ARKANSAS STATE HIGHWAY COMMISSION AHTD-EQUIPMENT AND PROCUREMENT DIVISION BID INVITATION

Contract Number:	H-17-31	ОН		BID OPENING LOCATION: AHTD Equipment and	1417	IL TO: ΓD Equipi	ment and		ER TO: Equipment and
	April 18, 2017	Time: 1	1:00 a.m.	Procurement Division 11302 West Baseline Road Little Rock, AR 72209	P.C	curement D. Box 226 e Rock, A		11302	ement Division West Baseline Roa ock, AR 72209
delivery locations un	til the above-noted bid opening	date and ti	me, and then publ	ect to the Standard Bid Conditions of icly opened at the above-noted bid ed bids will not be considered. To	opening loa	cation. Bio	ls must be s	ubmitted	l on this form, with
In compliance with the set opposite each item	•	all the Cond	itions thereof, the	undersigned offers and agrees to ful	rnish any ar	nd all items	upon which	orices are	quoted, at the price
Company Name:_				Name (Type or Print)	ː				
Address:				Title:					
				Phone:		F	ax:		
City:	State:		Zip:	E-mail Address:					
Federal Tax ID or S	Social Security No.:			Signature: Signature must be legibl Unsigned bids will be rej	e, original (ink.	
Item No.		Descrip	otion		Quantity	Unit	Unit Pric	:e	Amount

The Arkansas Highway and Transportation Department (hereafter called the AHTD) will receive bids for a Contract furnishing to the AHTD, District Ten, requirements of **Guard Rail Maintenance** at pricing set forth on the attached Bid Form and in accordance with attached Specifications. Contract shall be for a 1 year period from Date of Award thru March 31, 2018 or to a maximum amount of \$100,000.00, whichever comes first, with the option to renew upon mutual agreement by both parties.

ALL OR NONE BIDS ONLY WILL BE CONSIDERED.

Contract may be renewed or extended upon mutual agreement of the parties, but shall not exceed limitations allowed by Arkansas State Procurement Law.

All bidders should complete and return the Eligible Bidder Certification (Attachment A) and Disclosure Form (see Page 2 of Standard Bid Conditions – Item 18) issued with this bid. A current copy of the DFA Illegal Immigrant Contractor Disclosure Certification (see Page 1 of Standard Bid Conditions – Item 17) should also be submitted with bid.

The Bid Invitation, Bid Form and Specifications are parts of the contract and by this reference are incorporated herein as fully and effectively as if set forth in detail herein.

It shall be understood that by submission of bid that bidder agrees to the conditions herein specified and, if bid is found acceptable by the AHTD either in whole or in part, shall consider this bid a contract agreement bound under these conditions. The parties hereto agree that this contract in all things shall be governed by the Laws of the State of Arkansas.

Bid Bond in the amount of \$500.00 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 4 on page 1of Standard Bid Conditions.

Performance Bond in the amount of \$5000.00 will be required of successful bidder prior to providing goods/services. <u>Personal and company checks are not acceptable as Performance Bonds.</u> See Condition 4 on page 1 of Standard Bid Conditions.

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 after award of bid/contract. If you have any questions, call this office at 501-569-2667.

ARKANSAS STATE HIGHWAY COMMISSION

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STANDARD BID CONDITIONS

- 1. **GENERAL:** Any special terms and conditions included in the invitation for bid override these standard terms and conditions. The standard terms and conditions and any special terms and conditions become part of any contract entered into if any or all parts of the bid are accepted by the Arkansas State Highway Commission (AHTD).
- 2. **ACCEPTANCE AND REJECTION:** 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.
- 3. **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. When a bidder claims and can show clear and convincing evidence that a material mistake was made in the bid and was not the bid intended, the bidder may be permitted to withdraw their bid prior to award without forfeiture of bid bond. Cashi er'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 guarantee 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). These bonds shall not only serve to guarantee the completion of the work, but also to guarantee the excellence of both workmanship and material until the work is finally accepted and the provisions of the Plans, Specifications, and Special Provisions fulfilled. 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.
- 5. **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.
- 6. **"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.
- 7. **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.
- 8. **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.
- 9. **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.
- 10. **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.

- 11. **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.
- 12. **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.
- 13. **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.
- 14. **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.
- 15. **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).
- 16. **NOTICE OF NONDISCRIMINATION:** The Arkansas State Highway Commission, through the AHTD, complies with all civil rights provisions of federal statutes and related authorities that prohibit discrimination in programs and activities receiving federal financial assistance. Therefore, the AHTD does not discriminate on the basis of race, sex, color, age, national origin, religion (not applicable as a protected group under the Federal Motor Carrier Safety Administration Title VI Program), disability, Limited English Proficiency (LEP), or low-income status in the admission, access to and treatment in the AHTD's programs and activities, as well as the AHTD's hiring or employment practices. Complaints of alleged discrimination and inquiries regarding the AHTD nondiscrimination policies may be directed to Joanna P. McFadden 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: **joanna.mcfadden@ahtd.ar.gov.** Free language assistance for Limited English Proficient individuals is available upon request. This notice is available from the ADA/504/Title VI Coordinator in large print, on audiotape and in Braille.
- 17. **PROHIBITION OF EMPLOYMENT OF ILLEGAL IMMIGRANTS:** Pursuant to Arkansas Code Annotated 19-11-105, all bidders must certify prior to award of a contract that they <u>do not</u> employ or contract with any illegal immigrant(s) in its contract with the state. Bidders shall certify online at https://www.ark.org/dfa/immigrant/index.php.
- 18. DISCLOSURE: Failure to make any disclosure required by Governor's Executive Order 98-04, or any violation of any rule, regulation, or policy adopted pursuant to that order, **shall** be a material breach of the terms of this contract. Any contractor, whether an individual or entity, who fails to make the required disclosure or who violates any rule, regulation, or policy **shall** be subject to all legal remedies available to the agency.

ATTACHMENT A

ELIGIBLE BIDDER CERTIFICATION

The Bidder represents and warrants for itself, its employees and its subcontractors and certifies they:

- 1. Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from covered transactions by any Federal department or agency;
- 2. Have not within a three-year period preceding thus Bid been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State, or local) transaction or contract under a public transaction; violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, or receiving stolen property;
- 3. Are not presently indicted for or otherwise criminally or civilly charged by a governmental entity (Federal, State, or local) with commission of any of the offenses enumerated in paragraph two (2) of this Certification;
- 4. Have not within a one-year period preceding this application/Bid had one or more public transactions (Federal, State, or local) terminated for cause or default; and

The Bidder represents, warrants and acknowledges the understanding that restrictions placed on the employment of labor or on the scale of pay for the work on a contract will be the requirements of the Fair Labor Standards Act (Federal Wage-Hour Law) of 1938, 28 USC §201 et seq., and other applicable labor laws.

The person executing this Certification further represents, warrants and affirms the truthfulness and accuracy of the contents of the statements submitted on or with this Certification and understands that the provisions of 31 USC §3801 et seq. are applicable thereto.

BIDDER NAME
BY:
Signature
TITI F:

CONTRACT AND GRANT DISCLOSURE AND CERTIFICATION FORM

Failure to complete all of th	ne following	g informatio	n may result in a delay in obtainin	ng a contra	ct, lease, p	purchase agreer	nent, or grant award with any Arkansas State Agency	/.		
SUBCONTRACTOR: ☐ Yes ☐ No	SUBCONTRA	ACTOR NAME:								
			IS THIS FOR:							
TAXPAYER ID NAME:			☐ Goods?	☐ Service	es?	☐ Both?				
YOUR LAST NAME:			FIRST NAME:				M.I.:			
ADDRESS:										
CITY:			STATE:		ZIP C	CODE:	COUNTY:			
			EXTENDING, AMENDING HE FOLLOWING INFORM				RACT, LEASE, PURCHASE AGREEMEN	T, OR GRANT AV	VARD WITH	
ANT ARRANSAS ST	ATL AG	LIVET, TI	AL POLLOWING INPORT			IDIVIDU/				
Indicate below if: you, you Member, or State Employ	•	or the broth	ner, sister, parent, or child of you	u or your s	spouse is	a current or for	rmer: member of the General Assembly, Constitut	ional Officer, State Boa	ard or Commiss	
Position Held	Ма	ark (√)	Name of Position of Job Hel	ld For	d For How Long?		What is the person(s) name and how are they related to you? (i.e., Jane Q. Public, spouse, John Q. Public, Jr., child, etc.)			
Fosition Held	Current	Former	(senator, representative, name of board/ commission, data entry, etc		From To MM/YY MM/YY		Person's Name(s)	Re	lation	
General Assembly										
Constitutional Officer										
State Board or Commission Member										
State Employee										
☐ None of the above a	pplies			D 441	FAITI	TV /DUICI	NIECC)*			
						TY (BUSI	-			
Officer, State Board or Co	mmission	Member, S	tate Employee, or the spouse, b	rother, sis	ter, parer	nt, or child of a	ship interest of 10% or greater in the entity: meml member of the General Assembly, Constitutional			
Marie of Position of Job Heid For How Long: what is his/hor position		What is the person(s) name and what is his/her % of or what is his/her position of control								
Position Held -	Current	Former	(senator, representative, name of board/ commission, data entry, etc.)	From MM/YY	To MM/YY		Person's Name(s)	Ownership Interest (%)	Position of Control	
General Assembly										
Constitutional Officer										
State Board or Commission Member										
State Employee						†			†	

[☐] None of the above applies

Contract and Grant Disclosure and Certification Form

Failure to make any disclosure required by Governor's Executive Order 98-04, or any violation of any rule, regulation, or policy adopted pursuant to that Order, shall be a material breach of the terms of this contract. Any contractor, whether an individual or entity, who fails to make the required disclosure or who violates any rule, regulation, or policy shall be subject to all legal remedies available to the agency.

