### ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT

		ND PROCUREMENT DIVISION D INVITATION		
3id Numbe 3id Ope	ening Date:August 16, 2011Time: 11:00 a.m.	BID OPENING LOCATION: AHTD Equipment and Procurement Division 11302 West Baseline Rd. Little Rock, AR 72209	MAIL TO: AHTD Equipment and Procurement Division P.O. Box 2261 Little Rock, AR 72203	DELIVER TO: AHTD Equipment and Procurement Division 11302 West Baseline Rd Little Rock, AR 72209
Sealed delivery	bids for furnishing the commodities and/or services described below, sub or locations until the above-noted bid opening date and time, and then publinents when appropriate, or bids will be rejected. Late bids and unsign	licly opened at the above-noted bid ope		
	pliance with this Bid Invitation and subject to all the Conditions thereof, the ue each item.	undersigned offers and agrees to furnish	any and all items upon which p	rices are quoted, at the price set
Compa	any Name:	Name (Type or Print):		
Addres	SS:	Title:		
		Phone:	Fax:	
City:	State: Zip:	E-mail Address:		
Federa	al Tax ID or Social Security No.:	Signature: Signature must be legible, o Unsigned bids will be rejecte	riginal (not photocopied) and in	ink.
	Items must be priced individually. Bid total will be bid total, which is the summation of the products o prices.		•	
	Contact for Technical Information: Scott Mullis (4	479-968-2286)		
	To meet the requirements of Arkansas State Highway Highway Construction, Edition of 2003, Special Propagate a part of this bid.	• • • • • • • • • • • • • • • • • • • •		
	If any literature and/or specifications of items conf noted, corrected and submitted with the bid.	lict with AHTD specification	ons, the conflict(s) sha	all be specifically
	Bid price shall include all labor, materials, and equinclude all licenses, fees, permits, royalties, and all the work. This provision supersedes Condition 4 of Arkansas State Highway and Transportation Depart 2003, and applicable Special Provisions.	<u>I taxes</u> . Bid price shall reproper Page 2 of Bid Invitation.	resent full compensation. Payment will be made	ion for completion of le in accordance with
	DID 1: 1		01.1	111 1111 1 . 1

**Bid Bond** in the amount of 5% of total bid price required of all bidders at time of bid opening or bid will be rejected. Personal and company checks are not acceptable as Bid Bonds. See Condition 3 on page 2 of Bid Invitation. Performance Bond only (no checks of any kind allowed) in the amount of 100% of total bid price will be required of successful bidder prior to providing goods/services. See Condition 3 on page 2 of Bid Invitation.

The successful bidder will be required to complete job within 40 working days after notification from District Engineer.

Bids and Specifications are available on-line by going to the AHTD Web Site – www.arkansashighways.com and clicking on "Commodities and Services Bids/Contracts Information". Tabulations will also be available at this site within 72 hours after bid opening. If you have any questions, call this office at 501-569-2667.

Arkansas Contractor's License No.	<del>.</del>	
Current Arkansas Contractor's License Number	er must be listed or bid will be rejected	(A.C.A. ¶17-25-101 et.seq.)

### STANDARD BID CONDITIONS

### M-12-016P

- 1. **ACCEPTANCE AND REJECTION:** The Arkansas State Highway and Transportation Department (AHTD) reserves the right to reject any or all bids, to accept bids in whole or in part (unless otherwise indicated by bidder), to waive any informalities in bids received, to accept bids on materials or equipment with variations from specifications where efficiency of operation will not be impaired, and to award bids to best serve the interest of the State.
- 2. **PRICES:** Unless otherwise stated in the Bid Invitation, the following will apply: (1) unit prices shall be bid, (2) prices should be stated in units of quantity specified (feet, each, lbs., etc.), (3) prices must be F.O.B. destination specified in bid, (4) prices must be firm and not subject to escalation, (5) bid must be firm for acceptance for 30 days from bid opening date. In case of errors in extension, unit prices shall govern. Discounts from bid price will not be considered in making awards.
- BID BONDS AND PERFORMANCE BONDS: If required, a Bid Bond in the form of a cashier's check, certified check, or surety bond issued by a surety company, in an amount stated in the Bid Invitation, must accompany bid. Personal and company checks are not acceptable as Bid Bonds. Failure to submit a Bid Bond as required will cause a bid to be rejected. The Bid Bond will be forfeited as liquidated damages if the successful bidder fails to provide a required Performance Bond within the period stipulated by AHTD or fails to honor their bid. Cashier's checks and certified checks submitted as Bid Bonds will be returned to unsuccessful bidders; surety bonds will be retained. The successful bidder will be required to furnish a Performance Bond in an amount stated in the Bid Invitation and in the form of a cashier's check, certified check, or surety bond issued by a surety company, unless otherwise stated in the Bid Invitation, as a quarantee of delivery of goods/services in accordance with the specifications and within the time established in the bid. Personal and company checks are not acceptable as Performance Bonds. In some cases, a cashier's check or certified check submitted as a Bid Bond will be held as the Performance Bond of the successful bidder. Cashier's checks or certified checks submitted as Performance Bonds will be refunded shortly after payment has been made to the successful bidder for completion of all terms of the bid; surety bonds will be retained. Surety bonds must be issued by a surety company authorized to do business in Arkansas, and must be signed by a Resident Local Agent licensed by the Arkansas State Insurance Commissioner to represent that surety company. Resident Agent's Power-of-Attorney must accompany the surety bond. Certain bids involving labor will require Performance Bonds in the form of surety bonds only (no checks of any kind allowed). In such cases, the company issuing the surety bond must comply with all stipulations herein and must be named in the U.S. Treasury listing of companies holding Certificates of Authority as acceptable sureties on Federal Bonds and as acceptable reinsuring companies. Any excess between the face amount of the bond and the underwriting limitation of the bonding company shall be protected by reinsurance provided by an acceptable reinsuring company. Annual Bid and Performance Bonds on file with E & P Division must have sufficient unencumbered funds to meet current bonding requirements, or the bid will be rejected, unless the balance is submitted as set forth above, prior to bid opening.
- 4. **TAXES:** The AHTD is not exempt from Arkansas State Sales and Use Taxes, or local option city/county sales taxes, when applicable, and bidders are responsible to the State Revenue Department for such taxes. These taxes should not be included in bid prices, but where required by law, will be paid by the AHTD as an addition thereto, and should be added to the billing to the AHTD. The AHTD is exempt from Federal Excise Taxes on all commodities except motor fuels; and excise taxes should not be included in bid prices except for motor fuels. Where applicable, tax exemption certificates will be furnished by the AHTD.
- 5. "ALL OR NONE" BIDS: Bidders who wish to bid "All or None" on two or more items shall so stipulate on the face of bid sheet; otherwise, bid may be awarded on an individual item basis.
- 6. **SPECIFICATIONS:** Complete specifications should be attached for any substitution or alternate offered, or where amplification is necessary. Bidder's name must be placed on all attachments to the bid.
- 7. **EXCEPTIONS TO SPECIFICATIONS:** Any exceptions to the bid specifications must be stated in the bid. Any exceptions to manufacturer's published literature must be stated in the bid, or it will be assumed that bidder is bidding exactly as stated in the literature.
- 8. **BRAND NAME REFERENCES:** All brand name references in bid specifications refer to that commodity or its equivalent, unless otherwise stated in Bid Invitation. Bidder should state brand or trade name of item being bid, if such name exists.
- 9. **FREIGHT:** All freight charges should be included in bid price. Any change in common carrier rates authorized by the Interstate Commerce Commission will be adjusted if such change occurs after the bid opening date. Receipted common carrier bills that reflect ICC authorized rate changes must be furnished.
- 10. **SAMPLES, LITERATURE, DEMONSTRATIONS:** Samples and technical literature must be provided free of any charge within 14 days of AHTD request, and free demonstrations within 30 days, unless AHTD extends time. Failure to provide as requested within this period may cause bid to be rejected. Samples, literature and demonstrations must be substantially the same as the item(s) being bid, unless otherwise agreed to by AHTD. Samples that are not destroyed will be returned upon request at bidders expense. Samples from successful bidders may be retained for comparison with items actually furnished.
- 11. **GUARANTY:** Unless otherwise indicated in Bid Invitation, it is understood and agreed that any item offered or shipped on this bid shall be newly manufactured, latest model and design, and in first class condition; and that all containers shall be new, suitable for storage or shipment and in compliance with all applicable laws relating to construction, packaging, labeling and registration.
- 12. **BACKORDERS OR DELAY IN DELIVERY:** Backorders or failure to deliver within the time required may constitute default. Vendor must give written notice to the AHTD, as soon as possible, of the reason for any delay and the expected delivery date. The AHTD has the right to extend delivery if reasons appear valid. If reason or delivery date is not acceptable, vendor is in default.
- 13. **DEFAULT:** All commodities furnished will be subject to inspection and acceptance by AHTD after delivery. Default in promised delivery or failure to meet specifications authorizes the AHTD to cancel award or any portion of same, to reasonably purchase commodities or services elsewhere and to charge full increase, if any, in cost and handling to defaulting vendor. Applicable bonds may be forfeited.
- 14. **ETHICS:** "It shall be a breach of ethical standards for a person to be retained, or to retain a person, to solicit or secure a State contract upon an agreement of understanding for a commission, percentage, brokerage, or contingent fee, except for retention of bona fide employees or bona fide established commercial selling agencies maintained by the contractor for the purpose of securing business." (Arkansas Code, Annotated, Section 19-11-708).

### ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT

### NOTICE OF NONDISCRIMINATION

The Arkansas State Highway and Transportation (Department) complies with the Americans Disabilities Act of 1990, Section 504 of the Rehabilitation Act of 1973, Title VI of the Civil Rights Act of 1964 and other federal equal opportunity laws and therefore does not discriminate on the basis of race, sex, color, age, national origin, religion or disability, in admission or access to and treatment in Department programs and activities, as well as the Department's hiring or employment practices. Complaints of alleged discrimination and inquiries regarding the Department's nondiscrimination policies may be directed to James B. Moore, Jr., Section Head - EEO/DBE (ADA/504/Title VI Coordinator), P. O. Box 2261, Little Rock, AR 72203, (501) 569-2298, (Voice/TTY 711), or the following email address: james.moore@arkansashighways.com.

This notice is available from the ADA/504/Title VI Coordinator in large print, on audiotape and in Braille.

### ARKANSAS STATE HIGHWAY & TRANSPORTATION DEPARTMENT LITTLE ROCK, ARKANSAS EQUIPMENT & PROCUREMENT DIVISION

Bid No. M-12-016P BIDDER:	
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Page 1

	BASE BI	<b>D</b>			
ITEM NO.	DESCRIPTION	QTY.	UNIT	PRICE	AMOUNT
1. (202)	Removal and Disposal of Pipe Culvert	1	Ea.	\$	\$
2. (210)	Unclassified Excavation	30	C.Y.	\$	\$
3. (210)	Compacted Embankment	105	C.Y.	\$	\$
4. (215)	Trenching and Shoulder Preparation	18	Station	\$	\$
5. (SS&303)	Aggregate Base Course (Class 7)	532	Tons	\$	\$
6. (SP)	Aggregate Surface Course (Class D-8)	90	Tons	\$	\$
7. (401)	Tack Coat	490	Gallons	\$	\$
8. (SP,SS&407)	Mineral Aggregate in ACHM Surface Course (1/2")	1532	Tons	\$	\$
9. (SP,SS&407) Asphalt Binder (PG 70-22) in ACHM Surface Course (1/2")		91	Tons	\$	\$
10. (412)	Cold Milling Asphalt Pavement	940	S.Y.	\$	\$
11. (601)	Mobilization	1	L.S.	\$	\$
12. (SS&603)	Maintenance of Traffic	1	L.S.	\$	\$
13. (SS&604)	Signs	208	S.F.	\$	\$
14. (SS&606)	24" Reinforced Concrete Pipe Culverts (Class III)	56	L.F.	\$	\$
15. (SS&719)	Thermoplastic Pavement Marking White (4")	3796	L.F.	\$	\$
16. (SS&719)	Thermoplastic Pavement Marking Yellow (4")	3696	L.F.	\$	\$
		BID '	TOTAL	\$	

### ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT

### SUPPLEMENTAL SPECIFICATIONS AND SPECIAL PROVISIONS LISTING

### STATE JOB NUMBER 080425

THE FOLLOWING SUPPLEMENTAL SPECIFICATIONS AND SPECIAL PROVISIONS FOR THIS PROJECT SUPPLEMENT THE STANDARD SPECIFICATIONS, EDITION OF 2003. IN CASE OF CONFLICT, THE SUPPLEMENTAL SPECIFICATIONS AND SPECIAL PROVISIONS SHALL GOVERN.

ERRATA	ERRATA FOR THE BOOK OF STANDARD SPECIFICATIONS
JOB SP	INTERNET BIDDING
JOB SP	AGGREGATE SURFACE COURSE
JOB SP	SUBMISSION OF ASPHALT CONCRETE HOT MIX ACCEPTANCE TEST RESULTS
JOB SP	BROADBAND INTERNET SERVICE FOR ASPHALT CONCRETE PLANT
JOB SP	WARM MIX ASPHALT
SP 108-1	LIQUIDATED DAMAGES
SS 100-1	REQUIRED CONTRACT PROVISIONS FOR STATE CONSTRUCTION JOBS
SS 100-2	MANUAL FOR ASSESSING SAFETY HARDWARE (MASH)
SS 105-1	CONSTRUCTION CONTROL MARKINGS
SS 105-2	EQUIPMENT AND MATERIAL STORAGE ON BRIDGE STRUCTURES
SS 107-1	WORKER VISIBILITY
SS 303-1	AGGREGATE BASE COURSE
SS 404-1	PRODUCTION VERIFICATION OF ASPHALT CONCRETE HOT MIX
SS 409-1	MINERAL AGGREGATES
SS 410-3	DENSITY TESTING FOR ACHM LEVELING COURSES AND BOND BREAKERS
SS 603-1	MAINTENANCE OF TRAFFIC
SS 604-1	RETROREFLECTIVE SHEETING FOR TRAFFIC CONTROL DEVICES IN CONSTRUCTION ZONES
SS 606-2	PIPE CULVERTS
SS 719-2	THERMOPLASTIC PAVEMENT MARKING MATERIAL

### ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT SPECIAL PROVISION

### JOB 080425

### AGGREGATE SURFACE COURSE

**DESCRIPTION:** This item shall consist of furnishing and placing Aggregate Surface Course (Class D-8) to be placed as shoulder gravel as shown on the plans or as directed by the Engineer.

**MATERIALS:** This material shall consist of a natural or manufactured mixture of gravel and soil mortar uniformly well graded from coarse to fine and so proportioned as to meet all the requirements hereinafter specified. The aggregate shall consist of crushed or uncrushed hard gravel or crushed stone or a combination of crushed and uncrushed material. The material furnished shall not contain more than 15% by weight of shale, slate, and other objectionable, deleterious or other injurious matters.

### GRADING REQUIREMENTS Class D-8

Sieve	Percent Passing
2"	100
3/4"	70 to 100
#4	35 to 65
#40	15 to 40
#200	3 to 30
Maximum Plasticity Index	20

The removal of oversize aggregate by hand methods, such as raking or forking, will not be permitted. The Contractor, at his option, may substitute Aggregate Base Course (Class 5 or 7) meeting the requirements of Section 303 of the specifications, provided that payment will be for the material specified. Quality control and acceptance sampling shall be performed in accordance with Section 306 of the 2003 Standard Specifications, except that no density testing will be required.

**CONSTRUCTION REQUIREMENTS:** Construction shall conform to subsection 303.03 of the 2003 Standard Specifications except as noted in the plans.

<u>METHOD OF MEASUREMENT:</u> Work performed and material accepted under this item will be measured by the ton in vehicles, in accordance with Section 109.

### ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT SPECIAL PROVISION

### JOB 080425

### AGGREGATE SURFACE COURSE

BASIS OF PAYMENT: Work performed under this item and measured as provided above, will be paid for at the contract unit price bid per ton which price shall be full compensation for preparing the subgrade; furnishing material; for loading, hauling and the delivery to the work site; for spreading, finishing, watering, manipulating, and compacting; for performing quality control and acceptance sampling and testing; and for all labor, tools, equipment, and incidentals necessary to complete the work.

