

BID FORM

MISSOURI DEPARTMENT OF TRANSPORTATION
GENERAL SERVICES
P.O. BOX 270
JEFFERSON CITY, MO 65102

REQUEST NO.	2-131108RW
DATE	October 24, 2013

SEALED BIDS, SUBJECT TO THE ATTACHED CONDITIONS WILL BE RECEIVED AT THIS OFFICE UNTIL

2:00 PM, Local Time, November 8, 2013

AND THEN PUBLICLY OPENED AND READ FOR FURNISHING THE FOLLOWING SUPPLIES OR SERVICES.

BIDS TO BE BASED F.O.B. MISSOURI DEPARTMENT OF TRANSPORTATION

Submit net bid as cash discount stipulations will not be considered

F.O.B. Destinations

Per District Purchase Orders

BUYER:	Robin Warren	BUYER TELEPHONE:	(573) 526-7929
BUYER EMAIL:	Robin.Warren@modot.mo.gov		

SUPPLIES

This solicitation seeks bids from qualified organizations to provide **Roll-Up Signs** throughout the state of Missouri.

(SEE ATTACHED FOR CONDITIONS AND INSTRUCTIONS)

In compliance with the above invitation for bids, and subject to all conditions thereof, the undersigned bidder agrees to furnish and deliver any or all the items on which prices were bid within 30 days after receipt of formal purchase order.

Date:	_____	Firm Name:	_____
Telephone No.:	_____	Address:	_____
Fax No.:	_____		_____
	_____	By (Signature):	_____
Email Address:	_____	Type/Print Name	_____
		Title:	_____

Is your firm MBE certified? Yes No

Is your firm WBE certified? Yes No

**MISSOURI DEPARTMENT OF TRANSPORTATION
JEFFERSON CITY, MISSOURI**

1. Introduction

- 1.1 The contractor shall provide Roll-Up Signs to the Missouri Highways and Transportation Commission (MHTC) and Missouri Department of Transportation (MoDOT) in accordance with the terms and conditions of this bid.
- 1.2 The contract period shall be from the Notice to Proceed through December 31, 2014, with the option for three (3) one-year renewal periods
 - a. Renewal Period - If MoDOT exercises the renewal option, the contractor shall agree to all terms and conditions of this bid and all subsequent amendments. The requirements for future months shall remain the same. MoDOT does not automatically grant a price increase at the time of renewal. If MoDOT grants a price increase, the renewal percentage shall be based upon the current contract value.

2. Quantities

- 2.1 There are not any estimated quantities for this bid as districts will purchase signs on an as needed basis.
- 2.2 MoDOT does not guarantee any specific quantities required from the contractor.
- 2.3 MoDOT will issue purchase orders throughout the duration of the contract on an as needed basis.

3. Delivery

- 3.1 The contractor shall deliver the specified signs to all MoDOT districts located throughout the state as identified by each purchase order.
- 3.2 All orders shall be delivered within thirty (30) calendar days of receiving a purchase order.
- 3.3 The District Engineer or their representative may issue delivery orders by phone, fax or email. Orders placed via phone will be confirmed on hard copy.
- 3.4 The contractor should notify the ordering district if they do not expect to meet the delivery requirements.

4. Specifications and Samples

- 4.1 The material shall conform to the enclosed MoDOT specification designated as MGS-04-01H and any other provisions outlined in this bid.
- 4.2 In order for your bid to be considered responsive, samples must be submitted to MoDOT for review and conformance to the specifications. Refer to section 4.0 *Qualification Sample Required at Bid of MGS-04-01M*.
- 4.3 Samples must be provided to MoDOT at no charge, will become the property of MoDOT, and will not be returned.

5. Award

- 5.1 Bids will be reviewed to determine if it complies with the mandatory requirements and to determine the lowest and responsive bid.
- 5.2 Items will be awarded on an “**All or None**” basis.
- 5.3 In the event of tie low bids, MoDOT reserves the right to establish the method used in determining the award.

**MISSOURI DEPARTMENT OF TRANSPORTATION
JEFFERSON CITY, MISSOURI**

6. Pricing

The bidder shall provide firm, fixed prices for all items listed on the Pricing Pages in Attachment A. All costs associated with providing the required deliverables/services shall be included in the prices stated below. Please refer to the specs for sign overlays. ***Pricing must be submitted on all signs.***

7. Renewals

The bidder shall provide below the maximum percentage of increase or maximum percentage of decrease for the renewal period. The percentage shall be computed against the ***current contract price*** during each renewal period. ***If a renewal percentage is not provided***, the prices during the renewal period shall be the same as during the current contract period.

1st Renewal Period _____% of maximum increase and/or _____% of maximum decrease

2nd Renewal Period _____% of maximum increase and/or _____% of maximum decrease

3rd Renewal Period _____% of maximum increase and/or _____% of maximum decrease

Company _____

Signature _____

VENDOR INFORMATION & PREFERENCE CERTIFICATION FORM

Vendor Information

All bidders must furnish ALL applicable information requested below

Vendor Name/Mailing Address: Email Address:	Vendor Contact Information (including area codes): Phone #: Cellular #: Fax #:
Printed Name of Responsible Officer or Employee:	Signature:
For Corporations - State in which incorporated:	For Others - State of domicile:

If the address listed in the Vendor Name/Mailing Address block above is not located in the State of Missouri, list the address of Missouri offices or places of business:

*If additional space is required, please attach an additional sheet and identify it as **Addresses of Missouri Offices or Places of Business.***

M/WBE INFORMATION: List all certified Minority or Women Business Enterprises (**M/WBE**) utilized in the fulfillment of this bid. Include percentages for subcontractors and identify the M/WBE certifying agency:

<u>M/WBE Name</u>	<u>Percentage of Contract</u>	<u>M/WBE Certifying Agency</u>

*If additional space is required, please attach an additional sheet and identify it as **M/WBE Information***

Preference Certification

All bidders must furnish ALL applicable information requested below

GOODS/PRODUCTS MANUFACTURED OR PRODUCED IN USA: If any or all of the goods or products offered in the attached bid which the bidder proposes to supply to the MHTC are **not** manufactured or produced in the "United States", or imported in accordance with a qualifying treaty, law, agreement, or regulation, list below, by item or item number, the country other than the United States where each good or product is manufactured or produced.