As an additional condition of obtaining, extending, amending, or renewing a contract with a state agency I agree as follows:

- 1. Prior to entering into any agreement with any subcontractor, prior or subsequent to the contract date, I will require the subcontractor to complete a **CONTRACT AND GRANT DISCLOSURE AND CERTIFICATION FORM**. Subcontractor shall mean any person or entity with whom I enter an agreement whereby I assign or otherwise delegate to the person or entity, for consideration, all, or any part, of the performance required of me under the terms of my contract with the state agency.
- 2. I will include the following language as a part of any agreement with a subcontractor:

Failure to make any disclosure required by Governor's Executive Order 98-04, or any violation of any rule, regulation, or policy adopted pursuant to that Order, shall be a material breach of the terms of this subcontract. The party who fails to make the required disclosure or who violates any rule, regulation, or policy shall be subject to all legal remedies available to the contractor.

3. No later than ten (10) days after entering into any agreement with a subcontractor, whether prior or subsequent to the contract date, I will mail a copy of the CONTRACT AND GRANT DISCLOSURE AND CERTIFICATION FORM completed by the subcontractor and a statement containing the dollar amount of the subcontract to the state agency.

Signature Vendor Contact I	Person	Title Title		DatePhone No
Agency Use Only Agency Number	Agency Name	Agency Contact Person	Contact Phone No.	Contract or Grant No.

CONTRACT NO. H-17-310H	BIDDER	_
Prices hid herein are subject to discount of	% for payment of invoices within	days

Item		Approx.		Unit	Extended
No.	Description	Useage	Unit	Price	Amount
1.	Guardrail (Section 1)	50	L.F.		
2.	Guardrail (Section 2)	800	L.F.		
3.	Guardrail (Section 3)	75	L.F.		
4.	Guardrail (Section 4)	50	L.F.		
5.	Guardrail (Terminal Rail, Type 2, 12 GA.)	2	EA.		
6.	SKT W-beam Guardrail End Section, 12 Ga.	1	EA.		
7.	Guardrail Back-up Plate	15	EA.		
8.	Guardrail Line Posts (Steel)	45	EA.		
9.	Guardrail Line Posts (Concrete)	40	EA.		
10.	Guardrail Line Posts (Wood)	15	EA.		
11.	Guardrail Spacer Blocks (Steel)	71	EA.		
12.	Guardrail Spacer Blocks (Concrete)	2	EA.		
13.	Guardrail Spacer Blocks (Wood)	16	EA.		
14.	Guardrail Spacer Blocks (Plastic)	33	EA.		
15.	Terminal Anchor Posts (Type A)	1	EA.		
16.	Terminal Anchor Posts (Type B)	1	EA.		
17.	Removal & Disposal of Guardrail (Type A)	900	L.F.		

CONTRACT NO.	H-17	7-310H
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BIDDER		
DIDDLIN		

Item		Approx.		Unit	Extended
No.	Description	Useage	Unit	Price	Amount
18.	Removal & Disposal of Guardrail (Type B)	1	L.F.		
19.	Guardrail Terminal Section	2	EA.		
20.	Straighten and Align existing Guardrail Posts	34	EA.		
21.	Furnish and Install Guardrail System (Type A)	50	L.F.		
22.	Furnish and Install Guardrail System (Type B)	1	L.F.		
23.	Furnish & Install Bridge Connection – Curb	3	EA.		
24.	Furnish & Install Bridge Connection – Parapet Wall	1	EA.		
25.	Steel Tube (6"x8"x54"x3/16")	1	EA.		
26.	Soil Plate (18"x24"x1/4")	4	EA.		
27.	(Type 2) Terminal Wood Posts (5-1/2"x7-1/2"x45")	2	EA.		
28.	(Type 2) Terminal Wood Posts (6"x8"x6'0")	3	EA.		
29.	(Type 2) Terminal Wood Posts (5-1/2"x7-1/2"x14")	1	EA.		
30.	Pipe Sleeve (2" Std. Pipe x 5-1/2")	1	EA.		
31.	Bearing Plate (8"x8"x5/8")	1	EA.		

CONTRACT NO. H-17-310H

BIDDER		
DIDDLIN		

Item		Approx.		Unit	Extended
No.	Description	Useage	Unit	Price	Amount
32.	Cable Anchor Bracket	2	EA.		
33.	SKT Anchor Box	1	EA.		
34.	Cable Assembly	3	EA.		
35.	Offset Strut	1	EA.		
36.	Guard Rail Extruder	1	EA.		
37.	SKT Ground Strut Hinged Post	1	EA.		
38.	Furnish and Install Terminal (Type 2) System (50')	1	EA.		
39.	ET2000 HBA Post #1 Top	1	EA.		
40.	ET2000 HBA Post #1 Bottom	1	EA.		
41.	ET2000 HBA Angle Strut	1	EA.		
42.	Steel Yielding Terminal Post SYTP	3	EA.		
43.	Guard Rail (Thrie Section)	2	EA.		
44.	SKT First Post Assembly Top	1	EA.		
45.	SKT First Post Assembly Bottom	1	EA.		
46.	SKT Second Post Assembly Top	1	EA.		
47.	SKT Second Post Assembly Bottom	1	EA.		
48.	Guard Rail (Thrie Transition Section)	1	EA.		
49.	Guard Rail Connector Plate (Thrie Beam)	1	EA.		

CONTRACT NO. H-17-310H BIDDER

50.	Guard Rail Spacer Blocks (Steel Tube-Thrie)	7	EA.		
51.	Guard Rail Spacer Blocks (Wood – Thrie)	1	EA.		
52.	Furnish and Install Thrie Beam Guard Rail Terminal	1	EA.		
53.	Special End Shoe (Thrie Beam)	1	EA.		
54.	Thrie Beam Guard Rail Steel Post (78')	7	EA.		
55.	Thrie Beam Guard Rail Transition Steel Post (72")	1	EA.		
56.	Guard Rail Post (Concrete) (Dept. Supplied)	1	EA.		
57.	Guard Rail Spacer Block (Concrete) (Dept. Supplied)	1	EA.		
			BID	TOTAL:	

ARKANSAS STATE HIGHWAY COMMISSION AHTD SPECIAL PROVISION

GUARD RAIL MAINTENANCE

DESCRIPTION:

This work shall consist of:

- 1. Removing and disposing of existing sub-standard installations or those installations which have been damaged beyond repair.
- 2. Installation of new guard rail systems with materials furnished by the Contractor or the AHTD as appropriate and constructed to current standards.

This work shall be limited to these counties within District Ten (Craighead, Poinsett, and Mississippi). Locations within the District shall be selected by the District Engineer.

The Contract shall be limited to a one year period following the award of the Contract.

AHTD reserves the right to default the Contractor if work is not performed according to these Specifications and/or time constraints are not met.

If a Contractor is defaulted or quits a contract, the Contractor will not be allowed to bid on another AHTD guardrail maintenance contract for a period of twelve (12) months.

The AHTD reserves the right to cancel the Contract before the one year time limit.

The AHTD reserves the right to also perform guard rail repair as necessary within the areas covered by this Contract.

The Contractor shall assume full liability for traffic hazards that might be created by his operation and save harmless the Arkansas State Highway Commission in all respects.

MATERIALS:

All materials furnished by the Contractor shall meet the requirements of the Arkansas State Highway & Transportation Department Standard Specifications for Highway Construction, Edition of 2014, all applicable Special Provisions, Supplemental Specifications, Current Standard Drawings GR-7, GR-8, GR-8A, GR-9, GR-10, GR-10A, and GR-11, and the Additional Guard Rail Details.

AHTD furnished materials will be available at the District Ten Headquarters at Paragould during normal working hours. Miscellaneous hardware items such as nuts, bolts, washers, etc. necessary to reset Department furnished items shall be supplied by the Contractor and shall comply with all applicable specification requirements and be approved by Materials Division. Only the exact amount of materials necessary for the installation will be furnished. Any material damaged by the Contractor will be replaced at no cost to the State.

Any guard rail elements removed from an installation which the District Engineer determines to be salvageable shall become the property of the AHTD and shall be delivered to the District Ten Headquarters during normal working hours. Non-Salvageable materials shall be disposed of by the Contractor.

EQUIPMENT:

All equipment necessary for the satisfactory performance of this work shall be on hand before work begins.

