MISC. ORDER NO. 33-33

IN THE COUNTY COURT OF CRAIGHEAD COUNTY, ARKANSAS

IN THE MATTER OF AWARDING BIDS FOR FULL DEPTH RECLAMATION OF COUTNY ROADS 945 & 928.

FILED

MAY 15 2023

ORDER

COUNTY & PROBATE COURT CLERK

COMES BEFORE THE COUNTY COURT THE MATTER OF AWARDING BIDS FOR FULL DEPTH RECLAMATION OF CR945 AND CR928.

BIDS WERE ADVERTISED AND PUBLICLY OPENED IN ACCORDANCE WITH ARKANSAS CODE 14-22-101 THROUGH 14-22-115 CONCERNING PUBLIC BIDDING. IT IS THEREFORE CONSIDERED, ORDERED AND ADJUDGED THAT THE LOW OVERALL BID OF \$2,589,960.71 BE ACCEPTED FROM ATLAS ASPHALT, PO Box 2500, JONESBORO, AR 72402.

DATED THIS 15 DAY OF MAY 2023.

APPROVED:

MARVIN DAY

CRAIGHEAD COUNTY JUDGE

AR13/5

FROM:

VENDOR'S COPY

PURCHASE ORDER

CRAIGHEAD COUNTY ARKANSAS

SHOW THIS NO. ON ALL INVOICES, DELIVERY SLIPS, CASES, BOXES, ETC

PURCHASE ORDER 56012

TO: ATIZS ASPAZIT
PO BOX 2500
TONOSBON, AR 72402

Craighead County Purchasing Department

c/o County Judge's Office

870-933-4504

511 Union, Room 119

Jonesboro, AR 72401 Phone 870-933-4500

Please furnish the following to Craighead County and be governed by the instructions hereon.

DATE 5-15-23
Req. by: Judge Day

Req. No.:

Bid No.: 2023-16

Charge to Account No.:

ITEM QUANTITY	BRAND, CATALOG NO. AND DESCRIPTION	UNIT PRICE	* TOTAL
	FULL DOFT NECLOMOTICS (FOR) USING COMMIC CR 945 H CR 928 FOR STOR, TOOL 625 12 "THICK 54,080 SY — 11 11 11 10" 11 19040 SY — COMMIT 3009 TONS — PYTHOCOST 10,768 92/1015 — RCHM 11,059,4 TONS — THEIS COST 3351,30 92/1015 — TYPESTIC LUNTRY — MUBILIZZ TION —	97.61	435, 344,00 153, 462,40 791, 697, 99 41, 130.00 1,079,508.03 19,303,49 40,910.51 28,604.29
	All According to specifications in Bid Prg 2023-16	7	

SHIP TO:	
Carphold found Road	Delt.
1879hold bung Road 2800 Moore Road	
Johnsburo, AR 724	

DEL. PROMISED:

DEL. REQUIRED:

TERMS:

TOTAL 🕨

F.O.B.: DOSTINSTION

PRICING:

hearing that all	file above articles i	or services have:	been received.
in good order e	tre above aricles xcept as fored:		
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1.0		44	on Explana
Signed		Carrier Contract	

CRAIGHEAD COUNTY

By Alfan

Purchasing Agent

\$41,658.70 \$240,979.32	1		_					-		
\$41,658.70								Mobilization (Lump Sum)	7	
\$41,658.70								(One lane traffic at a time)		
					4				0	
\$17,091.63			\$5.10	3,351.30			-		O1	Fax:
\$1,520,999.28		\$137.53				11,059.4			4	
	\$7.80				10,968				ω	Don Weaver
\$773,403.27		\$257.03				3,009			- †	23
\$510,462.40			\$26.81				19,040.00	FDR Stabilized base 10" thick	CR 928	_
\$1,380,662.40			\$25.53				54,080.00	FDR Stabilized base 12" thick	CR 945 1	Weaver Bailey Const C
\$2,099,020.40	lotal									
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T	\$2.50				10,968			Prime Coat(CSS-1h) (.15gl/sqyd)	ω	Burt Sugg
4	3	\$292.00				3,009		Cement	2	Jonesboro, AR 72403
\$114,240.00			\$6.00				19,040.00	FDR Stabilized base 10" thick	CR 928	
\$27.0,400.00			\$5.00				54,080.00	FDR Stabilized base 12" thick	CR 945 1	Sugg Construction,In CI
200000)					-		
\$2,589,960.71	Total									
\$28,604.29			-					Mobilization (Lump Sum)	7	
								(One lane traffic at a time)		
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\$41,130.00	\$3.75				10,968			Prime Coat(CSS-1h) (.15gl/sqyd)	ω	Brian Fulkerson
\$/91,697.99	1	\$263.11				3,009		Cement	2	R 72402
\$100,402.40			\$8.06				19,040.00	FDR Stabilized base 10" thick	CR 928	
\$435,344.00			\$8.05				54,080.00	FDR Stabilized base 12" thick	CR 945 1	Atlas Asphalt CF
				.05 gl/sq yd	.15 gl/sq yd				A	dob
Extended Price	Per Gal	Per Ton	Per SqYd	Tack(Gal)	Prime(Gal)	Tons	Sq Yds			
	Price	Price	Price	Estimated	Estimated	Estimated	Estimated			
						ned	to be reclain	Ich number of County Roads to be reclaimed		
						7	ısina Cemei	End Don'th Reclamation(FDR) using Cement		
								D:4 0000 A6		
								Rid Tabulation Sheet		

Affidavit of Publication

STATE OF AR }
COUNTY OF CRAIGHEAD }

Matthew Smith, being duly sworn, says:

That he is Classified Director of the Jonesboro Sun, a daily newspaper of general circulation, printed and published in Jonesboro, Craighead County, AR; that the publication, a copy of which is attached hereto, was published in the said newspaper on the following dates:

April 29, 2023

armiste de de }

Publisher's Fee: \$ 79.30

GOÁTHAIA CE CHVAGHEVE

That said newspaper was regularly issued and circulated on those dates.

SIGNED:

Subscribed to and swom to me this 29th day of April 2023.

00013656 70658135

Janet Melton, Notary Public 9/6/2032

RECEIVED

MAY 0 3 2023

FROM CRAIGHEAD COUNTY JUDGE'S OFFICE

NOTICE TO BIDDERS

additions describe

Craighead County is now accepting bids until 2:00 PM, May 11, 2023, local time, at the Craighead County Judge's office for the following:

Full Depth Reclamation using cement to reclaim county roads in Craighead County, Arkansas.

Bid specifications may be picked up at the County Judge's office, Craighead County Courthouse Annex, 511 Union St, Suite 119, Jonesboro, Arkansas, Monday through Friday, from 8:00 AM until 5:00 PM.

Bids will be opened at 2:00 PM, May 11, 2023, local time, in the County Judge's office.

The County reserves the right to reject any or all bids or any part of any specific bid

end Colling

Bid specifications are available on the County Web Site at www.craigheadcounty.org

Al Haines
Purchasing Agent
Craighead County

JANET MELTON NOTARY PUBLIC -STATE OF ARKANSAS CRAIGHEAG COUNTY My Commission Expires 09-06-2032 Commission No. 12389619

	CRAI	GHEAD COL	INTY					
	INVITATION	TO BID-Not	an Order	The second secon		10 TEC MOS - 40 - 40 AMERICA - 10 C - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -		
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PURCHASI	NG OFFICE			-	 			of the congress of the ending the changes of the
BID NO. 2		***************************************	DATE Apr	1 25 2023				
	subject to the conditions on the attached hereo	f and se may			accined at this a	ffina		***************************************
	M May 11, 2023 and then publicly opened, for				sceived at trits t	nice		***************************************
	tes as described below.	Turnsmig me	Supplies, ma	iteriais,				
1		~~~~~	Ride will be	opened <u>May</u>	44 2022	**************************************		
				:00 P.M. Loca				
FOR Crain	head County, Arkansas		BY: Al Hair		ii iiiile			·····
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tem#	DESCRIPTION		THE PARTY AND ADDRESS OF THE PARTY OF THE PA					
1	The intent of the attached specifical	tions is to des	cribe Full D	epth Reclama	tion (FDR) usi	ng cement		
	and type of materials to use and the	process and	l procedures	necessary in	reclaiming cou	inty roads		
	in Craighead County.							terrenten er er en
2	The successful bidder will furnish C			d	A. Schilderen			motorish some to about see terrori acceptables - o - o
.1.	copy of all delivery receipts for each		and will				***************************************	
	invoice the County for each job indi							***
3	Does bidder meet all specifications		No					
	If no, please attach sheets explainir	ig differences	3.			The second secon		***************************************
4	Successful bidder shall maintain bid	d price throug	hout the yea	r of 2023.				***************************************
5	Bidder should specify approximate	start date if a	warded bid.	Days 45		The same of the sa	***************************************	*************************
6	Bidder shall quote each item on the	bid sheet pe	rton, sq yd,	and gallons a	s specified on	bid sheet.		~~************************************
7	Bid must be signed by an authorize							
8	Bidder should return all pages of thi			The state of the s	***************************************			entitationina entre entre esta de la company
9	Bid # 2023-16 must be noted on the	outside of b	idders envel	ope.				
10	Bidder should list price: Total co	ost for all joi	s \$ 2,589.	960.71				MSSM (All Morton In Son a second consultance as a con- violence
			T				*Orablem Windstein Transcript Communication	
********	EXECUTIO	N OF BID	1		 		the transfer of the second second second	
	4.5		Data May	11, 2023	L			
N/n 41n n		t fauth in this			36 3 8 8 3			
ve, the und	lersigned, have read all the requirements se	t torth in this	oid proposal	including spe	citications,	,		
	and pertinent information regarding the articl	es being bid	on, and we a	agree to turnis	<u>p</u>	managira na managanagana ga panaganaganagan		
articles at th	e prices instructions, stated.	and the first of the court of t	·				rom was mile i de l'additionare a company personal y	er er mannet i
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	se Tax Register No. 71-0480598	4000 A		Waterspronant and an inclusion				
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	Brian Fulkerson City Jo							
Activities and the second	(Person Authorized to Sign Bids)	Title S	Senior Vice	-President				
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	UNSIGNED BIDS	AND THE RESIDENCE AND ADDRESS OF THE PARTY O	errain salar e anticomença derain agrain sur	vi. a	Application of African and Africano.			F Mar 15 14
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NOTICE TO	BIDDERS, SEE REVERSE SIDE OR ATT.	ACHMENTS	FOR INSTR	RUCTIONS AN	ND CONDITIO	NS.		

	CRAIGHEAD COUNTY	
	JONESBORO, ARKANSAS	
	CONDITIONS OF BIDDING	***************************************
	Compliance with the following conditions is necessary for consideration of this bid.	
	, something conditions of necessary for consideration of this pid.	***************************************
1	Signature-This bid must be signed with the firm name and by an authorized officer, employee or agent.	
2	Sales Tax-Is not to be shown in the bid price, but is to be added by the vendor to the invoice billing to the County.	
	The County is not exempt from Arkansas State Sales Tax. Contractors are to include all costs into the bid price,	
	including applicable taxes.	
3	Freight and other delivery charges to destination at designated County job site in the County must be included in bid.	
	Charges may not be added after the bid is opened.	
4	Discounts-Show rate, total amount, and latest day any discounts will be allowed after receipt of article and invoice,	***************************************
7.	otherwise County will deduct allowed discount when payment is made.	
5	Simplified All release to the Villege County will deduct anowed discount when payment is made.	
	Firm Price-All prices quoted will remain firm for at least 30 days from date of bid, unless otherwise specified	
6	by the County or bidder	
	Identical Bids-In the event of two or more identical low bids, the contract may be awarded arbitrarily or for	
	any reason to any of such bidders, or split in any proportion between the said two or more bidders at	
7	discretion of the County.	
	Clean up-Complete cleanup and proper disposal of any and all job related items is considered to be a part of any	
	contract let by Craighead County.	The second secon
8	Ambiguity in bid-Any ambiguity in any bid as the result of omission, error, lack of clarity or non-compliance	Control of the Contro
	specifications, instructions, and all conditions of bidding shall be construed in the light most favorable to the County	Market Commission of Commissio
9	Construction	And the second s
	A. When requested, the Contractor is to supply the County with evidence of having and maintaining proper and	Andrew and the property comments and a second a second and a second and a second and a second and a second an
	specifically Workman's Compensation Insurance in accordance with the laws of the State of Arkansas,	
	Public Liability, and Property Damage. All premiums and cost shall be paid by Contractor. In no way will the	The second secon
	County be responsible in case of accident.	and the second s
	B. A Performance Bond equaling the total amount of any bid exceeding \$50,000 must be provided for	and the state of t
	erection of any public building, public structure, or public improvement(Pursuant to Arkansas Code 18-44-503.)	American de Carinda de como de esta en especial de esta en especial de esta en especial de esta en est
10	The County reserves the right to reject any and all bids, accept in whole or in part, to waive informalities in bids	Marin at and a second s
	received, to accept bids on materials or equipment with variations from specifications in those cases where efficiency	amendonical control of my property on develop reference parties and an
	of operation will not be impaired, and unless otherwise specified by bidder, to accept any item in the bid. If unit prices	
	and extensions thereof do not coincide, the County may accept the bid for the lesser amount whether reflected	
	by extension or by the correct multiple of the unit price.	
		Description of the Control of the Co
	INSTRUCTIONS TO BIDDERS	
	(Please read carefully)	The second section of the sect
1	Submit bid on bid form attached.	
2	Address all bids to: Purchasing Director, Craighead County Judge's Office, 511 Union St.; Suite 119,	***************************************
	Jonesboro, Arkansas 72401 and make certain to indicate identifying bid number on the outside of bid envelope	DWWW.Quipulanteen and a restrict party of the analysis and a substitution of the subst
3	DO NOT include Federal Excise Tax in bid. County will furnish exemption certificate.	***************************************
4	Bids received after stated time will not be considered.	
5	Be sure and read all conditions and verify amounts before submitting bids. No changes or additions will be	
	allowed after submission.	
6	Guarantees and warranties should be attached as a part of the bid, as they may be a consideration	***************************************
***************************************	in awarding contract.	
7	Delivery or contract completion time is to be shown, as this date may, where time is of the	
	essence, determine the contract award.	
8	Additional information may be obtained from the Purchasing Department.	
9	Point of contact will be Road Supt, John James at 870-450-2352	
	COUNTY RESERVES THE RIGHT TO ACCEPT PART OR ALL OF ANY SPECIFIC BID OR BIDS	
IHE	AND TO ACCEPT BID WITH OR WITHOUT TRADE-IN, AND REJECT ANY AND ALL BIDS.	
	AND TO AGGET I BID WITH OR WITHOUT TRADE-IN, AND REJECT ANY AND ALL BIDS.	