Item (or item number)	Location Where Item is Manufactured or Produced

*If additional space is required, please attach an additional sheet and identify it as **Location Products are Manufactured or Produced.***

MISSOURI SERVICE-DISABLED VETERAN BUSINESS: Please complete the following if applicable. Additional information may be requested if preference is applicable. See below definitions for qualification criteria:

Service-Disabled Veteran is defined as any individual who is disabled as certified by the appropriate federal agency responsible for the administration of veterans' affairs.

Service-Disabled Veteran Business is defined as a business concern:

- a. Not less than fifty-one (51) percent of which is owned by one or more service-disabled veterans or, in the case of any publicly owned business, not less than fifty-one (51) percent of the stock of which is owned by one or more service-disabled veterans; and
- b. The management and daily business operations of which are controlled by one or more service-disabled veterans.

Veteran Information

Business Information

Service-Disabled Veteran's Name (Please Print)

Service-Disabled Veteran Business Name

Service-Disabled Veteran's Signature

Missouri Address of Service Disabled Veteran Business

COOPERATIVE AGREEMENT NOTICE

The MoDOT is interested in assisting Missouri governmental entities, etc. in purchasing equipment, various materials, and supplies that meet the MoDOT specifications.

Each bidder is asked to indicate below whether they would be willing to offer **Roll-Up Signs** listed in the attached "Request for Bid" for sale to these local political entities at the same bid price offered to this MoDOT.

It is understood the MoDOT will not issue purchase orders, accept delivery nor make payment for these items ordered by any of these agencies. It is further understood the price is based on the **Roll-Up Signs** meeting the MoDOT specifications. Any added options, deletions, or extra freight costs would be negotiated between the local agency and the successful vendor.

Indicate below whether your company is willing to offer such cooperative purchasing for Missouri counties, cities or other political entities.

YES _____

NO _____

If the price varies throughout the state on MoDOT bids because of different delivery destinations, please indicate the price f.o.b. your location that would be offered as described.

F.O.B. Location _____

Indicate the deadline date that orders will be accepted. _____

COMPANY NAME _____

ADDRESS _____

PHONE NUMBER _____

SIGNATURE _____

TITLE _____

DATE _____

Missouri Highways and Transportation Commission
Standard Bid/Proposal Provisions, General Terms and Conditions and Special Terms and Conditions

STANDARD SOLICITATION PROVISIONS

- a. The solicitation for the procurement of the supplies referenced therein, to which these "Standard Bid Provisions, General Terms and Conditions and Special Terms and Conditions" are attached, is being issued under, and governed by, the provisions of Title 7 – Missouri Department of Transportation, Division 10 – Missouri Highways and Transportation Commission, Chapter 11 – Procurement of Supplies, of the Code of State Regulations. The Missouri Highways and Transportation Commission (**MHTC**), acting by and through its operating arm, the Missouri Department of Transportation (**MoDOT**), draws the Bidder's attention to said 7 CSR 10-11 for all the provisions governing solicitation and receipt of bids/quotes and the award of the contract pursuant to this solicitation.
- b. All bids/quotes must be signed with the firm name and by a responsible officer or employee. Obligations assumed by such signature must be fulfilled.

GENERAL TERMS AND CONDITIONS

Definitions

Capitalized terms as well as other terms used but not defined herein shall have the meaning assigned to them in section 7 CSR 10-11.010 Definition of Terms.

Nondiscrimination

- a. The Contractor shall comply with all state and federal statutes applicable to the Contractor relating to nondiscrimination, including, but not limited to, Chapter 213, RSMo; Title VI and Title VII of Civil Rights Act of 1964 as amended (42 U.S.C. Sections 2000d and 2000e, *et seq.*); and with any provision of the "Americans with Disabilities Act" (42 U.S.C. Section 12101, *et seq.*)
- b. **Sanctions for Noncompliance:** In the event of the Contractor's noncompliance with the nondiscrimination provisions of this contract, MHTC shall impose such contract sanctions as it or the Federal Highway Administration may determine to be appropriate, including, but not limited to:
 - i. withholding of payments to the Contractor under the contract until the Contractor complies, and/or,
 - ii. cancellation, termination or suspension of the contract, in whole or in part.

Contract/Purchase Order

- a. By submitting a bid/quote, the Bidder agrees to furnish any and all equipment, supplies and/or services specified in the solicitation documents, at the prices quoted, pursuant to all requirements and specifications contained therein.
- b. A binding contract shall consist of: (1) the solicitation documents, amendments thereto, and/or Best and Final Offer (BAFO) request(s) with any changes/additions, (2) the Contractor's bid response, and (3) the MHTC's acceptance of the bid by post-award contract or purchase order.
- c. A notice of award does not constitute an authorization for shipment of equipment or supplies or a directive to proceed with services. Before providing equipment, supplies and/or services, the Contractor must receive a properly authorized notice to proceed and/or purchase order.

Applicable Laws and Regulations

- a. The contract shall be construed according to the laws of the State of Missouri. The Contractor shall comply with all local, state, and federal laws and regulations related to the performance of the contract. The exclusive venue for any legal proceeding relating to or arising, out of the contract shall be in the Circuit Court of Cole County, Missouri.
- b. The Contractor must be registered and maintain good standing with the Secretary of State of the State of Missouri, Missouri Department of Revenue, and other regulatory agencies, as may be required by law or regulations. Prior to the issuance of a purchase order and/or notice to proceed, the Contractor may be required to submit to MHTC a copy of their current Authority Certificate from the Secretary of State of the State of Missouri and/or a copy of their Certificate of No Tax Due from the Missouri Department of Revenue.
- c. Prior to the issuance of a purchase order and/or notice to proceed, all **out-of-state** Contractors **providing services** within the state of Missouri must submit to MHTC a copy of their current Transient Employer Certificate from the Missouri Department of Revenue, in addition to a copy of their current Authority Certificate from the Secretary of State of the State of Missouri.