PROCEDURE:

The Contractor will be required to begin work within ten (10) calendar days of notification from the District Engineer that work is required and will be notified in writing each time it is necessary to perform work. A list will be enclosed with the notification which includes AHTD furnished materials, Contractor furnished materials, and the location and length of each installation. This list will be an estimate only and may be adjusted once work begins. The Contractor shall provide the District Maintenance Engineer with their schedule for repairs at the various locations. This notification shall include anticipated traffic control. No lane closures will be allowed in the mornings between 6 a.m. and 9 a.m. and in the afternoons between 3 p.m. and 6 p.m. without the consent of the District Engineer. When the Contractor completes all of the specified work at a location, he shall notify the District Maintenance Engineer and an inspection will be made. Upon acceptance of the work and materials by the AHTD, a list of completed pay items will be furnished by the Contractor and the specified work will be considered complete. If the Contractor fails to begin work within 10 calendar days of notification, full liability of any and all accidents concerning these guardrails will be assumed by the Contractor.

Replacement, assembly and or installation of guard rail elements shall conform to the Arkansas State Highway & Transportation Department Standard Specifications for Highway Construction, Edition of 2014, all applicable Special Provisions and Supplemental Specifications and all Current Standard Drawings and special details included in this contract. The alignment and location of replaced guard rail elements shall conform to and match the portion of any installation which is undamaged and is to remain in place.

When the Engineer determines that an entire guard rail installation is damaged beyond repair or needs to be upgraded to current standards, the Contractor will be instructed to remove and dispose of the installation and to construct a new installation with materials supplied by the Contractor. In such instances, all materials, work, measurement and payment will be in accordance with Arkansas State Highway & Transportation Department Standard Specifications for Highway Construction, Edition of 2014, all applicable Special Provisions and Supplemental Specifications and all Current Standard Drawings included in this contract. Post holes created by the removal of concrete or wood posts shall be backfilled and thoroughly compacted using suitable material before driving the new steel posts. When possible the spacing of the steel posts shall be staggered between the vacated post holes. In such instances the backfilling may then be accomplished either before or after the steel posts are driven.

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METHOD OF MEASUREMENT AND BASIS OF PAYMENT:

Mobilization will not be measured and paid for directly but will be considered included in the prices bid for the various items of the Contract.

The cost of traffic control through the work zones will not be measured and paid for directly but will be considered included in the prices bid for the various items of the Contract.

Replaced steel guard rail sections, installed and accepted, will be measured by the linear foot, complete in place, and paid for at the Contract unit price bid. As indicated on the Additional Guard Rail Detail Sheet, Sections 1 and 2 are end sections and will each be considered as 25 feet in length. Intermediate Section 3 shall be measured along the roadway face from centerline of post to centerline of post. NOTE: The item, Guard Rail Section 1, as shown on the Additional Guard Rail Detail Sheet, is required to be a double section. Each Section 1 of the double rail will be paid as 50 L.F. of guard rail plate. For the items, Guard Rail Sections 2, 3 and 4, each installation will be paid for as a 25 L.F. section of guard rail plate. This applies only when individual parts or pieces of a guard rail installation are being replaced and does not apply to the items "Furnish and Install Guard Rail (Type _____).

Replaced guard rail line posts, spacer blocks, back-up plates, terminal sections and terminal anchor posts (Type 1), installed and accepted, will be measured by the unit and paid for at the Contract unit price bid.

Furnishing and placing anchor bolts, splicing hardware, and/or attachment hardware will not be measured and paid for directly but will be considered included in the prices bid for the various items of the Contract.

No measurement and payment will be made for necessary excavation and/or backfilling performed in connection with replacing damaged elements of guard rail.

Removal and disposal of guard rail will be measured as provided in the Arkansas State Highway & Transportation Department Standard Specifications for Highway Construction, Edition of 2014 and paid for at the contract unit price bid. Removal and disposal of posts, spacer blocks, and miscellaneous hardware will not be measured and paid for directly but will be considered included in the price bid for the various items of the contract.

Work completed at each designated location shall be paid for upon acceptance of the work. Payment shall be based upon the list of completed pay items furnished by the Contractor to the Department and the Contract unit price for those items.

TRAFFIC CONTROL THROUGH WORK ZONE:

The Contractor shall sign and mark all work zones and lane closures in accordance with the Manual on Uniform Traffic Control Devices and Current Standard Drawings TC-1, TC-2, TC-3, TC-4 and TC-5. All signing materials shall be High Intensity. The Contractor shall conduct repair operations in such a manner that all feasible traffic lanes will be open to traffic. Lane closures may be established as needed to perform the work, except that during period of adverse weather or peak high traffic, lane closures will be permitted only if approved by the Engineer.

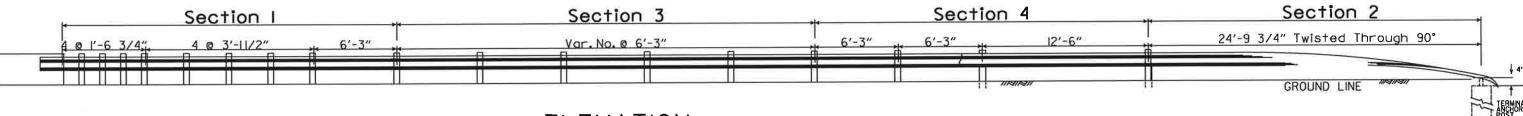
ARKANSAS STATE HIGHWAY COMMISSION LITTLE ROCK, ARKANSAS AHTD-EQUIPMENT & PROCUREMENT DIVISION

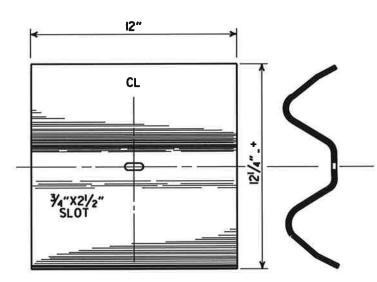
Contract No. H-17-310H

<u>Cooperative Purchasing</u>. Other tax-supported entities* in Arkansas (cities, counties, state agencies, school districts, etc.) may purchase commodities covered in this Contract on an individual basis under the same specifications and conditions, and at the pricing set forth by each vendor, all at the discretion of each vendor in each case. Prices could be reduced by a vendor for minor alterations in conditions (changing minimum order quantities, etc.) as agreed by both parties, but could not be raised above the contract bid price under any circumstances. Vendors would not be required to sell to any such entity under this Contract, and those entities would not be obligated to purchase from the Contract.

Each entity wishing to purchase from the Contract would make contact directly with the appropriate vendor(s). The AHTD would remain "out of the loop" for such transactions: all contact, orders, invoices, payments, etc. regarding such transactions must take place exclusively between the tax-supported entity and the vendor. The AHTD would be held harmless of any and all liability arising from such transactions.

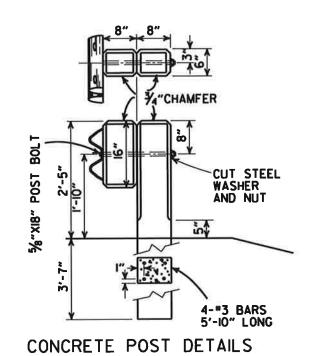
^{*}Tax-supported entities are defined as those receiving more than half of total funding from appropriated tax funds.



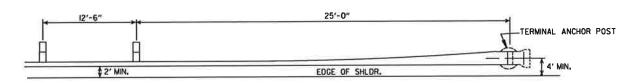


BACK-UP PLATE DETAILS

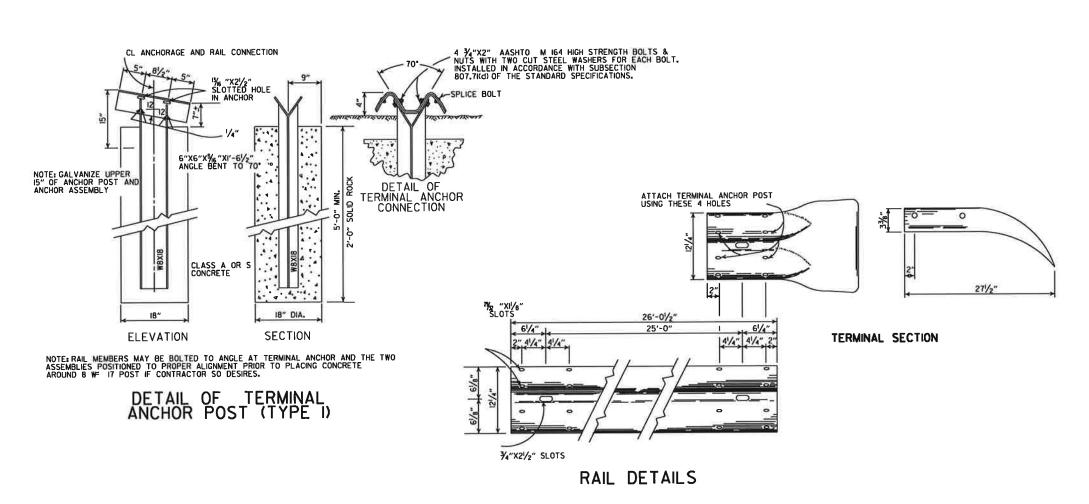
NOTE: A BACK-UP PLATE SHALL BE PLACED BETWEEN GUARD RAIL & POST AT NON-SPLICED INTERMEDIATE POSTS.



