

**City Council Agenda Items  
 and  
 Contracts, Leases or Agreements**

May 15th, 2012

City Council Meeting Date  
 Agenda Items Only

Brian Pugh  
 Submitted By

Solid Waste & Recycling  
 Division

Utilities  
 Department

**Action Required:**

A resolution awarding a construction contract to Benchmark Construction Inc. of NWA for \$407,560.07 for installation of a concrete pad and associated work at the City of Fayetteville Solid Waste and Recycling Facility, per Bid #12-39, approving a project contingency of \$40,756.01 (approximately 10%), and approving a budget adjustment.

\$ 432,585.23  
 Cost of this request

5500.5080.5816.00  
 Account Number

10002 / 1  
 Project Number

\$ 422,289.00  
 Category / Project Budget

\$ -  
 Funds Used to Date

\$ 422,289.00  
 Remaining Balance

Compost Site Slab Expansion  
 Program Category / Project Name

Solid Waste Improvements  
 Program / Project Category Name

Solid Waste  
 Fund Name

Budgeted Item

Budget Adjustment Attached

Am Man  
 Department Director 4-30-12  
 Date

Previous Ordinance or Resolution # \_\_\_\_\_

J B Kelly  
 City Attorney 5-1-12  
 Date

Original Contract Date: \_\_\_\_\_

Original Contract Number: \_\_\_\_\_

Paul a. Bach  
 Finance and Internal Services Director 5-2-2012  
 Date

Received in City 04-30-12 P05:39 RCVD  
 Clerk's Office  
King J.

Am Man  
 Chief of Staff 5-2-12  
 Date

Received in Mayor's Office  
 ENTERED  
5-1-12 BRP

Lionel Jordan  
 Mayor 5/2/12  
 Date

Comments:

To: Fayetteville City Council

Thru: Mayor Lioneld Jordan  
 Don Marr, Chief of Staff  
 David Jurgens, Utilities Director

From: Brian Pugh, Waste Reduction Coordinator *Brian Pugh*

Date: April 27, 2012

Subject: A resolution awarding a contract with Benchmark Construction Inc. of NWA for \$407,560.07 for compost site concrete pads

**RECOMMENDATION**

A resolution awarding a construction contract to Benchmark Construction Inc. of NWA for \$407,560.07 for installation of a concrete pad and associated work at the City of Fayetteville Solid Waste and Recycling Facility, per Bid #12-39, approving a project contingency of \$40,756.01 (approximately 10%), and approving a budget adjustment.

**BACKGROUND**

The City's compost facility has an EPA/ADEQ stormwater management permit which requires that stormwater be contained and controlled so as to prevent the stormwater from running off into the White River, roughly 85 feet away. To better control the stormwater while continuing operations, we have embarked on a three phased project to construct concrete slabs where we actually process the compost and to line the site detention pond. In addition, the new concrete pad will improve operating efficiency by allowing the compost rows to be turned when needed and not be limited to only turning during dry weather conditions. The ponding of water at the site limits the ability to turn the rows due to equipment getting stuck and can also result in violations during inspections by ADEQ for having standing water on site. The first phase was completed in late 2010.

**DISCUSSION**

This contract is to construct phase 2 of the project which consists of the north pad of the operating face of the compost facility and to widen the existing detention pond. To keep costs to a minimum, all engineering, design and inspection is being conducted internally by the Engineering and Utilities Staff. The City received 9 bids on April 30, 2012. The two lowest bids were rejected due to failure to provide references. Staff recommends authorization of contract to the lowest responsive responsible bidder which was Benchmark Construction Inc. of NWA. Construction will begin upon City Council approval, and is expected to last approximately 10 days.

Contractor	Bid
Arco Excavation and Paving	\$393,851.38
Benchmark Construction	\$407,560.07
Construmarr, Inc.	\$487,325.00
Kirk's Excavation, Inc.	\$393,259.30
LJB Construction, Inc.	\$429,760.45
Prime Contracting, Inc.	\$571,240.39
SSI, Inc. of NWA	\$408,251.81
Steve Beam Construction, Inc.	\$510,579.26
Sweetser Construction	\$522,403.00
<b>Engineer's Estimate</b>	<b>\$ 483,108.00</b>

**BUDGET IMPACT**

Funds are available in the Solid Waste capital budget, project 10002.

**RESOLUTION NO. \_\_\_\_\_**

A RESOLUTION AWARDED BID #12-39 AND AUTHORIZING A CONTRACT WITH BENCHMARK CONSTRUCTION OF NWA, INC. IN THE AMOUNT OF \$407,560.07 FOR THE CONSTRUCTION AND INSTALLATION OF A CONCRETE PAD AT THE SOLID WASTE AND RECYCLING FACILITY, APPROVING A TEN PERCENT (10%) PROJECT CONTINGENCY, AND APPROVING A BUDGET ADJUSTMENT

**BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF FAYETTEVILLE, ARKANSAS:**

Section 1. That the City Council of the City of Fayetteville, Arkansas hereby awards Bid #12-39 and authorizes a contract with Benchmark Construction of NWA, Inc. in the amount of \$407,560.07 for the construction and installation of a concrete pad at the solid waste and recycling facility.

Section 2. That the City Council of the City of Fayetteville, Arkansas hereby approves a ten percent (10%) project contingency.

Section 3. That the City Council of the City of Fayetteville, Arkansas hereby approves a budget adjustment, a copy of which is attached to this Resolution as Exhibit "A".

**PASSED and APPROVED** this 15<sup>th</sup> day of May, 2012.

APPROVED:

ATTEST:

By: \_\_\_\_\_  
**LIONELD JORDAN**, Mayor

By: \_\_\_\_\_  
**SONDRA E. SMITH**, City Clerk/Treasurer

**City of Fayetteville, Arkansas  
Budget Adjustment Form**

A. 9 V11.0425  
Bid #12-39 Benchmark Construction  
of NWA, Inc.  
Page 4 of 38

<b>Budget Year</b> 2012	Division: Solid Waste & Recycling Department: Utilities Director	<b>Request Date</b> 5/15/2012	<b>Adjustment Number</b>
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**BUDGET ADJUSTMENT DESCRIPTION / JUSTIFICATION**

Additional funding is requested in the compost site slab expansion project for concrete for the compost pad which will better control stormwater and improve storm water detention.

Reduce the Solid Waste compactors project. Compactors are only purchased as needed for the drop box program.

Division Head <i>[Signature]</i> Date: 5-2-2012	Prepared By: John Nelson	#NAME?
Budget Director <i>[Signature]</i> Date: 2/11/12	Reference:	
Department Director <i>[Signature]</i> Date: 5-2-2012	Budget & Research Use Only	
Finance Director Paul A. Behm Date: 5-2-2012	Type: A B C <u>D</u> E P	
Chief of Staff Paul A. Behm Date: 5-2-2012	General Ledger Date	
Mayor <i>[Signature]</i> Date: 5/2/12	Posted to General Ledger	Initial Date
	Checked / Verified	Initial Date

**TOTAL BUDGET ADJUSTMENT**

Account Name	Account Number	Increase / (Decrease)		Project.Sub Number
		Expense	Revenue	
Solid Waste improvements	5500.5080.5816.00	65,000		10002 . 1
Solid Waste improvements	5500.5080.5816.00	(65,000)		10001 . 1
				:
				:



City Of Fayetteville

Requisition No.: \_\_\_\_\_ Date: Bid #12-39 Benchmark Construction  
5/15/2012 of NWA, Inc.  
P.O Number: \_\_\_\_\_ Expected Delivery Date: \_\_\_\_\_

Vendor #: 68230 Vendor Name: Benchmark Construction Inc. of NWA

Mail Yes: \_\_\_\_\_ No: \_\_\_\_\_

Address: 333 W. Poplar Suite A Fob Point: \_\_\_\_\_

Taxable Yes: \_\_\_\_\_ No: \_\_\_\_\_ Quotes Attached Yes: \_\_\_\_\_ No: \_\_\_\_\_

City: Fayetteville State: AR Zip Code: 72703 Ship to code: 104

Division Head Approval: \_\_\_\_\_

Requester: John Nelson Requester's Employee #: 1003

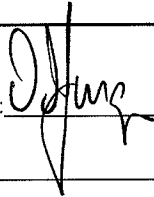
Extension: 492

Item	Description	Quantity	Unit of Issue	Unit Cost	Extended Cost	Account Numbers	Projec/Subproject #	Inventory #	Fixed Asset #
1	Installation of Concrete Pad for Compost Site	1	JOB	\$407,560.07	\$407,560.07	5500.5080.5816.00	10002.1		
2	Contract # _____ Bid #12-39; Res. No. _____								
3									
4									
5									
6									
7									
8									
9									
10									

Special Instructions: \_\_\_\_\_

Subtotal: \$407,560.07  
Tax: \$0.00  
Total: \$407,560.07

Approvals:

Mayor: \_\_\_\_\_ Department Director:  \_\_\_\_\_ Purchasing Manager: \_\_\_\_\_

Finance & Internal Services Director: \_\_\_\_\_ Budget Manager: \_\_\_\_\_ IT Manager: \_\_\_\_\_