Payment will be made under:

Pay Item

Pay Unit

Aggregate Surface Course (Class D-8)

Ton

### ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

### SPECIAL PROVISION

### JOB NO. 080425

### WARM MIX ASPHALT

**DESCRIPTION:** The Department will allow the use of Warm Mix Asphalt (WMA). All provisions for the production and placement of conventional HMA mixtures as stipulated in Section 410 Construction Requirements and Acceptance of Asphalt Concrete Plant Mix Courses of the Standard Specifications for Highway Construction, Edition 2003, are applicable except as noted below.

Section 410 Construction Requirements and Acceptance of Asphalt Concrete Plant Mix Courses of the Standard Specifications for Highway Construction, Edition of 2003, is hereby amended as follows:

Section 410.03: Replace the third sentence with "WMA production temperatures at the plant shall be according to the Contractor's approved mix design, but may be adjusted based on recommendations of the WMA additive/process manufacturer."

Add the following paragraph: "Implementation of best management practices in the control of aggregate moisture content prior to introduction to the drying or mixing drum is highly recommended in order to achieve the maximum benefit of WMA technology."

Section 410.07: Replace the last sentence of the first paragraph with "Spreading and finishing temperatures shall be according to the Contractor's approved mix design, but in no case shall the WMA be placed at a temperature less than 220° F."

### ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT

### SPECIAL PROVISION

### LIQUIDATED DAMAGES

As specified in the Contract, liquidated damages for this project will be as shown in the following table:

### **WORKING DAY PROJECTS**

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### **FIXED DATE PROJECTS**

ORIGINAL CO	NTRACT AMOUNT	
FROM MORE THAN	TO AND INCLUDING	RATE
\$ 0	\$ 50,000	\$ 90
50,000	100,000	100
100,000	500,000	200
500,000	1,000,000	250
1,000,000	2,000,000	320
2,000,000	5,000,000	400
5,000,000	10,000,000	600
10,000,000		750

### REQUIRED CONTRACT PROVISIONS FOR STATE CONSTRUCTION JOBS

During the performance of this contract, the Contractor agrees as follows:

### **EQUAL OPPORTUNITY**

Employment Practices. (a) The Contractor will not discriminate against any employee or applicant for employment because of race, color, religion, sex, age, disability, or national origin. The Contractor will take affirmative action to ensure that applicants are employed, and that employees are treated during employment without regard to their race, color, religion, sex, age, disability, or national origin. Such action shall include, but not be limited to the following: Employment, upgrading, demotion, or transfer; recruitment advertising; layoffs or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship.

- (b) The Contractor will, in all solicitations or advertisements for employees placed by or on behalf of the Contractor, state that all qualified applicants will receive consideration for employment without regard to race, color, religion, sex, age, disability, or national origin.
- (c) In the event of the Contractor's noncompliance with the nondiscrimination clauses of this contract, this contract may be canceled, terminated, or suspended in whole or in part.

### Selection of Subcontractors, Procurement of Materials, and Leasing of Equipment.

- (a) The Contractor, with regard to the work performed by it during the contract, shall not discriminate on the grounds of race, color, religion, sex, age, disability, or national origin in the selection and retention of subcontractors, including procurement of materials and leases for equipment.
- (b) In all solicitations, either by competitive bidding or negotiation made by the Contractor for work to be performed under a subcontract, including procurement of materials or leases for equipment, each potential subcontractor or supplier shall be notified by the Contractor of the Contractor's obligations under this contract relative to nondiscrimination on the grounds of race, color, religion, sex, age, disability, or national origin.
- (c) The Contractor shall provide all information and reports required by the Department and shall permit access to its books, records, accounts, other sources of information, and its facilities as may be determined by the Department to be pertinent to ascertain compliance with such directives. Where any information required of a Contractor is in the exclusive possession of another who fails or refuses to furnish this information, the Contractor shall so certify to the Department and shall set forth what efforts have been made by the Contractor to obtain the information.
- (d) In the event of the Contractor's noncompliance with the nondiscrimination provisions of this contract, the Department shall impose such contract sanctions as it may be determine to be appropriate, including, but not limited to:

### ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT SUPPLEMENTAL SPECIFICATION REQUIRED CONTRACT PROVISIONS FOR STATE CONSTRUCTION JOBS

- (1) withholding of payments to the Contractor under the contract until the Contractor complies, and/or
- (2) cancellation, termination, or suspension of the contract, in whole or in part.
- (e) The Contractor shall include the provisions of this Supplemental Specification in every subcontract, including procurements of materials and leases of equipment. The Contractor shall take such action with respect to any subcontractor or procurement as the Department may direct as a means of enforcing such provisions, including sanctions for non-compliance.

### NONSEGREGATED FACILITIES

By submission of this bid or the execution of this contract or subcontract, the bidder or subcontractor, as appropriate, certified that segregated facilities are not maintained or provided for employees at any of its establishments, and that employees are not permitted to perform services at any location, under bidder/subcontractor control, where segregated facilities are maintained. The bidder/subcontractor further certified that segregated facilities will not be maintained or provided for employees at any of its establishments, and that employees will not be permitted to perform services at any location where segregated facilities are maintained. As used in this certification, the term "segregated facilities" means any waiting rooms, work areas, restrooms and washrooms, restaurants and other eating areas, time clocks, locker rooms and other storage or dressing areas, parking lots, drinking fountains, recreation or entertainment areas, transportation, and housing facilities provided for employees which are segregated by explicit directive or are in fact segregated on the basis of race, color, religion, age, disability, or national origin, because of habit, local custom, or otherwise. The bidder/subcontractor agrees that, except where identical certifications have been obtained from proposed subcontractors and material suppliers for specific time periods; identical certification will be obtained from subcontractors prior to the award of subcontracts.

### WAIVER OF CERTIFICATE OF PAYMENTS

The requirements for certification of payments to DBEs/Non-DBEs, as specified in Subsection 103.08(h), are hereby waived and are not required for this contract.

### MANUAL FOR ASSESSING SAFETY HARDWARE (MASH)

Sections 604, 617, 731, 732 and 734 of the Standard Specifications for Highway Construction, Edition of 2003, are hereby amended as follows:

The first paragraph of Subsection 604.02(a) is deleted and the following is substituted therefore:

All work zone traffic control devices used on the project, including sign supports, barricades, traffic drums equipped with flashing lights, crash cushions, and impact attenuators shall comply with the requirements of National Cooperative Highway Research Program (NCHRP) Report 350 or the Manual for Assessing Safety Hardware (MASH). The Contractor shall furnish a certification of such compliance from the manufacturer or supplier of all work zone traffic control devices prior to using the devices The certification shall state the device meets the on the project. requirements of NCHRP 350 or MASH and include a copy of the Federal Highway Administration's (FHWA) approval letter with all attachments for each device. Devices shall be fabricated and installed in accordance with the plans and with the crash testing documentation provided in the FHWA approval letter. which is available http://safety.fhwa.dot.gov/roadway\_dept/policy\_guide/road\_hardware/. The 2lb. (0.9 kg) minimum channel post or 4" x 4" (100 mm x 100 mm) wood post sign support systems, installed in accordance with the plans (direct buried), have been previously tested and accepted, and, therefore, do not require certification. No direct payment will be made for fulfilling the requirements of this Specification, but full compensation will be considered included in the contract unit prices bid for the various traffic control devices.

The third sentence of paragraph three of **Subsection 617.01** is deleted and the following sentence substituted therefore:

The guardrail terminal shall satisfy the National Cooperative Highway Research Program (NCHRP) Report 350 or the Manual for Assessing Safety Hardware (MASH) for a test level 3 (TL-3) terminal.

The first sentence of paragraph one of **Subsection 617.02(f)** is deleted and the following sentence substituted therefore:

The Contractor shall furnish a certification from the manufacturer or supplier that the guardrail terminal meets the requirements of NCHRP Report 350 or MASH for a TL-3 terminal.

The second sentence of **Subsection 731.01** is deleted and the following sentence substituted therefore:

The attenuation barrier shall satisfy the National Cooperative Highway Research Program (NCHRP) Report 350 or the Manual for Assessing Safety Hardware (MASH) requirements for a Test Level 3 (TL-3) crash cushion.

### MANUAL FOR ASSESSING SAFETY HARDWARE (MASH)

The first sentence of paragraph one of **Subsection 731.02** is deleted and the following sentence substituted therefore:

The Contractor shall furnish a certification from the manufacturer or supplier that the impact attenuation barrier meets the requirements of NCHRP Report 350 or MASH for a TL-3 crash cushion.