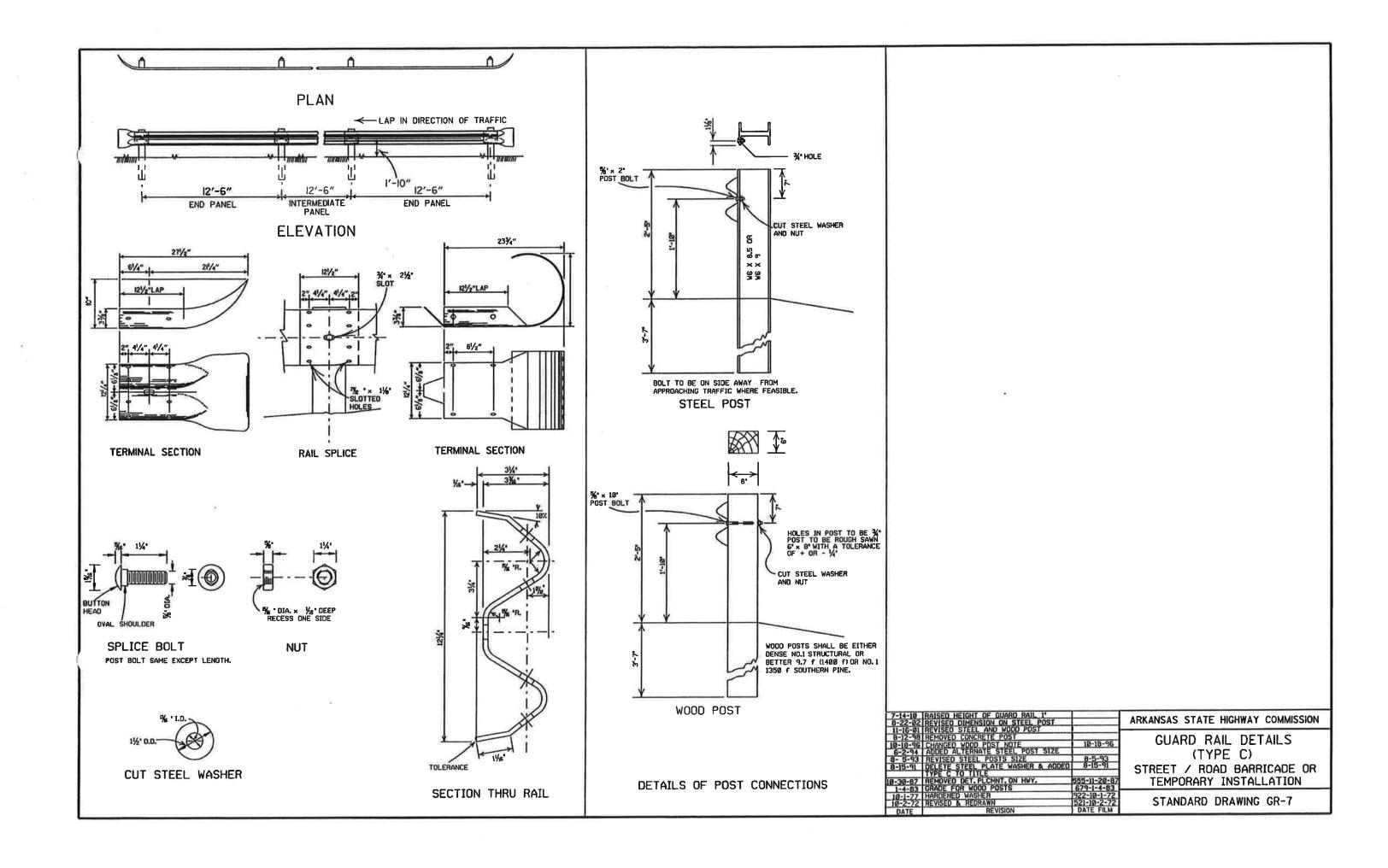
ELEVATION

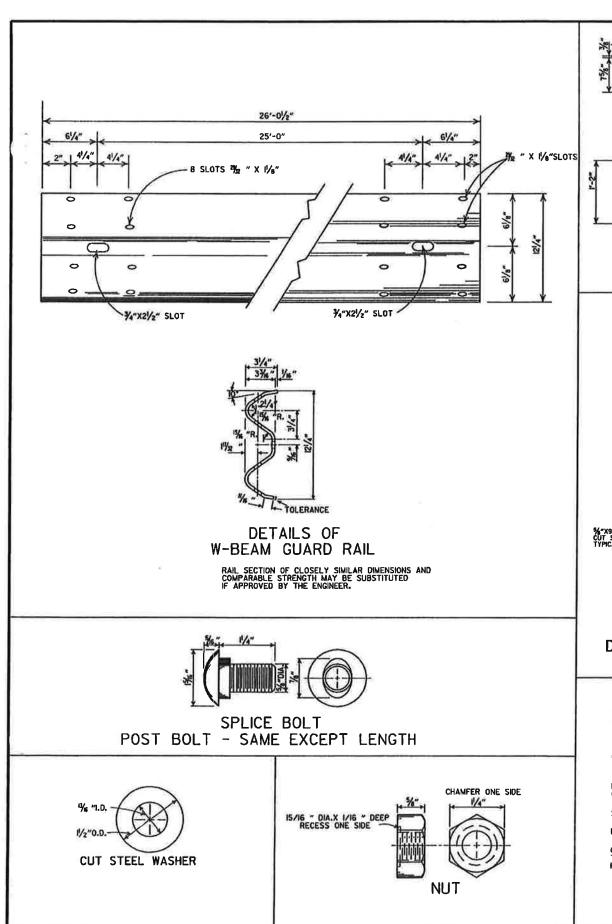


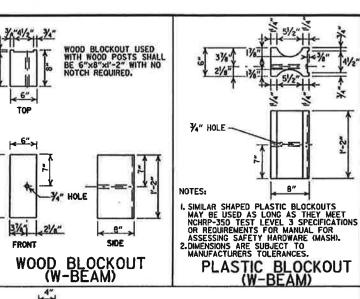
PLAN - GUARD RAIL TERMINAL (TYPE I)

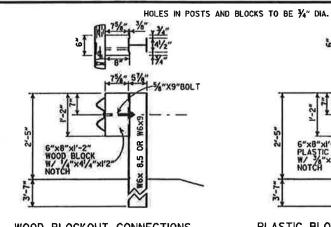


ADDITIONAL GUARD RAIL DETAILS







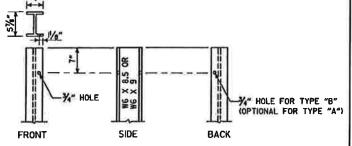


- %"X9"BOLT

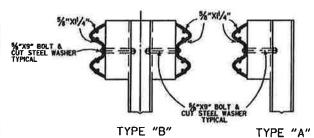
WOOD BLOCKOUT CONNECTIONS

PLASTIC BLOCKOUT CONNECTIONS

DETAILS OF STEEL LINE POST CONNECTIONS (W-BEAM)



STEEL POST



DETAILS OF STEEL LINE POST CONNECTIONS

(W-BEAM)

-GENERAL NOTES-

ALL BOLTS SHALL BE SUFFICIENT LENGTH TO EXTEND THROUGH THE FULL THICKNESS OF THE NUT AND NO MORE THAN 3/4 BEYOND IT.

BEYOND IT.

SHALL HAVE A POST SPACING OF 6'-3" UNLESS OTHERWISE NOTED.

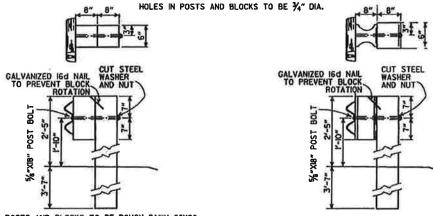
W-BEAM GUARD RAIL REPRESENTING INTERMEDIATE SECTIONS WILL BE MEASURED ALONG THE ROADWAY FACE FROM CENTERLINE OF POST TO CENTERLINE OF POST.

USE W-BEAM GUARD RAIL COMPONENTS OF SAME MATERIAL FOR ENTIRE JOB. FOR EXTENSIONS OR MODIFICATION OF EXISTING GUARD RAIL, W-BEAM GUARD RAIL COMPONENTS OF THE SAME TYPE AS THOSE EXISTING SHALL BE USED.

ANY BACKFILLING UNDER OR AROUND POST SHALL BE DAMP SAND THOROUGHLY TAMPED IN PLACE.