Dispatch Manager: \_\_\_\_\_ Utilities Manager: \_\_\_\_\_ Other: \_\_\_\_\_

## CONTRACT

**Reference Bid:** Bid 12-39, Construction – Installation of Concrete Pad

**Contractor:** Benchmark Construction of NWA, Inc.

**Term:** Project Specific

This contract executed this \_\_\_\_\_ day of \_\_\_\_\_, 2012, between the City of Fayetteville, Arkansas, and Benchmark Construction of NWA, Inc. In consideration of the mutual covenants contained herein, the parties agree as follows:

1. Benchmark Construction of NWA, Inc. at its own cost and expense shall furnish all labor, materials, supplies, machinery, equipment, tools, supervision, bonds, insurance, tax permits, and all other accessories and services necessary to complete items bid per Bid 12-39 as stated in Benchmark Construction of NWA, Inc. bid proposal, and in accordance with specifications attached hereto and made a part hereof under Bid 12-39 all included herein as if spelled out word for word.
2. The City of Fayetteville shall pay Benchmark Construction of NWA, Inc. based on their bid proposal in an amount not to exceed **\$407,560.07**. Payments will be made after approval and acceptance of work and submission of invoice. Payments will be made approximately 30 days after receipt of invoice.
3. The Contract documents which comprise the contract between the City of Fayetteville and Benchmark Construction of NWA, Inc. consist of this Contract and the following documents attached hereto, and made a part hereof:
  - A. Bid form identified as Invitation to Bid 12-39 with the specifications and conditions typed thereon including Addendums 1 and 2.
  - B. Benchmark Construction of NWA, Inc. bid proposal.
  - C. The Notice to Prospective Bidders and the Bid Tabulation.
4. These Contract documents constitute the entire agreement between the City of Fayetteville and Benchmark Construction of NWA, Inc. and may be modified only by a duly executed written instrument signed by the City of Fayetteville and Benchmark Construction of NWA, Inc.
5. Benchmark Construction of NWA, Inc. shall not assign its duties under the terms of this agreement.
6. Benchmark Construction of NWA, Inc. agrees to hold the City of Fayetteville harmless and indemnify the City of Fayetteville, against any and all claims for property damage, personal injury or death, arising from Benchmark Construction of NWA, Inc. performance of this contract. This clause shall not in any form or manner be construed to waive that tort immunity set forth under Arkansas Law.
7. Benchmark Construction of NWA, Inc. shall furnish a certificate of insurance addressed to the City of Fayetteville, showing that he carries the following insurance which shall be maintained throughout the term of the Contract. Any work sublet, the contractor shall require the subcontractor similarly to provide worker's compensation insurance. In case any employee engaged in work on the project under this contract is not protected under Worker's Compensation Insurance, Benchmark Construction of NWA, Inc. shall provide and shall cause each Subcontractor to provide adequate employer's liability insurance for the protection of such of his employees as are not otherwise protected.

Workmen's Compensation

Statutory Amount

Comprehensive General &  
Automobile Insurance

Bodily Injury Liability

\$500,000 for each person injured.  
\$1,000,000 for each accident.

Property Damage Liability

\$1,000,000 aggregate.

The premiums for all insurance and the bond required herein shall be paid by Benchmark Construction of NWA, Inc.

- 8. Benchmark Construction of NWA, Inc. to furnish proof of licensure as required by all local and state agencies.
- 9. This contract may be terminated by the City of Fayetteville or Benchmark Construction of NWA, Inc. with 10 days written notice.
- 10. Freedom of Information Act: City of Fayetteville contracts and documents prepared while performing city contractual work are subject to the Arkansas Freedom of Information Act. If a Freedom of Information Act request is presented to the City of Fayetteville, the contractor will do everything possible to provide the documents in a prompt and timely manner as prescribed in the Arkansas Freedom of Information Act (A.C.A. 25-19-101 et. Seq.). Only legally authorized photo copying costs pursuant to the FOIA may be assessed for this compliance.
- 11. Changes in Scope or Price: Changes, modifications, or amendments in scope, price or fees to this contract shall not be allowed without a prior formal contract amendment approved by the Mayor and the City Council **in advance** of the change in scope, cost or fees.

WITNESS OUR HANDS THIS \_\_\_\_\_ DAY OF \_\_\_\_\_, 2012.

CITY OF FAYETTEVILLE,  
FAYETTEVILLE, ARKANSAS

\_\_\_\_\_  
LIONELD JORDAN, Mayor

Attest:

\_\_\_\_\_  
Sondra Smith, City Clerk

BENCHMARK CONST OF NWA, INC  
CONTRACTOR

BY Stephen Smith, CEO  
NAME AND TITLE

ATTEST: COMPANY SECRETARY

333 WEST POPLAR, STE A  
FAYETTEVILLE, AR 72703  
BUSINESS ADDRESS

# Bid 12-39, Addendum 1



**Date:** Monday, April 23, 2012

**To:** All Prospective Vendors

**From:** Andrea Foren Rasco, CPPB, CPPO, 479.575.8220, [aforen@ci.fayetteville.ar.us](mailto:aforen@ci.fayetteville.ar.us)

**RE:** Bid 12-39, Construction – Installation of Concrete Pad

This addendum is hereby made a part of the contract documents to the same extent as though it were originally included therein. Bidders should indicate their receipt of same in the appropriate blank of the Bid Form. Failure to do so may subject bidder to disqualification. Addendum should be attached to the inside cover of the bidding documents, signed, and dated.

- 1.) The entire bid form section has been revised, which includes revised quantities. All bidders shall use the bid form included with this Addendum. Failure to use the correct bid form shall result in bid rejection.**
- 2.) Attachment D, Drawings has been revised and replaced with the set included in this Addendum (total of 4 sheets of drawings). These drawings have modifications, including but not limited to:
  - a. The City raised the grades to closer match existing conditions to minimize the removal and protect the existing sewer line.
  - b. Existing location of the sanitary sewer main is now shown.
  - c. Concrete shall be Class B instead of ADTD Class AE, matching the concrete specifications.
  - d. Revised the acreage to include only the north section of the pad, not the whole site.
- 3.) Attached and included with this addendum are the following documents
  - a. SWPPP sheet and documents
  - b. Geotech report
  - c. Sign-in sheet from pre-bid meeting
- 4.) Reference Attachment A, Page 13: Concrete pavement surfaces shall be given a Class 5, broom, finish.
- 5.) Work hours shall be Monday-Friday, 7AM – 4PM. Evening, night and weekend hours can be scheduled upon proper coordination with the City.
- 6.) Prior to contract start, the City will have the excess material removed from the site.
- 7.) Storm water permit will be provided by the City of Fayetteville.
- 8.) Final completion shall be completed within 110 calendar days after Notice to Proceed. Notice to Proceed is anticipated to be issued on May 28, 2012.
- 9.) Liquidated damages shall apply in the amount of \$150 per calendar day.
- 10.) Payment for bid items shall be off of approved and properly documented actual quantities.
- 11.) Any reference in the bid package to the "Agreement" shall be interpreted as the entire bid package, any addenda, etc.
- 12.) The manhole will be adjusted to finish grade by the City Water and Sewer Division. It has been noted on the revised plans as to be completed "by others".
- 13.) Contractor will be allowed thicken concrete up to 8" on the curb to match the pavement or shape the base to match the specified gutter to slab thickness.

Acknowledge Addendum #1: Printed Name: \_\_\_\_\_  
Signature: \_\_\_\_\_ Title: \_\_\_\_\_ Date: \_\_\_\_\_  
Company: \_\_\_\_\_



City of Fayetteville  
Bid 12-39, Construction – Installation of Concrete Pad  
**Bid Form – ADDENDUM 1**

Contract Name: Installation of Concrete Pad at Solid Waste – Phase 1

Bid Number 12-39

BID TO:

Owner: The City of Fayetteville, Arkansas  
113 West Mountain Street  
Fayetteville, Arkansas 72701

BID FROM:

Bidder: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Section 1 – Intent:

- A. The undersigned Bidder proposes and agrees, if this Bid is accepted, to enter into an agreement with Owner in the form included in the Contract Documents to perform and furnish all Work as specified or indicated in the Contract Documents for the Bid price and within the Bid time indicated in this Bid and in accordance with the other terms and conditions of the Contract Documents.

Section 2 – Terms & Conditions:

- B. Bidder accepts all of the terms and conditions of the Invitation to Bid and Instructions to Bidders, including without limitation those dealing with the disposition of Bid security. This Bid will remain subject to acceptance for 180 days after the day of Bid opening. Bidder will sign and deliver the required number of counterparts of the Agreement with the Bonds and other documents required by the Bidding Requirements within 15 days after the date of Owner's Notice of Award.

Section 3 – Bidder's Representations: In submitting this Bid, Bidder represents, as more fully set forth in the Agreement, that:

**A.) Bidder has examined and carefully studied the Bid Documents, and the following Addenda, receipt of all which is hereby acknowledged:**

<u>Number</u>	<u>Date</u>
_____	_____
_____	_____
_____	_____
_____	_____

B.) Bidder has visited the Site and become familiar with and is satisfied as to the general, local, and Site conditions that may affect cost, progress, performance, and furnishing of the Work.

C.) Bidder is familiar with and is satisfied as to all federal, state, and local Laws and Regulations that may affect cost, progress, performance, and furnishing of the Work.

D.) Bidder has carefully studied all: (1) reports of explorations and tests of subsurface conditions at or contiguous to the Site and all drawings of physical conditions in or relating to existing surface or subsurface structures at or contiguous to the Site; and (2) reports and drawings of a Hazardous Environmental Condition, if any, at the Site. Bidder acknowledges that such reports and drawings are not Contract Documents and may not be complete for Bidder's purposes. Bidder acknowledges that Owner and Engineer do not assume responsibility for the accuracy or completeness of information and data shown or indicated in the Bid Documents with respect to Underground Facilities at or contiguous to the Site.

