



State of West Virginia
 Department of Administration
 Purchasing Division
 2019 Washington Street East
 Post Office Box 50130
 Charleston, WV 25305-0130

Request for Quotation

RFQ NUMBER
RSHEET10

PAGE
1

ADDRESS CORRESPONDENCE TO ATTENTION OF:
JO ANN ADKINS 304-558-8802

RFQ COPY
 TYPE NAME/ADDRESS HERE

VENDOR

SHIP TO

ALL STATE AGENCIES
 AND POLITICAL SUBDIVISIONS
 VARIOUS LOCALES AS INDICATED
 BY ORDER

DATE PRINTED	TERMS OF SALE	SHIP VIA	FOB	FREIGHT TERMS
07/29/2010				

BID OPENING DATE: **08/26/2010** BID OPENING TIME **01:30PM**

LINE	QUANTITY	UOP	CAT. NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
0001	1	EA		550-44		
<p>REFLECTIVE SHEETING</p> <p>REQUEST FOR QUOTATION</p> <p>THE PURCHASING DIVISION IS SOLICITING BIDS FOR A BLANKET OPEN-END STATEWIDE CONTRACT FOR ALL WEST VIRGINIA STATE AGENCIES AND POLITICAL SUBDIVISIONS FOR REFLECTIVE SHEETING, ASSOCIATED TAPES, INKS AND FILMS.</p> <p>INQUIRIES</p> <p>WRITTEN QUESTIONS SHALL BE ACCEPTED THROUGH CLOSE OF BUSINESS ON THURSDAY, AUGUST 12, 2010. QUESTIONS MAY BE SENT VIA USPS, FAX, COURIER OR EMAIL. IN ORDER TO ASSURE NO VENDOR RECEIVES AN UNFAIR ADVANTAGE, NO SUBSTANTIVE QUESTIONS WILL BE ANSWERED ORALLY. IF POSSIBLE, E-MAIL QUESTIONS ARE PREFERRED. ADDRESS INQUIRIES TO:</p> <p>JO ANN ADKINS DEPARTMENT OF ADMINISTRATION PURCHASING DIVISION 2019 WASHINGTON STREET, EAST CHARLESTON, WV 25305 FAX: 304-558-4115 EMAIL: JO.A.ADKINS@WV.GOV</p> <p>ATTACHMENTS:</p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE	TELEPHONE	DATE
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GENERAL TERMS & CONDITIONS
REQUEST FOR QUOTATION (RFQ) AND REQUEST FOR PROPOSAL (RFP)

1. Awards will be made in the best interest of the State of West Virginia.
2. The State may accept or reject in part, or in whole, any bid.
3. Prior to any award, the apparent successful vendor must be properly registered with the Purchasing Division and have paid the required \$125 fee.
4. All services performed or goods delivered under State Purchase Order/Contracts are to be continued for the term of the Purchase Order/Contracts, contingent upon funds being appropriated by the Legislature or otherwise being made available. In the event funds are not appropriated or otherwise available for these services or goods this Purchase Order/Contract becomes void and of no effect after June 30.
5. Payment may only be made after the delivery and acceptance of goods or services.
6. Interest may be paid for late payment in accordance with the *West Virginia Code*.
7. Vendor preference will be granted upon written request in accordance with the *West Virginia Code*.
8. The State of West Virginia is exempt from federal and state taxes and will not pay or reimburse such taxes.
9. The Director of Purchasing may cancel any Purchase Order/Contract upon 30 days written notice to the seller.
10. The laws of the State of West Virginia and the *Legislative Rules* of the Purchasing Division shall govern the purchasing process.
11. Any reference to automatic renewal is hereby deleted. The Contract may be renewed only upon mutual written agreement of the parties.
12. **BANKRUPTCY:** In the event the vendor/contractor files for bankruptcy protection, the State may deem this contract null and void, and terminate such contract without further order.
13. **HIPAA BUSINESS ASSOCIATE ADDENDUM:** The West Virginia State Government HIPAA Business Associate Addendum (BAA), approved by the Attorney General, is available online at www.state.wv.us/admin/purchase/vrc/hipaa.htm and is hereby made part of the agreement. Provided that the Agency meets the definition of a Cover Entity (45 CFR §160.103) and will be disclosing Protected Health Information (45 CFR §160.103) to the vendor.
14. **CONFIDENTIALITY:** The vendor agrees that he or she will not disclose to anyone, directly or indirectly, any such personally identifiable information or other confidential information gained from the agency, unless the individual who is the subject of the information consents to the disclosure in writing or the disclosure is made pursuant to the agency's policies, procedures, and rules. Vendor further agrees to comply with the Confidentiality Policies and Information Security Accountability Requirements, set forth in <http://www.state.wv.us/admin/purchase/privacy/noticeConfidentiality.pdf>.
15. **LICENSING:** Vendors must be licensed and in good standing in accordance with any and all state and local laws and requirements by any state or local agency of West Virginia, including, but not limited to, the West Virginia Secretary of State's Office, the West Virginia Tax Department, and the West Virginia Insurance Commission. The vendor must provide all necessary releases to obtain information to enable the director or spending unit to verify that the vendor is licensed and in good standing with the above entities.
16. **ANTITRUST:** In submitting a bid to any agency for the State of West Virginia, the bidder offers and agrees that if the bid is accepted the bidder will convey, sell, assign or transfer to the State of West Virginia all rights, title and interest in and to all causes of action it may now or hereafter acquire under the antitrust laws of the United States and the State of West Virginia for price fixing and/or unreasonable restraints of trade relating to the particular commodities or services purchased or acquired by the State of West Virginia. Such assignment shall be made and become effective at the time the purchasing agency tenders the initial payment to the bidder.