WOOD POSTS & WOOD BLOCKS SHALL BE EITHER DENSE NO. ISTRUCTURAL OR BETTER 9.7f (400 f) OR NO. I 1350 f SOUTHERN PINE,

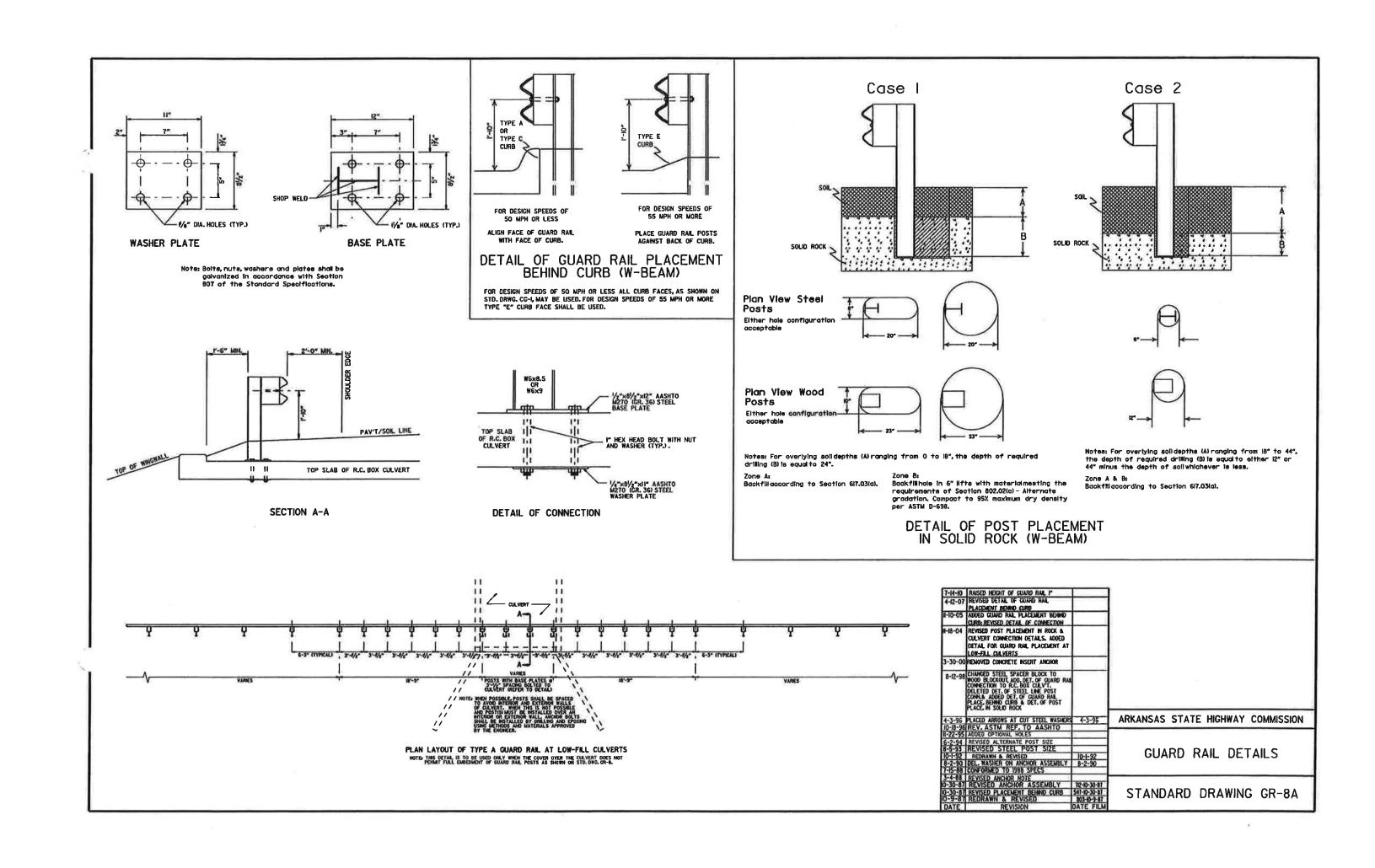
CONTRACTOR SHALL HAVE THE OPTION OF USING WOOD BLOCKOUTS FOR W-BEAM GUARD RAIL OR PLASTIC BLOCKOUTS, AS LONG AS BLOCKOUT USED MEETS NCHRP-350 TEST LEVEL 3 SPECIFICATIONS OR REQUIREMENTS FOR MANUAL FOR ASSESSING SAFETY HARDWARE (MASH) FOR W-BEAM GUARD RAIL.

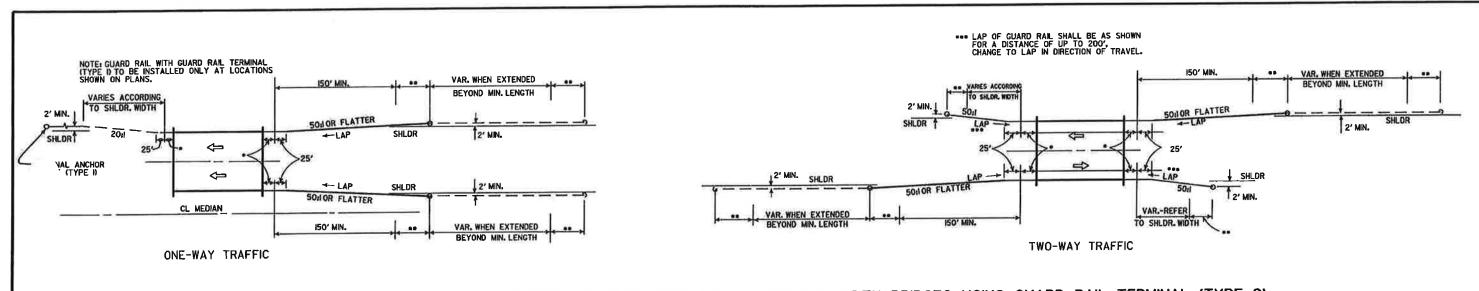


POSTS AND BLOCKS TO BE ROUGH SAWN 6"X8" WOOD BLOCKOUT CONNECTIONS

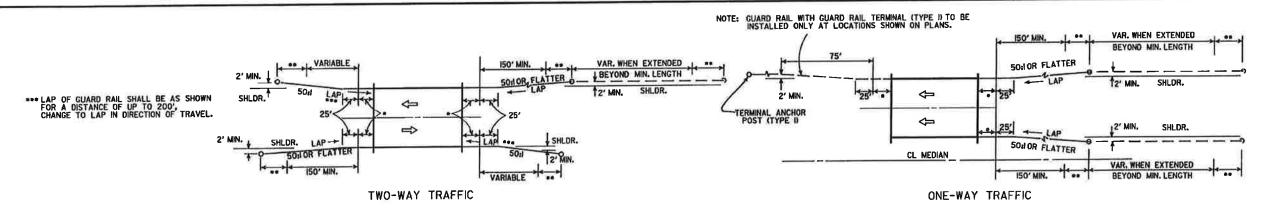
PLASTIC BLOCKOUT CONNECTIONS DETAILS OF WOOD LINE POST CONNECTIONS (W-BEAM)

	·		1
7-44-10	RAISED HEIGHT OF GUARD RAIL I"	7	
10-5-09	ADOED REFERENCE TO MASH		
4-10-03	REVISED CENERAL NOTES		
5-22-02	REVISED DANENSION ON WOOD & PLASTIC BLOCKOUT CONNECTIONS & ON STEEL POST		
#-K-01	REVISED WOOD BLOCKOUT & DETAILS OF WOOD LINE POST CONNECTIONS		
3-30-00	REMOVED GUARD RAIL AT BRIDGE ENDS		
H2-00	ADDED PLASTIC BLOCKOUT		
8-72-98	REV. BLOCKGUTS YO WOOD, DELETED CONG. POST & REV. GENERAL NOTE, DELETED DET. OF CUARD RAIL REPLACE, BEHND CURB & DET. OF POST PLACE, IN SOLID ROCK, & ADDED DETAILS OF STEEL LINE POST CONN. REMOYED BACK-UP PLATE, REVISED MOLES IN STEEL POLES		
4-3-97	REMOVED "LAP IN DIRECTION OF TRAFFIC" NOTE & PLACED ARROWS ON WASHERS		ARKANSAS STATE HIGHWAY COMMISSION
10-18-96	REVISED WOOD POST NOTE		
6-2-94	ADDED ALT, STEEL POST SIZE	01000	
8-5-93	REVISED STEEL POST SIZE	8-5-93	CHADD DAIL DETAILS
10-1-92	REDRAWN & REVISED	10-1-92	GUARD RAIL DETAILS
8-15-91	REVISED WASHER NOTE	8-15-9	
8-2-90	REV. GEN. NOTE & DEPHT OF ANC. POST IN ROCK	8-2-90	
7-15-88	REVISED SECTION 3 & GENERAL NOTES	Service of	
3-4-88	REV. ANCHOR POST, ELEV. NOTES APOST IN ROCK	780-3-4-88	
Ю-30-87	REVISED WOOD LINE POST DETAIL	546-10-30-87	STANDARD DRAWING GR-8
10-9-87	REDRAWN & REVISED	802-10-9-87	OTTHIBAND DISABILITO ON O
DATE	REVISION	DATE FILM	