1			SPECIFICA	LIUNS		1	I.	I	1	1
		Scope: We are requesting pricing			n (FDR) using	cement for	County road	c This incl	1 do - 401	£L.fl.
		and 12" thick stabilized base, ceme	ent. prime coa	t. tack coat	ACHM traffic	control and	mobilization	5. The worl	udes 10"	tnick
	-	be done in accordance with the cur	rent ARDOT s	specification	s. Craighead	County Cone	truction So	offications	WIII	
av a consistent (\$7.7%), minimum andreasement (\$2.5 pm.s.)		MTA Engineering studies, for full of	epth reclama	tion using ce	ement	County Cons	uucuon opi	cincations	, ano	V-11-11-11-11-11-11-11-11-11-11-11-11-11
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		after this date are \$500 per calend	arday If mate	erial availah	lity heromes	on iccus the	County will	lages		**************************************
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	consider alternative solutions.			my becomes	an issue the	County Will	***************************************		AC SAN I AND MAINTENANCE AND
100							·		 	
2	***************************************	Each item of job listed below must l	pe bid individu	ially as liste	l with a total	Last calculate			 	
3		These quantities are estimated for	oid ourposes	Please Incl	eat the job or	obsi calculate	U.,		l	Supplied to the supplied to th
	-W- volkins	quantities and cost per unit.	1	1 10000 1001	vat trie job, ca	Toulate	description of the second		-	***************************************
4		Craighead County reserves the righ	t to accept re	lect in who	e or in part to	1	**************************************			and the second s
	***************************************	waive informalities in bids received.	or accept hid	s with variet	ione			****		STORY AND AN ADDRESS OF THE PARTY OF THE PAR
5		Traffic control with one lane traffic a	it a time shall	he reenonei	hility of contro	l				
				DC 1C3porisi	Dility of Contre	TCIOI.				
6	*******	Cement stabilization shall be 24 f	eet wide							
7	***********	ACHM paving shall be 22 feet wid			The last and the l					
	V49 . vaniscope	Test strip will be required.		***************************************	The second secon	A committee of the state of the				
8		Bid bond shall be submitted with	bid and perf	ormance a	nd incurance	honde	* · vacquemepinquepaquequepaque	#4-x	· · · · · · · · · · · · · · · · · · ·	
		shall be submitted upon bid awar	d.	Jimano a	id mourance	DONGS	Marin v sukketaga-ressona, n-sasyigi	TOTAL TOTAL CONTRACTOR OF THE PARTY OF THE P		***************************************
9	***				***********************					
							***************************************	and the second s		798644
		Job number of County Roads to I	pe reclaimed		****	***************************************	7.80 <u></u>	-eometics-annual		
	Own Artist States		Estimated	Estimated	Estimated	Estimated	Price	Price	Price	***************************************
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A CR 928		FDR Stabilized base 10" thick	19,040.00		The state of the s		\$8.06		***************************************	\$153,462.40
	.,	Cement	harring to the same than the s	3,009			7	\$263.11	***************************************	\$791,697.99
		Prime Coat(CSS-1h) (.15gl/sqyd)	######################################		10,968			\$3.75		\$41,130.00
		ACHM (12.5mm)		11,059.4				\$97.61		\$1,079,508.03
		Tack Coat (.05gl/sqyd) Traffic Control (Lump Sum)		The state of the s	· · · · · · · · · · · · · · · · · · ·	3,351.30	er No. v. sky overstalenske,	\$5.76		\$19,303.49
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	7	Mobilization (Lump Sum)		A more source (N = A Ba - proposession	Berner van de Geregelske besteel de een de gewone en de een	enter adores enter este especial participation production		New year or passed and	managagaga on one of the state	#00.004.00
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- 2017 T- 27 - 27 - 27 - 27 - 27 - 27 - 27 -		Acknowledge Addendum #1	THE STATE OF THE S				***************************************	т,	tal Coof	#0 F00 000 =
		Acknowledge Addendum #2	12 87	_				3.5	vai Sust	\$2,589,960.7°

BID BOND	<u> </u>			
Conforms with The America Architects, A.I.A. Document	all becauting the because in a			
KNOW ALL BY THESE PRE	SENTS, That we, Atlas Asp	ohalt, Inc.		
			as Principal, h	ereinafter called the Principal,
nd the Fidelity and Deposi	t Company of Maryland			
Schaumburg, IL			, a cor	poration duly organized under
he laws of the State of	Illinois		, hereinafter called the Surety, a	· · · · · · · · · · · · · · · · · · ·
Craighead County, Arkansa	as		as Obligee,	hereinafter called the Obligee,
n the sum of Five Percent of	of Amount of Bid			
Dollars (; 5% of Bid furety, bind ourselves, our heir WHEREAS, the Principal has	s, executors, administrators,	ent of which : , successors ar	sum well and truly to be made, in it is a severally, it is a severally, it is a severally.	he said Principal and the said firmly by these presents.
Bid #2023-16, Full Depth I	Reclamation (FDR), Craigh	nead County,	Arkansas	
Obligee in accordance with to Documents with good and submaterial furnished in the prosecution of the prosecution of the principal shall the principal shall be according to the principal shall the princip	he terms of such bid, and a flicient surety for the faithfus cution thereof, or in the ever pay to the Obligee the differ which the Obligee may in	give such bor d performane ant of the failu rence not to e good faith cor	cipal and the Principal shall end or bonds as may be specified of such Contract and for the re of the Principal to enter such accord the penalty hereof between tract with another party to perful force and effect.	d in the bidding or Contract prompt payment of labor and a Contract and give such bond in the amount specified in said
Signed and scaled this	11th di	ay of	May	2023
Jeacy Brow	wi	tness	Atlas Asphalt, Inc.	(Seal) Principal Principal Tide
Dante W	win	tness	Fidelity and Deposit Co By Judy Schoggen	mpany of Maryland Attorney-in-Fact

ZURICH AMERICAN INSURANCE COMPANY COLONIAL AMERICAN CASUALTY AND SURETY COMPANY FIDELITY AND DEPOSIT COMPANY OF MARYLAND POWER OF ATTORNEY

KNOW ALL MEN BY THESE PRESENTS: That the ZURICH AMERICAN INSURANCE COMPANY, a corporation of the State of New York, the COLONIAL AMERICAN CASUALTY AND SURETY COMPANY, a corporation of the State of Illinois, and the FIDELITY AND DEPOSIT COMPANY OF MARYLAND a corporation of the State of Illinois (herein collectively called the "Companies"), by Robert D. Murray, Vice President, in pursuance of authority granted by Article V, Section 8, of the By-Laws of said Companies, which are set forth on the reverse side hereof and are hereby certified to be in full force and effect on the date hereof, do hereby nominate, constitute, and appoint Benson A. CASHION, Heather HICKS, Matthew K. CASHION, JR., Judy SCHOGGEN, Michael G. DORNBLASER, Lee W. JACKSON, all of Little Rock, Arkansas, its true and lawful agent and Attorney-in-Fact, to make, execute, seal and deliver, for, and on its behalf as surety, and as its act and deed: any and all bonds and undertakings, and the execution of such bonds or undertakings in pursuance of these presents, shall be as binding upon said Companies, as fully and amply, to all intents and purposes, as if they had been duly executed and acknowledged by the regularly elected officers of the ZURICH AMERICAN INSURANCE COMPANY at its office in New York, New York., the regularly elected officers of the COLONIAL AMERICAN CASUALTY AND SURETY COMPANY at its office in Owings Mills, Maryland., and the regularly elected officers of the FIDELITY AND DEPOSIT COMPANY OF MARYLAND at its office in Owings Mills, Maryland., in their own proper persons.

The said Vice President does hereby certify that the extract set forth on the reverse side hereof is a true copy of Article V, Section 8, of the By-Laws of said Companies, and is now in force.

IN WITNESS WHEREOF, the said Vice-President has hereunto subscribed his/her names and affixed the Corporate Seals of the said ZURICH AMERICAN INSURANCE COMPANY, COLONIAL AMERICAN CASUALTY AND SURETY COMPANY, and FIDELITY AND DEPOSIT COMPANY OF MARYLAND, this 05th day of January, A.D. 2023.

SEAL TO SEAL T

ATTEST:

ZURICH AMERICAN INSURANCE COMPANY COLONIAL AMERICAN CASUALTY AND SURETY COMPANY FIDELITY AND DEPOSIT COMPANY OF MARYLAND

By: Robert D. Murray Vice President

By: Dawn E. Brown Secretary

State of Maryland County of Baltimore

On this 05th day of January, A.D. 2023, before the subscriber, a Notary Public of the State of Maryland, duly commissioned and qualified, Robert D. Murray, Vice President and Dawn E. Brown, Secretary of the Companies, to me personally known to be the individuals and officers described in and who executed the preceding instrument, and acknowledged the execution of same, and being by me duly sworn, deposeth and saith, that he/she is the said officer of the Company aforesaid, and that the seals affixed to the preceding instrument are the Corporate Seals of said Companies, and that the said Corporate Seals and the signature as such officer were duly affixed and subscribed to the said instrument by the authority and direction of the said Corporations.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed my Official Seal the day and year first above written.