Executive Order:

The Contractor shall comply with all the provisions of Executive Order 07-13, issued by the Honorable Matt Blunt, Governor of Missouri, on the sixth (6th) day of March, 2007. This Executive Order, which promulgates the State of Missouri's position to not tolerate persons who contract with the state engaging in or supporting illegal activities of employing individuals who are not eligible to work in the United States, is incorporated herein by reference and made a part of this Agreement.

- 1) "By signing this Agreement, the Contractor hereby certifies that any employee of the Contractor assigned to perform services under the contract is eligible and authorized to work in the United States in compliance with federal law."
- 2) In the event the Contractor fails to comply with the provisions of the Executive Order 07-13, or in the event the Commission has reasonable cause to believe that the contractor has knowingly employed individuals who are not eligible to work in the United States in violation of federal law, the Commission reserves the right to impose such contract sanctions as it may determine to be appropriate, including but not limited to contract cancellation, termination or suspension in whole or in part or both.
- 3) The Contractor shall include the provisions of this paragraph in every subcontract. The Contractor shall take such action with respect to any subcontract as the Commission may direct as a means of enforcing such provisions, including sanctions for noncompliance.

Preferences

- a. In the evaluation of bids/quotes, preferences shall be applied in accordance with 7 CSR 10-11.020(7). Contractors should apply the same preferences in selecting subcontractors. The attached document entitled "**VENDOR INFORMATION AND PREFERENCE CERTIFICATION FORM**" must be completed and returned with the solicitation documents.
- b. Bidders are encouraged to obtain minority business enterprise (MBE) and women business enterprise (WBE) participation in this work through the use of subcontractors, suppliers, joint ventures, or other arrangements that afford meaningful participation for M/WBES. Bidders are encouraged to obtain 10% MBE and 5% WBE participation.

Missouri Highways and Transportation Commission
Standard Bid/Proposal Provisions, General Terms and Conditions and Special Terms and Conditions

Cancellation of Contract

The MHTC may cancel the Contract at any time for a material breach of contractual obligations or for convenience by providing Contractor with written notice of cancellation. Should the MHTC exercise its right to cancel the contract for such reasons, cancellation will become effective upon the date specified in the notice of cancellation sent to the Contractor.

Bankruptcy or Insolvency

Upon filing for any bankruptcy or insolvency proceeding by or against the Contractor, whether voluntarily, or upon the appointment of a receiver, trustee, or assignee, for the benefit of creditors, the Commission reserves the right and sole discretion to either cancel the Agreement or affirm the Agreement and hold the Contractor responsible for damages.

Warranty

The Contractor expressly warrants that all equipment, supplies, and/or services provided shall: (1) conform to each and every specification, drawing, sample or other description which was furnished to or adopted by the MHTC, (2) be fit and sufficient for the purpose expressed in the solicitation documents, (3) be merchantable, (4) be of good materials and workmanship, and (5) be free from defect.

Status of Independent Contractor

The Contractor represents itself to be an independent Contractor offering such services to the general public and shall not represent itself or its employees to be an employee of the MHTC. Therefore, the Contractor shall assume all legal and financial responsibility for taxes, FICA, employee fringe benefits, workers' compensation, employee insurance, minimum wage requirements, overtime, etc., and agrees to indemnify, save and hold the MHTC, its officers, agents and employees harmless from and against any and all losses (including attorney fees) and damage of any kind related to such matters.









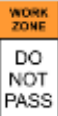



Non-Waiver

If one of the parties agrees to waive its right to enforce any term of this Contract, that party does not waive its right to enforce such term at any other time or to enforce any or all other terms of this Contract.

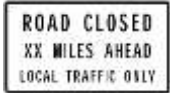









Indemnification

The Contractor shall defend, indemnify and hold harmless MHTC, including its members and department employees, from any claim or liability whether based on a claim for damages to real or personal property or to a person for any matter relating to or arising out of the Contractor's performance of its obligations under the contract awarded pursuant to this solicitation.












**Attachment A
Roll Up Sign Pricing Pages**

Sign		Overlay¹			Unit Price
Layout	Size and Color	Side a	Side b	Size² and Color	
 E5-1	36"x48" Rectangle Black on FI Orange	n/a	n/a	n/a	
 E5-2	48"x36" Rectangle Black on FI Orange	n/a	n/a	n/a	
 E5-2a	48"x36" Rectangle Black on FI Orange	n/a	n/a	n/a	
 G20-4	36"x18" Rectangle Black on FI Orange	n/a	n/a	n/a	
 R1-1	36" Octagon Red on White	n/a	n/a	n/a	
 R1-2	48" Triangle Red on White	n/a	n/a	n/a	
 R2-1	36"x48" Rectangle Black on White	4	5	15"x17" (approx.) Black on White	
		6	7	15"x17" (approx.) Black on White	
		0	n/a	15"x17" (approx.) Black on White	
 R2-1(WZ)	36"x72" Rectangle (36"x24" Black on Orange & 36"x48" Black on White)	4	5	15"x17" (approx.) Black on White	
		3	5	15"x17" (approx.) Black on White	
 R4-1	36"x72" Rectangle (36"x24" Black on Orange & 36"x48" Black on White)	n/a	n/a	n/a	
 R4-2	36"x72" Rectangle (36"x24" Black on Orange & 36"x48" Black on White)	n/a	n/a	n/a	
 R10-6	36"x48" Rectangle Black on White	n/a	n/a	n/a	
 R11-2	48"x30" Rectangle Black on White	n/a	n/a	n/a	