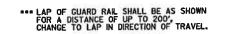


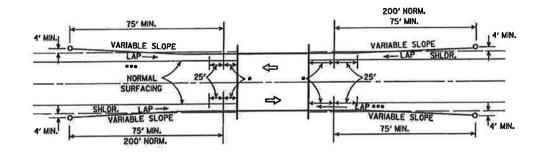


METHODS OF INSTALLATION OF GUARD RAIL AT LESS THAN FULL SHOULDER WIDTH BRIDGES USING GUARD RAIL TERMINAL (TYPE 2)



METHOD OF INSTALLATION OF GUARD RAIL AT FULL SHOULDER WIDTH BRIDGES USING GUARD RAIL TERMINAL (TYPE 2)





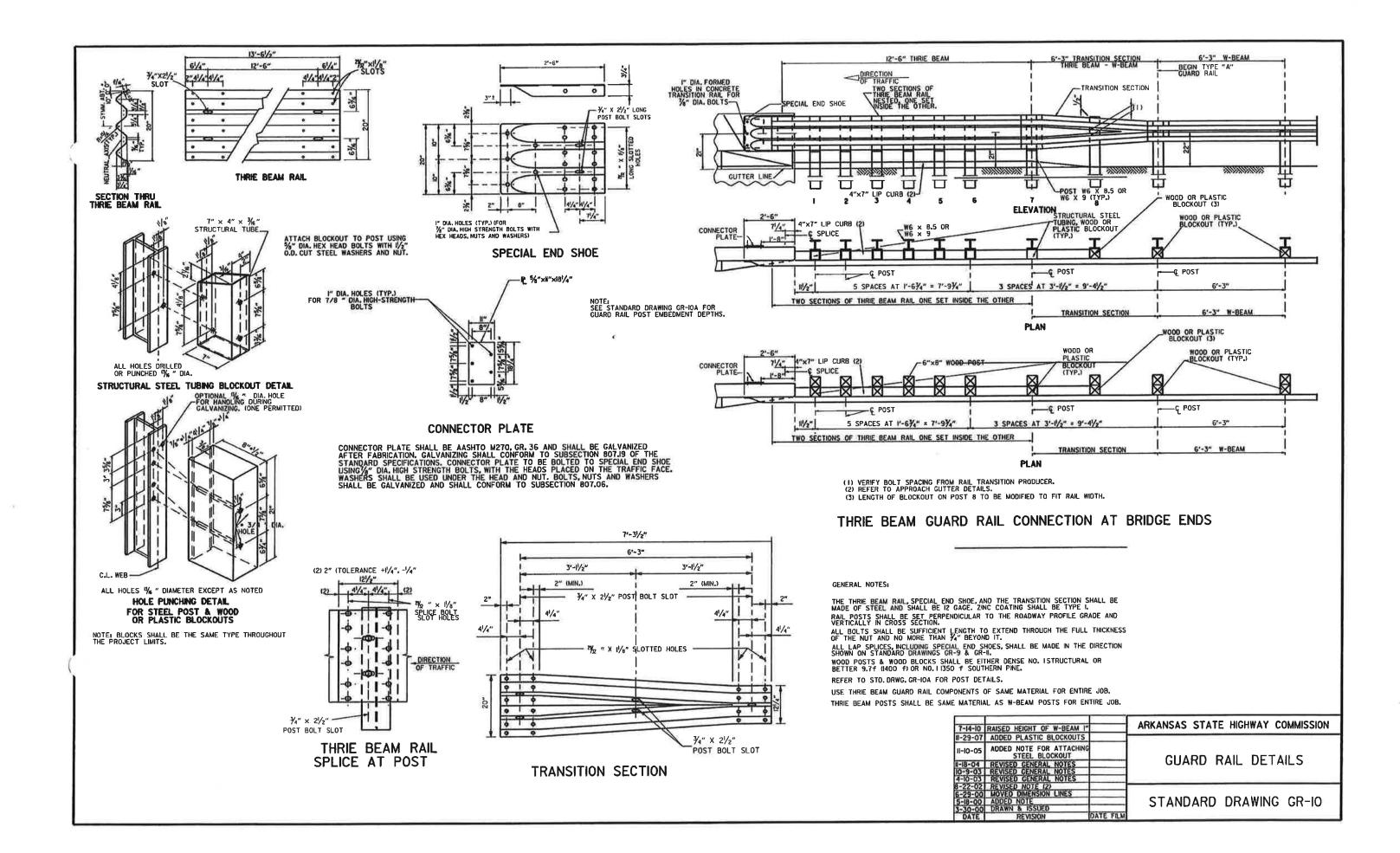
METHOD OF INSTALLATION OF GUARD RAIL USING GUARD RAIL TERMINAL (TYPE I) (FULL SHOULDER WIDTH OR LESS BRIDGES)

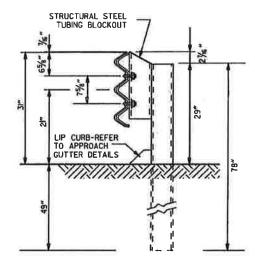
			ARKANSAS STATE HIGHWAY COMMISSIO			
	REVISED LAYOUTS					
	REMOVED GUARD RAIL NOTES AND DETAILS					
11-16-01	DELETED NOTE-METHOD OF INSTALLATION OF GUARD RAIL USING GUARD RAIL TERM. (TY. II		GUARD RAIL DETAILS			
1-12-00	ADDED CONSTRUCTION NOTE	1-12-00				
6-26-97	REVISED LAYOUT					
	REDRAWN & REVISED	10-1-92				
	ADDED NOTE					
10-9-87	REDRAWN & REVISED		STANDARD DRAWING GR-9			
DATE	REVISION	DATE FILM				

LEGEND

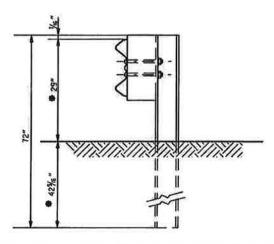
. THRIE BEAM GUARD RAIL TERMINAL

.. GUARD RAIL TERMINAL (TYPE 2)



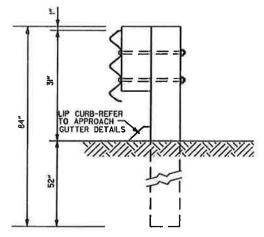


THRIE BEAM RAIL WITH STEEL TUBING BLOCKOUT AND STEEL POST POSTS I-7

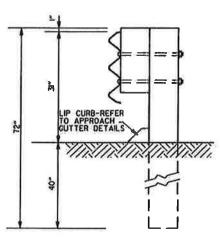


W-BEAM TO THRIE BEAM TRANSITION RAIL WITH WOOD OR PLASTIC BLOCKOUT AND STEEL POST POST 8

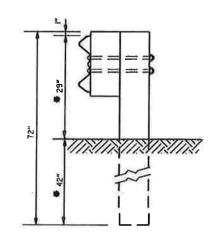
THESE DIMENSIONS WILL NEED TO BE ADJUSTED IN THE FIELD TO MAKE THE TRANSITION FROM 21" MID POINT OF THRIE BEAM TO 22" MID POINT