Iva Bethea Notary Public

My Commission Expires September 30, 2023



CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY) 5/4/2023

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER		CONTACT Julie Martin	
The Cashion Company Insura	nce and Bonding	PHONE (A/C, No, Ext): (501) 376 - 0716 FAX (A/C, No): (501) 376	5-2118
P.O. Box 550		E-MAIL ADDRESS: juliem@cashionco.com	
		INSURER(S) AFFORDING COVERAGE	NAIC #
Little Rock AR	72203	INSURERA: BITCO General Insurance Corp	20095
INSURED		INSURER B: Great American Insurance	
Atlas Asphalt, Inc.		INSURER C:	
P.O. Box 2236		INSURER D:	,
		INSURER E :	
Batesville AR	72503	INSURER F:	
COVERAGES	CERTIFICATE NUMBER:	REVISION NUMBER:	<u> </u>

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR		TYPE OF INSURANCE	ADDL	SUBR	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP	LIMIT	rs	
A	х	COMMERCIAL GENERAL LIABILITY CLAIMS-MADE X OCCUR						EACH OCCURRENCE DAMAGE TO RENTED PREMISES (Ea occurrence)	\$	1,000,000
	x	Incl Contractual	x	Y	CLP3720686	9/3/2022	9/3/2023	MED EXP (Any one person)	\$	5,000
ľ	X	XCU Included				İ		PERSONAL & ADV INJURY	\$	1,000,000
1	GEI	N'LAGGREGATE LIMIT APPLIES PER:			1			GENERAL AGGREGATE	\$	2,000,000
	Ŀ.	POLICY X PRO- JECT LOC						PRODUCTS - COMP/OP AGG	\$	2,000,000
<u> </u>		OTHER:						Employee Benefits	\$	1,000,000
ĺ	AU	OMOBILE LIABILITY						COMBINED SINGLE LIMIT (Ea accident)	\$	1,000,000
A	х	ANY AUTO						BODILY INJURY (Per person)	\$	
l		ALL OWNED SCHEDULED AUTOS	х	Y	CAP3720685	9/3/2022	9/3/2023	BODILY INJURY (Per accident)	\$	
	х	HIRED AUTOS X NON-OWNED AUTOS						PROPERTY DAMAGE (Per accident)	\$	
									\$	
	X	UMBRELLA LIAB X OCCUR			UMBRELLA WILL FOLLOW FORM WITH			EACH OCCURRENCE	\$	10,000,000
В		EXCESS LIAB CLAIMS-MADE						AGGREGATE	\$	10,000,000
		DED X RETENTION \$ 10,000	х	Y	TUU5578146	9/3/2022	9/3/2023		\$	
		KERS COMPENSATION EMPLOYERS' LIABILITY Y/N						X PER OTH- STATUTE ER		
		PROPRIETOR/PARTNER/EXECUTIVE	N/A		i			E.L. EACH ACCIDENT	\$	1,000,000
A	(Man	datory in NH)		Y	WC3720688	9/3/2022	9/3/2023	E.L. DISEASE - EA EMPLOYEE	\$	1,000,000
		RIPTION OF OPERATIONS below						E.L. DISEASE - POLICY LIMIT	\$	1,000,000
		DN OF OPENATIONS // OCATIONS // THE I								

DESCRIPTION OF OPERATIONS/LOCATIONS/VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)
RE: Bid - Full Depth Reclamation (FDR) Using Cement, Bid 2023-16, 4-25-23
See Attached Comments/Remarks Section

CERTIFICATE HOLDER	CANCELLATION
Craighead County Judge's Office 511 Union St., Suite 119 Jonesboro, AR 72401	SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.
72401	AUTHORIZED REPRESENTATIVE
ı	M Cashion, Jr./JKM001 Malhark Cashington

COMMENTS/REMARKS

ATLAS ASPHALT, INC. - BATESVILLE DIVISION

ENDORSED ADDITIONAL INSURED:

If required by written contract, certificate holder is included as an additional insured on a primary and noncontributory basis. ("X" denotes coverage.)

ENDORSED WAIVER OF SUBROGATION:

If required by written contract, waiver of subrogation applies in favor of certificate holder.

("Y" denotes coverage.)

OFREMARK

COPYRIGHT 2000, AMS SERVICES INC.

		·	CDAIC	HEAD COU	(NPT)/	T	·			temperature plants and the second
10 11 4 / 1 december 2011		************	The state of the s							
	7		INVITATION	TO BID-Not a	an Order		-			
	<u> L</u>	1			<u> </u>					The second secon
			Craighead Co							
P. P. P. S.	-		Mark the complete the company of the	nion St. Suite						-
-		-		ro, Arkansas	72401					23 - 1/2 - 1/
	CHASING		FICE						***************************************	And the second second second second second
BID I	NO. <u>202</u> :	<u>3-16</u>			DATE Ap	il 25 <u>, 2023</u>				
Seale	ed bids, sul	bject i	o the conditions on the attached hereof,	, and as may t	oe attached l	nereto, will be r	eceived at this	office		***
until	2:00 PM	May.	11, 2023 and then publicly opened, for	furnishing the	supplies, ma	iterials.	T	T	Commence of the contract of th	
and/o	r services	as de	scribed below.	······································	1		 			
		1			Ride will he	opened <u>May</u>	11 2023			-
1/4/14/14/14/14	†					2:00 P.M. Loca				
FOR	Crainha	ad C	ounty, Arkansas	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	BY: Al Hai		ai iiiie			
	Orangino	T O	Juny, Aransas				 	ļ	**************************************	and administrative or place to the development of the control of t
		-			Purchasing	Director				
	ļ	 	Marie Company of the	water water and a state of the			er der serense ver noch as i bis bredering mannan annan		The same of the sa	
		-								
item #	‡		DESCRIPTION							
1			The intent of the attached specificati	ons is to des	cribe Full D	epth Reclama	ition (FDR) u	sing cement	The second section of the second section is a second section of the second section sec	
			and type of materials to use and the	process and	procedures	necessary in	reclaiming o	ounty roads		
			in Craighead County.		The state of the s		Τ	T		Committee of the commit
2		1	The successful bidder will furnish Cr	aighead Cou	intv a signe	1		 		The second secon
			copy of all delivery receipts for each			<u> </u>		1		
MENTS IN MINISTER		1	invoice the County for each job indiv		T		 	++		
3			Does bidder meet all specifications?		No					And the second s
		 	If no, please attach sheets explaining			***************************************				The same of the sa
4	-		Successful bidder shall maintain bid			r of 2023	 		7-14-14-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	
5		-	Bidder should specify approximate s	tart date if av	varded bid	Dave de de		ne 1 20 2	7	
6	1	-	Bidder shall quote each item on the	hid shoot nor	ton og ud	Days /3 4		ne (20 c	-	
7		 	Bid must be signed by an authorized	Jiu sneet per	ton, sq ya,	ano ganons a	s specified o	n bid sneet.		·
8		 	Bidder should return all pages of this	representau	ve or bid wi	ii be rejected.		-		tion of the control o
9	*********	-						-		*
			Bid # 2023-16 must be noted on the					 		The state of the s
10	ļ		Bidder should list price: Total co	st for all job	s \$ <u> </u>	79,526	- 44		Minute the probabilistic replantation and property and property or a second annual second	
******		<u> </u>	·	No. of the latest the					The same of the section of the secti	
			EXECUTION	N OF BID						
					Date 5/	11/2023				
We, t	he unders	igne	d, have read all the requirements set	forth in this b			cifications	1		
			nent information regarding the article							
			instructions, stated.		1		I			and the second section of the second control
-			en de la companya del companya de la companya del companya de la companya del la companya de la	maning the description of constraint black and debuggious accurate				 	rinary anamanan'i mana-mpopadagy v M Selvies sa arinadaryyaganyaganya dali sagaasana.	Participant services and the service of the service
Arkar	leas lisa T	Fay F	egister No. 737/4364 -	CLC						
Bidde				7.0. BD	v 1911			-		
By	-39	7		Somes 6210		72453		-		
<u> </u>	Bu	u e	(Person Authorized to Sign Bids)	Title			T			
-	<u> </u>	-	(Ferson Authorized to Sign Bids)	1105	vice Pr	cilat		 		
	<u> </u>	L	TIMEIONED DIDG	MIII DE DE	ICOTED			 		-
······ a majorine de la compansión de la		F-10 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	UNSIGNED BIDS				i I I maringina op de generalen i manden generalen I maringin	ļ	and the common and the control of the section of th	en e
			S ARE SUBJECT TO REJECTION							
NOT	CE TO B	IDDE	RS, SEE REVERSE SIDE OR ATTA	CHMENTS	FOR INSTE	RUCTIONS A	ND CONDITI	ONS.		
-		ļ						1		

	-								T	
	-		SPECIFICA					The state of the s	-	
1		Scope: We are requesting pricing	for Full Depth	Reclamation	on (FDR) using	cement for	county road	s. This incl	udes 10"	thick
	-	and 12 thick stabilized base, cem	ent, prime coa	it, tack coat.	ACHM, traffic	control, and	mobilizatio	n The work	e will	
	_	be done in accordance with the cu	rrent ARDOT	specification	ns, Craighead	County Cons	truction Sp	ecifications	. and	The same in the same name of the same of t
	-	MIA Engineering studies, for full of	depth reclama	tion using c	ement.				T	The second secon
		The full depth reclamation of count	ty roads must	be complete	ed by August 1	5,2023. Liqu	idated dan	ages		-
		after this date are \$500 per calend	lar day. If mat	erial availab	ility becomes	an issue the	County will			and the state of t
· · · · · · · · · · · · · · · · · · ·		consider alternative solutions.		.,	T			Selection consistent consumeration consistent of		and a second contract of the second
				***************************************		<u> </u>			 	
2		Each item of job listed below must	be bid individ	ually as liste	d with a total	ost calculate	d.	 	 	
3		These quantities are estimated for	bid purposes.	Please loo	k at the job. c	alculate	T	 	 	
		quantities and cost per unit.			T	T T		-		
4		Craighead County reserves the rigi	ht to accept, re	eject. in who	le or in part to	7.	Articles and a construction of the second			
		waive informalities in bids received	, or accept bio	s with varia	tions		All their and control of the second paper when the			**************************************
5		Traffic control with one lane traffic	at a time shall	be respons	ibility of contra	ictor				
			1	1		T T				***************************************
6	1	Cement stabilization shall be 24	feet wide					-	 	
7	-	ACHM paving shall be 22 feet wie	de							
		Test strip will be required.								and the party of the special section of the section
8		Bid bond shall be submitted with	bid and per	ormance a	nd insurance	honde		Marie Communication of Section Communication (Marie Communication)		The second section of the second seco
	1	shall be submitted upon bid awa		- Cimanoc u	na madiance	Dollas				
9	1								<u> </u>	
	1			1			***************************************		***************************************	-
	1								-	
		Job number of County Roads to	be reclaimed				***************************************	***************************************		<u> </u>
			Estimated	Estimated	Estimated	Estimated	Price	Price	Price	
A reddigate redge manuscrapping distribution of African			Sq Yds	Tons	Prime(Gal)	Tack(Gal)	Per SqYd			F-4(-1.5%)
		All proposed the second state of the second state of the second s			.15 gl/sq yd		1010410	Lei IOII	Fel Gal	Extended Price
ob CR 945	1	FDR Stabilized base 12" thick	54,080.00		3, ,	.oo gada ya	5			270 11-
A CR 928		FDR Stabilized base 10" thick	19,040.00		*****	######################################	6	······································		270,400
		Cement		3,009				292		878,62
	3	Prime Coat(CSS-1h) (.15gl/sqyd)			10,968				2.50	27 422
***************************************		ACHM (12.5mm)		11,059.4				114.65	440.0	1,267.7
		Tack Coat (.05gl/sqyd)	- Wit 1	-		3,351.30	e in the arterior in a substantia djudicijamacija		2.50	1,267,7
	6	Traffic Control (Lump Sum)	46 of the same of			and the second section is a second	***************************************	10	0,000	100,000
P#1594 X4	7	(One lane traffic at a time) Mobilization (Lump Sum)	***	and the second second second second second	nahanfaransan yir aratma asqiraran valencia (1811) qoʻja isaqiq anda a			Note to the commence of the co	Annual Cabination of States	
	<u>'</u>	Mobilization (Lump Sum)				delenter pritarese alemakama menifori apanaja	+ 40		2,500	32,500
							-			
							***************************************	T	tal Cost	L
		Hardward Control of the Control of t				****			2,6	79,526.4

1 1	
	CRAIGHEAD COUNTY
	JONESBORO, ARKANSAS
	CONDITIONS OF BIDDING
	Compliance with the following conditions is necessary for consideration of this bid.
1	Signature-This bid must be signed with the firm name and by an authorized officer, employee or agent.
2	Sales Tax-Is not to be shown in the bid price, but is to be added by the vendor to the invoice billing to the County.
	The County is not exempt from Arkansas State Sales Tax. Contractors are to include all costs into the bid price.
	including applicable taxes.
3	Freight and other delivery charges-to destination at designated County job site in the County must be included in bid.
	Charges may not be added after the bid is opened.
4	Discounts-Show rate, total amount, and latest day any discounts will be allowed after receipt of article and invoice,
	otherwise County will deduct allowed discount when payment is made
5	Firm Price-All prices quoted will remain firm for at least 30 days from date of bid, unless otherwise specified
	by the County or bidder
6	Identical Bids-In the event of two or more identical low bids, the contract may be awarded arbitrarily or for
	any reason to any of such bidders, or split in any proportion between the said two or more bidders at
	discretion of the County.
7	Clean up-Complete cleanup and proper disposal of any and all job related items is considered to be a part of any
	contract lef by Craighead County.
8	Ambiguity in bid-Any ambiguity in any bid as the result of omission, error, lack of clarity or non-compliance
	specifications, instructions, and all conditions of bidding shall be construed in the light most favorable to the County
9	Construction
	A. When requested, the Contractor is to supply the County with evidence of having and maintaining proper and
	specifically Workman's Compensation Insurance in accordance with the laws of the State of Arkansas
	Public Liability, and Property Damage. All premiums and cost shall be paid by Contractor. In no way will the
	County be responsible in case of accident.
	B. A Performance Bond equaling the total amount of any bid exceeding \$50,000 must be provided for
	erection of any public building, public structure, or public improvement(Pursuant to Arkansas Code 18-44-503.)
10	The County reserves the right to reject any and all bids, accept in whole or in part, to waive informalities in bids
	received, to accept bids on materials or equipment with variations from specifications in those cases where efficiency
	of operation will not be impaired, and unless otherwise specified by bidder, to accept any item in the bid. If unit prices
	and extensions thereof do not coincide, the County may accept the bid for the lesser amount whether reflected
	by extension or by the correct multiple of the unit price.
	INSTRUCTIONS TO BIDDERS
	(Please read carefully)
1	Submit bid on bid form attached.
2	Address all bids to: Purchasing Director, Craighead County Judge's Office, 511 Union St.; Suite 119,
	Jonesboro, Arkansas 72401and make certain to indicate identifying bid number on the outside of bid envelope
3	DO NOT include Federal Excise Tax in bid. County will furnish exemption certificate.
4	Bids received after stated time will not be considered.
5	Be sure and read all conditions and verify amounts before submitting bids. No changes or additions will be
	allowed after submission.
6	Guarantees and warranties should be attached as a part of the bid, as they may be a consideration
	in awarding contract.
7	Delivery or contract completion time is to be shown, as this date may, where time is of the
	essence, determine the contract award.
8 .	Additional information may be obtained from the Purchasing Department.
9	Point of contact will be Road Supt, John James at 870-450-2352
THE	COUNTY RESERVES THE RIGHT TO ACCEPT PART OR ALL OF ANY SPECIFIC BID OR BIDS
	AND TO ACCEPT BID WITH OR WITHOUT TRADE-IN, AND REJECT ANY AND ALL BIDS.
AND DESCRIPTION OF THE PARTY OF	A STATE OF THE PARTY OF THE PAR