The second sentence of **Subsection 732.01** is deleted and the following sentence substituted therefore:

The crash cushion shall satisfy the National Cooperative Highway Research Program (NCHRP) Report 350 or the Manual for Assessing Safety Hardware (MASH) requirements for a Test Level 3 (TL-3) crash cushion.

The first sentence of **Subsection 732.02(b)** is deleted and the following sentence substituted therefore:

The Contractor shall furnish a certification from the manufacturer or supplier that the crash cushion meets the requirements of NCHRP Report 350 or MASH for a TL-3 crash cushion.

The second sentence of **Subsection 734.01** is deleted and the following sentence substituted therefore:

The bridge end terminal shall satisfy the National Cooperative Highway Research Program (NCHRP) Report 350 or the Manual for Assessing Safety Hardware (MASH) requirements for a Test Level 3 (TL-3) terminal.

The first sentence of **Subsection 734.02(b)** is deleted and the following sentence substituted therefore:

The Contractor shall furnish a certification from the manufacturer or supplier that the bridge end terminal meets the requirements of NCHRP Report 350 or MASH for a TL-3 terminal.

### ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT

### SUPPLEMENTAL SPECIFICATION

### CONSTRUCTION CONTROL MARKINGS

**Section 105** of the Standard Specifications for Highway Construction, Edition of 2003, is hereby amended as follows:

The following is added as the last paragraph of Subsection 105.09:

All construction control markings made for layout work, placement of traffic control devices, spotting for placement of pavement markings, or for any other purposes on structures, curb and gutters, pavements, or any surfaces that will not either be removed or covered by succeeding pavement layers or other construction shall be made with non-permanent materials (chalk, keel, non-permanent paint, etc.). Failure to comply with this requirement will result in removal of the markings by the Contractor at no expense to the Department.

### ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT SUPPLEMENTAL SPECIFICATION EQUIPMENT AND MATERIAL STORAGE ON BRIDGE STRUCTURES

**Section 105** of the Standard Specifications for Highway Construction, Edition of 2003, is hereby amended as follows:

The following is added as the fifth paragraph of **Subsection 105.14**:

No vehicles weighing in excess of the legal load (or the load posted for an existing bridge), no off road hauling equipment, cranes, or other non-legal highway vehicles or equipment will be allowed to cross or be placed on an existing or newly constructed bridge deck without the submittal of an engineering analysis for review and approval by the Engineer. No materials will be permitted to be stored or stockpiled on an existing bridge deck or on a bridge deck constructed on the project without the submittal of an engineering analysis for review and approval by the Engineer. Each submitted engineering analysis shall be prepared by a Registered Professional Engineer who shall certify the adequacy of all components for the anticipated loads. Inspection records and, when available, design drawings may be obtained from the Engineer for use in the professional engineer's analysis of existing structures.

### ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT SUPPLEMENTAL SPECIFICATION WORKER VISIBILITY

Section 107 of the Standard Specifications for Highway Construction, Edition of 2003, is hereby amended as follows:

The following is added as the third paragraph of **Subsection 107.01(b)**:

All workers within the right-of-way who are exposed either to traffic (vehicles using the roadway for travel purposes) or to construction equipment within the work area shall wear high-visibility safety apparel meeting the Performance Class 2 or 3 requirements of the ANSI/ISEA 107-2004 publication entitled "American National Standard for High – Visibility Safety Apparel and Headwear."

### ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT SUPPLEMENTAL SPECIFICATION AGGREGATE BASE COURSE

Section 303 of the Standard Specifications for Highway Construction, Edition of 2003, is hereby amended as follows:

The sixth paragraph of Subsection 303.02 is hereby deleted and the following is substituted therefore:

For Classes 1 through 8 material, the fraction passing the #200 (0.075 mm) sieve shall not be greater than three-fourths of the fraction passing the #40 (0.425 mm) sieve. For Classes 3 through 8 the fraction passing the #40 (0.425 mm) sieve shall have a liquid limit not greater than 25.

**Table 303-1, Aggregate Base Course Grading,** is hereby amended by deleting the percent passing the No. 200 (0.075 mm) sieve gradation for Classes 6, 7, and 8 and the following substituted therefore:

The percent passing the No. 200 (0.075 mm) sieve grading for Classes 6, 7, and 8 will be 3-12.

### PRODUCTION VERIFICATION OF ASPHALT CONCRETE HOT MIX

Section 404 of the Standard Specifications for Highway Construction, Edition of 2003, is hereby amended as follows:

The third and fourth paragraphs of Subsection 404.04, Quality Control of Asphalt Mixtures, are hereby deleted and the following substituted therefore:

The accepted mix design shall be field verified by the Contractor at the start of mix production or after an interruption of more than 90 calendar days. The asphalt mixture shall be verified by testing mix that has been produced through the plant using the aggregate proportions shown on the accepted mix design.

The mix will be considered to be verified if test values for air voids, VMA, and asphalt binder content are within the compliance limits shown in Table 410-1, and when the accepted mix design has been produced within the gradation tolerances according to Subsection 404.04.

### MINERAL AGGREGATES

**Table 409-1** of the Standard Specifications for Highway Construction, Edition of 2003, is hereby amended as follows:

Table 409-1

Coarse Aggregate Properties

Coarse Aggregate

Type Crushed Gravel; Crushed Stone;

Crushed Steel Slag

Size Plus No. 8 (2.36 mm)

Fractured Faces

One Face 98 % min.
Two Faces 80 % min.
LA Abrasion (AASHTO T 96) 40 % max.

Sodium Sulfate Soundness

(AASHTO T 104, 5 cycle) 12% max. Flat, Elongated Particle 10 % max.

### Wearing Surface Aggregate

Cother Note 1 60 % max. 40 % min.

Gravel 60 % max. Other Note 2 40 % min.

NOTE 1: Crushed sandstone, crushed siliceous gravel, syenite, novaculite, crushed steel slag or mineral aggregate which has an insoluble residue not less than 85% when tested in a 1:1 solution of hydrochloric acid and water according to AHTD Test Method 306 shall be used as the remaining coarse mineral aggregate.

NOTE 2: Crushed steel slag, crushed sandstone, syenite, novaculite, or other crushed quarry stone which has an insoluble residue not less than 85% when tested in a 1:1 solution of hydrochloric acid and water according to AHTD Test Method 306 shall be used as the remaining coarse mineral aggregate.

### DENSITY TESTING FOR ACHM LEVELING COURSES AND BOND BREAKERS

Section 410 of the Standard Specifications for Highway Construction, Edition of 2003, is hereby amended as follows:

The following is inserted after the fourth paragraph of Subsection 410.09(a):

The following procedures shall apply for field density testing when ACHM mixes are used as a leveling course or as a bond breaker between a base material and Portland Cement Concrete Pavement:

- If the entire sublot quantity is placed for leveling or as a bond breaker and the thickness of all of the leveling/bond breaker in that sublot is less that three times the nominal maximum aggregate size, no field density sample or test will be required. The sublot will be excluded from the calculation of the average field density for the acceptance of the lot in Subsection 410.09(a).
- If the entire sublot quantity is placed for leveling or as a bond breaker and portions of the leveling/bond breaker have a thickness greater than three times the nominal maximum aggregate size, a field density sample shall be obtained by the Contractor at a location determined by the Department using AHTD Test Method 465; however the sampling area will be restricted to the area in which the thickness of the leveling course/bond breaker is greater than three times the nominal maximum aggregate size.
- If only a portion of the sublot quantity is placed for leveling or as a bond breaker, the Contractor shall obtain a field density sample at a location determined by the Department using AHTD Test Method 465; however the sampling area will be restricted to the portion of the sublot where the material used as leveling or as a bond breaker has a thickness greater than three times the nominal aggregate size and to the area where the material was not used for leveling or as a bond breaker.

When field density testing for a sublot is waived by one of the above conditions, the ACHM mix used as a leveling course or as a bond breaker shall be compacted utilizing the optimum rolling pattern to achieve the maximum density required, as required by Subsection 410.08.

The first sentence of the second paragraph of Subsection 410.10 is hereby deleted and the following is substituted therefore:

When the entire quantity of either the ACHM Binder Course or ACHM Surface Course (including any sublots used for leveling) meets the following criteria, an incentive of the percentage designated will be applied to the dollar amount for all the components of the designated mix.

### ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT SUPPLEMENTAL SPECIFICATION MAINTENANCE OF TRAFFIC

**Division 600** of the Standard Specifications for Highway Construction, Edition of 2003, is hereby amended as follows:

SECTION 603, MAINTENANCE OF TRAFFIC AND TEMPORARY STRUCTURES, IS AMENDED AS FOLLOWS:

The following is added as the third paragraph of Subsection 603.02(a), Maintenance of Traffic:

Traffic control plans for detours, lane closures, lane width reductions, shoulder closures, and other alterations to the original traffic pattern shall not be placed in operation more than 72 hours before the work begins which requires the traffic control changes. After a traffic control plan is placed in operation, if progress on the work that required such plan is interrupted by more than 72 continuous hours, the original traffic operations must be restored as conditions allow, unless otherwise directed by the Engineer. Removal and restoration of traffic control devices to restore original traffic operations, and the subsequent reinstallation of the traffic control modifications will be at no additional cost to the Department.

Paragraph 3 of Subsection 603.02(d), Projects on Existing Roadways, is hereby deleted and the following substituted therefore:

The Contractor shall provide the Engineer with a minimum of three full business days advance, written notification of any non-emergency lane closure or lane width restriction. The first full business day shall commence at midnight on the first business day following written notification to the Engineer. This advanced notification is required to allow adequate notice for the issuance of over width load permits by the Department.

### RETROREFLECTIVE SHEETING FOR TRAFFIC CONTROL DEVICES IN CONSTRUCTION ZONES

Section 604 of the Standard Specifications for Highway Construction, Edition of 2003, is hereby amended as follows:

The first two paragraphs of Subsection 604.02(b) are hereby deleted and the following substituted therefore:

(b) Signs, Vertical Panels, Barricades, Drums and Traffic Cones. Materials for signs required under this subsection shall comply with materials requirement of the plans, specifications and the MUTCD for the construction of signs using ASTM D 4956 Type VII, VIII, or IX sheeting for non-orange signs and Fluorescent Orange retroreflective sheeting furnished according to the QPL for orange signs. Materials for vertical panels and barricades shall comply with ASTM D 4956 Type VII, VIII, or IX sheeting.

Retroreflective sheeting used on traffic drums shall meet the requirements of ASTM D4956 for Type III or Type IV with the additional requirements for Reboundable Sheeting. Retroreflective sheeting for delineators shall meet the requirements of ASTM D 4956 for Type IX sheeting.

Table 604-1 Fluorescent Orange Sheeting and Table 604-2 Fluorescent Orange Color Specification Limits (Daytime) in Subsection 604.02(b) are hereby deleted and the following substituted therefore:

TABLE 604-1
Fluorescent Orange Sheeting

Minimum Coefficient Of Retroreflection Candelas Per Foot Candle Per Square Foo				
Observation Angle	Entrance Angle	Fluorescent Orange		
0.2	-4.0	200		
0.2	30.0	92		
0.5	-4.0	80		
0.5	30.0	30		

TABLE 604-2
Fluorescent Orange Color Specification Limits (Daytime)

Corner Point:	1	1		2 3		3		4	
	х	У	Х	у	Х	у	х	у	
	0.583	0.418	0.516	0.397	0.560	0.341	0.655	0.345	

**Section 606** of the Standard Specification for Highway Construction, Edition of 2003, is hereby amended as follows:

The fifth paragraph of Subsection 606.02 Materials (b) Reinforced Concrete Pipe is hereby deleted and the following substituted therefor:

(4) Joints shall be sealed with either preformed rubber gaskets or bitumen/ butyl rubber plastic gaskets complying with AASHTO M 198 or with tubular cross-section closed cellular rubber gaskets complying with the physical requirements of ASTM D 1056 (Type 2, Class C, Grade 1) and meeting the chemical requirements of AASHTO M 198.

The sixth paragraph of **Subsection 606.03 Construction (d) Joining Pipe** is hereby deleted and the following substituted therefore:

(3) When tubular cross-section closed cellular rubber gaskets are selected by the Contractor, the gaskets shall be a single, continuous part conforming to the joint shape. The outer surface of the gasket shall be completely covered with a natural skin. The cross-sectional diameters and installation practices shall be in accordance with the manufactures' recommendations for the size of pipe or culvert being placed.

To ensure an even and well-filled joint, the final joining of the pipe shall be accomplished by either pushing or pulling, by approved mechanical means, each joint of the pipe as it is laid. In cold weather, when directed, the joint material shall be warmed in a hot water bath, or by other approved methods, to the extent required to keep the material pliable for placement without breaking or cracking.

### ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT SUPPLEMENTAL SPECIFICATION THERMOPLASTIC PAVEMENT MARKING MATERIAL

Section 719 of the Standard Specifications for Highway Construction, Edition of 2003, is hereby amended as follows:

The second paragraph of Subsection 719.02 is hereby deleted and the following substituted therefore:

The material shall meet the requirements of AASHTO M 249 with the following exceptions for color on yellow materials.

Color Specifications

			Co	lor Speci	ification :	Limits -I	Daytime		
					Initia	1			
		Chr	omaticity	Coording Coording	nates			Luminance F	Factor, Y (%)
	1		2		3		4	min	max
X	у	X	у	х	у	X	у		
0.499	0.466	0.545	0.455	0.518	0.432	0.485	0.454	40.0	60.0

Initial daytime color determination will be made in accordance with the requirements of AASHTO T 250. Values shall be evaluated on material without the drop-on beads.

		Color	Specification	on Limits -D	aytime					
	Retained									
		8	Chromaticity	y Coordinate	·S .					
	1	2	2		3	4	4			
X	У	х	у	x	у	Х	у			
0.560	0.440	0.490	0.510	0.420	0.440	0.460	0.400			

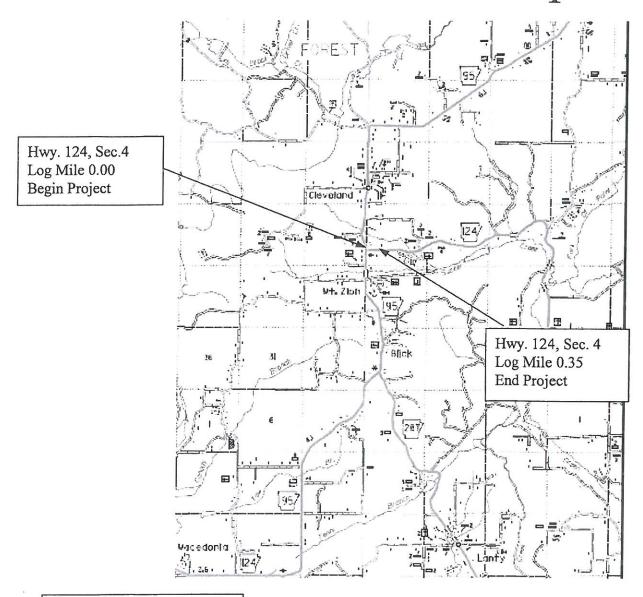
Retained daytime color limits shall conform to the specifications for a minimum of ninety days for construction pavement markings and one year for all other markings. Retained readings will be determined on a beaded surface in accordance with the requirements of ASTM E 2366.

		Color	Specification	n Limits -Ni	ghttime			
		]	Initial with d	lrop-on bead	S			
		10	Chromaticity	y Coordinate	S			
	1 2		2		3	4		
X	У	Х	У	х	у	х	у	
0.575	0.425	0.508	0.415	0.473	0.453	0.510	0.490	

Initial nighttime color limits will be determined in accordance with the requirements of ASTM E 2367 on a beaded surface.

The pigments used for the pavement marking material compound shall not contain any compounds that will exceed the values listed in the Environmental Protection Agency Code of Federal Regulations (CFR) 40, Section 261.24, Table 1.