THRIE BEAM RAIL WITH WOOD OR PLASTIC BLOCKOUTS & WOOD POSTS POSTS I-6



THRIE BEAM RAIL WITH WOOD OR PLASTIC BLOCKOUT & WOOD POST POST 7



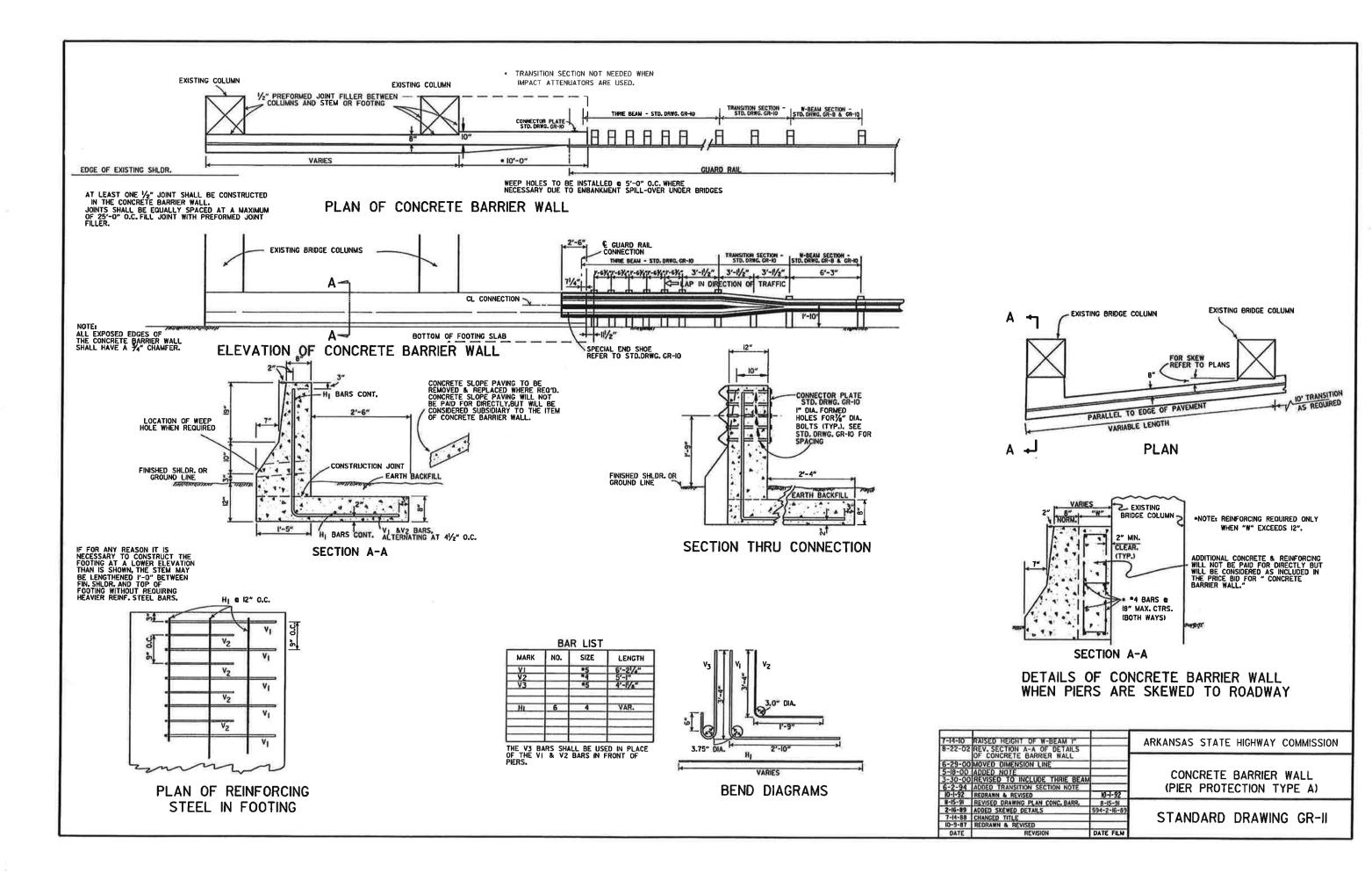
W-BEAM TO THRIE BEAM TRANSITION RAIL WITH WOOD OR PLASTIC BLOCKOUT & WOOD POST POST 8

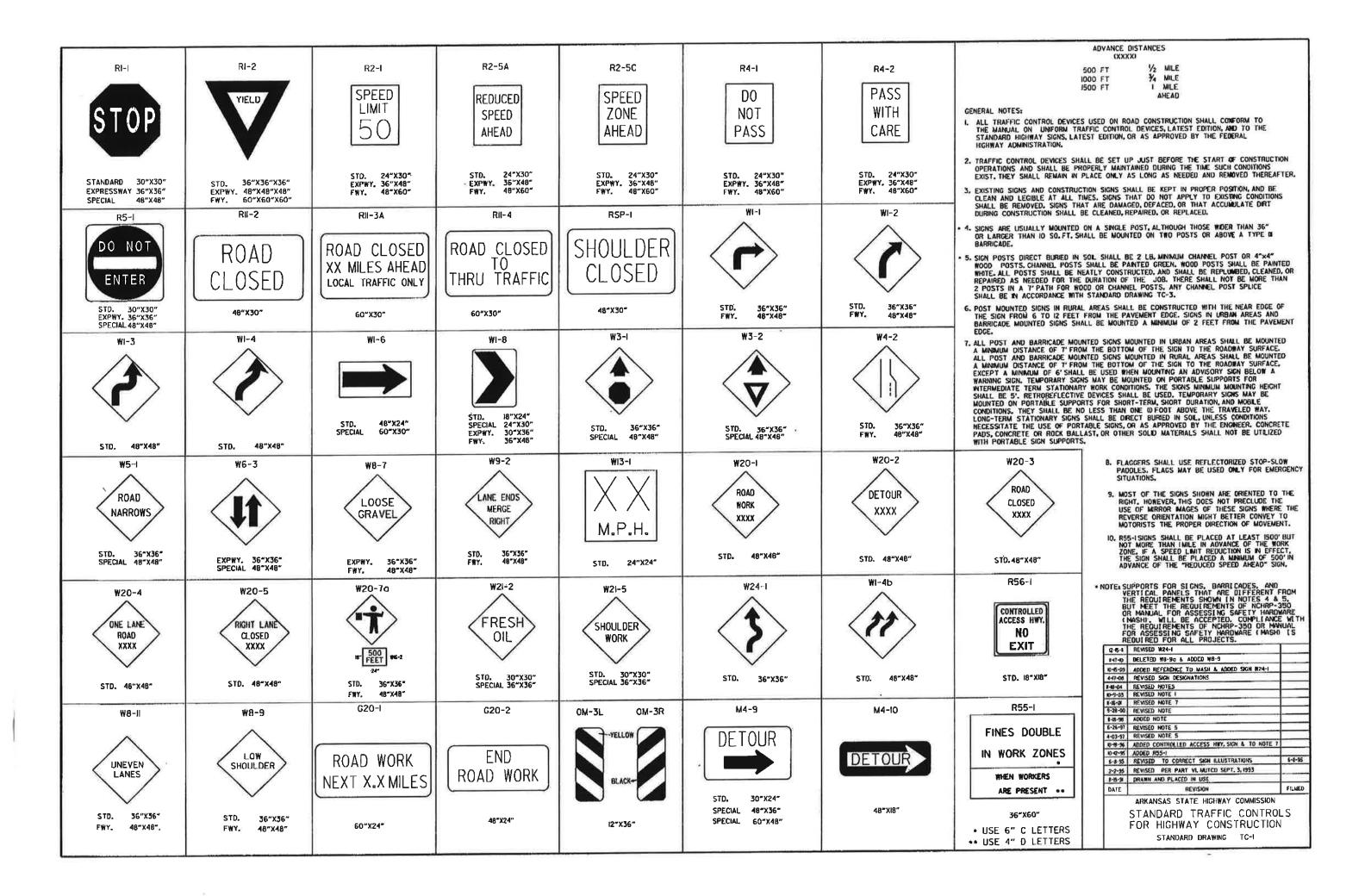
GENERAL NOTES:

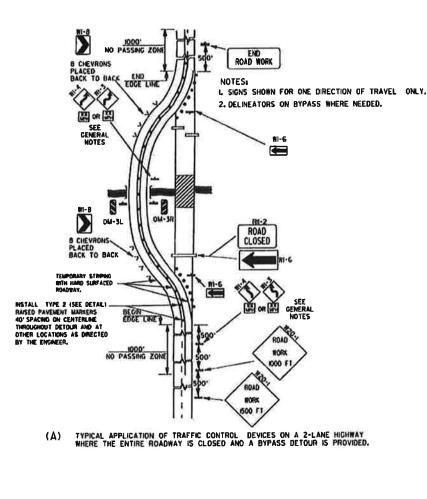
RAIL POSTS SHALL BE SET PERPENDICULAR TO THE ROADWAY PROFILE GRADE AND VERTICALLY IN CROSS SECTION.

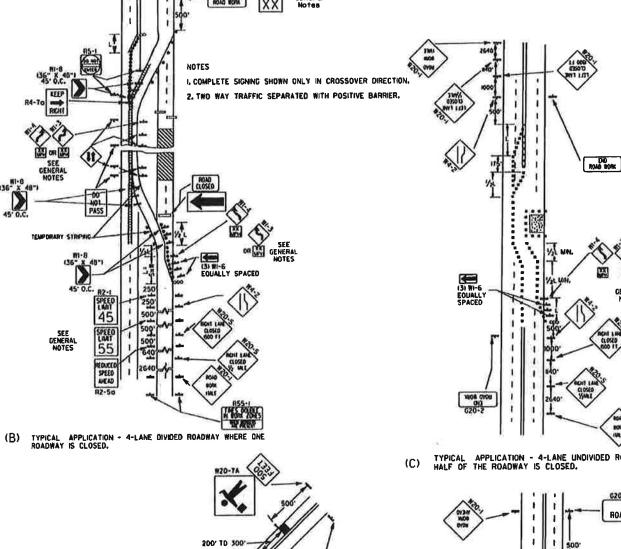
WOOD POSTS & WOOD BLOCKS SHALL BE EITHER DENSE NO. ISTRUCTURAL OR BETTER 9.7f (1400 f) OR NO.11350 f SOUTHERN PINE.

ARKANSAS STATE HIGHWAY COMMISSION GUARD RAIL DETAILS STANDARD DRAWING GR-IOA









TYPICAL APPLICATION - 4-LANE UNDIVIDED ROADWAY WHERE HALF OF THE ROADWAY IS CLOSED. END ROAD WORK TRUCK MOUNTED ATTEMUATOR 650-5 ROAD WORK **ON3** (F) TYPICAL APPLICATION - 4-LANE UNDIVIDED ROADWAY WITH INSIDE LANE CLOSED.

REST **OETOUR** NOTES I. REGULATORY TRAFFIC CONTROL DEVICES TO BE MODIFIED AS NEEDED FOR THE DURATION OF THE DETOUR, 2. STREET NAMES MAY BE USED WHEN DESIRABLE FOR DIRECTING DETOURED TRAFFIC.