E.) Bidder has obtained and carefully studied (or assumes responsibility for having done so) all such additional or supplementary examinations, investigations, explorations, tests, studies, and data concerning conditions (surface, subsurface, and Underground Facilities) at or contiguous to the Site or otherwise which may affect cost, progress, performance, or furnishing of the Work or which relate to any aspect of the means, methods, techniques, sequences, and procedures of construction to be employed by Bidder and safety precautions and programs incident thereto.

F.) Bidder does not consider that any additional examinations, investigations, explorations, tests, studies, or data are necessary for the determination of this Bid for performing and furnishing of the Work in accordance with the times, price, and other terms and conditions of the Contract Documents.

G.) Bidder is aware of the general nature of work to be performed by Owner and others at the Site that relates to Work for which this Bid is submitted as indicated in the Contract Documents.

H.) Bidder has correlated the information known to Bidder, information and observations obtained from visits to the Site, reports, and drawings identified in the Contract Documents, and all additional examinations, investigations, explorations, tests, studies, and data with the Contract Documents.

I.) Bidder has given Engineer written notice of all conflicts, errors, ambiguities, or discrepancies that Bidder has discovered in the Contract Documents, and the written resolution thereof by Engineer is acceptable to Bidder.

J.) The Contract Documents are generally sufficient to indicate and convey understanding of all terms and conditions for performing and furnishing the Work for which this Bid is submitted.

K.) This Bid is genuine and not made in the interest of or on behalf of any undisclosed person, firm, or corporation and is not submitted in conformity with any agreement or rules of any group, association, organization, or corporation; Bidder has not directly or indirectly induced or solicited any other Bidder to submit a false or sham bid; Bidder has not solicited or induced any person, firm, or a corporation to refrain from bidding; and Bidder has not sought by collusion to obtain for himself any advantage over any other Bidder or over Owner.

L.) Bidder will perform the Work in compliance with all applicable trench safety standards set forth in Occupational Safety and Health Administration (OSHA) Part 1926 – Subpart P – Excavations.

M.) No Bid shall be based upon aggregate of Subcontractors performing more than 60 percent of the total Work.

N.) The experience, past performance, and ability of each proposed Subcontractor will be considered in the evaluation of Bids. Any Subcontractor so requested shall be required to furnish experience statements prior to the Notice of Awards.

**Section 4 – Bid Price:**

Item #	Description	Unit of Measure	Estimated Quantity		Unit Price		Total	
1	Mobilization - shall not exceed 5% of total bid	Lump Sum	1	x	\$	=	\$	
2	Insurance & Bonds	Lump Sum	1	x	\$	=	\$	
3	8" Concrete Pad	SY	8,526	x	\$	=	\$	
4	Curb & Gutter	LF	745	x	\$	=	\$	
5	4" Class 7Base	SY	8,803	x	\$	=	\$	
6	Hillside Embankment	CY	5,868	x	\$	=	\$	
7	Excavation and Grading	CY	2,700	x	\$	=	\$	
8	Removal of existing concrete pavement	SY	590	x	\$	=	\$	
<b>TOTAL BASE BID</b>							<b>\$</b>	
<b>Name of Contractor:</b> _____								

**Section 5 – Contract Times:**

A.) Bidder agrees that the Work will be substantially completed and ready for final payment within the number of calendar days indicated in **Addendum 1**.

B.) Bidder accepts the provisions of the Agreement referring to liquidated damages in the event of failure to complete the Work with the times specified in the **bid package**.

**Section 6 – Communications:**

A.) Communications concerning this Bid shall be addressed to the Bidder as follows:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Phone No. \_\_\_\_\_

FAX No. \_\_\_\_\_

**Section 7 – SIGNATURE:**

A.) This bid is being submitted in good faith, according to the entire bid package presented:

City of Fayetteville, Arkansas

**Bid 12-39, Addendum 1**

Page 4 of 5

SUBMITTED on this \_\_\_\_\_ Date of \_\_\_\_\_, 20\_\_\_\_\_.

Arkansas State Contractor License No. \_\_\_\_\_

If Bidder is:

**OPTION 1: An Individual**

Name (type or printed): \_\_\_\_\_

By: \_\_\_\_\_ (SEAL)

(Individual's Signature)

Doing business as: \_\_\_\_\_

Business address: \_\_\_\_\_

Phone No.: \_\_\_\_\_ FAX No.: \_\_\_\_\_

**OPTION 2: A Partnership**

Partnership Name: \_\_\_\_\_ (SEAL)

By: \_\_\_\_\_

(Signature of general partner – attach evidence of authority to sign)

Name (type or printed): \_\_\_\_\_

Business address: \_\_\_\_\_

Phone No.: \_\_\_\_\_ FAX No.: \_\_\_\_\_

**OPTION 3: A Corporation**

Corporation Name: \_\_\_\_\_ (SEAL)

Date of Incorporation: \_\_\_\_\_

Type (General Business, Professional, Service, Limited Liability): \_\_\_\_\_

By: \_\_\_\_\_

(Signature – attach evidence of authority to sign)

Name (type or printed): \_\_\_\_\_

Title: \_\_\_\_\_

(CORPORATE SEAL)

Business address: \_\_\_\_\_

Phone No.: \_\_\_\_\_ FAX No.: \_\_\_\_\_

# Bid 12-39, Addendum 2



**Date:** Thursday, April 26, 2012

**To:** All Prospective Vendors

**From:** Andrea Foren Rasco, CPPB, CPPO, 479.575.8220, [aforen@ci.fayetteville.ar.us](mailto:aforen@ci.fayetteville.ar.us)

**RE:** Bid 12-39, Construction – Installation of Concrete Pad

This addendum is hereby made a part of the contract documents to the same extent as though it were originally included therein. Bidders should indicate their receipt of same in the appropriate blank of the Bid Form. Failure to do so may subject bidder to disqualification. Addendum should be attached to the inside cover of the bidding documents, signed, and dated.

- 1.) **The deadline for bids has been extended until Monday, April 30, 2012 before 2:00:00 PM, local time. All bids shall be delivered to Room 306 in City Hall prior to the deadline stated. No late bids shall be accepted.**
- 2.) Awarded contractor shall be responsible for compaction testing and construction staking.
- 3.) Existing concrete slab shall be removed and properly disposed of, per item 8 in the bid form.
- 4.) All excess material on the project shall be taken off site and properly disposed of. The City **will not** provide a location to store or haul removed excess materials.
- 5.) Reference Attachment A, Page 13: Concrete pavement surfaces shall be given a **Class 6, broom finish**.
- 6.) Dowels are not required to be smooth.

Acknowledge Addendum #2:

\*Printed Name: \_\_\_\_\_

\*Signature: \_\_\_\_\_

\*Title: \_\_\_\_\_ \*Date: \_\_\_\_\_

\*Company: \_\_\_\_\_

Permit No. ARR150000

# SITE WITH AUTOMATIC COVERAGE (LESS THAN 5 ACRES) CONSTRUCTION SITE NOTICE

FOR THE  
Arkansas Department of Environmental Quality (ADEQ)  
Storm Water Program  
**NPDES GENERAL PERMIT NO. ARR150000**

The following information is posted in compliance with **Part I.B.8.b** of the ADEQ General Permit Number **ARR150000** for discharges of stormwater runoff from sites with automatic coverage. Additional information regarding the ADEQ stormwater program may be found on the internet at:

[www.adeq.state.ar.us/water/branch\\_npdes/stormwater](http://www.adeq.state.ar.us/water/branch_npdes/stormwater)

Permit Number	ARR150000
Contact Name: Phone Number:	<u>Matt Casey</u> <u>479-444-3429</u>
Project Description (Name, Location, etc.): Start Date: End Date: Total Acres:	<u>City of Fayetteville Compost Facility</u> <u>June 2012</u> <u>1.625 Acres</u>
Location of Stormwater Pollution Prevention Plan:	<u>Onsite</u>

For Construction Sites Authorized under **Part I.B.6.b** (Automatic Coverage) the following certification must be completed:

I Matt Casey (Typed or Printed Name of Person Completing this Certification) certify under penalty of law that I have read and understand the eligibility requirements for claiming an authorization under Part I.B.2. of the ADEQ General Permit Number ARR150000. A stormwater pollution prevention plan has been developed and implemented according to the requirements contained in Part II.A.2.B & D of the permit. I am aware there are significant penalties for providing false information or for conducted unauthorized discharges, including the possibility of fine and imprisonment for knowing violations.

Signature and Title

Date

4/25/12

Stormwater Pollution Prevention Plan (SWPPP) for Construction Activity  
for Small Construction Sites

National Pollutant Discharge Elimination System (NPDES)  
General Permit # ARR150000

Prepared for:

City of Fayetteville  
Solid Waste Division

**Concrete Pad Installation**

**At**

**Compost Facility**

Date:

April 20, 2012

Prepared by:

Matt Casey, P.E.