**Attachment A
Roll Up Sign Pricing Pages**

Sign		Overlay¹			Unit Price
Layout	Size and Color	Side a	Side b	Size² and Color	
 R11-3a	60"x30" Rectangle Black on White	1	6	3"x5" (approx.) Black on White	
		2	7		
		3	8		
		4	9		
		5	0		
 R11-4	60"x30" Rectangle Black on White	n/a	n/a	n/a	
 W1-4L	48" Diamond Black on FI Orange	n/a	n/a	n/a	
 W1-4R	48" Diamond Black on FI Orange	n/a	n/a	n/a	
 W3-1	48" Diamond Black on FI Orange w/ Red on White symbol	n/a	n/a	n/a	
 W3-2	48" Diamond Black on FI Orange w/ Red on White symbol	n/a	n/a	n/a	
 W3-3	48" Diamond Black, Red, Yellow, and Green on FI Orange	n/a	n/a	n/a	
 W3-4	48" Diamond Black on FI Orange	n/a	n/a	n/a	
 W3-4(IM)	48" Diamond Black on FI Pink	n/a	n/a	n/a	
 W3-5	48" Diamond Black on FI Orange w/ Black on White symbol	4	5	9"x11" (approx.) Black on White	
		0	6	9"x11" (approx.) Black on White	




















**Attachment A
Roll Up Sign Pricing Pages**

Sign		Overlay¹			Unit Price
Layout	Size and Color	Side a	Side b	Size² and Color	
 W4-1R	48" Diamond Black on FI Orange	n/a	n/a	n/a	
 W5-1	48" Diamond Black on FI Orange	RAMP	BRIDGE	27"x10" (approx.) Black on FI Orange	
 W8-1	48" Diamond Black on FI Orange	n/a	n/a	n/a	
 W8-2	48" Diamond Black on FI Orange	n/a	n/a	n/a	
 W8-7	36" Diamond Black on FI Orange	n/a	n/a	n/a	
 W8-12	48" Diamond Black on FI Orange	n/a	n/a	n/a	
 W20-1	48" Diamond Black on FI Orange	RAMP	BRIDGE	27"x10" (approx.) Black on FI Orange	
 W20-2	48" Diamond Black on FI Orange	n/a	n/a	n/a	
 W20-2(IM)	48" Diamond Black on FI Pink	n/a	n/a	n/a	
 W20-3	48" Diamond Black on FI Orange	RAMP	BRIDGE	27"x10" (approx.) Black on FI Orange	
		500 FT	1000 FT	29"x9" (approx.) Black on FI Orange	
 W20-4	48" Diamond Black on FI Orange	n/a	n/a	n/a	










Attachment A Roll Up Sign Pricing Pages

Sign		Overlay ¹			Unit Price
Layout	Size and Color	Side a	Side b	Size ² and Color	
 W20-5	48" Diamond Black on FI Orange			40"x8" (approx.) Black on FI Orange	
 W20-5(IM)	48" Diamond Black on FI Pink			40"x8" (approx.) Black on FI Pink	
 W20-5a	48" Diamond Black on FI Orange	 	 	20"x8" (approx.) Black on FI Orange	
 W20-7	48" Diamond Black on FI Orange	n/a	n/a	n/a	
 W21-2	36" Diamond Black on FI Orange	n/a	n/a	n/a	
 W21-6	48" Diamond Black on FI Orange	n/a	n/a	n/a	
 MoDOT	60"x48" Rectangle (60"x12" Black on Orange & 60"x36" Black on White)		n/a	56"x12" (approx.) Black on White	
 MoDOT	48"x36" Rectangle (48"x12" Black on Orange & 48"x24" Black on White)	n/a	n/a	n/a	
 MoDOT	48" Diamond Black on FI Orange		n/a	24"x12" (approx.) Black on FI Orange	
 MoDOT	48" Diamond Black on FI Pink		n/a	24"x12" (approx.) Black on FI Pink	
 MoDOT	36" Diamond Black on FI Orange	n/a	n/a	n/a	

**Attachment A
Roll Up Sign Pricing Pages**

Sign		Overlay¹			Unit Price
Layout	Size and Color	Side a	Side b	Size² and Color	
 W8-15	48" Diamond Black on FI Orange	n/a	n/a	n/a	
 MoDOT	48" Diamond Black on FI Orange	n/a	n/a	n/a	
 W8-24	48" Diamond Black on FI Orange	n/a	n/a	n/a	
 MoDOT	48" Diamond Black on FI Orange	n/a	n/a	n/a	
 MoDOT	42"x30" Rectangle Black on FI Orange	n/a	n/a	n/a	
 MoDOT	48" Diamond Black on FI Orange	 	 	28"x10" (approx.) Black on FI Orange	
 MoDOT	48" Diamond Black on FI Orange			28"x10" (approx.) Black on FI Orange	
 MoDOT(IM)	48" Diamond Black on FI Pink			28"x10" (approx.) Black on FI Pink	
 MoDOT	48" Diamond Black on FI Orange	n/a	n/a	n/a	
 MoDOT(IM)	48" Diamond Black on FI Pink	n/a	n/a	n/a	
 MoDOT(IM)	48" Diamond Black on FI Pink	n/a	n/a	n/a	

**Attachment A
Roll Up Sign Pricing Pages**

Sign		Overlay¹			Unit Price
Layout	Size and Color	Side a	Side b	Size² and Color	
 MoDOT	48" Diamond Black on FI Orange	n/a	n/a	n/a	
 MoDOT	48" Diamond Black on FI Orange	n/a	n/a	n/a	
 MoDOT	48" Diamond Black on FI Orange	n/a	n/a	n/a	
 MoDOT	48" Diamond Black on FI Orange	n/a	n/a	n/a	
 MoDOT	48" Diamond Black on FI Orange	n/a	n/a	n/a	
 MoDOT (LE)	48" Diamond Black on FI Orange	n/a	n/a	n/a	
 MoDOT (LE)	48" Diamond Black on FI Orange	n/a	n/a	n/a	
 R3-1	36"x36" Red on White	n/a	n/a	n/a	
 R3-2	36"x36" Red on White	n/a	n/a	n/a	
	Flag System				