(D) TYPICAL APPLICATION - ROADWAY CLOSED BEYOND DETOUR POINT.

NOTES: I. FLOOD LIGHTS SHOULD BE PROVIDED TO MARK FLAGGER STATIONS AT NIGHT AS NEEDED.

2. IF ENTIRE WORK AREA IS VISIBLE FROM ONE STATION, A SINGLE FLAGGER MAY BE USED.

3. CHANNELIZING DEVICES ARE TO BE EXTENDED TO A POINT WHERE THEY ARE VISIBLE TO APPROACHING TRAFFIC.

4. AUTOMATED FLAGGER ASSISTANCE DEVICE (AFAD) OPTIONAL. REFER TO MUTCD.

(E) TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES ON 2-LANE HICHWAY WHERE ONE LANE IS CLOSED AND FLAGGING IS PROVIDED.

CHANNELIZMO DEVICES SEPARATE WORK AREA FROM TRAVELED WAY

HOAD WORK END

TAPER FORMULAE

TYPICAL ADVANCE WARNING SIGN PLACEMENT

G20-I

020-2

L=SXW FOR SPEEDS OF 45MPH OR MORE.

KEY

FLAGGER POSITIVE BARRIER

ARROW PANEL (IF REGUMEO)

PRISMATIC

0.52"

DETAIL OF RAISED PAVEMENT MARKERS

CHANNELIZING DEVICE

TRAFFIC DRUM RAISEO PAVEMENT MARKER

LE WS FOR SPEEDS OF 40MPH OR LESS.

WHERE

L= MINIMUM LENGTH OF TAPER.

S. NUMERICAL VALUE OF POSTED SPEED LIMIT PRIOR TO WORK OR 85TH PERCENTILE SPEED.

W- WIDTH OF OFFSET. GENERAL MOTES

I, ADVISORY SPEED POSTED ON WI-3 OR WI-4 CURVE WARNING SIGNS TO BE DETERMINED AT SITE. USE WI-4 WHEN SPEED IS GREATER THAN 30MPH AND WI-3 WHEN 30MPH OR LESS.

THAN 30MPH AND WI-3 WHEN 30MPH OR LESS.

2. WHEN THE EXISTING SPEED LIMIT IS 55MPH AND THE PLANS REQUIRE A SPEED LIMIT OF 45MPH, THE R2-M55) SHALL BE OMITTED AND THE R2-55 SHALL BE OMITTED AND THE R2-55 SHALL BE INSTALLED AT A MAXIMUM OF IMILE INTERVALS.

AT THE END OF THE WORK AREA A R2-IXX)
SHALL BE INSTALLED TO MATCH ORIGINAL SPEED LIMIT.

3. WHEN THE EXISTING SPEED LIMIT IS 56MPH AND THE PLANS REQUIRE A SPEED LIMIT OF 55MPH, THE R2-I45S SHALL BE OMITTED. ADDITIONAL R2-I55MPH SPEED LIMIT IS 65MPH AND THE PLANS REQUIRE A SPEED LIMIT OF 55MPH, THE R2-I45S SHALL BE INSTALLED AT A MAXIMUM OF IMILE INTERVALS. AT THE END OF THE WORK AREA A R2-IXXI SHALL BE INSTALLED TO MATCH ORIGINAL SPEED LIMIT.

4. THE MAXIMUM SPACING BETWEEN CHANNELIZING DEVICES IN A TAPER SHOULD BE APPROXIMATELY EQUAL IN FEET TO THE SPEED LIMIT. BEYOND THE TAPER, MAXIMUM SPACING STALL BE TWO TIMES THE SPEED LIMIT, OR AS DRECTED BY THE ENGINEER.

5. WARNING LIGHTS AND/OR FLACS MAY BE MOUNTED TO SIGNS OR CHANNELIZING DEVICES AT NIGHT AS NEEDED.

6. PAYEMENT MARKINGS NO LONGER APPLICABLE WHICH MIGHT CREATE

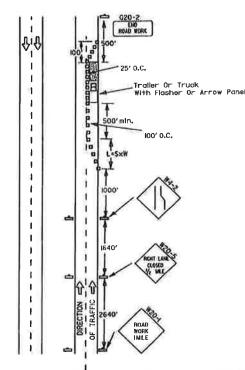
6. PAYEMENT MARKINGS NO LONGER APPLICABLE WHICH MIGHT CREATE CONFUSION IN THE MINDS OF VEHICLE OPERATORS SHALL BE

REMOVED OR OBLITERATED AS SOON AS PRACTICABLE.

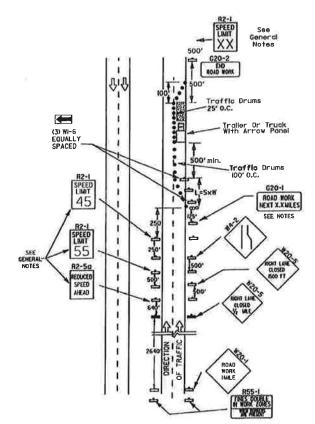
TRAILER MOUNTED DEVICES SUCH AS ARROW PANELS. AND PORTABLE CHANGEABLE MESSAGE SIGNS SHALL BE DELINEATED BY AFFIXING CONSPICUITY MATERIAL IN A CONTINUOUS LINE ON THE FACE OF THE TRAILER, WHEN PLACED ON OR ADJACENT TO THE SHOULDER AND NOT BEHIND A POSITIVE BARRIER, THESE DEVICES SHALL BE DELINEATED BY PLACING FIVE (5) TRAFFIC DRUMS, EQUALLY SPACED ALONG THE TRAFFIC SIDE OF THE DEVICE.

3-2-13	REVISED DETAIL OF HAISED PAVENENT WARRENS	
3-1-10	ADDED (AFAD)	SET IF
1-20-08	REVISED SICH DESIGNATIONS	
H-18-D4	ADDED GENERAL NOTE	
KD-18-96	ADDED R55-J	
4-26-96	CONFECTED to BEHNO 020-2	
6-8-95	CORRECTED SIGN DENT, ON IN-4A	6-8-95
2-2-95	REVISED PER PART VI, MUTCO, SEPT. 3. 1993	
8-15-91	DRAWN AND PLACED IN USE	
DATE	REVISION	FLMED

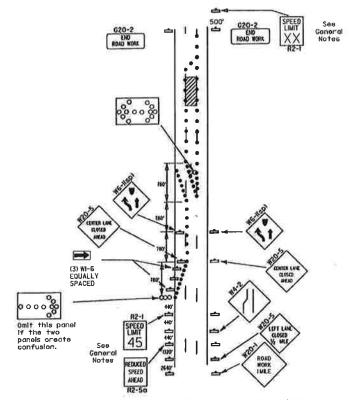
ARKANSAS STATE HIGHWAY COMMISSION STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION STANDARD DRAWING TC-2



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



Typical application - construction operations of intermediate to long term duration on a 4-lane divided roadway where half of the roadway is closed.



(B) Typical application - 3-lane oneway roadway where center lane is closed.

KEY:

OOD Arrow Panel (If Required)

- Channelizing Device
- Traffic drum

GENERAL NOTES:

- A speed limit reduction may be implemented ONLY when designated in the plan or when recommended by the Roadway Design Division.
- 2. When the existing speed limit is 55mph and the plans require a speed limit of 45mph, the R2-K55) shall be omitted and the R2-5A shall be installed at that location. Additional R2-145mph speed limit signs shall be installed at a maximum of limit intervals. At the end of the work area a R2-KXX) shall be installed to match original speed limit.
- 3. When the existing speed limit is 65mph and the plans require a speed limit of 55mph, the R2-K45) shall be omitted. Additional R2-155mph speed limit signs shall be installed at a maximum of limit intervals. At the end of the work area a R2-KXX) shall be installed to match.
- 4. The maximum spacing between channelizing devices in a taper should be approximately equalin feet to the speed limit. Beyond the taper, maximum spacing shallbe two times the speed limit or as directed by the Engineer.
- Warning lights and/or flags may be mounted to signs or channelizing devices at night as needed.
- Pavement markings no longer opplicable which might create confusion in the minds of vehicle operators shall be removed or obliterated as soon as practicable.
- 7. The G20-isign will be required on jobs of over two miles in length. When the lane clasure is not at the beginning of the project, the G20-isign shall be erected 125 in advance of the job limit. Additional W20-14 MILES signs are not required in advance of lane clasures that begin inside the project limits.
- 8. Flaggers shall use STOP/SLOW paddles for controlling traffic through work zones. Flags may be used only for emergency situations.
- 9. All plastic drums and cones shall meet the requirements of NCHRP-350 or Manual For Assessing Safety Hardware (MASH).
 10. Trailler mounted devices such as arrow panels and portable changeable message signs shall be delineated by affishing conspiculty material in a continuous line on the face of the trailer. When placed an or adjacent to the shoulder and not behind a positive barrier, these devices shall be delineated by placing five (5) traffic drums, equally spaced along the traffic side of the device.

Channelizing devices