Project Name and Location: Concrete Pad Installation at Compost Facility

Property Parcel Number (Optional): \_\_\_\_\_

Operator Name and Address: City of Fayetteville Solid Waste Division

A. Site Description

a. Project description, intended use after NOI is filed: Installation of a 70.000 sf concrete pad for compost operations and expanding the existing sedimentation basin.

b. Sequence of major activities which disturb soils: Removal of a minimum of 2' of existing soil, replacement of soil with stable Hillside Material, forming and placement of concrete.

c. Total Area: 1.62 Acres    Disturbed Area: 1.62 Acres

B. Responsible Parties

Individual/Company	Phone Number	Service Provided for SWPPP (i.e., Inspector, SWPPP revisions, Stabilization Activities, BMP Maintenance, etc.)
Brian Pugh City of Fayetteville	479718-7685	Project Manager
Contractor to be determined		General Contractor

C. Receiving Waters

a. The following waterbody (or waterbodies) receives stormwater from this construction site: West Fork of the White River

b. Is the project located within the jurisdiction of an MS4?  Yes  No

i. If yes, Name of MS4: City of Fayetteville

c. Ultimate Receiving Water:

- |   |   |
|---|---|
| <input type="checkbox"/> Red River      | <input checked="" type="checkbox"/> White River |
| <input type="checkbox"/> Ouachita River | <input type="checkbox"/> St. Francis River      |
| <input type="checkbox"/> Arkansas River | <input type="checkbox"/> Mississippi River      |

D. Site Map Requirements (Attach Site Map):

a. Pre-construction topographic view;



- b. Direction of stormwater flow (i.e., use arrows to show which direction stormwater will flow) and approximate slopes anticipated after grading activities;
- c. Delineate on the site map areas of soil disturbance and areas that will not be disturbed under the coverage of this permit;
- d. Location of major structural and nonstructural controls identified in the plan;
- e. Location of main construction entrance and exit;
- f. Location where stabilization practices are expected to occur;
- g. Locations of off-site materials, waste, borrow area, or equipment storage area;
- h. Location of areas used for concrete wash-out;
- i. Location of all surface water bodies (including wetlands);
- j. Locations where stormwater is discharged to a surface water and/or municipal separate storm sewer system if applicable,
- k. Locations where stormwater is discharged off-site (should be continuously updated);
- l. Areas where final stabilization has been accomplished and no further construction phase permit requirements apply.

E. Stormwater Controls

- a. Initial Site Stabilization, Erosion and Sediment Controls, and Best Management Practices:

- i. Initial Site Stabilization: Installation of erosion control devices (silt fence)  
Site has an existing sedimentation pond.
- ii. Erosion and Sediment Controls: Installation of erosion control devices (silt fence and the existing sedimentation pond.
- iii. If periodic inspections or other information indicates a control has been used inappropriately or incorrectly, the operator will replace or modify the control for site situations:  Yes  No  
If No, explain: \_\_\_\_\_  
\_\_\_\_\_
- iv. Off-site accumulations of sediment will be removed at a frequency sufficient to minimize off-site impacts:  Yes  No  
If No, explain: \_\_\_\_\_  
\_\_\_\_\_
- v. Sediment will be removed from sediment traps or sedimentation ponds when design capacity has been reduced by 50%:  Yes  No  
If No, explain: \_\_\_\_\_  
\_\_\_\_\_

- vi. Litter, construction debris, and construction chemicals exposed to stormwater shall be prevented from becoming a pollutant source for stormwater discharges:  Yes  No

If No, explain: \_\_\_\_\_  
\_\_\_\_\_

- vii. Off-site material storage areas used solely by the permitted project are being covered by this SWPPP:  Yes  No

If Yes, explain additional BMPs implemented at off-site material storage area: \_\_\_\_\_  
\_\_\_\_\_

b. Stabilization Practices

- i. Description and Schedule: Disturbed area will be either covered with concrete for the pad construction or will be seeded and mulched after construction.

- ii. Are buffer areas required?  Yes  No

If Yes, are buffer areas being used?  Yes  No

If No, explain why not: There is a sedimentation pond that collects all of the water from this site. If this fails, there is a 80' vegetated natural area directly downstream

If Yes, describe natural buffer areas: \_\_\_\_\_

- iii. A record of the dates when grading activities occur, when construction activities temporarily or permanently cease on a portion of the site, and when stabilization measures are initiated shall be included with the plan.  Yes  No

If No, explain: \_\_\_\_\_  
\_\_\_\_\_

- iv. Deadlines for stabilization: Stabilization procedures will be initiated 14 days after construction activity temporarily ceases on a portion of the site.

c. Structural Practices

- i. Describe any structural practices to divert flows from exposed soils, store flows, or otherwise limit runoff and the discharge of pollutants from exposed areas of the site: The site naturally slopes to a constructed sedimentation pond that will collect the water from the site

\_\_\_\_\_  
\_\_\_\_\_

ii. Sediment Basins:

Are 10 or more acres draining to a common point?  Yes  No

Is a sediment basin included in the project?  Yes  No

If Yes, what is the designed capacity for the storage?

3600 cubic feet per acre = : \_\_\_\_\_

or

10 year, 24 hour storm = : \_\_\_\_\_

Other criteria were used to design basin: Modeled to detain  
the 100-year storm flow from the site.

If No, explain why no sedimentation basin was included and describe required natural buffer areas and other controls implemented instead: \_\_\_\_\_

iii. Describe Velocity Dissipation Devices: Stone Rip Rap will be used at the  
concentrated areas entering the pond.

F. Other Controls

a. Solid materials, including building materials, shall be prevented from being discharged to Waters of the State:  Yes  No

b. Off-site vehicle tracking of sediments and the generation of dust shall be minimized through the use of:

A stabilized construction entrance and exit

Vehicle tire washing

Other controls, describe: \_\_\_\_\_

c. Temporary Sanitary Facilities: Located on-site

d. Concrete Waste Area Provided:

Yes

No. Concrete is used on the site, but no concrete washout is provided.

Explain why: \_\_\_\_\_

N/A, no concrete will be used with this project

e. Fuel Storage Areas, Hazardous Waste Storage, and Truck Wash Areas: \_\_\_\_\_

Not applicable

G. Non-Stormwater Discharges

- a. The following allowable non-stormwater discharges comingled with stormwater are present or anticipated at the site:
- Fire-fighting activities;
  - Fire hydrant flushings;
  - Water used to wash vehicles (where detergents or other chemicals are not used) or control dust in accordance with Part II.A.4.H.2;
  - Potable water sources including uncontaminated waterline flushings;
  - Landscape Irrigation;
  - Routine external building wash down which does not use detergents or other chemicals;
  - Pavement wash waters where spills or leaks of toxic or hazardous materials have not occurred (unless all spilled materials have been removed) and where detergents or other chemicals are not used;
  - Uncontaminated air conditioning, compressor condensate (See Part I.B.12.C of the permit);,
  - Uncontaminated springs, excavation dewatering and groundwater (See Part I.B.12.C of the permit);
  - Foundation or footing drains where flows are not contaminated with process materials such as solvents (See Part I.B.12.C of the permit);
- b. Describe any controls associated with non-stormwater discharges present at the site: \_\_\_\_\_

H. Applicable State or Local Programs: The SWPPP will be updated as necessary to reflect any revisions to applicable federal, state, or local requirements that affect the stormwater controls implemented at the site.  Yes  No

I. Inspections

- a. Inspection frequency:
- Every 7 calendar days
  - or
  - At least once every 14 calendar days and within 24 hours of the end of a storm even 0.5 inches or greater (a rain gauge must be maintained on-site)
- b. Inspections:
- Completed inspection forms will be kept with the SWPPP.
- ADEQ's inspection form will be used (See Appendix B)
  - or
  - A form other than ADEQ's inspection form will be used and is attached (See inspection form requirements Part II.A.4.L.2)
- c. Inspection records will be retained as part of the SWPPP for at least 3 years from the date of termination.

d. It is understood that the following sections describe waivers of site inspection requirements. All applicable documentation requirements will be followed in accordance with the referenced sections.

- i. Winter Conditions (Part II.A.4.L.3)
- ii. Adverse Weather Conditions (Part II.A.4.L.4)

J. Maintenance:

The following procedures to maintain vegetation, erosion and sediment control measures and other protective measures in good, effective operating condition will be followed: Daily inspections of erosion controls is expected by the contractor.  
Repairs will be addressed immediately.

Any necessary repairs will be completed, when practicable, before the next storm event, but not to exceed a period of 3 business days of discovery, or as otherwise directed by state or local officials.


K. Employee Training:

The following is a description of the training plan for personnel (including contractors and subcontractors) on this project: N/A

\*\*Note, Formal training classes given by Universities or other third-party organizations are not required, but recommended for qualified trainers; the permittee is responsible for the content of the training being adequate for personnel to implement the requirements of the permit.