ROLL-UP SIGNS (MGS-04-01M)

1.0 DESCRIPTION. This specification covers roll-up signs to be used in temporary traffic control zones.

2.0 MATERIAL.

2.1 SIGNS AND OVERLAYS.













2.1.1 SUBSTRATES. Sign and overlay blanks shall consist of microprismatic, retroreflective sheeting, in colors specified, sealed to a heavy-duty coated fabric or vinyl material of like or neutral color. Sheeting shall be UV stabilized to meet weathering requirements of ASTM G 23 or G 26, shall have a minimum coefficient of retroreflection specified below when measured in accordance with ASTM E 810, and shall meet the applicable color specification below. Heat resistance and impact resistance of the sheeting shall be in accordance with the latest version of ASTM D 4956.

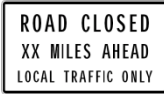









Minimum Coefficient of Retroreflection (R_A) at 90 Degree Rotation Angle (cd/fc/ft ²)					
Observation Angle (degree)	Entrance Angle (degree)	Color			
		Fluorescent Pink	Fluorescent Orange	White	Yellow
0.2	-4	135	200	250	170
0.2	+30	60	100	95	64
0.5	-4	60	80	200	136
0.5	+30	25	30	60	40












Color Specification Limits (daytime)									
Color	1		2		3		4		Min. Luminance Factor (Y%)
	x	Y	x	y	x	y	x	y	
Fluorescent Pink	.590	.350	.644	.290	.497	.209	.400	.335	25
Fluorescent Orange	.562	.348	.506	.404	.570	.429	.645	.355	14
White	.303	.300	.368	.366	.340	.393	.274	.329	30
Yellow	.498	.412	.557	.442	.479	.520	.438	.472	24






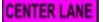









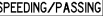






The four pairs of chromaticity coordinates determine the acceptable color in terms of the CIE 1931 Standard Colorimetric System measured with CIE Standard Illuminant D65.












2.1.2 DESIGN AND LAYOUT. Signs and overlays shall be of the color and size specified below. Sign and overlay borders, legends (size and copy), and symbols, as applicable, shall conform to the latest editions of the *Manual on Uniform Traffic Control Devices* and the *Standard Highway Signs* book and shall be silk-screened onto the face of the sign. Ink used in production of the signs and overlays shall conform to industry color standards and shall be compatible with the sheeting and shall not crack, peel, split, or delaminate from the sheeting for the useful life of the sign. For ease of sign identification when stored, the legend, or worded description for symbol signs, shall be printed near the bottom corner of the sign, between the border and the edge of each sign, or on a tag securely affixed to the bottom corner of the sign.


<u>Layout</u>	<u>Sign</u> <u>Size and Color</u>	<u>Overlay¹</u>		
		<u>Side a</u>	<u>Side b</u>	<u>Size² and Color</u>
 E5-1	36"x48" Rectangle Black on FI Orange	n/a	n/a	n/a
 E5-2	48"x36" Rectangle Black on FI Orange	n/a	n/a	n/a
 E5-2a	48"x36" Rectangle Black on FI Orange	n/a	n/a	n/a
 G20-4	36"x18" Rectangle Black on FI Orange	n/a	n/a	n/a
 R1-1	36" Octagon Red on White	n/a	n/a	n/a
 R1-2	48" Triangle Red on White	n/a	n/a	n/a
 R2-1	36"x48" Rectangle Black on White	4	5	15"x17" (approx.) Black on White
		6	7	15"x17" (approx.) Black on White
		0	n/a	15"x17" (approx.) Black on White
 R2-1(WZ)	36"x72" Rectangle (36"x24" Black on Orange & 36"x48" Black on White)	4	5	15"x17" (approx.) Black on White
		3	5	15"x17" (approx.) Black on White
 R4-1	36"x72" Rectangle (36"x24" Black on Orange & 36"x48" Black on White)	n/a	n/a	n/a
 R4-2	36"x72" Rectangle (36"x24" Black on Orange & 36"x48" Black on White)	n/a	n/a	n/a
 R10-6	36"x48" Rectangle Black on White	n/a	n/a	n/a
 R11-2	48"x30" Rectangle Black on White	n/a	n/a	n/a

Sign		Overlay¹		
Layout	Size and Color	Side a	Side b	Size² and Color
 R11-3a	60"x30" Rectangle Black on White	1	6	3"x5" (approx.) Black on White
		2	7	
		3	8	
		4	9	
		5	0	
 R11-4	60"x30" Rectangle Black on White	n/a	n/a	n/a
 W1-4L	48" Diamond Black on FI Orange	n/a	n/a	n/a
 W1-4R	48" Diamond Black on FI Orange	n/a	n/a	n/a
 W3-1	48" Diamond Black on FI Orange w/ Red on White symbol	n/a	n/a	n/a
 W3-2	48" Diamond Black on FI Orange w/ Red on White symbol	n/a	n/a	n/a
 W3-3	48" Diamond Black, Red, Yellow, and Green on FI Orange	n/a	n/a	n/a
 W3-4	48" Diamond Black on FI Orange	n/a	n/a	n/a
 W3-4(IM)	48" Diamond Black on FI Pink	n/a	n/a	n/a
 W3-5	48" Diamond Black on FI Orange w/ Black on White symbol	4	5	9"x11" (approx.) Black on White
		0	6	9"x11" (approx.) Black on White