P.O. Box 712 • Des Moines, Iowa 50306-0712

POWER OF ATTORNEY APPOINTING INDIVIDUAL ATTORNEY-IN-FACT

KNOW ALL MEN BY THESE PRESENTS. that:

- 1. Employers Mutual Casualty Company, an Iowa Corporation
- 2. EMCASCO insurance Company, an Iowa Corporation
- 3. Union Insurance Company of Providence, an Iowa Corporation

- 4. Illinois EMCASCO Insurance Company, an Iowa Corporation
- 5. Dakota Fire Insurance Company, a North Dakota Corporation
- 6. EMC Property & Casualty Company, an Iowa Corporation

hereinafter referred to severally as "Company" and collectively as "Companies", each does, by these presents, make, constitute and appoint:

BENSON A CASHION, JUDY SCHOGGEN, MATTHEW K. CASHION JR, MICHAEL G. DORNBLASER, LEE W. JACKSON, JULIE MARTIN, DANETTE WARD, JOHN A. DAVIE. HEATHER HICKS

its true and lawful attorney-in-fact, with full power and authority conferred to sign, seal, and execute the Surety Bond:

Any and All Bonds

and to bind each Company thereby as fully and to the same extent as if such instruments were signed by the duly authorized officers of each such Company, and all of the acts of said attorney pursuant to the authority hereby given are hereby ratified and confirmed.

The authority hereby granted shall expire October 10th 2025, unless sooner revoked.

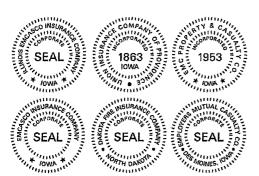
AUTHORITY FOR POWER OF ATTORNEY

This Power-of-Attorney is made and executed pursuant to and by the authority of the following resolution of the Boards of Directors of each of the Companies at the first regularly scheduled meeting of each company duly called and held in 1999:

RESOLVED: The President and Chief Executive Officer, any Vice President, the Treasurer and the Secretary of Employers Mutual Casualty Company shall have power and authority to (1) appoint attorneys-in-fact and authorize them to execute on behalf of each Company and attach the seal of the Company thereto, bonds and undertakings, recognizances, contracts of indemnity and other writings obligatory in the nature thereof; and (2) to remove any such attorney-in-fact at any time and revoke the power and authority given to him or her. Attorneys-in-fact shall have power and authority, subject to the terms and limitations of the power-of-attorney issued to them, to execute and deliver on behalf of the Company, and to attach the seal of the Company thereto, bonds and undertakings, recognizances, contracts of indemnity and other writings obligatory in the nature thereof, and any such instrument executed by any such attorney-in-fact shall be fully and in all respects binding upon the Company. Certification as to the validity of any power-of-attorney authorized herein made by an officer of Employers Mutual Casualty Company shall be fully and in all respects binding upon this Company. The facsimile or mechanically reproduced signature of such officer, whether made heretofore or hereafter, wherever appearing upon a certified copy of any power-of-attorney of the Company, shall be valid and binding upon the Company with the same force and effect as though manually affixed.

IN WITNESS THEREOF, the Companies have caused these presents to be signed for each by their officers as shown, and the Corporate seals to be hereto affixed this

22nd day of September , 2022 .





cott R. Jean, President & CEO of Company 1; Chairman, President & CEO of Companies 2, 3, 4, 5 & 6 Todd Strother, Executive Vice President Chief Legal Officer & Secretary of Companies 1, 2, 3, 4, 5 & 6

On this 22nd day of September, 2022 before me a Notary Public in and for the State of Iowa, personally appeared Scott R. Jean and Todd Strother, who, being by me duly sworn. did say that they are, and are known to me to be the CEO, Chairman, President, Executive Vice President, Chief Legal Officer and/or Secretary, respectively, of each of the Companies above; that the seals affixed to this instrument are the seals of said corporations; that said instrument was signed and sealed on behalf of each of the Companies by authority of their respective Boards of Directors; and that the said Scott R. Jean and Todd Strother, as such officers, acknowledged the execution of said instrument to be their voluntary act and deed, and the voluntary act and deed of each of the Companies.

My Commission Expires October 10, 2025.

CERTIFICATE

I, Ryan J. Springer, Vice President of the Companies, do hereby certify that the foregoing resolution of the Boards of Directors by each of the Companies, and this Power of Attorney issued pursuant thereto on 22nd day of September , 2022 , are true and correct and are still in full torce and effect.

In Testimony Whereof I have subscribed my name and affixed the facsimile seal of each Company this 11th 32

2023

Sivice President

BID BOND				
Conforms with The America Architects, A.I.A. Document				
KNOW ALL BY THESE PRI	ESENTS, That we, _	Sugg Construction	ı, Inc.	
. Seeker see				
			as Principal, hereinafter	called the Principal,
and the Employers Mutual	Casualty Company			1
of Des Moines, IA			. a corporation	duly organized under
the laws of the State of	Iowa	, as So	rety, hereinafter called the Surety, are held a	and firmly bound unto
Craighead County, Arkans	as	, alta a a a a a a a a a a a a a a a a a	as Obligee, hereinaft	er called the Obligee,
in the sum of Five Percent	of Amount of Bid			
Dollars (: 5% of Bid Surety, bind ourselves, our hei), for	the payment of whi	ich sum well and truly to be made, the said F is and assigns, jointly and severally, firmly b	'rincipal and the said y those presents.
NOW. THEREFORE, if the Obligee in accordance with Documents with good and su material furnished in the prosor bonds, if the Principal shall	Obligee shall accepthe terms of such the ficient surety for the coution thereof, or it is pay to the Obligee or which the Obligee	OR), Craighead C of the bid of the F id, and give such the faithful perform the event of the f the difference not t may in good faith	Principal and the Principal shall enter into bond or bonds as may be specified in the ance of such Contract and for the prompt pailure of the Principal to enter such Contract to exceed the penalty hereof between the and contract with another party to perform the	a Contract with the bidding or Contract payment of labor and and give such bond ount specified in said
Signed and scaled this	11th	day of	May	2023
Soly S) (7	Witness	Sugg Construction, Inc.	(Seal) Principal
Gulie M	artin	Witness	Employers Mutual Casualty Con By Judy Schoggen	Title npany Attorney in Fact
h, pa ar u dans ampro- a de abello			***************************************	101010101010101010101010

			CRAIG	HEAD COL	INTY					
			INVITATION						 	
		\neg	INVITATION	O DID-NOL	an Order	_		_	 	
		٠	Craighand Co	vente ledan	- Off:					
_			Craighead Co	ion St. Suite						
							_			
מוום	CHASIN	2.05		ro, Arkansas	72401					
	NO. 202		rice		DATE	7.05.0000				
					DATE AP	ril 25 <u>, 2023</u>	<u> </u>			
Seale	ed bids, su	bject	to the conditions on the attached hereof,	and as may	be attached	hereto, will be	received at this	s office		
			11, 2023 and then publicly opened, for f	furnishing the	supplies, m	aterials,				
and/c	r services	as d	escribed below.							
					Bids will b	e opened <u>Ma</u>	y 11, 2023.			
	l		·			2 <u>:00 P.M.</u> Loc	al Time			
FOB	Craighe	ad C	ounty, Arkansas		BY: Al Hai	nes		1		
					Purchasin	g Director				
<u></u>			,							
Item #	‡	1.	DESCRIPTION					+		
1		1	The intent of the attached specification	one is to des	cribe Full D	lenth Poolom	otion (EDD)	oing soment		
	-		and type of materials to use and the	oroceee and	procedures	epui Reciaini	alion (FDR) u	sing cement	 	
	 	┼	in Craighead County.	process and	procedures	necessary ii	recialming c	ounty roads		
. 2		+	The successful bidder will furnish Cra	sighand Car	<u> </u>					
			copy of all delivery receipts for each r	aignead Cou	inty a signer	Q 				
		-			and Will		· · · · · · · · · · · · · · · · · · ·			
3		 	invoice the County for each job individual Does bidder meet all specifications?				-			
		 			No					
		-	If no, please attach sheets explaining				ļ			
4		-	Successful bidder shall maintain bid				_			
5		ļ	Bidder should specify approximate sta				1			
6			Bidder shall quote each item on the b	id sheet per	ton and ga	llons as speci	ified on bid sh	neet.		
7		-	Bid must be signed by an authorized	representati	ve or bid wi	ll be rejected.				
8		ļ	Bidder should return all pages of this	bid package	e. · ·					
9			Bid # 2023-16 must be noted on the c					<u> </u>		
10			Bidder should list price: Total cos	t for all job	s \$ <u> </u>	10 <u>, 807</u> . 40				
					,					
			EXECUTION	OF BID						
				·.	Date 5/	10/23	1			
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Received ADDENOUM II 1 OAted 5/5/23
2 OATED 5/9/23

	CRAIGHEAD COUNTY	
	JONESBORO, ARKANSAS	
	CONDITIONS OF BIDDING	
	Compliance with the following conditions is necessary for consideration of this bid.	
		
1	Signature-This bid must be signed with the firm name and by an authorized officer, employee or agent.	
2	Sales Tax-Is not to be shown in the bid price, but is to be added by the vendor to the invoice billing to the County.	
	The County is not exempt from Arkansas State Sales Tax. Contractors are to include all costs into the bid price,	
	including applicable taxes.	
3	Freight and other delivery charges-to destination at designated County job site in the County must be included in bid.	
	Charges may not be added after the bid is opened.	
4	Discounts-Show rate, total amount, and latest day any discounts will be allowed after receipt of article and invoice,	
	otherwise County will deduct allowed discount when payment is made.	
5	Firm Price-All prices quoted will remain firm for at least 30 days from date of bid, unless otherwise specified	
	by the County or bidder	
6	Identical Bids-In the event of two or more identical low bids, the contract may be awarded arbitrarily or for	
	any reason to any of such bidders, or split in any proportion between the said two or more bidders at	
	discretion of the County.	
7	Clean up-Complete cleanup and proper disposal of any and all job related items is considered to be a part of any	
	contract let by Craighead County.	
8	Ambiguity in bid-Any ambiguity in any bid as the result of omission, error, lack of clarity or non-compliance	
	specifications, instructions, and all conditions of bidding shall be construed in the light most favorable to the County	
9	Construction Construction	·
-	A. When requested, the Contractor is to supply the County with evidence of having and maintaining proper and	
	specifically Workman's Compensation Insurance in accordance with the laws of the State of Arkansas,	
	Public Liability, and Property Damage. All premiums and cost shall be paid by Contractor. In no way will the	
·	County be responsible in case of accident.	
	B. A Performance Bond equaling the total amount of any bid exceeding \$50,000 must be provided for	
,	erection of any public building, public structure, or public improvement(Pursuant to Arkansas Code 18-44-503.)	
10	The County reserves the right to reject any and all bids, accept in whole or in part, to waive informalities in bids	
-10	received, to accept bids on materials or equipment with variations from specifications in those cases where efficiency	
	of operation will not be impaired, and unless otherwise specified by bidder, to accept any item in the bid. If unit prices	
	and extensions thereof do not coincide, the County may accept the bid for the lesser amount whether reflected	
	and extensions the education conclude, the County may accept the big for the lesser amount whether reflected	
	by extension or by the correct multiple of the unit price.	
 		
