: 3, QTY: 2

OSHA STAIRS WITH LANDING CONNECTION

PLATE: 1, QTY: 1
PLATE: 2, QTY: 1
PLATE: 3, QTY: 2
PLATE: 4, QTY: 1
PLATE: 5, QTY: 1
PLATE: 6, QTY: 2

LANDING CONNECTIONS

See figure #1

See figure #5

See figure #7
**Existing Terrain**

- **Finished Ground Line**
  - 4,000 psi concrete
  - 1.5" Drain pipe @10' ctrs.
  - Slope 1:2 per foot

**Top Soil Cover**

**Stem Reinforcement:**
- Vertical Bar (Right)- #6 @ 12 in
- Vertical Bar (Left)- #4 @ 24 in
- Transverse Bar- #4 @ 12 in

**Toe Reinforcement:**
- Horizontal Bar- #6 @ 12 in

**Heel Reinforcement:**
- Horizontal Bar- #6 @ 12 in

**Transverse Reinforcement in Footing:**
- #4 @ 12 in

**RETAINING WALL DIMENSIONS AND REINFORCEMENT**

**RETAINING WALL SIDE VIEW**

**RETAINING WALL COMPONENTS**
SURVEY NOTES:

LINEAR UNIT: INTERNATIONAL FOOT

GEODETIC DATUM: NORTH AMERICAN DATUM 1983
SYSTEM: ARIZONA LDP (LOW DISTORTION PROJECTION)

PROJECTION: TRANSVERSE MERCATOR

LATITUDE OF GRID ORIGIN: 35° 00' 00" N
LONGITUDE OF CENTRAL MERIDIAN: 111° 37' 00" W
NORTHING AT GRID ORIGIN: 0,000 ft.
EASTING AT CENTRAL MERIDIAN: 70,000,000 ft.
CENTRAL MERIDIAN SCALE FACTOR: 1.000333 (exact)

BASIS OF BEARINGS IS GEODETIC NORTH. NOTE THAT GRID BEARINGS SHOWN HERE DO NOT EQUAL GEODETIC BEARINGS DUE TO MERIDIAN CONVERGENCE.

THE BEARINGS SHOWN ON THIS DRAWING ARE GRID BEARINGS.

Point Table

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KEYNOTES

CONTRACTOR TO VERIFY QUANTITIES PRIOR TO BIDDING

165 (6 EA.) PLACE NEW REGULATORY SIGNS TO NOTIFY USERS ON WHO CAN ENTER THE SITE.

166 (1 EA.) ASH BIN 6" X 6" X 5'5"

201 (1 EA.) INSTALL 5" DIAMETER REMOVABLE BOLLARDS IN FRONT OF SIGNS PER MAG DETAIL 140 (TYPE 2). 12 FEET APART

202 (1 EA.) INSTALL 14 FOOT LONG CHAIN LINK BETWEEN REMOVABLE BOLLARDS.

203 (344 L.F.) INSTALL SAFETY RAILING ON TOP OF RETAINING WALL PER MAG DETAIL 45 (TYPE 3).

204 (50 L.F.) "U" SAWCUT TO EXISTING ASPHALT TO MATCH NEW ASPHALT.

270 (590 L.F.) INSTALL CONCRETE HALF BARRIER 32" TYPE "F" WITH SIDEWALK PER ADOT DETAIL C-10.51 OR EQUIVALENT.

300 (123.90 C.Y.) INSTALL CONCRETE PAVEMENT STRUCTURE SEC. NO. 2 OF THE COCONINO ENGINEERING DESIGN AND CONSTRUCTION MANUAL.

310 (142.30 C.Y.) INSTALL CONCRETE PAVEMENT STRUCTURE SEC. NO. 2 OF THE COCONINO ENGINEERING DESIGN AND CONSTRUCTION MANUAL.

350 (370.80 C.Y.) INSTALL ASPHALT PAVEMENT STRUCTURE SEC. NO. 2 OF THE COCONINO ENGINEERING DESIGN AND CONSTRUCTION MANUAL.

360 (816.20 C.Y.) INSTALL ASPHALT PAVEMENT STRUCTURE SEC. NO. 2 OF THE COCONINO ENGINEERING DESIGN AND CONSTRUCTION MANUAL.

400 (2 EA.) INSTALL STAIRCASE PER DETAIL SHEET C3 FROM THE PANEL BUILT INC. STANDARD DRAWING.

500 (3 EA.) INSTALL SPILLWAY INLET AND OUTLET PER MAG DETAIL 555.

520 (1 EA.) REMOVE EXISTING CMP GUTTER, TRANSPORT TO COCONINO COUNTY PUBLIC WORKS YARD.

600 (1 EA.) INSTALL STRIPING PER ADOT DRAWING 5-12.

610 (1 EA.) INSTALL STRIPING PER ADOT DRAWING 5-12.
NOTE:
"MATCH EXISTING" GRADES ARE FOR REFERENCE ONLY, MATCHING EXISTING IS MORE IMPORTANT THAN THE GRADE SHOWN.
CATCH SLOPES SHOULD BE AT 3:1 MAX