Sign		Overlay¹		
Layout	Size and Color	Side a	Side b	Size² and Color
 W4-1R	48" Diamond Black on FI Orange	n/a	n/a	n/a
 W5-1	48" Diamond Black on FI Orange	RAMP	BRIDGE	27"x10" (approx.) Black on FI Orange
 W8-1	48" Diamond Black on FI Orange	n/a	n/a	n/a
 W8-2	48" Diamond Black on FI Orange	n/a	n/a	n/a
 W8-7	36" Diamond Black on FI Orange	n/a	n/a	n/a
 W8-12	48" Diamond Black on FI Orange	n/a	n/a	n/a
 W20-1	48" Diamond Black on FI Orange	RAMP	BRIDGE	27"x10" (approx.) Black on FI Orange
 W20-2	48" Diamond Black on FI Orange	n/a	n/a	n/a
 W20-2(IM)	48" Diamond Black on FI Pink	n/a	n/a	n/a
 W20-3	48" Diamond Black on FI Orange	RAMP	BRIDGE	27"x10" (approx.) Black on FI Orange
		500 FT.	1000 FT.	29"x9" (approx.) Black on FI Orange
 W20-4	48" Diamond Black on FI Orange	n/a	n/a	n/a

Layout	Sign Size and Color	Overlay ¹		
		Side a	Side b	Size ² and Color
 W20-5	48" Diamond Black on FI Orange			40"x8" (approx.) Black on FI Orange
 W20-5(IM)	48" Diamond Black on FI Pink			40"x8" (approx.) Black on FI Pink
 W20-5a	48" Diamond Black on FI Orange	 	 	20"x8" (approx.) Black on FI Orange
 W20-7	48" Diamond Black on FI Orange	n/a	n/a	n/a
 W21-2	36" Diamond Black on FI Orange	n/a	n/a	n/a
 W21-6	48" Diamond Black on FI Orange	n/a	n/a	n/a
 MoDOT	60"x48" Rectangle (60"x12" Black on Orange & 60"x36" Black on White)		n/a	56"x12" (approx.) Black on White
 MoDOT	48"x36" Rectangle (48"x12" Black on Orange & 48"x24" Black on White)	n/a	n/a	n/a
 MoDOT	48" Diamond Black on FI Orange		n/a	24"x12" (approx.) Black on FI Orange
 MoDOT	48" Diamond Black on FI Pink		n/a	24"x12" (approx.) Black on FI Pink
 MoDOT	36" Diamond Black on FI Orange	n/a	n/a	n/a

Sign		Overlay¹		
Layout	Size and Color	Side a	Side b	Size² and Color
 W8-15	48" Diamond Black on FI Orange	n/a	n/a	n/a
 MoDOT	48" Diamond Black on FI Orange	n/a	n/a	n/a
 W8-24	48" Diamond Black on FI Orange	n/a	n/a	n/a
 MoDOT	48" Diamond Black on FI Orange	n/a	n/a	n/a
 MoDOT	42"x30" Rectangle Black on FI Orange	n/a	n/a	n/a
 MoDOT	48" Diamond Black on FI Orange	LEFT LANES	CENTER LANES	28"x10" (approx.) Black on FI Orange
		3	4	
 MoDOT	48" Diamond Black on FI Orange	LEFT	CENTER	28"x10" (approx.) Black on FI Orange
 MoDOT(IM)	48" Diamond Black on FI Pink	LEFT	CENTER	28"x10" (approx.) Black on FI Pink
 MoDOT	48" Diamond Black on FI Orange	n/a	n/a	n/a
 MoDOT(IM)	48" Diamond Black on FI Pink	n/a	n/a	n/a
 MoDOT(IM)	48" Diamond Black on FI Pink	n/a	n/a	n/a

<u>Layout</u>	<u>Sign</u> <u>Size and Color</u>	<u>Overlay¹</u>		
		<u>Side a</u>	<u>Side b</u>	<u>Size² and Color</u>
 MoDOT	48" Diamond Black on FI Orange	n/a	n/a	n/a
 MoDOT	48" Diamond Black on FI Orange	n/a	n/a	n/a
 MoDOT	48" Diamond Black on FI Orange	n/a	n/a	n/a
 MoDOT	48" Diamond Black on FI Orange	n/a	n/a	n/a
 MoDOT	48" Diamond Black on FI Orange	n/a	n/a	n/a
 MoDOT (LE)	48" Diamond Black on FI Orange	n/a	n/a	n/a
 MoDOT (LE)	48" Diamond Black on FI Orange	n/a	n/a	n/a
 R3-1	36"x36" Red on White	n/a	n/a	n/a
 R3-2	36"x36" Red on White	n/a	n/a	n/a

(1) Overlay packages are supplied as part of the associated sign.

(2) Overlay size is approximate. The manufacturer shall ensure actual size provides enough area for the specified overlay legend or symbol, accommodates a buffer space for the overlay attachments, and completely covers the appropriate sign legend or symbol while not obscuring any sign border or relevant legend or symbol.

Note: The signs with the designated notes of (IM) and (LE) are recommended use for incident management and law enforcement, respectively.



2.1.3 OVERLAY ATTACHMENTS. For signs with overlays, a minimum 3/4-inch wide hook-and-loop material of color similar to the sign and overlay substrates they are placed on shall be used to display the overlay on the sign. The hook portion shall be placed along the length of the top and bottom of those sides opposite the sheeted sides of the overlay. The loop portion shall be placed on the face of the sign in the same dimensions used for the hook portion on the overlay and located on the sign face to display the overlay in its intended position. Each portion shall be securely affixed to the sign and overlay with a weather-resistant stitching material.

2.1.4 BRACING POCKETS. To facilitate attachment of the sign bracing to the sign, a pocket shall be provided on the back of the sign at each horizontal, vertical, and diagonal rib terminus, except those short horizontal ribs added for use with universal sign holders as described in Sec 2.2.2. Each pocket shall be positioned to ensure the sign remains taught and maintains its intended shape when the rib is engaged in the pocket and shall be securely attached to the sign with at least two appropriate-sized, semi-hollow, truss-head, zinc-plated steel rivets with washers. Fabric and sliding pockets, as well as plastic pockets with one of the two rivets exposed at the top of the pocket, are not acceptable.