	INSTRUCTIONS TO BIDDERS	
	(Please read carefully)	
1	Submit bid on bid form attached.	
2	Address all bids to: Purchasing Director, Craighead County Judge's Office, 511 Union St.; Suite 119,	
	Jonesboro, Arkansas 72401and make certain to indicate identifying bid number on the outside of bid envelope.	
3	DO NOT include Federal Excise Tax in bid. County will furnish exemption certificate.	
4	Bids received after stated time will not be considered.	
5	Be sure and read all conditions and verify amounts before submitting bids. No changes or additions will be	
	allowed after submission.	
6	Guarantees and warranties should be attached as a part of the bid, as they may be a consideration	
	in awarding contract.	
7	Delivery or contract completion time is to be shown, as this date may, where time is of the	
	essence, determine the contract award.	-
8	Additional information may be obtained from the Purchasing Department.	
9	Point of contact will be Road Supt, John James at 870-450-2352	
THE	E COUNTY RESERVES THE RIGHT TO ACCEPT PART OR ALL OF ANY SPECIFIC BID OR BIDS	
	AND TO ACCEPT BID WITH OR WITHOUT TRADE-IN, AND REJECT ANY AND ALL BIDS.	
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				SPECIFICA	TIONS						
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1			Scope: We are requesting pricing								nick
		_	and 12" thick stabilized base, ceme								
			be done in accordance with the cu			· · · · · · · · · · · · · · · · · · ·	County Cons	truction Spe	ecifications	, and	
	ļ	<u> </u>	MTA Engineering studies, for full of				L				
			The full depth reclamation of count						ages .		'.
		ļ	after this date are \$500 per calend	lar day. If mate	erial availab	lity becomes	an issue the (County will			
	-		consider alternative solutions.	-							
2	ļ .	-	Each item of job listed below must	be bid individ:	ually as liste	ld with a total o	cost calculate	d			
3	1		These quantities are estimated for	· · · · · · · · · · · · · · · · · · ·							
			quantities and cost per unit.	T	T					<u> </u>	
4			Craighead County reserves the rigi	ht to accept re	elect in who	le or in part to)				
·			waive informalities in bids received				1				
5			Traffic control with one lane traffic	·			actor				
	ļ		Traine condition with one lane traine t	at a time small	DC 1C3p01131						
6			Cement stabilization shall be 24								, ',
7			ACHM paving shall be 22 feet wi	de							
			Test strip will be required.								
8			Bid bond shall be submitted with	n bid and perf	ormance a	nd insurance	bonds				
			shall be submitted upon bid awa	rd.							
9											
			No.								
			Job number of County Roads to	be reclaimed							
				Estimated	Estimated	Estimated	Estimated	Price	Price	Price	
			Jaw	Sq Yds	Tons	Prime(Gal)	Tack(Gal)	Per SqYd	Per Ton		Extended Price
	928		10"			.15 gl/sq yd	.05 gl/sq yd				
ob		1	FDR Stabilized base 12" thick	19,040.00				26.81			510,462.40
4	CR 928		FDR Stabilized base 10" thick	54,080.00				25.53			1,380,662.40
	945	2	Cement 12"	<u> </u>	2,716				257.03		773, 403.2
		3	Prime Coat(CSS-1h) (.15gl/sqyd)			10,968				7.80	85 550.40
			ACHM (12.5mm)		11,059.4				137.53		1,520,999
		5	Tack Coat (.05gl/sqyd)				3,351.30	5.10			17,091.0
			Traffic Control (Lump Sum)								41,658.7
			(One lane traffic at a time)								240,979.3
		7	Mobilization (Lump Sum)								, , ,
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KNOW ALL BY THESE PR	ESENTS, That we. Weav	ver-Bailey Co	ontractors, Inc.	
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and the Travelers Casualty	and Surety Company of	f America		X+
Hartford, CT			. a corporatio	n duly organized unde
he laws of the State of	Connecticut		rety, hereinafter called the Surety, are held	
Craighead County, Arkans	sas		as Obligee, hereina	fter called the Obligee
n the sum of Five Percent	of Amount of Bid			
VHEREAS, the Principal has Craighead County Full De	submitted a bid for		,	
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Travelers Casualty and Surety Company of America Travelers Casualty and Surety Company St. Paul Fire and Marine Insurance Company

POWER OF ATTORNEY

KNOW ALL MEN BY THESE PRESENTS: That Travelers Casualty and Surety Company of America, Travelers Casualty and Surety Company, and St. Paul Fire and Marine Insurance Company are corporations duly organized under the laws of the State of Connecticut (herein collectively called the "Companies"), and that the Companies do hereby make, constitute and appoint Judy Schoggen of LITTLE ROCK

Arkansas

Arkansas

Arkansas

Arkansas

LITTLE ROCK

acknowledge any and all bonds, recognizances, conditional undertakings and other writings obligatory in the nature thereof on behalf of the Companies in their business of guaranteeing the fidelity of persons, guaranteeing the performance of contracts and executing or guaranteeing bonds and undertakings required or permitted in any actions or proceedings allowed by law.

IN WITNESS WHEREOF, the Companies have caused this instrument to be signed, and their corporate seals to be hereto affixed, this 21st day of April, 2021.







State of Connecticut

City of Hartford ss.

By: Robert L. Raney, Senior Vice President

On this the **21st** day of **April**, **2021**, before me personally appeared **Robert L. Raney**, who acknowledged himself to be the Senior Vice President of each of the Companies, and that he, as such, being authorized so to do, executed the foregoing instrument for the purposes therein contained by signing on behalf of said Companies by himself as a duly authorized officer.

IN WITNESS WHEREOF, I hereunto set my hand and official seal.

My Commission expires the 30th day of June. 2026



Anna P. Nowik, Notary Public

This Power of Attorney is granted under and by the authority of the following resolutions adopted by the Boards of Directors of each of the Companies, which resolutions are now in full force and effect, reading as follows:

RESOLVED, that the Chairman, the President, any Vice Chairman, any Executive Vice President, any Senior Vice President, any Vice President, any Second Vice President, the Treasurer, any Assistant Treasurer, the Corporate Secretary or any Assistant Secretary may appoint Attorneys-in-Fact and Agents to act for and on behalf of the Company and may give such appointee such authority as his or her certificate of authority may prescribe to sign with the Company's name and seal with the Company's seal bonds, recognizances, contracts of indemnity, and other writings obligatory in the nature of a bond, recognizance, or conditional undertaking, and any of said officers or the Board of Directors at any time may remove any such appointee and revoke the power given him or her; and it is

FURTHER RESOLVED, that the Chairman, the President, any Vice Chairman, any Executive Vice President, any Senior Vice President or any Vice President may delegate all or any part of the foregoing authority to one or more officers or employees of this Company, provided that each such delegation is in writing and a copy thereof is filed in the office of the Secretary; and it is

FURTHER RESOLVED, that any bond, recognizance, contract of indemnity, or writing obligatory in the nature of a bond, recognizance, or conditional undertaking shall be valid and binding upon the Company when (a) signed by the President, any Vice Chairman, any Executive Vice President, any Senior Vice President or any Vice President, any Second Vice President, the Treasurer, any Assistant Treasurer, the Corporate Secretary or any Assistant Secretary and duly attested and sealed with the Company's seal by a Secretary or Assistant Secretary; or (b) duly executed (under seal, if required) by one or more Attorneys-in-Fact and Agents pursuant to the power prescribed in his or her certificate or their certificates of authority or by one or more Company officers pursuant to a written delegation of authority; and it is

FURTHER RESOLVED, that the signature of each of the following officers: President, any Executive Vice President, any Senior Vice President, and the seal of the Company may be affixed by facsimile to any Power of Attorney or to any certificate relating thereto appointing Resident Vice Presidents, Resident Assistant Secretaries or Attorneys-in-Fact for purposes only of executing and attesting bonds and undertakings and other writings obligatory in the nature thereof, and any such Power of Attorney or certificate bearing such facsimile signature or facsimile seal shall be valid and binding upon the Company and any such power so executed and certified by such facsimile signature and facsimile seal shall be valid and binding on the Company in the future with respect to any bond or understanding to which it is attached.

I, **Kevin E. Hughes**, the undersigned, Assistant Secretary of each of the Companies, do hereby certify that the above and foregoing is a true and correct copy of the Power of Attorney executed by said Companies, which remains in full force and effect.

Dated this 11th day of May

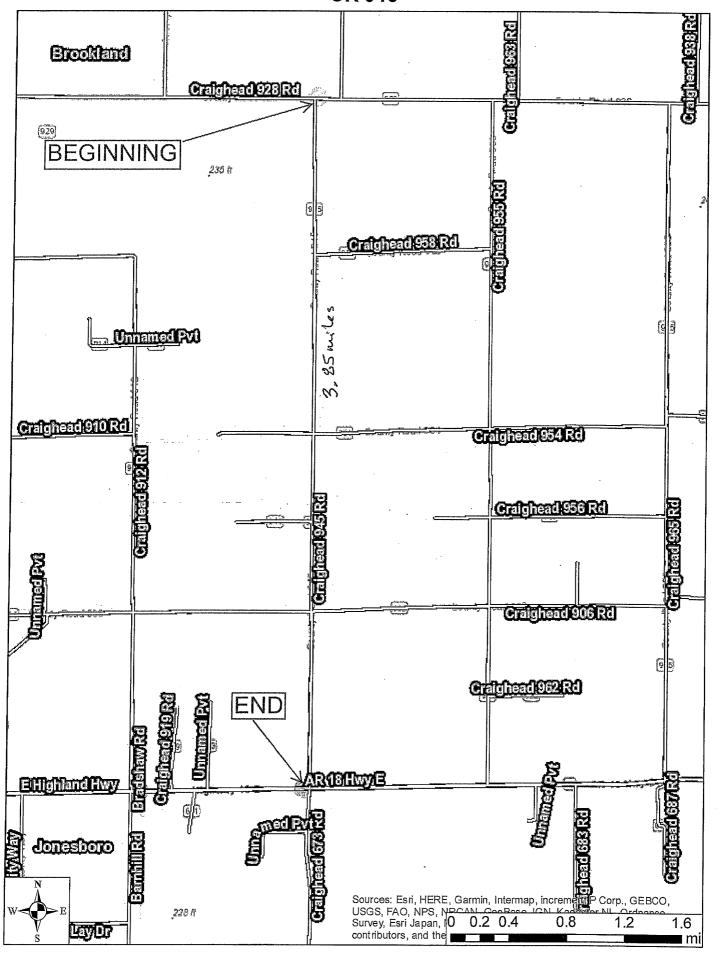






2023

Kevin E. Hughes, Assistant Secretary



Craighead County Construction Specifications For Full Depth Reclamation (FDR) Using Cement

1. Description

Full Depth Reclamation (FDR) with Portland cement shall consist of pulverizing the existing flexible pavement and underlying materials (base and/or subgrade materials) to the length, depth and width as specified by Craighead County or as shown on the plans, blending with Portland cement, water, other additives as required by the mix design, to produce a cement stabilized base. This material shall then be shaped, compacted, cured and protected in accordance with the plans and specifications.

2. Treatment Thickness

The existing flexible pavement, base and/or subgrade material shall be pulverized to a total depth specified in the contract within ± 0.5 inches. The pulverized section shall then be re-graded, with excess material removed and hauled away as necessary, so as to allow for the net placement of 10 or 12 inches of new pavement material as specified.

3. Construction Limitations

All full depth reclamation operations including pulverizing, mixing, compacting, finishing, and curing shall be completed during daylight hours. The length of roadbed pulverized at any time shall not exceed the length that can be completely pulverized, mixed, and compacted in the same working day without approval from county officials. No FDR construction activities are allowed when the ambient air temperature is below 40 °F or when it is raining at the job site.

4. Cement

Cement shall meet the requirements for Type I or II Portland cement or for Portland Limestone Cement (PLC). The cement type used should be consistent with the type used in the mix design unless approval is given from county officials.

5. Water

Water shall be added to achieve the desired moisture content. Water added shall be free from deleterious concentrations of oils, acids, alkalis, salts, sugars, vegetation, as well as other organic, chemical or deleterious substances. The water shall not cause an adverse effect on either the cementitious stabilizing agent or the reclaimed mixture. If the water is of questionable quality, it shall be tested in accordance with ASTM C1602 or according to local standards and procedures.

6. Equipment

The FDR equipment shall be capable of pulverizing the existing asphalt and underlying materials. The equipment used for blending/mixing the pulverized materials with stabilizing agent, water, additives and corrective aggregate, if used, shall be capable of producing a homogeneous and uniformly blended reclaimed mixture. The equipment used for placement of the FDR stabilized base shall be capable of placement to the lines, grades, and guidelines provided by County officials. The equipment shall consist of the following major components:

6.1 Spreaders/Distributors

Spreaders or distributors used to apply dry powder stabilizing agents and/or additives shall be non-pressurized mechanical vane-feed, cyclone or screw type capable of providing a consistent, accurate and uniform distribution of material while minimizing dust during construction.