Certification

"I certify under penalty of law that this document and all attachments such as Inspection Form were prepared under my direction or supervision in accordance with a system designed to ensure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Signature of Responsible or Cognizant Official:  \_\_\_\_\_

Title: ASST CITY ENG \_\_\_\_\_

Date: 7/20/12 \_\_\_\_\_

**ARR150000 Inspection Form**

Appendix A

Inspector Name: \_\_\_\_\_  
 Inspector Title: \_\_\_\_\_

Date of Inspection: \_\_\_\_\_

Date of Rainfall: \_\_\_\_\_  
 Days Since Last Rain Event: \_\_\_\_\_ days

Duration of Rainfall: \_\_\_\_\_  
 Rainfall Since Last Rain Event: \_\_\_\_\_ inches

Description of any Discharges During Inspection: \_\_\_\_\_  
 Location of Discharges of Sediment/Other Pollutant (specify pollutant & location): \_\_\_\_\_

Locations in Need of Additional BMPs: \_\_\_\_\_

**Information on Location of Construction Activities**

Location	Activity Begin Date	Activity Occuring Now (y/n)?	Activity Ceased Date	Stabilization Initiated Date	Stabilization Complete Date

**Information on BMPs in Need of Maintenance**

Location	In Working Order?	Maintenance Scheduled Date	Maintenance Completed Date	Maintenance to be Performed By

Changes required to the SWPPP: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Reasons for changes: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

SWPPP changes completed (date): \_\_\_\_\_

"I certify under penalty of law that this document and all attachments such as Inspection Form were prepared under my direction or supervision in accordance with a system designed to ensure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Signature of Responsible or Cognizant Official: \_\_\_\_\_ Date: \_\_\_\_\_

Title: \_\_\_\_\_

## BMP Consideration Checklist

## Appendix B

The BMPs listed here should be considered for every project. Those BMPs that are not included in the SWPPP should be checked as "Not Used" with a brief statement describing why it is not being used.

**Note: Appendix B and C do not have to be submitted with the SWPPP. These attachments are for use during the development of the SWPPP.**

EROSION CONTROL BMPs				
BMP	BMP Considered for project	BMP Used	BMP Not Used	If not used, state reason
EC-1 Scheduling	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
EC-2 Preservation of Existing Vegetation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
EC-3 Hydraulic Mulch	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
EC-4 Hydroseeding	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
EC-5 Soil Binders	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
EC-6 Straw Mulch	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
EC-7 Geotextiles & Mats	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
EC-8 Wood Mulching	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
EC-9 Earth Dikes & Drainage Swales	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
EC-10 Velocity Dissipation Devices	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
EC-11 Slope Drains	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
EC-12 Stream bank Stabilization	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
SEDIMENT CONTROL BMPs				
BMP	BMP Considered for project	BMP Used	BMP Not Used	If not used, state reason
SE-1 Silt Fence	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
SE-2 Sediment Basin	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
SE-3 Sediment Trap	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
SE-4 Check Dam	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
SE-5 Fiber Rolls	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
SE-6 Gravel Bag Berm	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
SE-7 Street Sweeping and Vacuuming	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
SE-8 Sand Bag Barrier	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
SE-9 Straw Bale Barrier	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
SE-10 Storm Drain Inlet Protection	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
SE-11 Chemical Treatment	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
WIND EROSION CONTROL BMPs				
BMP	BMP Considered for project	BMP Used	BMP Not Used	If not used, state reason
WE-1 Wind Erosion Control	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

**BMP Consideration Checklist**

**Appendix B**

<b>TRACKING CONTROL BMPs</b>				
<b>BMP</b>	<b>BMP Considered for project</b>	<b>BMP Used</b>	<b>BMP Not Used</b>	<b>If not used, state reason</b>
TR-1 Stabilized Construction Entrance/Exit	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
TR-2 Stabilized Construction Roadway	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
TR-3 Entrance/Outlet Tire Wash	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<b>NON-STORM WATER MANAGEMENT BMPs</b>				
<b>BMP</b>	<b>BMP Considered for project</b>	<b>BMP Used</b>	<b>BMP Not Used</b>	<b>If not used, state reason</b>
NS-1 Water Conservation Practices	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
NS-2 Dewatering Operations	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
NS-3 Paving and Grinding Operations	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
NS-4 Temporary Stream Crossing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
NS-5 Clear Water Diversion	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
NS-6 Illicit Connection/ Discharge	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
NS-7 Potable Water/Irrigation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
NS-8 Vehicle and Equipment Cleaning	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
NS-9 Vehicle and Equipment Fueling	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
NS-10 Vehicle and Equipment Maintenance	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
NS-11 Pile Driving Operations	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
NS-12 Concrete Curing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
NS-13 Concrete Finishing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
NS-14 Material and Equipment Use Over Water	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
NS-15 Demolition Adjacent to Water	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
NS-16 Temporary Batch Plants	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<b>WASTE MANAGEMENT AND MATERIALS POLLUTION CONTROL BMPs</b>				
<b>BMP</b>	<b>BMP Considered for project</b>	<b>BMP Used</b>	<b>BMP Not Used</b>	<b>If not used, state reason</b>
WM-1 Material Delivery and Storage	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
WM-2 Material Use	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
WM-3 Stockpile Management	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
WM-4 Spill Prevention and Control	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
WM-5 Solid Waste Management	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
WM-6 Hazardous Waste Management	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
WM-7 Contaminated Soil Management	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
WM-8 Concrete Waste Management	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
WM-9 Sanitary/Septic Waste Management	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
WM-10 Liquid Waste Management	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	



1946 Birch Avenue  
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*Van Buren, Arkansas*

*Tulsa, Oklahoma*



November 2, 2010

City of Fayetteville  
113 West Mountain Street  
Fayetteville, Arkansas 72701

Attention: Tom Hubbard  
Capital Projects and Contracts Engineer

RE: Proposed Pavement/Slab Concrete Subgrade Evaluation  
City of Fayetteville Compost Facility  
Fayetteville, Arkansas  
Project No. 10-15071R

Dear Mr. Hubbard:

This report provides the results of the subsurface exploration and engineering analysis performed for the planned improvements to the existing City of Fayetteville Compost Facility. The report has been revised from the originally submitted report of October 22, 2010 based on information received on November 2, 2010 from the client.

We understand that the improvements will include new concrete pavement/slabs to be constructed in the composting area. The new concrete pavement/slabs are understood to be used to store compost material and will allow mixing and transporting construction equipment to access the compost area during wet weather conditions.

Based on the results of four (4) test pits performed in the planned area of new concrete, the design and construction considerations for this project include the following:

- Existing soil fill material was encountered in the southwest area of the project site. The existing fill material generally consisted of clayey gravel type soils (GC per the Unified Soil Classification System, USCS) and had a measured depth of approximately two (2) feet below the existing ground surface at the test pit locations.
- The presence of existing trash intermixed with soil below the existing soil fill at the southwest corner of the planned new concrete pavement/slab, and at the ground surface at the north and northeast areas of planned improvement. The observed trash consisted of glass bottles, metal items and some deleterious material (paper, rubber). The trash and soil mixture extended to the terminal depths of the test pits (4 to 6 feet); and
- The absence of groundwater observed at the test pit locations.

City of Fayetteville  
Proposed Concrete Pavement/Slab – Compost Facility  
10-15071R  
Page 4



## **ENGINEERING ANALYSIS AND RECOMMENDATIONS**

### Existing Pavement Support Analysis

Based on the results of the subsurface exploration, the areas where existing fill material was observed at the surface of the test pit locations are stable and appear to be suitable for directly supporting placement of a concrete slab. However, soils underlying the existing fill material, and at the surface of the remaining test pit locations, consist of trash with some deleterious material. These soils should be anticipated to continue to consolidate over time. This will result in the potential for unsupported sections of concrete slab and slab failures. This can occur even in areas where stable existing fill material overlies the existing trash.

The only method to eliminate the potential for the existing trash and soil mixture to further consolidate would be to remove the trash mixture full depth. We understand this approach may not be feasible in terms of cost, time and usage of the property. Therefore other site grading recommendations are provided which are intended to reduce the amount of settlement the pavement subgrade will undergo. However, the client should understand that none of these options will eliminate the potential for pavement subgrade failure.

### **Site Grading Recommendations**

#### Alternative I (preferred method):

The subgrade should be undercut – if required – to allow placement of a minimum of 1 ½ feet of new fill material. A separation fabric – Mirafi 500x or other fabrics at least equivalent in physical and strength properties – should be placed immediately on top of the exposed subgrade, prior to placement of the fill material. The fill material may be placed as a bridging lift, if required, to stabilize the exposed soils at undercut depth. The bridging lift should be placed beginning with a maximum 18 inch (loose thickness) lift with the top 6 inches of the lift compacted to project specifications. Remaining lifts should be placed in maximum 8 inch lifts until finish subgrade elevations have been reached. A Geotechnical Engineer should oversee bridging operations to ensure the recommended 18 inches is adequate to stabilize the exposed soils.

#### Alternative II:

The subgrade should be undercut – if required – to allow placement of a minimum of two feet of new fill material below the pavement section. The fill material may be placed as a bridging lift, if required, to stabilize the exposed soils at undercut depth. The bridging lift should be placed beginning with a maximum 18 inch (loose thickness) lift with the top 6 inches of the lift compacted to project specifications. Remaining lifts should be placed in maximum 8 inch lifts until finish subgrade elevations have been reached. A Geotechnical Engineer should oversee bridging operations to ensure the recommended 18 inches is adequate to stabilize the exposed soils.

City of Fayetteville  
Proposed Concrete Pavement/Slab – Compost Facility  
10-15071R  
Page 5



Alternative III:

The subgrade should be graded to finish grades. After grading, the top 18 inches of soil should be mixed with 10 percent Class C Fly Ash or 6 percent Portland cement by dry unit weight. The weight of the existing soil can be estimated to be 110 pounds per cubic foot. Mixing of the Portland Cement or Class C Fly Ash should be performed with a Bomag © commercial rotary mixer or similar equipment. Mixing should be performed within 30 minutes of exposure of the chemical additive to the soil with the final compaction and grading to be completed within two hours of exposing the soil to the additive. After the two hour window has been reached, no construction traffic should be allowed on the stabilized soils for a period of at least 48 hours.