2.1.5 ANTI-KITING DEVICE. A strap consisting of 1-inch wide hook-and-loop material securely affixed back-to-back shall be permanently attached near the center of the back of the sign to allow the user to prevent the sign from billowing away from the sign bracing. The manufacturer may submit alternative designs for department consideration.

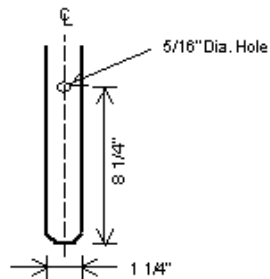
2.1.6 STORAGE DEVICE. A strap consisting of 1-inch wide hook-and-loop material securely affixed back-to-back shall be permanently attached to the sign to allow the user to store the roll-up sign easily. The manufacturer may submit alternative designs for department consideration.

2.2 SIGN BRACING.

2.2.1 SUPPORT RIBS. Sign bracing shall be constructed of UV stabilized, bloom- and splinter-resistant, fiberglass ribs conforming to the thickness and width dimensions specified below. Lengths shall be sufficient to ensure the sign remains taught and maintains its intended shape when the rib is engaged in the pocket. Rib ends shall be shaped or otherwise treated to prevent splintering, sharp edges, and damage to the sign face.

	Thickness	Width
Horizontal Ribs	3/16"	1-1/4"
Diagonal Ribs	1/4"	1-1/4"
Vertical Ribs	5/16"	1-1/4"

2.2.2 CONFIGURATION AND DESIGN. Diamond-shaped signs shall have one full vertical and one full horizontal rib. All other signs shall have a bracing configuration designed to present the intended sign shape and shall include a horizontally-centered, full vertical and a horizontal rib. The horizontal rib may extend the width of the sign or be designed for use with universal sign holders. All vertical ribs shall have one 5/16-inch diameter hole drilled as shown below.



2.2.3 RIB CONNECTIONS. All ribs shall be fastened together, typically at the intersection of the midpoint of their length and width, with a bolt or rivet combination designed for ease of roll-up sign storage and to minimize damage to the sign material. Bolt combinations shall consist of a zinc-plated steel 1/4-inch slotted-, phillips-, or hex-head bolt, washers, and an all-metal, self-locking nut. Rivet combinations shall consist of a 1/4-inch diameter, semi-hollow, truss-head, zinc-plated steel rivet and washers. Blind or hollow type rivets are not acceptable. Washers shall consist of a zinc-plated 1/4-inch I.D. x 1-inch O.D. x 1/16-inch flat washer located between the fastener pieces and the ribs and between each of the ribs and, if applicable, a zinc-plated 1/4-inch split-ring, lock washer located under the head of the rivet.

2.2.4 SUPPORT STRAP. A strap shall be permanently attached to the upper and lower portions of the vertical rib to allow the user to secure the roll-up sign to a sign support. One end of each strap shall consist of a 1-1/4 inch long (approx.) x 1-inch wide strap with a plastic or metal D-ring secured to the end. The other end of each strap shall consist of a 7-inch long (approx.) x 1-inch wide strap of hook-and-loop material arranged so the strap adheres to itself when fed through the D-ring. The manufacturer may submit alternative designs for department consideration.

3.0 FLAG SYSTEM. Flag systems, when specified, shall consist of a flag bracket and two flag assemblies and constructed as a single attached unit. Each flag assembly shall consist of an 18"x18" orange, vinyl flag securely attached on one side to a fiberglass blank. The blank shall be securely attached to the flag bracket with the flag "hanging" from the rod, be of sufficient cross-section to display the flag in wind speeds up to 50 mph, and be of sufficient length to hold the flags approximately six inches from the sign. The flag bracket shall be attached to the flag assemblies as a single system. The flag bracket shall display the flags at approximately 90 degrees from each other and be easily installed and removed from the upper portion of the vertical rib. All hardware needed to attach the single flag system to the vertical rib shall be included in the bid. The overall design of the flag system shall fold down to enable the storage of the entire system with the sign without removing the system from the sign or moving the bracket.