### Job Location Map



MIDPOINT OF PROJECT LATITUDE 35°24'22" LONGITUDE 92°42'25"



Job No. 080425 Hwy 95 - East (S) Hwy. 124, Section 4 Conway County

### General Notes

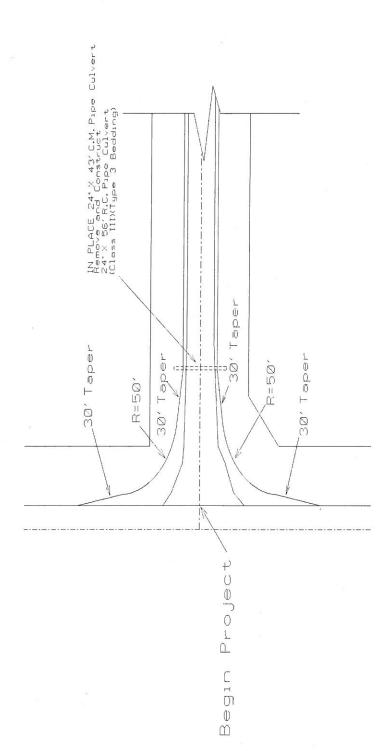
- 1. Preparatory Work such as clipping the grass and debris from the edge of the existing roadway will not be paid for directly but will be considered a part of the other items of work. After the roadway is completed, this material shall be pulled up to the edge of the new pavement. No direct payment will be made for this work.
- 2. Asphalt debris resulting from the preparatory work shall be removed from the project. This material shall not be buried within the Right Of Way.
- 3. Leveling shall be placed and compacted in a separate operation unless directed otherwise by the Engineer.
- 4. Asphalt Pavement on bridges within the project limits that shall be cold milled prior to repaving.
- 5. Asphalt overlay of driveways shall be extended if necessary to eliminate undesirable profiles.
- 6. Asphalt overlay shall be placed up to the face of all guardrail posts.
- 7. Removal of any existing Raised Pavement Markings will not be paid for directly, but shall be considered subsidiary to other items of work. All such markers shall be removed prior to placing the overlay.
- 8. Preparatory Work to the existing driveways including excavating driveways that are too high to allow them to be overlaid and tied into the roadway overlay will not be paid for directly but will be considered a part of the other items of work. After the overlay is completed, the material produced from the excavation shall be pulled up to the edge of the new pavement or disposed of as directed by the Engineer. No direct payment will be made for this work.
- 9. Aggregate Base Course outside the shoulders shall be uniformly compacted, stable, and free of segregated areas. The density requirements of Section 303 are hereby waived at these locations.
- 10. The edge lines shall not be placed until after all clippings and Aggregate Base Course (Class D-8) have been placed in their final position.
- 11. Length requirements for asphalt tapers will be as follows:
  - a) For temporary asphalt tapers 10 feet per inch of overlay
  - b) For permanent asphalt tapers where the speed limit is 55 mph or greater 100 feet per inch of overlay
  - c) For permanent asphalt tapers where the speed limit is less than 55 mph - 50 feet per inch of overlay.
     The lengths listed above are minimums. The lengths will be increased where directed by the Engineer to acquire the desired

ride quality.

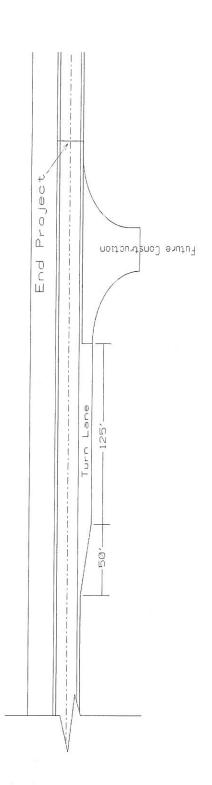
Job No. 080425 Hwy. 95-East (S) Hwy. 124, Section 4 Conway County

- 12. The Contractor shall schedule his work so that no lane closures exist for the time period of the work day before a Holiday through the work day after a Holiday and any included weekends for the following holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving, and Christmas.
- 13. Material produced from Cold Milling Asphalt Pavement shall remain the property of the Contractor.
- 14. After an area of the project has been cold milled, it shall be covered with ACHM Surface Course (1/2") within 5 working days. If an area of the project that has been cold milled is not covered with 220 lbs./SY of ACHM Surface Course (1/2") on or before the 5th working day, no additional cold milling shall take place until it is overlaid.
- 15. Any Construction Pavement Markings that are placed on an area that has been cold milled shall be painted markings complying with Section 718.
- 16. The Contractor shall remove and reset existing mailbox posts determined by the engineer to be reusable, as necessary, to restore the boxes to the proper height at completion of the overlay. This work will not be measured and paid for directly but will be considered as included in the various other pay items of the Contract. If the Contractor damages the existing post, the post shall be replaced with an acceptable post at no cost to the Department.

## Radius Improvement Detail

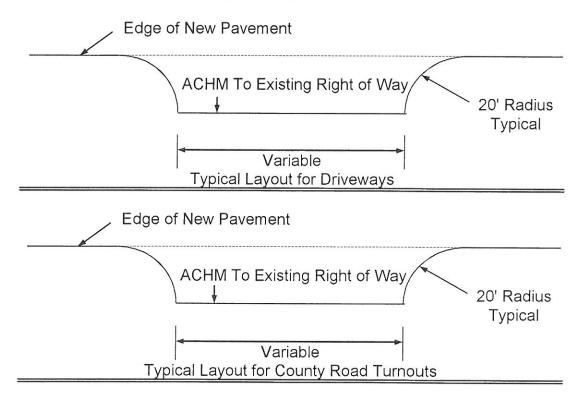


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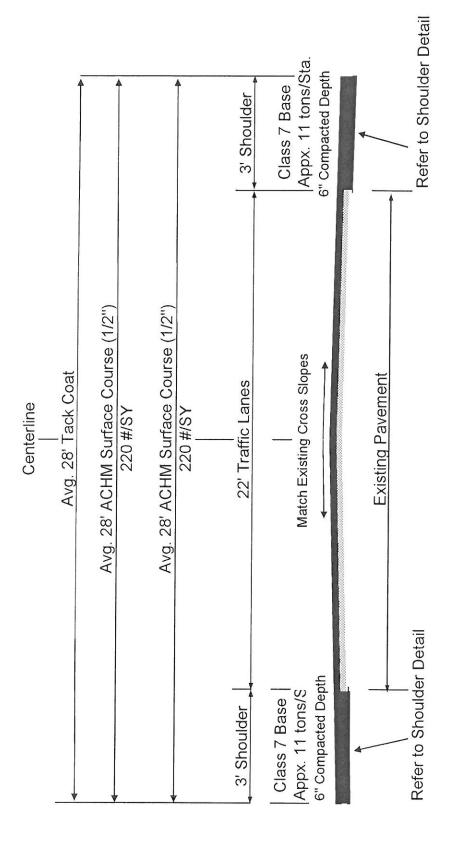
Job No. 080425 Hwy. 95-East (S) Hwy. 124, Sec. 4 Conway County

### Typical Layouts for Driveways, County Roads, and State Highway Intersections



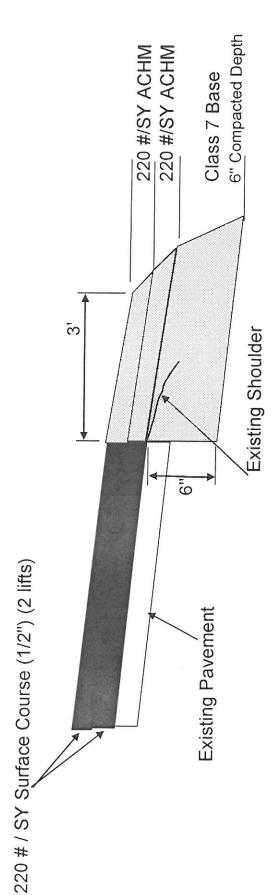
### **Typical Section**

Log Mile 0.00 to Log Mile 0.35



Job No. 080425 Hwy. 95-East (S) Hwy. 124, Sec. 4 Conway County

### Shoulder Detail



## Typical Section of Shoulder Improvement

excavating excess material, reconstructing the roadway slope with excavated material and disposing exc material as directed by the Engineer. This will be paid for with the item "Trenching and Shoulder Prepara The Contractor shall grade shoulders, including trimming asphalt beyond the paving edge, removing veg

Job No. 080425 Hwy. 95-East (S) Hwy. 124, Sec. 4 Conway County

### Surfacing Quantities

ACHM Surface Course (1/2") Base Course (Class 7)	Sq. Rate Total Tons Tons	220 614	770	5584 220 614	533 440 117	410	470 220 52	470 220 52	65		770	153 220 17	57	40	100	
АСН	Avg.	+	-	28	24						+	11				
	Total Gal.	Gal.	001	168	16		14	14		ı	n	5	3		100	
Tack Coat	Sq. Yards	rards 5584	5000	5584	533		470	470			153	153				
	Avg. Width	vvidtn 28	07	28	24					;		11				
Length	Linear Feet	1795	0671	1795	200	1795				1	271	125				
Description		Main Lanes/Shoulders First Lift		Main Lanes/ Shoulders 2nd Lift	Hwy 124 - 100' tapers	Shoulder Construction	Hwy. 95 Intersection 1st lift	Hwy. 95 Intersection 2 nd lift	Hwy. 95 Intersection	-	I urn Lane 1st lift	Turn Lane 1st lift	Turn Lane	Drives	Leveling	
tion	Log			0.35	0.39	0.35									As Directed	
Location	Log	Mile 0.01	5	0.01	0.35	0.01									As Dir	

Basis of Estimates:

Tack Coat

Mineral Aggregate in ACHM Surface Course (1/2") Asphalt Binder (70-22) in ACHM Surface Course (1/2") Nmax Gyration shall be 160

0.03 Gal/SY 94.40% 5.60%

Shoulder Prep

Compacted Embankment Cu. Yd.