A Geotechnical Engineer should observe all stabilization methods.

City of Fayetteville  
 Proposed Concrete Pavement/Slab – Compost Facility  
 10-15071R  
 Page 6



**PAVEMENT DESIGN RECOMMENDATIONS**

**Pavement Thickness Designs**

In the absence of specific traffic loading information, and based the existing pavement performing adequately, it is our opinion that the original thickness design may be used for new areas of concrete pavement and slab. The below table provides pavement section design information. The table assumes that dowels will be used at each joint of the new concrete pavement panel.

Table 1 – JPCP - Doweled			
Rigid Pavement Section Alternative:	Concrete Thickness	Granular Material (Class 7 Base)	Subgrade
4,000 pounds per square inch (psi) compressive strength AHTD Class S(AE)	8"	4.0"	Described in the Site Grading Alternatives

The concrete shall have the minimum compressive strength noted, and have air entrainment in the range of 4 to 8%.

**Dowel Sizing and Spacing**

Smooth epoxy coated steel or fiberglass bar dowels should be used at each planned construction joint and at each saw cut. They should also be used between any new and existing concrete slab.

Additionally, the dowels should be “greased” and/or treated with a bond break to prevent the dowel from adhering to the existing or new concrete pavement.

The dowels should be placed at the mid depth of the pavement. If the new concrete panel will be placed adjacent to an existing concrete panel, the dowels should be placed at the mid depth of the thinnest of the two concrete sections. The design diameter, length and spacing of the dowel bars are shown on Table 2.

Table 2 – Dowel Bar Diameter, Length and Spacing			
Rigid Pavement Section	Dowel Diameter (inches)	Total Dowel Length (inches)	Dowel Spacing (inches on center)
8" Pavement Section	1	14	12

City of Fayetteville  
 Proposed Concrete Pavement/Slab – Compost Facility  
 10-15071R  
 Page 7



**GEOTECHNICAL REPORT REQUIREMENTS and SPECIFICATIONS**

The recommendations contained in this report are based on the following soil and construction specifications being adhered to during site grading:

Compaction Criteria			
Type of Material	Moisture-Density Specification	Percent of Maximum Dry Density, Minimum	Range from Optimum Moisture Content (%)
Soil Fill Material (stabilized or non-stabilized)	ASTM D-698 (Standard Proctor)	98	-2 to +4
Class 7 Base Course	ASTM D-1557 (Modified Proctor)	95	n/a

- Select fill needed for site grading should be placed in loose lifts not exceeding 9 inches in thickness (compacted lift thickness of approximately 6 to 7 inches). We recommend the fill be tested for density every lift during site grading, with a minimum of one test every 10,000 square feet of pavement area;
- “Select fill” should consist of imported clayey gravel fill material;
- The recommended moisture content and compaction of the select fill should be maintained until fills are completed and concrete slabs are constructed.

City of Fayetteville  
Proposed Concrete Pavement/Slab – Compost Facility  
10-15071R  
Page 8



## **GEOTECHNICAL REPORTS LIMITATIONS**

The recommendations contained in this report are based on our interpretation of subsurface conditions encountered at discrete test pit locations. Variations between the subsurface conditions anticipated in this report and actual project site conditions may occur away from the boring locations.

If significant differences between the findings of the borings and site conditions are observed, GTS, Inc. should be contacted to assess the variation and, if necessary, reevaluate the recommendations contained in this report.

## **EXCLUSIONS**

A Geotechnical Engineering report assesses the engineering properties of soil and rock. No environmental assessment of a project site is performed during a geotechnical exploration. If the owner is concerned about the potential for environmental hazards at the project site, other studies should be undertaken.

The recommendations contained in this report are based on the understood project described in the Project Description section of this report. The recommendations should not be relied upon if the project description changes from the one noted in this report.



City of Fayetteville  
Attendance Sheet

BID/RFP/RFQ #: Bid 12-39

Description: Const - installation of concrete pad

Function (circle one): Bid Opening, Selection Committee Meeting Pre-Bid Interview

Date: 4 / 20 / 12

Time: 10:30 AM

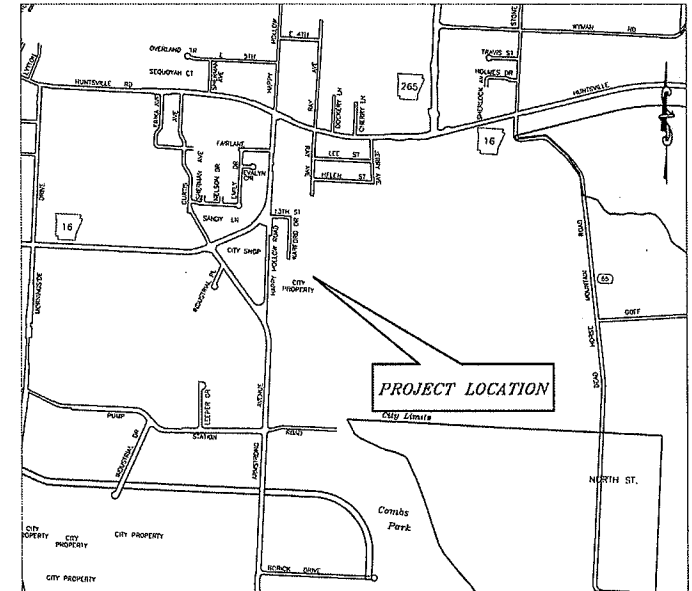
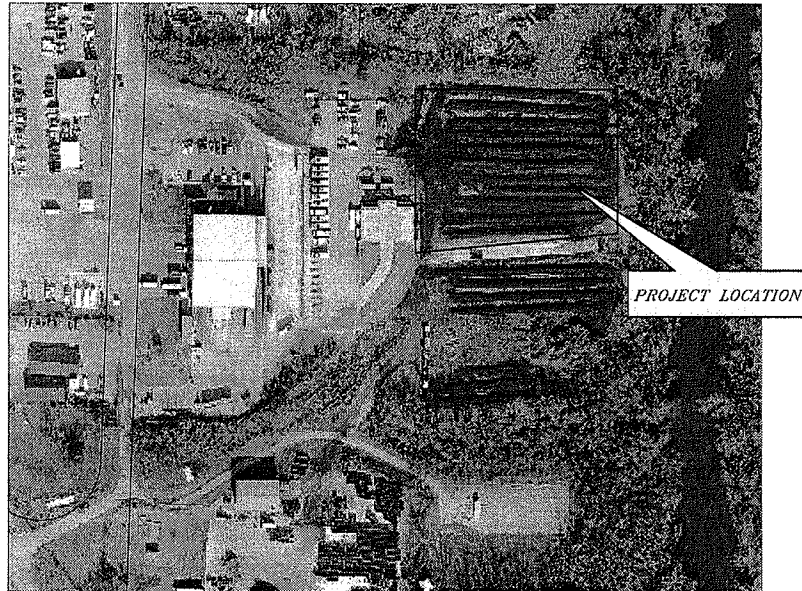
City staff e-mail includes "@ci.fayetteville.ar.us"

	Name	Company	Title	Phone	Email
1	Andrea Foren Pasco	City of Fayetteville	Purchasing Agent	479-575-8220	aforene
2	BYRAM McCUNE	GCC/Mid-Continent	SALES	479-721-3396	BYRAM.McCUNE@GCC.COM
3	Kenny Freeman	VEI General Contractors		(479) 968-5060	KFF@VEIGC.COM
4	STEVE BEAM	Steve Beam Const. Inc.	President	479-484-1634	SBEAM@STEVEBEAMCONSTRUCT
5	EARL FROSTMAN	R I I	PRASIDENT	479-521-6082	EARL.FROSTMAN@RII
6	FRED FISHERMAN	GEN CONST. SOLUTIONS	VP	479-751-8868	FSHERMAN@GENCONST.SOLUTIONS.COM
7	Wes Taylor	General Construction Solutions	President	479-751-8868	
8	Bobby Raggio	Raggio EXC Inc	Pres	479-651-3704	RaggioEXC@centerfor
9	Trouis Evans	Evans & Evans Inc.	President/owner	479-253-1773	EVANS-82@hotmail.com
10	MARK MANAFFEY	Tomlinson Asphalt	Gen. Manager	479-521-3179	markctomlinsonasphalt.com
11	DAVID JURGENS	City	Utilities Director	575-8300	djurgens@
12	KEAN BEANET	SSI NWA	VP	479-361-5857	
13	Brian Hoskins	Big "K" Construction	Rep	479-957-2811	bhoskins91@yahoo.com
14	Brandon King	Backus Concrete	Office Manager	479-444-7687	Brandon@BackusConcrete.com
15	Brian Rugh	City of Fayetteville	Waste Reduction Coordinator	479-718-7685	Brian Rugh
16	MATT CASEY	CITY OF FAYETTEVILLE	ASST. CITY CLK	479-444-3429	mcasey@ci.fayetteville.ar.us
17	LORRY BECK	LJB CONSTRUCTION INC.	PRES.	479-899-6140	
18					
19					
20					

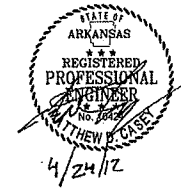
# CONCRETE PAD INSTALLATION AT COMPOST FACILITY *for the* **City of Fayetteville**