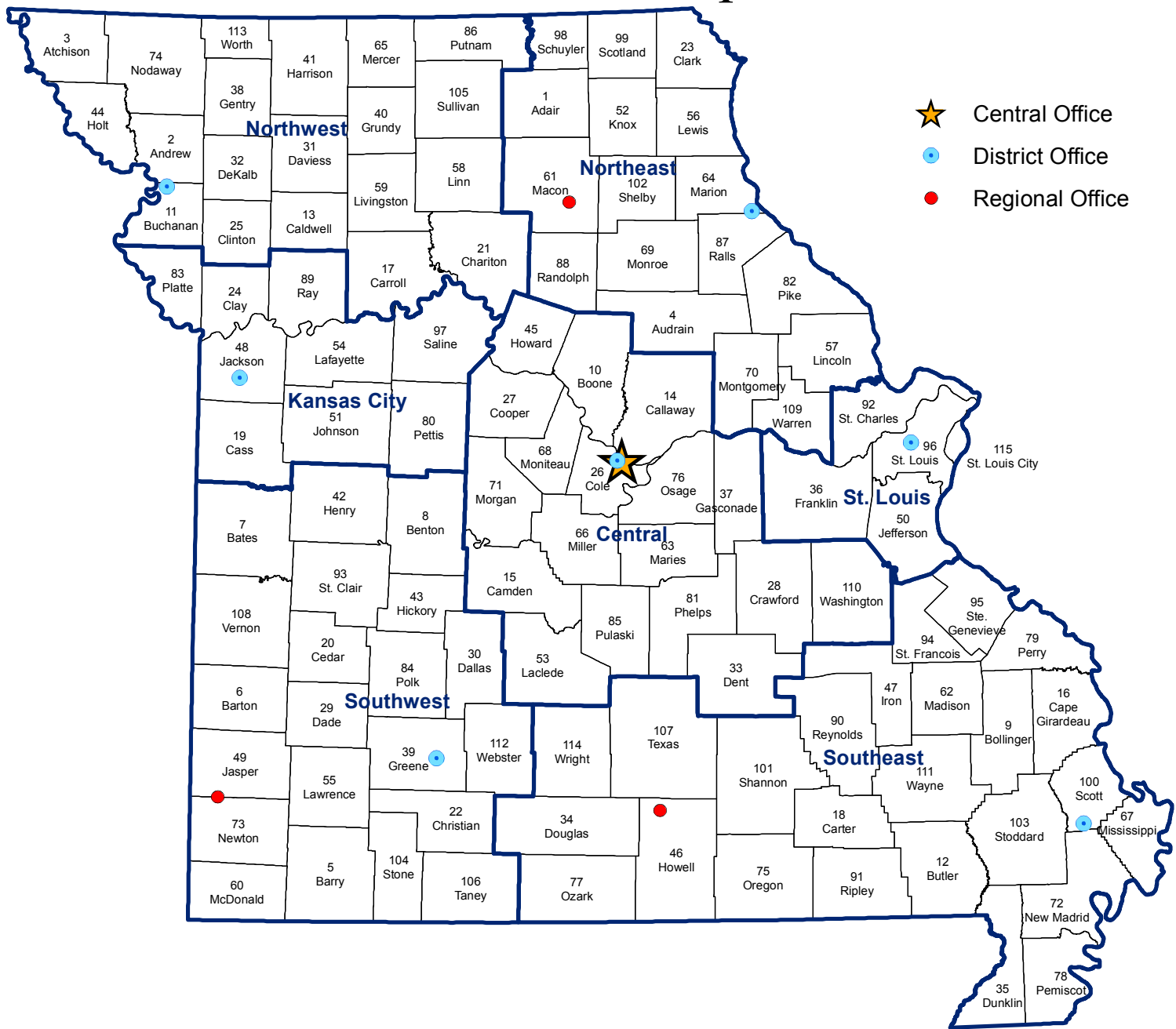
4.0 QUALIFICATION SAMPLE REQUIRED AT BID. The manufacturer shall submit a diamond-shaped and rectangular-shaped roll-up sign, complete with overlays, bracing, and flag system, meeting this specification and a 12"x12" sample of each substrate type to be used in the production of the roll-up signs with their bid to be considered responsive. Samples will be inspected by the department for conformance to this specification and will be considered, in addition to the bid prices, in the determination of contract award.



5.0 CERTIFICATION. The manufacturer awarded the contract shall provide certification with each shipment of roll-up signs that the roll-up signs supplied conform to the accepted samples.

6.0 ACCEPTANCE. Acceptance of roll-up signs will be by certification and any tests deemed necessary by the department to ensure the signs are in accordance with this specification.

Missouri Department of Transportation District Map



County	No. Dist.	County	No. Dist.	County	No. Dist.	County	No. Dist.	County	No. Dist.	County	No. Dist.						
Adair	1	NE	Chariton	21	NW	Harrison	41	NW	Macon	61	NE	Phelps	81	C	Shannon	101	SE
Andrew	2	NW	Christian	22	SW	Henry	42	SW	Madison	62	SE	Pike	82	NE	Shelby	102	NE
Atchison	3	NW	Clark	23	NE	Hickory	43	SW	Maries	63	C	Platte	83	KC	Stoddard	103	SE
Audrian	4	NE	Clay	24	KC	Holt	44	NW	Marion	64	NE	Polk	84	SW	Stone	104	SW
Barry	5	SW	Clinton	25	NW	Howard	45	C	Mercer	65	NW	Pulaski	85	C	Sullivan	105	NW
Barton	6	SW	Cole	26	C	Howell	46	SE	Miller	66	C	Putnam	86	NW	Taney	106	SW
Bates	7	SW	Cooper	27	C	Iron	47	SE	Mississippi	67	SE	Ralls	87	NE	Texas	107	SE
Benton	8	SW	Crawford	28	C	Jackson	48	KC	Moniteau	68	C	Randolph	88	NE	Vernon	108	SW
Bollinger	9	SE	Dade	29	SW	Jasper	49	SW	Monroe	69	NE	Ray	89	KC	Warren	109	NE
Boone	10	C	Dallas	30	SW	Jefferson	50	SL	Montgomery	70	NE	Reynolds	90	SE	Washington	110	C
Buchanan	11	NW	Davies	31	NW	Johnson	51	KC	Morgan	71	C	Ripley	91	SE	Wayne	111	SE
Butler	12	SE	Dekalb	32	NW	Knox	52	NE	New Madrid	72	SE	St. Charles	92	SL	Webster	112	SW
Caldwell	13	NW	Dent	33	C	Laclede	53	C	Newton	73	SW	St. Clair	93	SW	Worth	113	NW
Callaway	14	C	Douglas	34	SE	Lafayette	54	KC	Nodaway	74	NW	St. Francois	94	SE	Wright	114	SE
Camden	15	C	Dunklin	35	SE	Lawrence	55	SW	Oregon	75	SE	Ste. Genevieve	95	SE	St. Louis City	115	SL
Cape Girardeau	16	SE	Franklin	36	SL	Lewis	56	NE	Ozark	76	C	St. Louis	96	SL			
Carroll	17	NW	Gasconade	37	C	Lincoln	57	NE	Pemiscot	77	SE	Saline	97	KC			
Carter	18	SE	Gentry	38	NW	Linn	58	NW	Perry	78	SE	Schuyler	98	NE			
Cass	19	KC	Greene	39	SW	Livingston	59	NW	Stoddard	100	SE	Scotland	99	NE			
Cedar	20	SW	Grundy	40	NW	McDonald	60	SW	Pettis	80	KC	Scott	100	SE			