Unclassified Excavation Cu. Yd. 20

Description

Log Mile

Log Mile

Location

Earthwork

1							
	Trenching and	Shoulder Preparation	Station	18			2,000
	Description			Shoulders			Total
	Location	Log	Mile	0.35			
	Loca	Log	Mile	0.01			

Note: All Earthwork Quantities Shown Above to be Paid as Plan Quantity.

105

30

Total

25

10

Hwy. 95 / Hwy. 124 Intersection

0.01

0.00

Turn Lane

End of Proj.

80

Job No. 080425 Hwy. 95-East (S)

Hwy 124, Sec. 4

Conway County

NOTE: Hwy. 124 will not be milled. Each ACHM lift will have a 100' taper.

Square Yards

235

235

Hwy. 95 North 2nd pass Hwy. 95 North 2nd pass

Hwy. 95 North 1st pass Hwy. 95 North 1st pass

Description

Log Mile

Log Mile

Location

235

940

Totals

Cold Milling

Cold Milling

# Aggregate Surface Course (ClassD-8)

Aggregate Surface Course	(Class D-8)	Tons	06	90
Aggregate St	(Clas	JT	0)	
	Description		0.35 Shoulders	Totals
Location	Log	Mile	0.35	
Loc	Log	Mile	0.00	

Job No. 080425 Hwy. 95-East (S) Hwy. 124, Sec. 4 Conway County

## Traffic Control Devices

R4-2	1	SF					10	2	40
R		No.					0	1	
-		SF							C
R4-1		No.							
G20-2		SF	16	8					2.7
G		S.	2	_					
0-1		SF	20	19					30
G20-1		S.	2	-					
	AHEAD	SF							С
	AHE	No.							
	500'	SF	32	16					48
<u></u>		No.	2	_					
W20-1	,00	SF	32	16					48
	1000'	No.	2	_					
	1500'	SF	32	16					48
	15(	No.	2	~					
	Location		Begin Job	End Job			Entire Project		Totals

Note: Retroreflective sheeting materials used in the construction of signs shall comply with AASHTO M 268 Type V Sheeting.

208

Total

## Pavement Markings

/mt. Markings					
Thermoplastic P	Yellow (4")	Linear Feet	3696		3696
	White (4")		3696	100	3796
	Description		Main Lanes	Turn Lane	Totals
Location	Fog	Mile	0.35		
Loc	Log	Mile	0.00		

This Roadway is Considered a " Low Volume Highway"

For Pavement Marking Purposes See 604.03 for Final Surface Markings

### Structures

	The Party of the P			
_	56	Totals		
	56	Cross Drain	0.01	0.01
Each	Lin.Ft.			
	24"		Mile	Mile
of Pipe Culverts	Culverts	Description	Log	Log
Removal and Disposal	R.C. Pipe		Location	Loc

Job No. 080425

Hwy. 95-East (S) Hwy. 124, Sec. 4 Conway County

## Summary of Quantities

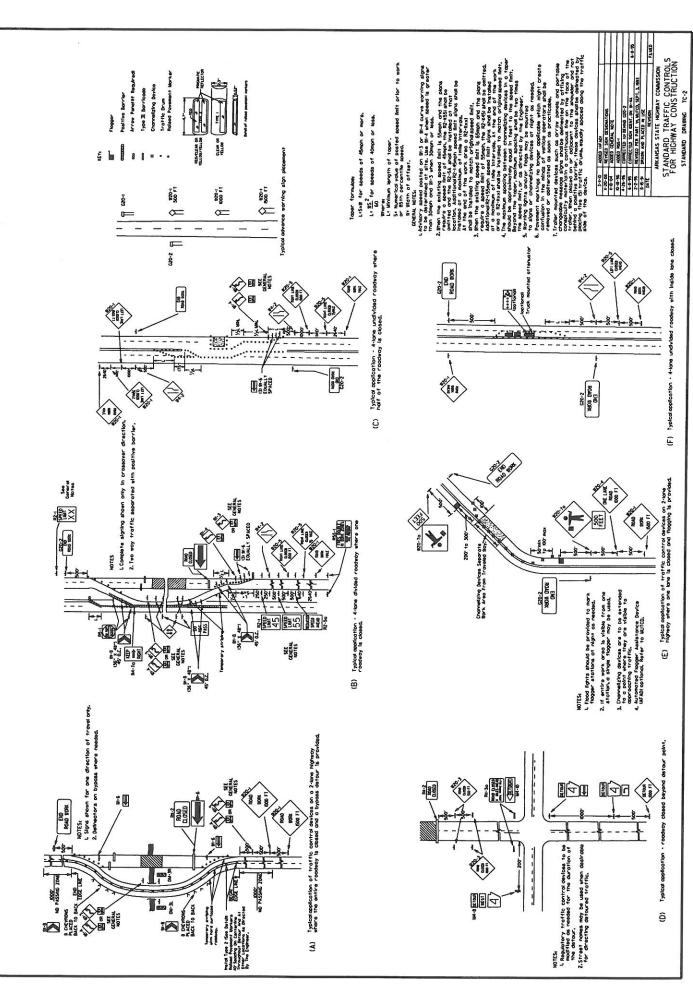
Item No.	Item	Quantity	Unit
202	Removal and Disposal of Pipe Culvert		Each
210	Unclassified Excavation	30	Cubic Yard
210	Compacted Embankment	105	Cubic Yard
215	Trenching and Shoulder Preparation	18	Station
SS&303	Aggregate Base Course (Class 7)	532	Ton
SP	Aggregate Surface Course (Class D-8)	06	Ton
401	Tack Coat	490	Gallon
SPSS & 407	SPSS & 407 Mineral Aggregate In ACHM Surface Course (1/2")	1532	Ton
SPSS & 407	SPSS & 407 Asphalt Binder (PG 70-22) In ACHM Surface Course (1/2")	91	Ton
412	Cold Milling Asphalt Pavement	940	Square Yard
601	Mobilization	1.00	Lump Sum
SS & 603	Maintenance of Traffic	1.00	Lump Sum
SS & 604	Signs	208	Square Feet
SS & 606	24" Reinforced Concrete Pipe Culverts (Class III)	56	Linear Feet
SS & 719	Thermoplastic Pavement Marking White (4")	3796	Linear Feet
SS & 719	Thermoplastic Pavement Marking Yellow (4")	3696	Linear Feet

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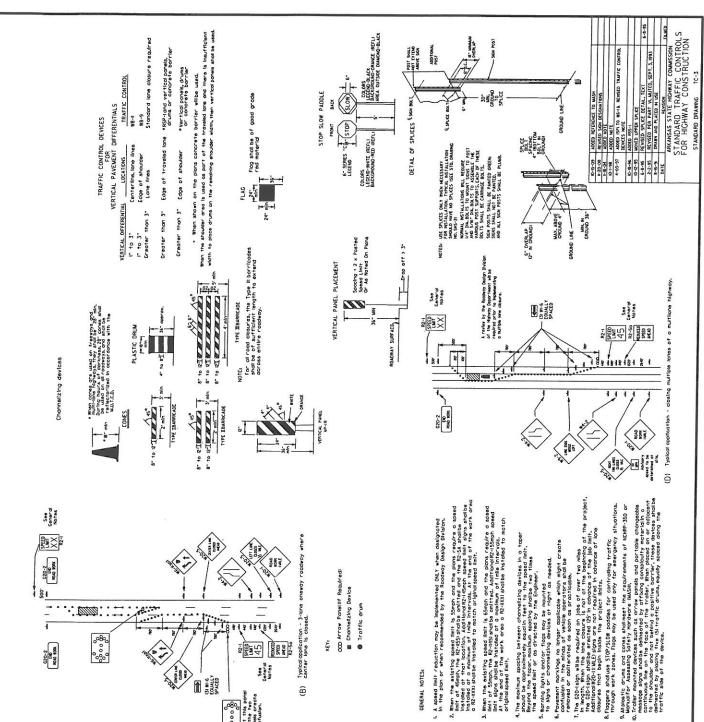
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JOB NO. 080425