SITE MAP 1"=200'

VICINITY MAP 1"=1000'



PLAN INDEX	
SHEET NO.	DESCRIPTION
	COVER SHEET
1)	OVERALL PAD GRADING PLAN
2)	NORTH PAD JOINT LAYOUT
3)	NORTH PAD SWPPP PLAN



**ENGINEERING DIVISION**  
 PHONE: (479) 575-8206 FAX NO: (479) 575-8202  
 PROJECT: ENGR. No. 8126

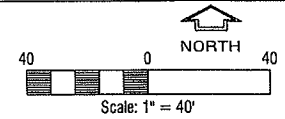




K:\Engineering Design Services\Projects\COMPOST FACILITY\COF Concrete Pad of Composting Facility\DESIGN\DESIGN.dwg  
 Heller, Eric  
 April 24, 2012 03-12-12.dwg

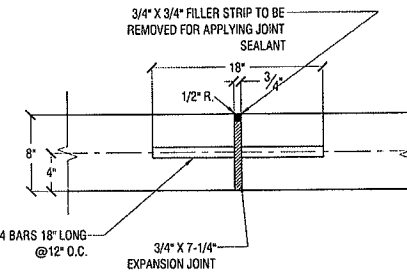
**GENERAL NOTES:**

- SMOOTH EPOXY COATED OR FIBERGLASS BAR DOWELS SHALL BE USED AT EACH CONSTRUCTION JOINT, EXPANSION JOINT, OR SAW CUT
- DOWELS SHALL BE INSTALLED BETWEEN ANY NEW AND EXISTING SLABS @12" O.C.
- DOWELS SHALL BE "GREASED" OR TREATED WITH A BOND BREAK TO PREVENT THE DOWEL FROM ADHERING TO THE CONCRETE
- ALL TRIANGULAR PANELS OR PANELS WITH A SIDE DIMENSION OF LESS THAN 12" SHALL BE REINFORCED WITH A MAT OF #4 BARS ON 12" CENTERS

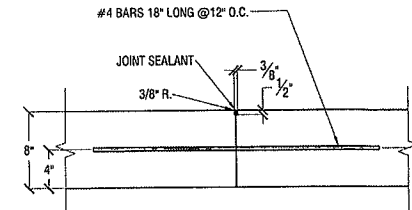


**LEGEND**

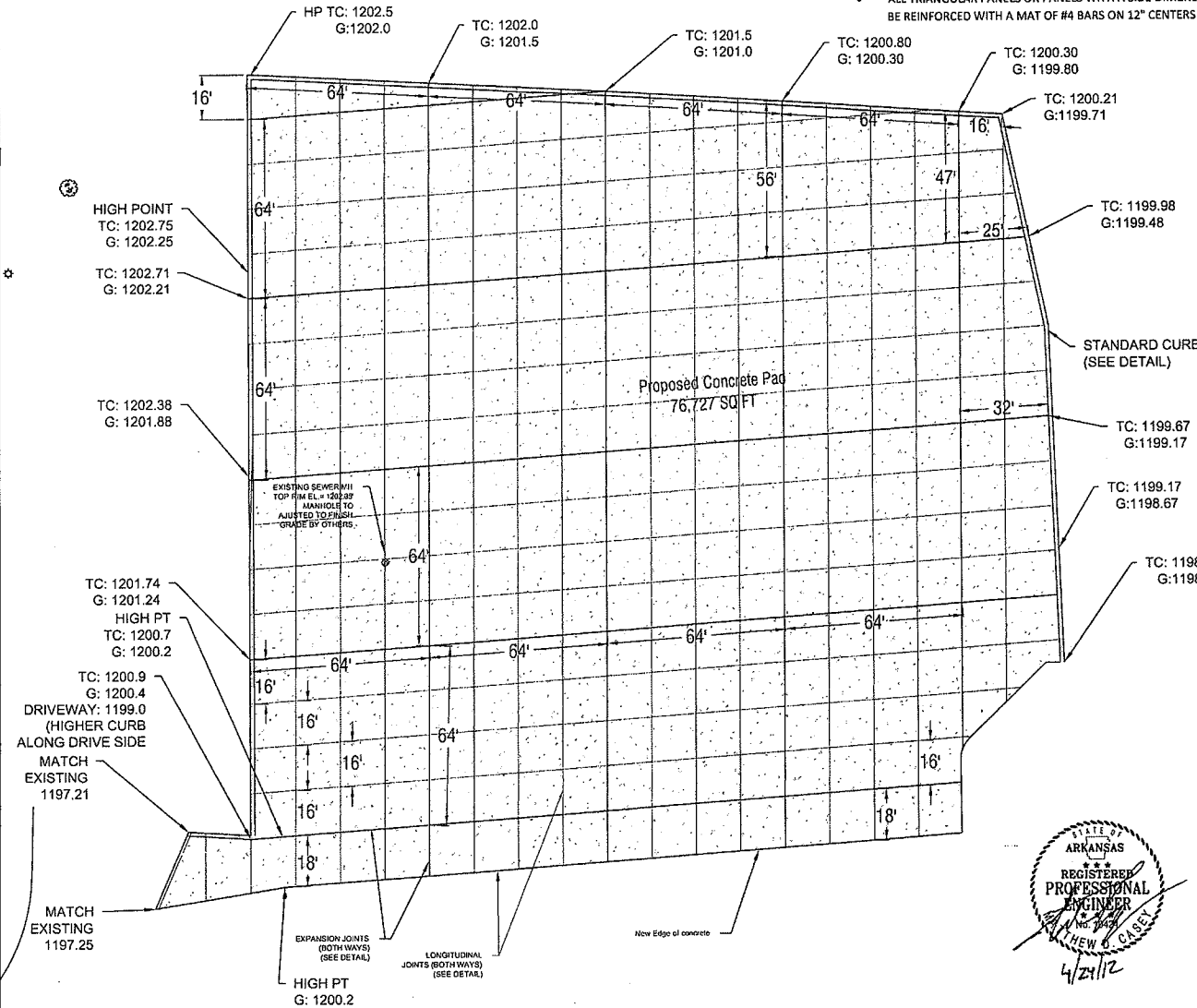
- PROPOSED CONCRETE
- EXISTING CONCRETE
- CURB AND GUTTER
- EXPANSION JOINTS
- CONSTRUCTION JOINTS
- TOP OF CURB ELEVATION
- GUTTER ELEVATION
- EDGE OF CONCRETE ELEVATION



**TYPE - E.J.**  
 EXPANSION JOINT



**TYPE - L.C.J.**  
 LONGITUDINAL CONSTRUCTION JOINT

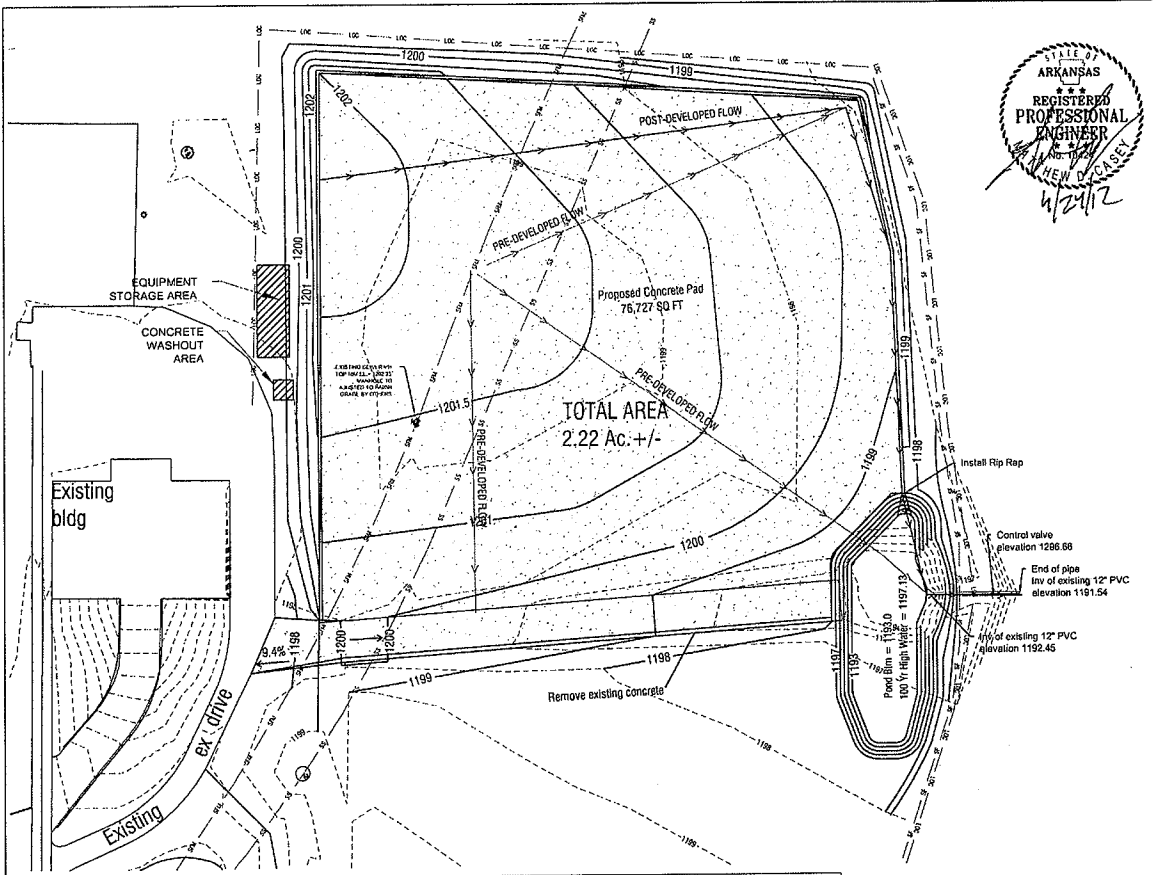


SURVEYED BY: DVD/JMP  
 DRAWN BY: ETH  
 DESIGNED BY: MC  
 FILE NAME: DESIGN 03-12-12.dwg  
 PROJECT: COMPOST FACILITY  
 CITY OF FAYETTEVILLE  
 NORTH PAD JOINT LAYOUT  
 ENGINEERING DIVISION  
 113 W. MOUNTAIN STREET  
 FAYETTEVILLE, ARKANSAS 72701  
 DATE: 4/24/2012  
 SHEET: 2 of 3  
 PROJECT: DESIGN 03-12-12