6.2 Additive Slurry Storage and Supply Equipment

If used, slurry shall be produced using onsite portable batching equipment or inline processed and fed directly to the reclaiming equipment. Additive slurry storage and supply equipment shall have agitators or similar

equipment to keep the slurry in suspension when held in the slurry batch or storage tanks. Slurry shall be kept in suspension during transport using agitator equipment. The meter system controlling application of slurry shall apply the additive within a tolerance of \pm 10% of the specified rate.

6.3 Mixing/Reclaiming Equipment

Only self-propelled, high powered rotary mixers/reclaimers capable of mixing in-place to a depth of 12 inches shall be used. The cutting drum shall be approximately 4 feet in width and fitted with cutting teeth capable of trimming earth, aggregate and asphalt materials and be so designed that they may be accurately adjusted vertically and held in-place. The machine shall not weigh less than 25,000 lbs. and shall have the strength and rigidity so that it shall not develop a center deflection of more than 1/8 in. Disc harrows, bucket teeth and other equipment that does not meet the above requirements shall not be used for FDR.

The mixer/reclaimer shall be fitted with an integrated water injection system capable of introducing water into the cutting drum during the mixing process. The metering device shall be capable of automatically adjusting the flow of water to compensate for any variation in the amount of reclaimed material introduced into the mixing chamber. Water shall be calculated on a volumetric basis tied to a foot per minute gauge using a calibrated meter that is capable of accurately measuring the amount of water to within a tolerance of \pm 10% of the rate required. Automatic digital readings shall be displayed for both the flow rate and total amount of reclaimed material and water in appropriate units of weight and time.

6.4 Motor Grader

A motor grader for pre-shaping, aerating, spreading and final shaping of the material shall be provided. The motor grader shall have a cross slope indicator.

6.5 Rollers

Compacting of the reclaimed mixture shall be completed using self-propelled rollers, complete with properly operating scrapers and water spray systems. The number, weight and types of rollers shall be as necessary to obtain the required compaction throughout the entire FDR thickness. A pneumatic roller of adequate size, a vibratory padfoot roller with an 84-inch wide drum equipped with knockdown blade, and a single or double drum vibratory steel roller may be used in any combination to achieve density.

6.6 Water Truck

Water truck(s) for supplying water to the reclaimer or roadway for addition of moisture and for curing during the FDR operation shall be provided. Water truck(s) shall be capable of providing a controlled and consistent spray without eroding or otherwise damaging the compacted FDR stabilized base surface.

7. Materials

RAP and underlying material shall consist of the existing asphalt material, existing base course material and/or subgrade material. The underlying materials shall be free of roots, sod, topsoil, weeds, wood or any material deleterious to its reaction with the cementitious stabilizing agent. The gradation of the processed (pulverized) material should meet the general requirements of Table 1 or within mix design tolerance.

Table 1 – GRADATION OF PROCESSED (PULVERIZED) MATERIALS						
Sieve Size	Minimum Percent Passing					
3 in. (75 mm)	100					
2 in. (50 mm)	95					
No. 4 (4.75 mm)	55					
No. 200 (0.075 mm)	5					

Rubberized crack filler, pavement markers, loop wires, thermoplastic markers, paving fabric and other similar materials shall be removed as observed from the roadway during the reclaiming process. Residual materials that cannot be completely removed from the reclaimed material may be incorporated into the FDR mixture if the Contractor can demonstrate that those added materials will not adversely affect performance. Any such materials retained in the mixture shall be appropriately sized and blended so as to not adversely affect the appearance or strength of the FDR stabilized base.

8. Construction

Throughout the pulverization, mixing, placement and compaction of the reclaimed materials, adjustments may be made to the cementitious stabilizing agent, water, and additives so as to produce a reclaimed mixture with optimal performance that meets specification requirements. All adjustments shall be recorded and submitted to County Officials.

Throughout the pulverization, mixing, placement and compaction of the reclaimed materials, adjustments may be made to the cementitious stabilizing agent, water, and additives so as to produce a reclaimed mixture with optimal performance that meets specification requirements.

All adjustments shall be recorded and submitted to County Officials.

8.1 Roadway Preparation

Before the stabilization process begins, the area to be stabilized shall be pre-pulverized, graded, and/or shaped to the lines and grades as specified by the county officials. During this process any unsuitable soil or material shall be removed and replaced with materials meeting project plan and specification requirements. The subgrade shall be firm and able to support, without yielding or subsequent settlement, the construction equipment and compaction of the FDR stabilized base. Soft or yielding subgrade shall be made stable before construction proceeds. Any manholes, valve covers, or other buried structures/utilities shall be protected from damage prior to processing. FDR shall be constructed in a series of parallel lanes such that longitudinal and transverse joints are minimized.

8.2 Control Strip

During the first day of production the first load of cementitious stabilizing agent shall be used by the Contractor to construct a control strip to verify that the construction process meets specification requirements. The control strip shall be of adequate size for the Contractor to:

- 8.2.1 Demonstrate that the equipment, materials, and processes proposed can produce a reclaimed material layer that conforms to specification requirements.
- 8.2.2 Determine the optimal rates for cementitious stabilizing agent, water, and any additives recommended for the reclaimed material.
- 8.2.3 Determine the sequence and manner of rolling necessary to obtain specified density requirements.

FDR operations <u>may continue</u> through the first day unless the Contractor's equipment and process fails to meet the requirements for successful completion of FDR operations. FDR operations shall not continue beyond the first day unless a control strip has been approved by County Officials. If necessary, the contractor will cease production after the first load of cement stabilizing agent until new procedures are developed. Once new procedures are developed, a new test section shall be required. If the new procedures are still deemed unsatisfactory, then production must

cease, and a new corrective action plan submitted to County officials prior to beginning work.

In lieu of a control strip, the County Officials may allow the Contractor to provide proof, based on previous experience with the same equipment, personnel, and materials that the work will conform to specification requirements.

8.3 Pulverization

The pre-determined full depth of asphalt material and underlying materials (base and/or subgrade) shall be pulverized to a homogenous mixture and specified gradation using a mixer/reclaimer meeting the requirements of Section 6.3. The mixture shall be brought to the desired moisture content during this process by means of surface application or through the mixer/reclaimer's integrated fluid injection system.

Longitudinal joints between successive cuts shall overlap a minimum of 6 inches (150 mm) and transverse joints shall overlap a minimum of 2 feet (0.60 m).

8.4 Cementitious Application and Mixing

Removal and disposal of excess material, if required, shall be performed on the pulverized asphalt, base and subgrade material prior to cementitious treatment. Following pulverization and any trimming, if necessary, the cementitious material shall be spread on or applied to the pulverized material in accordance with the mix design using an approved spreader/distributor or slurry equipment. The actual final dry unit weight of pulverized material shall be determined during construction. The cementitious stabilizing agent shall be applied to within a tolerance of ±5% of the rate required. The compressive strength at 7 days for the FDR stabilized base should be within acceptable range of the mix design.

Dust control measures shall be employed to minimize fugitive dust. With a dry stabilizing agent, the distance between the spreader and the reclaiming operation shall be reduced appropriately during windy days. Slurry may be spread on the pulverized reclaimed material in front of the reclaiming operation or may be added directly to the reclaimer's mixing chamber through the reclaimer's integrated fluid injection system. If the stabilizing agent is supplied in slurry form in front of the reclaiming operation, the reclaimed material shall be scarified prior to spreading of slurry to prevent excessive runoff or ponding. Slurry shall be produced at the jobsite. The Contractor shall provide the Owner Agency with batch or inline production logs daily. In no case shall dry stabilizing agent or slurry be allowed to remain exposed at the end of the workday. No traffic, other than the reclaiming equipment, shall be allowed to pass over the spread stabilizing agent until the reclaiming operation is complete.

The first contact of cementitious stabilizing agent with water prior to application on the reclaimed material shall not exceed 60 minutes. The time from cement placement to start of mixing shall not exceed 30 minutes. If using dry stabilizing agent, water application shall only be added through the mixer/reclaimer's integrated fluid injection system during mixing. Mixing shall be performed while introducing water into the pulverized material through the metering device on the mixer. After completion of the first pass, the road shall be shaped with a motor grader and compacted with a steel wheel roller to provide improved depth control. A second pass of the reclaimer shall be completed with the required amount of stabilizing agent added. If necessary, water shall be added to the pulverized material during mixing to bring the moisture content to within minus 1 to plus 2 percent of the optimum moisture content determined in accordance with ASTM D558 to ensure chemical reaction of the cementitious stabilizing agent and processed

For bituminous curing membranes the FDR stabilized base shall be free of all loose, extraneous materials and shall be applied in the form of a fog seal composed of either CSS-1h or SS-1h emulsified asphalt, or another emulsion approved by the Owner Agency, diluted up to 60 percent by volume with water. The fog seal shall be applied at a rate of 0.10 to 0.20 gal/yd², (0.4 to 0.8 L/m²). When a sand blotter is required, it shall be applied to the surface at 2 to 3 lbs/yd². Sand shall be free from clay or organic material. Application rates of fog seal and sand blotter shall be determined by the Contractor and shall be such that a stable and safe roadway surface can be maintained until the surface course is placed. A bituminous curing compound resistant to tracking may be used in place of a sand blotter if proven to be effective.

for stiffness after each additional rolling pass. It is anticipated that the roller will have to make 1 to 4 passes to achieve the required reduction in stiffness.

After cessation of microcracking the section the stabilized surface, if previously moist cured, shall be moist cured for an additional 2 to 4 days with a water spray that shall not erode the surface of the FDR stabilized base. As an alternative, the stabilized surface shall be moist cured for an additional 4 hours and then a bituminous or other approved sealing membrane applied in accordance with Section 7.9.

If the stabilized surface was previously cured prior to microcracking with a bituminous or other approved sealing membrane, then the stabilized surface shall be moist cured by being kept continuously moist for a period of 2 hours and then a bituminous or other approved sealing membrane reapplied in accordance with Section 7.9.

9. Traffic

FDR stabilization shall be constructed in one-lane widths with active traffic control during construction. Full roadway width construction will not be allowed without approval by County officials. Completed portions of FDR stabilized base can be opened immediately to low speed local car traffic and to construction equipment, provided the curing material is not impaired. Finished portions of the FDR stabilized base traveled on by construction equipment used in constructing an adjoining section shall be protected in such a manner so as to prevent equipment from marring or damaging the completed work. If damage occurs, it may be necessary to keep heavy truck traffic off the stabilized base until the final surfacing is placed, and/or the stabilized base has passed proof roll testing. Proof rolling shall represent the type of traffic expected on the pavement. If deformation does not occur, moving truck traffic can be allowed at speeds less than 30 mph until the final surfacing is placed. If deformation does occur, truck traffic shall be kept off the stabilized base until it is firm enough to support the loads.

10. Maintenance

After opening to traffic and prior to placing the surface course, the surface of the FDR stabilized base shall be maintained in a condition suitable for the safe movement of traffic. The Contractor shall protect and maintain the surface from nuisance water, other deleterious substances, and/or any other damage. Any damage to the completed FDR stabilized base shall be repaired by the Contractor prior to placement of the final surfacing. If it is necessary to replace any processed material, the replacement shall be for full depth, with vertical cuts, using an approved material. Skin patches shall not be permitted. No direct payment shall be made, and costs shall be included elsewhere for protection and maintenance of the stabilized base.

Longitudinal joints between successive passes shall overlap a minimum of 6 inches and transverse joints shall overlap a minimum of 2 feet.

To ensure a uniformly treated section, any material/soil around manholes, utility risers, valves and adjacent to curbs/gutters or in corners, shall have that material/soil pulled out to the depth of treatment and placed where it is accessible for mixing. After mixing, that material shall be replaced and compacted.

8.5 Compaction

The Contractor shall sequence operations such that compaction shall begin no more than 20 minutes after mixing or immediately upon achieving gradation and moisture requirements. All compaction operations shall be completed within 2 hours from start of mixing operations. No section shall be left undisturbed for more than 30 minutes during compaction operations. At the start of compaction, the moisture content shall be within -1% to +2% of the specified optimum moisture content determined in accordance with ASTM D558. The mixed material shall be uniformly compacted in one layer to a minimum of 98% of the maximum dry density determined in accordance with ASTM D558, based on a moving average of five consecutive tests, or at the discretion of County Officials, with no test below 96%. Field density of compacted material may be determined by nuclear method in the direct transmission mode (AASHTO T 310, ASTM D6938) or sand cone method (AASHTO T 191, ASTM D1556).