ADVANCE DISTANCES  SOO FT 3/4 MIE  1000	PERIOTORIA MONORALE SHALL BE SALU PA SI BEROBER TESTAND CONSTRUCTION PRESENTATION OF THE SHALL BE SALUE OF CONSTRUCTION STATE SHALL BE SHALL BE SHALL BE SHALL BE SHALL BE SHOWN THE SHALL BE SHALL BE SHALL BE TO SHALL BE SHALL SH	5. SON POSTS DRECEI BURED IN SON, SHALL BE Z 18, MINMAN CHANKEL POST OR 4"-X4"  WOOD POSTS, CANNALE POSTS SALL, BE PARTED CREEK, MOOD POSTS, SALL BE PARTED RIFE. ALL POSTS SALL, BE PARTED SHELLS, AND SHALL BE REPLIABED, CLENED, OR REPARED AS WIEDED FOR THE DURATION OF THE -X03. THERE SALL NOT BE MORE THAN 5" POSTS, BALL AND THE POSTS, ANY CHANKEL POSTS, SALL ON SHELLE E. SPOSTS WAS AT POST AND SHOWN ON CHANKEL, POSTS, ANY CHANKEL POST SELLE E. SONSTHOUTED SHALL BE CANSTHOLTED MITH THE MAJOR FOOL OF THE SCHAFFOM, FOR THE SALL BE CONSTRUCTED MITH THE MAJOR FOOL OF THE SCHAFFOM, FOR DEAL MAJOR OF THE MAJOR SHALL BE MONTED AND MAJOR OF THE MAJOR THE MA	LEGGE.  1. ALL POST AND BARROLAGE WOUNTED SIGNS WOUNTED IN URBAN AREAS SYALL BE WOUNTED A WANNING TO STAKE OF PIRRUA HE BOTTON OF THE SIGN TO HER BOADMAY SURFACE.  A WANNING TOSTAKE OF PIRRUA HE BOTTON OF THE SIGN TO HER BOADMAY SURFACE.  A WANNING TOSTAKE OF PIRRUA HE BOTTON OF THE SIGN TO HER BOADMAY SURFACE.  A WANNING TOSTAKE OF PIRRUA HE BOTTON OF THE SIGN TO HER BOADMAY SURFACE.  A WANNING TOSTAKE OF PIRRUA HE BOTTON OF THE SIGN TO HER BOADMAY SURFACE.  A WANNING TO STATIONARY TOWNER CONDITIONS THE SIGNS WANNING WEIGHT SIGN SATAL BE SUPPORT OF SIGN SATAL BE SUPPORT OF SIGN SATAL BE USED. THE WORNING WOUNT ON PORT BABLE SUPPORT OF SIGN SATAL BE USED. THE WORNING WOUNT ON PORT BABLE SUPPORT OF SIGN SATAL BE USED. THE WORNING WANNING WANNING WANNING WANNING WAS A SATAL BE DIRECT BURD TO WANNING SIGN SATAL BE DIRECT BURD TO WANNING SIGN SATAL SATA	8. F. AGGERS SWALL USE RELECTORZED STOP-SLOW PADDLES. STRAINGS. STRAINGS. 9. WOST OF THE SCHOOL SOUR YOR REFREINCY 19. WOST OF THE SCHOOL SOUR SOUR STRAINGS. RIGHT, HOUTEVER HILL NO DOES NOT FREALURE THE USE OF WARNER WARTER TO WORKER THE WERE SCHOOL NO WANT BETTER CONNET TO WOOTONSTS THE PROPER DRECTION OF WAYELENT.  D. RES-1500P SWALL BE PLACED ALL LEST 1500P BUT TO WE SCHOOL SWALL STRAINGS.  THE SCHOOL SWALL BE PLACED ALL STRAINGS.  THE SCHOOL SWALL BE PLACED ALL SWALL SWA	ADVANCE OF THE "REDUCED SPEED AREAD" SON,  **NOTE: SUPPORTED FOR SINCE AND THE REDUCE SPEED STONE IN NOTES 4 a. A. THE REDUCE REDUCE STONE IN NOTES 4 a. A. THE REDUCE REDUCE STONE IN NOTES 4 a. A. THE REDUCE REDUCE STONE IN NOTES 4 a. A. THE REDUCE STONE STONE IN NOTES 4 a. A. THE REDUCE STONE STONE IN NOTES 4 A. THE REDUCE STONE STONE IN THE RESULT STONE STONE IN THE RESULT STONE ST	1   1   1   1   1   1   1   1   1   1
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PASS WITH CARE	S10., 24.30- EXPR. 36.348- FRT.	\$10. 35-236- FWT. 48-748-	\$10. 36"X35" FFFY. 46"X46"	W20-2 DETOUR XXXX S10. 48"748"	WI-4b	M4-10 DETOUR
DO NOT PASS	STD, 24-130- EXPRY, 36-740- FWT-1	STD. 36-736- FW. 48-748-	W3-2 STD, 35-736- SPECIAL 46-746-	M20-1 R0AD RIORK XXXX XXXX XXXX XXXX	\$10, 36-736-	STD. 30-X24- SPECIAL 48-Y36- SPECIAL 60-X48-
R2-5C SPEED ZONE AHEAD	STD. 24"-320" STD. 36"-348" FWY. 48"-860" RSP-1	CLOSE 48-x30-	W3-1 STD, 36-Y36- SPECIAL 48-Y48-	M.P.H.	W2I-5 SHOULDER WORK STD. SO-730- SPECIAL 36-736-	OM-3R -YELLOP -YELLOP -YELLOP -YELLOP
R2-5A REDUCED SPEED AHEAD	STD. 24-X30- EWRY, 36-X36- FWY, 48-X60- RII-4	' M	STD. IETX24- SPECIAL 24-X30- EXPRY, 30-X36- FRY, 30-X36-	W9-2 LAME ENDS MERGE RIGHT STD. 86-X56- FBT. 46-X46-	FRESH OIL SPECIAL 39:739-	END ROAD WORK
SPEED LIMIT 50	SID. 34-330- Fipr. 34-330- Fipr. 34-330- RII-34 ROAD CLOSED	XX MILES AHEAD LOCAL TRAFFIC ONLY 60-X30-	SID, 48"X24" SPECIAL 60"X30"	W8-7 LOOSE GRAVEL EXPWY. 35-X35- FWY. 48-X48-	W20-70    100   10	
RI-2	EVENT 48"348"348"35" EVENT 48"348"348" FWT. 60"X60"X60" RH-2	CLOSED 48-X30-	\$10, 46*x46*	6-3 Expw. 35-256- SPECIAL 48-248-	W2O-5 RIGHT LANE CLOSED XXXX STD. 48-X48-	W8-9 LOW SHOULDER STD. 36-736- FWY, 49-748-
STOP	STANDARD 30°-330° SPECIAL 48°-X48° SPECIAL 48°-X48° R5-1	STD. 30°X50° SYR, 30°X50° SYRY, 36°X50° SYRCIAL 40°X40°	Sib. 48"X48"	ROAD NARROWS STD. 35"X36"	WZO-4 OWE LANE ROAD XXXX XXXX	WB-II UNEYEN LANES STD. 36-X36- FWY, 48-X48-







KEY:

(A) Typical application - daytime maintenance operations of short duration on a 4-ione divided roadway where half of the roadway is closed,

GENERAL NOTES

See General Notes

SPEED 45

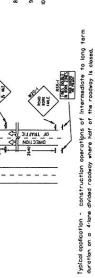
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Section 1

R2-50 REDUCED SPEED AVEAD

G20-1 ROAD WORK NEXT X.T.MLES

45

Troller Or Truck

SPACED Y

Traffic Drums -25' 0.C.