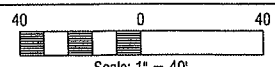
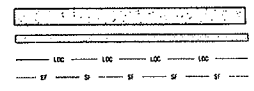
K:\Engineering Design\Projects\COMPOST FACILITY\COMPOST FACILITY\CONCRETE PAD.ctb Composting Facility DESIGN DESIGN

April 24, 2012 03-12-12.dwg

Heiler, Eric



**LEGEND**

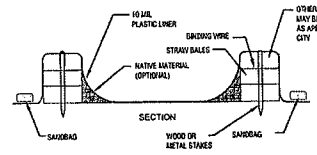
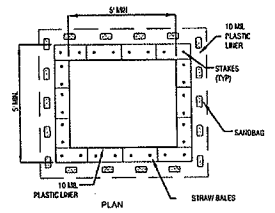


**GENERAL NOTES:**

- CONTRACTOR RESPONSIBLE FOR REPAIRING EXISTING DRIVE AND WALKWAYS DISTURBED DURING CONSTRUCTION
- ALL DISTURBED AREAS SHALL BE STABILIZED WITH SEED AND/OR MULCH IF CONSTRUCTION ACTIVITIES CEASE IN THAT AREA FOR MORE THAN 14 DAYS
- PERMANENT VEGETATION SHALL BE ESTABLISHED ON ALL DISTURBED AREAS AFTER FINAL GRADES ARE ESTABLISHED
- SILT FENCE SHALL BE INSTALLED PRIOR TO ANY GRADING ACTIVITIES

**WASHOUT BINS**

- NO WASHING OUT OF CONCRETE BRICKS OR BRICKS FROM EXISTING AGGREGATE CONCRETE INTO DRAINAGE OPENINGS, EXCEPT ON SPREADS IS ALLOWED.
- EXCESS CONCRETE IS NOT ALLOWED TO BE DUMPED ON SITE, EXCEPT IN DESIGNATED TEMPORARY CONCRETE WASHOUT AREAS.
- ON-SITE TEMPORARY CONCRETE WASHOUT AREAS WILL BE LOCATED AT LEAST 50 FEET FROM OTHER DRAINAGE, OR WASHOUT AREAS AS DETERMINED BY THE FIELD.
- TEMPORARY CONCRETE WASHOUT FACILITIES WILL BE CONSTRUCTED AND MAINTAINED BY SURVEYOR QUANTITY AND SIZE TO CONTAIN ALL LIQUID AND CONCRETE WASTE GENERATED BY WASHOUT OPERATIONS.
- WASHOUT FACILITIES WILL BE CLEANED OUT OR REPLACED ONCE THE WASHOUT IS 75% FULL.
- PLASTIC BARRIERS MATERIAL SHALL BE SEAMLESS OR HAVE FOURTY FIVE GALLONS PER GALLON OF HOLE, TEARS, OR OTHER DEFECTS.
- WHEN WASHOUT FACILITIES ARE NO LONGER REQUIRED FOR WORK, THE UNWASHED CONCRETE WILL BE PLACED AND DEPOSITED BY SITE. MATERIALS USED TO CONSTRUCT TEMPORARY CONCRETE WASHOUT FACILITIES WILL BE REMOVED FROM THE SITE AND DEPOSITED ON.



CONCRETE WASHOUT

SURVEYED BY: DVO/24P  
 DRAWN BY: EHH  
 DESIGNED BY: MC  
 FILE NAME: COMPOST FACILITY  
 DESIGN: 03-12-12.dwg

**COMPOST FACILITY  
 CITY OF FAYETTEVILLE  
 OVERALL PAD - SWPPP PLAN**

REVISIONS

DATE: 4/24/2012  
 SHEET: 3 of 3  
 PROJECT: 03-12-12

ENGINEERING DIVISION  
 113 W. MOUNTAIN STREET  
 FAYETTEVILLE, ARKANSAS 72701  
 PHONE NO: (479) 331-8000

**Fayetteville**  
 ARKANSAS

City of Fayetteville, AR  
 Official Bid Tabulation  
 Monday, April 30, 20120 - 2:00 PM

**Bid 12-39, Construction - Installation of Concrete Pad**

Item #	Description	Est. QTY	Unit	Arco Excavation and Paving, Inc.		Benchmark Construction Co.		Construmarr, Inc.		Kirk's Excavation, Inc.		LJB Construction, Inc.		Prime Contracting, Inc.		SSI, Inc. of NWA		Steve Beam Construction, Inc.		Sweetser Construction	
				UNIT PRICE	TOTAL	UNIT PRICE	TOTAL	UNIT PRICE	TOTAL	UNIT PRICE	TOTAL	UNIT PRICE	TOTAL	UNIT PRICE	TOTAL	UNIT PRICE	TOTAL	UNIT PRICE	TOTAL	UNIT PRICE	TOTAL
1	Mobilization - shall not exceed 5% of total bid	1	Lump Sum	\$14,400.00	\$14,400.00	\$3,900.00	\$3,900.00	\$13,523.60	\$13,523.60	\$16,211.00	\$16,211.00	\$20,000.00	\$20,000.00	\$12,786.00	\$12,786.00	\$4,482.00	\$4,482.00	\$8,550.00	\$8,550.00	\$2,500.00	\$2,500.00
2	Insurance & Bonds	1	Lump Sum	\$8,500.00	\$8,500.00	\$7,450.00	\$7,450.00	\$16,570.00	\$16,570.00	\$52,768.00	\$52,768.00	\$5,000.00	\$5,000.00	\$15,262.00	\$15,262.00	\$3,700.00	\$3,700.00	\$7,100.00	\$7,100.00	\$7,750.00	\$7,750.00
3	8" Concrete Pad	8,526	SY	\$27.43	\$233,868.18	\$30.93	\$263,709.18	\$35.00	\$298,410.00	\$23.75	\$202,492.50	\$32.70	\$278,800.20	\$49.15	\$419,052.90	\$32.07	\$273,428.82	\$44.21	\$376,934.46	\$45.00	\$383,670.00
4	Curb & Gutter	745	LF	\$11.20	\$8,344.00	\$11.07	\$8,247.15	\$12.00	\$8,940.00	\$20.00	\$14,900.00	\$10.00	\$7,450.00	\$17.54	\$13,067.30	\$10.35	\$7,710.75	\$11.50	\$8,567.50	\$10.00	\$7,450.00
5	4" Class 7 Base	8,803	SY	\$4.00	\$35,212.00	\$3.78	\$33,275.34	\$4.40	\$38,733.20	\$3.10	\$27,289.30	\$2.75	\$24,208.25	\$3.85	\$33,891.55	\$3.62	\$31,866.86	\$3.30	\$29,049.90	\$4.00	\$35,212.00
6	Hillside Embankment	5,868	CY	\$11.65	\$68,362.20	\$10.80	\$63,374.40	\$12.40	\$72,763.20	\$9.50	\$55,746.00	\$11.50	\$67,482.00	\$9.23	\$54,161.64	\$10.35	\$60,733.80	\$9.45	\$55,452.60	\$9.50	\$55,746.00
7	Excavation and Grading	2,700	CY	\$7.90	\$21,330.00	\$9.00	\$24,300.00	\$12.25	\$33,075.00	\$7.25	\$19,575.00	\$6.00	\$16,200.00	\$7.87	\$21,249.00	\$8.62	\$23,274.00	\$8.20	\$22,140.00	\$9.50	\$25,650.00
8	Removal of existing concrete pavement	590	SY	\$6.50	\$3,835.00	\$5.60	\$3,304.00	\$9.00	\$5,310.00	\$7.25	\$4,277.50	\$18.00	\$10,620.00	\$3.00	\$1,770.00	\$5.17	\$3,050.30	\$4.72	\$2,784.80	\$7.50	\$4,425.00
TOTAL BID BASED ON ESTIMATES=					\$393,851.38	\$407,560.07	\$487,325.00	\$393,259.30	\$429,760.45	\$571,240.39	\$408,246.53	\$510,579.26	\$522,403.00								

\*Bid Rejected

\*Bid Rejected

*Andrea Foren*  
 Certified: Andrea Foren, CPPB, CPPO, Purchasing Agent

*J. Man*  
 WITNESS

5/1/12  
 DATE

\*NOTICE: Bid award is contingent upon vendor meeting minimum specifications and formal authorization by City officials.