8.6 Finishing and Surface Tolerance

As compaction nears completion, the surface of the FDR stabilized base shall be shaped to the specified lines, grades and cross sections. Compaction shall then be continued until uniform and adequate density is achieved. During the finishing process the surface shall be kept moist by means of water spray devices that shall not erode the surface. Compaction and finishing shall be performed in such a manner so as to produce a surface free of compaction planes, cracks, ridges or loose material. The surface tolerance shall not vary more than 1/2 inch from a 10-foot straight edge placed on the surface. The Contractor shall correct humps exceeding this tolerance by trimming, milling or abrasive grinding. Feathering shall not be permitted for repair of low areas. Depressions exceeding the specified depth tolerance shall have a tack coat applied and filled with an asphalt mixture just prior to placement of the final surfacing. All finishing operations shall be completed within 4 hours from start of mixing. However, trimming (cuts only) can be completed within 24 hours of mixing.

8.7 Curing

After completion of final finishing, the cementitious stabilized surface shall be cured by application of a bituminous or other approved sealing membrane, or by being kept continuously moist for a period of 3 to 5 days with a water spray that shall not erode the surface of the FDR stabilized base. If curing material is used, it shall be applied as soon as possible, but no later than 24 hours after completing finishing operations. The surface shall be kept continuously moist prior to application of the curing membrane.

11. Surfacing

Final surfacing (hot or warm mix asphalt, seal coat, or concrete) can be placed any time after curing, as long as the FDR stabilized base is sufficiently stable (proof roll) to support the required construction equipment without marring or permanent distortion of the surface.

12. Quality Assurance Testing

The Contractor shall perform process and quality control (QC) sampling and testing, and exercise management control to ensure that FDR base conforms to the project plans and specifications. The Contractor shall provide a qualified technician to perform process and quality control sampling and testing during construction of the FDR. The proficiency of testing laboratories and sampling and testing personnel shall be reviewed and approved by County Officials prior to providing services to the project. County Officials shall have unrestricted access to all information resulting from mix design and quality control activities. All quality control testing results shall be submitted to the County Officials.

Sampling and testing shall be performed as outlined in these specifications and within the guidelines shown in the following table:

Quality Control Measures by Contractor

	- Quality Cont.			T
Tune of Testing	Method	F	Sample location &	
Type of Testing Cement (portland or blended hydraulic	Supplier Generated certificate	Before use of every load	Size N/A	Target N/A
Cement; Dry Spread Rate	Volumetric Distribution	Every 1/2 mile	From Pavement; one 3ftX3ft square canvas patch test	± 5% of mix design application rate
Cement; slurry application rate	Volumetric Dist % solids by drying or hydrometer	Once for every delivery load	App rate: 1 delivery load over area applied; %solids from batch tank, 1 qt	± 5% of mix design application rate
Control Strip	Nuclear gauge per ASTM D2950 or other approved method	As needed during test strip and first day	As necessary	Rolling pattern to meet density requirements
FDR Gradation	Air dried or wet gradation	Once during test strip & first day or a route change or change in materials occurs	Sample in accordance with ASTM D979 from mat. Approx 22 lbs sample size	Within Mix design tolerence
Moisture Content of Reclaimed Mixture	AASHTO T 329 AASHTO T 265, ASTM D2216 or ASTM D4643	In control strip and as required	Sample in accordance with ASTM D979 from mat. Approx 22 lbs sample size	Adjust to -1 to +2% of optimum moisture content; ASTM D588
Depth of Pulverization/ stabilized material	Depth Probe	Every 1000 ft.	Across mat width	± 1/2 inch or Minimum plan specified
FDR Compaction	Nuclear gauge (ASTM D6938) Direct Transmission	Initial control strip as required and every 1,000 ft. thereafter	Random sampling as per ASTM D3665	≥ 96% of ASTM D588,
Mat Width	Tape Measure	Every 1000 ft.	Across mat width	± 3 inches

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Quantities of the FDR stabilized base shall be measured by the square yard completed and accepted by the Owner Agency to the depths specified or shown on the plans. Cementitious stabilizing agent and additive weight shall be based upon certified delivery weight tickets, less any unused portion. Water used in this operation shall not be paid for directly and shall be considered subsidiary to the bid item.

Payment for FDR shall be made at the contract unit price per square yard. The price shall be full compensation for all labor, materials, tools, equipment, and incidentals; for doing all the work involved in full depth reclaiming, complete in-place; for pulverizing, mixing, blending, placing, compacting and curing of the FDR stabilized base; for protection and maintenance of the FDR stabilized base; for performing all QA testing including mix design, if required to be adjusted by the Contractor, and for obtaining measurements and recording results of all tests as shown on the plans and specifications.

Pay Item	Pay Unit
Cement	Ton
Full Depth Reclamation (12 inch)	Square Yard
Full Depth Reclamation (10 inch)	Square Yard



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April 14th, 2023

The Honorable Marvin Day Craighead County Judge Jonesboro, AR 72401

RE: Craighead County Roads FDR Project Mix Design Testing, Craighead County, Arkansas

Mr. Day,

At your request, MTA performed FDR mix design testing for the above mentioned project. MTA gathered the samples used for testing in the field with the help of the road department. Three (3) areas from each road (CR 928 and CR 945) were chosen and sampled using an excavator and a small milling machine. The samples were mixed and collected to a depth of approximately 1-ft. The samples were then taken to the lab and individual gradations were performed. The results of these gradations are contained in Appendix A of this report.

Due to the consistency of the gradations for CR 945, further tests were performed on CR 945 Sample 1. Because of the inconsistency of the gradations for CR 928 further tests were run on a mixed sample from all three locations.

After collecting the material in the field MTA then performed modified proctor tests (AASHTO T180D) on samples corresponding to the individual roads, to determine the materials optimum moisture content. The results of the proctor tests are contained in Appendix B of this report.

To determine the recommended cement content for the FDR mix design MTA performed tests on the samples in general accordance with AASHTO T134. The compressive strength data obtained from this testing is contained in Appendix C of this report.

Based on observations and data obtained during testing, MTA recommends that the material for County Road 945 be stabilized at a rate of 7% cement, by weight of dry soil.

Based on observations and data obtained during testing, MTA recommends that the material for County Road 928 be stabilized at a rate of 8.5% cement, by weight of dry soil. Due to the amount of fines contained in the samples obtained from the field, MTA further recommends that the depth of FDR be lessened to a depth of 10-in for County Road 928, to decrease the amount of subgrade mixed into the FDR section.



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MTA appreciates the opportunity to work with you on this project and we look forward to working with you in the future. If you have any questions regarding this report, please let us know.

Sincerely,

Gray Spahn, P.E. MTA Engineers

MTA Engineers

Appendix A: Gradations

MTA Engineers

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					al Inspection • D AR • Hoover, AL	
MTA Job#:	Date:				Lab #904300	
P	 ad County FDR Pro		-			f Material
AHTD Job#:	City:		***************************************		Base Course:	
Lot:	·			-	Surface Course:	
Sublot:					Select Material:	**************************************
piana atau atau atau atau atau atau atau a					Other:	9281
	Wet Weight:	6032.3	grams			
	Dry Weight:	5678.3	grams			
	Wt. After Wash:	4573	grams			
			Sieve Analysi	S		
6 - 100		Wt. Retained	Ι			
	Sieve Size	(gram)	% Retained	% Passing	Spec. Range	•
•	1 1/2"	0.0	0%	100%	100%	
The following of the fo	1"	479.3	8%	92%	95% - 100%	
	3/4"	723.0	13%	87%	-	
	1/2"	1293.2	23%	77%	25% - 60%	
	3/8"	1696.7	30%	70%	-	
	#4	2698.0	48%	52%	0 - 10% -	
	#8	3311.0	58%	42%	0 - 5%	
	#16	3736.9	66%	34%		
	#30	4076.4	72%	28%	-	
•	#50	4302.4	76%	24%	-	
	#100	4470.9	79%	21%	-	
	#200	4544.4	80.0%	20.0%	-	
	AASHTO T-2 T-11 T-2	27 T-248				
		FM:	4.41			
		Decant:	19.5%			
		%Moisture:	6.2			
		Other: ַ				
			· ·			
-	County Road 928		*************************			
Total Today:	PT-MANAGEMENT AND ADDRESS OF THE PARTY OF TH	TON			Pass:	
Previous Total:		TO 11			Fail:	
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Sampled By:	Gray Spahn Cl	TTP#3218 (Lab	Manager)			
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					Lab M	anager
Tested By:	Gray Spahn Cl	TP#3218 (Lab I	Manager)	Signed:	1	20-1
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Geo					AR • Hoover, AL	
MTA Job#:		3/8/23		•	Lab #904300	
principal de la constant de la const	ad County FDR	-,,,,,	-			of Material
AHTD Job#:	City:	Jones	boro	***	Base Course:	
Lot:	_ ′			-	Surface Course:	
Sublot:					Select Material:	
B345 700 4 100 700 000 100 000 100 100 100 100 100					Other:	9281
	Wet Weight:	5964.8	grams		•	
	Dry Weight:	5441.2	grams			
	Wt. After Wash:	3387.7	grams			
			.0			
			Sieve Analysi	S		
•		Wt. Retained				
	Sieve Size	(gram)	% Retained	% Passing	Spec. Range	
	1 1/2"	0.0	0%	100%	100%	
The second secon	1"	239.0	4%	96%	95% - 100%	
	3/4"	524.5	10%	90%	-	
	1/2"	1002.6	18%	82%	25% - 60%	
**	3/8"	1389.7	26%	74%	-	
	#4	2109.7	39%	61%	0 - 10%	
	#8	2545.3	47%	53%	0 - 5%	
	#16	2806.0	52%	48%	_	
	#30	2984.2	55%	45%		
- 	#50	3170.0	58%	42%	-	
	#100	3310.7	61%	39%	-	
	#200	3368.5	61.9%	38.1%	-	•
	AASHTO T-2 T-11 T-2					
		FM:	3.46			
		Decant:	37.7%			
		%Moisture: Other:	9.6			
		Otner:				
Sampled From:	: County Road 928	Sample 1				
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Signed:		> AP		Reviewed By:	Gray Spahi	n CTTP# 3218
				-	Lab N	/lanager
Tested By:	Gray Spahn C	TP#3218 (Lab I	Manager)	Signed:	Don	pah
Signed:	Δ	~ AP	ah	-		

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i Ge	Offices in: Little				, AR • Hoover, AL	Jesign
MTA Job#:		3/8/23		·	Lab #904300	
\$1100 All Company and the Comp	nead County FDR Pro		-			of Material
AHTD Job#:		Jones	boro		. Base Course:	T Triductiful
Lot:					Surface Course:	
Sublot:					Select Material:	
					Other:	9283
	Wet Weight:	5781.1	grams		-	
	Dry Weight:	5091.2	grams			
	Wt. After Wash:	2695.6	- grams			
			_0			
**			Sieve Analys	is		
		Wt. Retained				
	Sieve Size	(gram)	% Retained		Spec. Range	
a saa saa saa saa saa saa saa saa saa s	1 1/2"	0.0	0%	100%	100%	
general Total San	1"	57.4	1%	99%	95% - 100%	
	3/4"	234.5	5%	95%	-	
	1/2"	501.4	10%	90%	25% - 60%	
•	3/8"	740.8	15%	85%	_	
	#4	1345.5	26%	74%	0 - 10%	
	#8	1824.9	36%	64%	0 - 5%	
	#16	2147.2	42%	58%		
	#30	2360.4	46%	54%	-	
mara sa sangara sa sa	#50	2515.6	49%	51%	-	
	#100	2611.6	51%	49%		
	#200	2664.2	52.3%	47.7%	-	
	AASHTO T-2 T-11 T-2					
		FM:	2.71	_		
		Decant:	47.1%	-		
		%Moisture:	13.6	-		
		Other:		-		
Sampled From	m: County Road 928	Sample 3				
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Sampled By:	Gray Spahn C	TTP#3218 (Lab	Manager)	•		
Signed:	Dr	~ Ap	h	Davidare d D	C C 1	CTTD# 2242
				Reviewed By:		CTTP# 3218
Tested By:	Grav Spahn Cl	ГТР#3218 (Lab I	Manager)		Lab IV	lanager
•		λ	1	· Signed:	Do	J Palm
Signed:	4	>> (1) Pa	alh-	-		

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		Offices III. Little		Springuale, An	• Jonesboro,	AR • Hoover, AL	
MTA Job#:	o · 1	Date:				Lab #904300	
-	Craignea	d County FDR pro		_1			⁻ Material
AHTD Job#: _		_ City:	Jones	sboro	-	Base Course: _	
Lot:_		-				Surface Course:	
Sublot:		-				Select Material:	
						Other: _	9451
		Wet Weight:		_grams			
		Dry Weight:	7293.5	_grams			
		Wt. After Wash:	4586.1	grams			
				Sieve Analysi	s		
			Wt. Retained				
		Sieve Size	(gram)	% Retained	% Passing	Spec. Range	
•		1 1/2"	0.0	0%	100%	100%	
	7.7 TAC 27.0	1 "	257.4	4%	96%	95% - 100%	
		3/4"	551.6	8%	92%	-	
		1/2"	1060.0	15%	85%	25% - 60%	
		3/8"	1413.7	19%	81%	-	
		#4	2250.9	31%	69%	0 - 10%	
		#8	2899.2	40%	60%	0 - 5%	
		#16	3391.4	46%	54%		
		#30	3779.5	52%	48%	-	
· •		#50	4114.6	56%	44%	-	
· · · · · · · · · · · · · · · · · · ·		#100	4390.1	60%	40%	-	
•		#200	4509.9	61.8%	38.2%	-	
		AASHTO T-2 T-11 T-2	27 T-248		L		
		•	FM:	3.12			
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			%Moisture:				
			Other:				
							
Sample	d From:	County Road 945	Sample 1				
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Previou						Fail:	***************************************
	o Date:		TON			Quality Control:	X
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Tested By	/ :	Gray Spahn C7	TP#3218 (Lab	Manager)	C! !	\sim	2 N
•		1	<u>.</u> لأ	Λ	Signed:	\$100 e	J Pal-
Signed:			20 P	ah	_		

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MTA Job#:		3/8/23	<u></u>		Lab #904300	
	ad County FDR Pro	ject			. Class	of Material
AHTD Job#:	City:			-	Base Course:	
Lot:	PRINCES				Surface Course:	
Sublot:					Select Material:	
					Other:	9452
	Wet Weight:	5841.8	grams			
	Dry Weight:	5345.7	grams			
	Wt. After Wash:	3231.9	grams			
			Sieve Analysi	s		
		Wt. Retained	l little y tilidinys.			
	Sieve Size	(gram)	% Retained	% Passing	Spec. Range	
	1 1/2"	0.0	0%	100%	100%	
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and the second s	3/4"	766.2	14%	86%	-	
a la la esta esta en la companione	1/2"	1398.5	26%	74%	25% - 60%	
	3/8"	1675.4	31%	69%		
	#4	1992.7	37%	63%	0 - 10%	
	#8	2608.4	49%	51%	0 - 5%	
	#16	2837.3	53%	47%		
	#30	2974.4	56%	44%	_	
	#50	3083.1	58%	42%		
grander de la company de l La company de la company de	#100	3184.3	60%	40%	~	
	#200	3227.9	60.4%	39.6%	_	
	AASHTO T-2 T-11 T-2					
		FM:	3.58			
		Decant:	39.5%			
		%Moisture:	9.3			•
		Other:	· · · · · · · · · · · · · · · · · · ·			
		•				
Sampled From:	County Road 945	Sample 2				
Total Today:		TON			Pass:	
Previous Total:					Fail:	
Total to Date:		TON	•		Quality Control:	X
Remarks:					Acceptance:	
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Sampled By:	Gray Spahn CT	TP#3218 (Lab	Manager)			
Signed:	Dr	> dp	Jhom .	Reviewed By:	Gray Spah	n CTTP# 3218
				-		Manager
Tested By:	Gray Spahn CT	TP#3218 (Lab I	Manager)	Signed:	1	121
Signed:	1	- 20		-	, , , , , , , , , , , , , , , , , , ,	Jra -

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		Offices in: L		Springdale, AR	 Jonesboro, 	AR • Hoover, AL	
MTA Job#:		Dat	te: 3/8/23	_		Lab #904300	
Job Name:	Craighe	ad County FDR	MARKET			Class o	f Material
AHTD Job#:		Cit	ty: Jones	boro		Base Course:	
Lot:						Surface Course:	
Sublot:						Select Material:	
						Other:	9453
		Wet Weigh	——————————————————————————————————————	grams			
		Dry Weigh	nt: 4809.9	grams			
		Wt. After Was	h: 2853.7	grams			
				Sieve Analys	sis		
			Wt. Retained				
		Sieve Size	(gram)	% Retained	% Passing	Spec. Range	
		1 1/2"	0.0	0%	100%	100%	·
		1"	20.9	0%	100%	95% - 100%	
		3/4"	220.3	5%	95%	-	
		1/2"	547.1	11%	89%	25% - 60%	
		3/8"	853.3	18%	82%	-	
•	•	#4	1468.3	31%	69%	0 - 10%	
		#8	1871.1	39%	61%	0 - 5%	
•		#16	2057.2	43%	57%	-	
		#30	2304.6	48%	52%	-	
		#50	2633.7	55%	45%	-	
		#100	2808.4	58%	42%	-	
		#200	2851.7	59.3%	40.7%	_	
		AASHTO T-2 T-11			•		
			FM:	2.96	_		
			Decant:	40.7%	_		
			%Moisture:	9.6	_		
			Other:		-		
0 1							
		County Road 9		***************************************			
	Today:		TON			Pass:	
	s Total:					Fail: _	
	o Date:		TON			Quality Control: _	X
Re	emarks:					Acceptance: _	**************************************
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Signed:		1	m 12				
Jigireu.		g = > .	30P	Ur ~	Reviewed By:	Gray Spahr	CTTP# 3218
						Lab M	lanager
Tested By	/:	Gray Spahn	CTTP#3218 (Lab	Manager)	Signed:	2	John-
Signed:			2m 2n	al		7-13-6	Jran -
-		~	·	M			

Appendix B: Proctors



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REPORT OF LABORATORY COMPACTION TEST

LAB:

Jonesboro 904300

METHOD USED:

AASHTO T180D

MANUAL RAMMER

PREPARATION METHOD: DRY

PROJECT:

Craighead County Roads

AHTD#:

CONTRACTOR: DATE SAMPLED:

LOCATION:

CR928

DESCRIPTION:

MAT'L SOURCE:

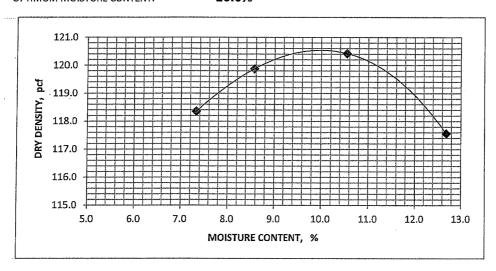
(mixed)

MAXIMUM DRY DENSITY:

120.6 PCF

OPTIMUM MOISTURE CONTENT:

10.0%



SIEVE ANALYSIS (% passing)

ASTM C-136

2"	#DIV/0!
3/4"	#DIV/0!
3/8"	#DIV/0!
#4	#DIV/0!
#10	#DIV/0!
#40	#DIV/0!
#200	#DIV/01

ASTM C-136

DENSITY	MOISTUR
DENSITY	MOISTUR

118.4	7.3
119.9	8.6
120.4	10.5
117.6	12.7

PLASTICITY INDEX

ASTM D-4318

LIQUID LIMIT	40
PLASTIC LIMIT	19
PLASTICITY	21

OVERSIZE CORRECTION DATA:

N/A

TESTED BY:

Gray Spahn

CTTP #: Date: 3218

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REPORT OF LABORATORY COMPACTION TEST

LAB:

Jonesboro 904300

METHOD USED:

AASHTO T180D

MANUAL RAMMER

PREPARATION METHOD: DRY

PROJECT:

Craighead County Roads

AHTD #:

CONTRACTOR:

DATE SAMPLED: LOCATION:

CR945

DESCRIPTION:

MAT'L SOURCE:

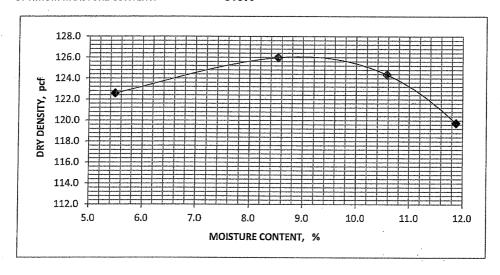
Sample 1

MAXIMUM DRY DENSITY:

126.1 PCF

OPTIMUM MOISTURE CONTENT:

9.0%



SIEVE ANALYSIS (% passing)

ASTM C-136

2"	#DIV/0I
3/4"	#DIV/0!
3/8"	#DIV/0!
#4	#DIV/0!
#10	#DIV/0!
#40	#DIV/01
#200	#DIV/0!

ASTM C-136

DENSITY MOISTURE

126.0	8.5
124.4	10.6
119.8	11.9
122.6	5.5

PLASTICITY INDEX

ASTM D-4318

LIQUID LIMIT	27
PLASTIC LIMIT	17
PLASTICITY	10

OVERSIZE CORRECTION DATA:

N/A

TESTED BY:

Gray Spahn

CTTP #: Date: 3218

Appendix C: Compressive Strength **Data**



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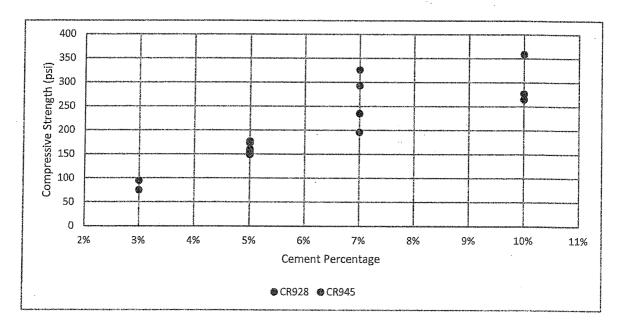
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CR 928 Cement Stablilization Data

CR 945 Cement Stablilization Data

Cement Percentage	Compressive Strength
5%	149
5%	160
7%	196
7%	235
10%	265
10%	277

Cement Percentage	Compressive Strength
3%	75
3%	95
5%	173
5%	154
5%	177
7%	293
7%	326
10%	359



Construction Specifications For Full Depth Reclamation (FDR) Using Cement Addendum

This addendum covers changes necessary to clarify specification requirements and necessary revisions. The revisions are shown by sections shown in the construction specifications. Clarifications are shown in the notes.

NOTES

Note 1. Quantities

County Road 928 is the 10 inch Full Depth Reclamation (FDR) section with an estimated area of 19,040 square yards.

County Road 945 is the 12 inch FDR section with an estimated area of 54,080 square yards. Cement quantities are estimated at 3,009 tons.

Cement tonnage will be based on delivery tickets to the job site.

Note 2. Quality Control and Inspection.

The County will perform all necessary quality control and inspection on the project.

Note 3. Roadway Preparation

If weak areas are encountered that do not support FDR construction as mentioned in Section 8.1 of the Construction Specifications, the Contractor will contact County Officials regarding remediation. All work performed to stabilize the area will be paid for by Change Order.

Section Revisions

Section 4. Cement

Type IL cement is allowed.

Section 6.3 Mixing/Reclaiming Equipment

The Contractor shall be responsible for the method used to apply water at the required rate. The water metering device capable of automatically adjusting the water content is not required.

Section 7.0 Materials

The gradation of the processed materials shown in Table 1 is deleted. The pulverized material will be required to have a minimum of 95% passing the 3 inch sieve.

Section 8.1 Roadway Preparation

The following sentence is added to the section. Additional work necessary under this section will be accomplished by agreement with County officials.

Section 9. Traffic

This section is rewritten as follows:

FDR stabilization shall be constructed in one-lane widths with active traffic control during construction. Full roadway width construction will not be allowed without approval by County officials. Completed portions of FDR stabilized base can be opened immediately to low speed local car traffic and to construction equipment, provided the curing material is not impaired. Finished portions of the FDR stabilized base traveled on by construction equipment used in constructing an adjoining section shall be protected in such a manner so as to prevent equipment from marring or damaging the completed work. Thru car traffic is not allowed on stabilized pavement during the first 3 days of curing. Truck traffic is not allowed for 7 days after construction. Placement of the asphalt overlay is allowed after 24 hours after construction. However, no thru traffic will be allowed during the first 3 days of curing with or without an overlay. All traffic is allowed on the overlayed sections after 3 days of curing.

Construction Specifications For Full Depth Reclamation (FDR) Using Cement Addendum 2.

This addendum is a clarification of the curing requirement for the stabilized pavement using Full Depth Reclamation.

NOTES

Note 4.

Curing by water will be paid for up to the amount bid for curing with prime coat. Curing by water shall generally follow the attached best practice for curing from PCA.

Section Revisions

Section 8.2 Control Strip

Add the following. The effectiveness of water curing shall be determined after completion of the control strip. If water curing is deemed unsatisfactory by county officials, a new test strip will be constructed using new methods or different curing materials. The curing material used must be approved by county officials.

Section 8.7 Curing

The water curing period is extended to a minimum of 5 days.