I certify that this bid is made without prior understanding, agreement, or connection with any corporation, firm, limited liability company, partnership, or person or entity submitting a bid for the same material, supplies, equipment or services and is in all respects fair and without collusion or Fraud. I further certify that I am authorized to sign the certification on behalf of the bidder or this bid.

INSTRUCTIONS TO BIDDERS

1. Use the quotation forms provided by the Purchasing Division. Complete all sections of the quotation form.
2. Items offered must be in compliance with the specifications. Any deviation from the specifications must be clearly indicated by the bidder. Alternates offered by the bidder as **EQUAL** to the specifications must be clearly defined. A bidder offering an alternate should attach complete specifications and literature to the bid. The Purchasing Division may waive minor deviations to specifications.
3. Unit prices shall prevail in case of discrepancy. All quotations are considered F.O.B. destination unless alternate shipping terms are clearly identified in the quotation.
4. All quotations must be delivered by the bidder to the office listed below prior to the date and time of the bid opening. Failure of the bidder to deliver the quotations on time will result in bid disqualifications: Department of Administration, Purchasing Division, 2019 Washington Street East, P.O. Box 50130, Charleston, WV 25305-0130
5. Communication during the solicitation, bid, evaluation or award periods, except through the Purchasing Division, is strictly prohibited (W.Va. C.S.R. §148-1-6.6).



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LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
				RSHEET10 SPECIFICATIONS DATED 07/2010 (36 PAGES) PRICING PAGES (18 PAGES) AFFIDAVIT RESIDENT VENDOR PREFERENCE EXHIBIT 3 LIFE OF CONTRACT: THIS CONTRACT BECOMES EFFECTIVE ON AND EXTENDS FOR A PERIOD OF ONE (1) YEAR OR UNTIL SUCH "REASONABLE TIME" THEREAFTER AS IS NECESSARY TO OBTAIN A NEW CONTRACT OR RENEW THE ORIGINAL CONTRACT. THE "REASONABLE TIME" PERIOD SHALL NOT EXCEED TWELVE (12) MONTHS. DURING THIS "REASONABLE TIME" THE VENDOR MAY TERMINATE THIS CONTRACT FOR ANY REASON UPON GIVING THE DIRECTOR OF PURCHASING 30 DAYS WRITTEN NOTICE. UNLESS SPECIFIC PROVISIONS ARE STIPULATED ELSEWHERE IN THIS CONTRACT DOCUMENT, THE TERMS, CONDITIONS AND PRICING SET HEREIN ARE FIRM FOR THE LIFE OF THE CONTRACT. RENEWAL: THIS CONTRACT MAY BE RENEWED UPON THE MUTUAL WRITTEN CONSENT OF THE SPENDING UNIT AND VENDOR, SUBMITTED TO THE DIRECTOR OF PURCHASING THIRTY (30) DAYS PRIOR TO THE EXPIRATION DATE. SUCH RENEWAL SHALL BE IN ACCORDANCE WITH THE TERMS AND CONDITIONS OF THE ORIGINAL CONTRACT AND SHALL BE LIMITED TO TWO (2) ONE (1) YEAR PERIODS. CANCELLATION: THE DIRECTOR OF PURCHASING RESERVES THE RIGHT TO CANCEL THIS CONTRACT IMMEDIATELY UPON WRITTEN NOTICE TO THE VENDOR IF THE COMMODITIES AND/OR SERVICES SUPPLIED ARE OF AN INFERIOR QUALITY OR DO NOT CONFORM TO THE SPECIFICATIONS OF THE BID AND CONTRACT HEREIN.		

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<p>OPEN MARKET CLAUSE: THE DIRECTOR OF PURCHASING MAY AUTHORIZE A SPENDING UNIT TO PURCHASE ON THE OPEN MARKET, WITHOUT THE FILING OF A REQUISITION OR COST ESTIMATE, ITEMS SPECIFIED ON THIS CONTRACT FOR IMMEDIATE DELIVERY IN EMERGENCIES DUE TO UNFORESEEN CAUSES (INCLUDING BUT NOT LIMITED TO DELAYS IN TRANSPORTATION OR AN UNANTICIPATED INCREASE IN THE VOLUME OF WORK.)</p> <p>QUANTITIES: QUANTITIES LISTED IN THE REQUISITION ARE APPROXIMATIONS ONLY, BASED ON ESTIMATES SUPPLIED BY THE STATE SPENDING UNIT. IT IS UNDERSTOOD AND AGREED THAT THE CONTRACT SHALL COVER THE QUANTITIES ACTUALLY ORDERED FOR DELIVERY DURING THE TERM OF THE CONTRACT, WHETHER MORE OR LESS THAN THE QUANTITIES SHOWN.</p> <p>ORDERING PROCEDURE: SPENDING UNIT(S) SHALL ISSUE A WRITTEN STATE CONTRACT ORDER (FORM NUMBER WV-39) TO THE VENDOR FOR COMMODITIES COVERED BY THIS CONTRACT. THE ORIGINAL COPY OF THE WV-39 SHALL BE MAILED TO THE VENDOR AS AUTHORIZATION FOR SHIPMENT, A SECOND COPY MAILED TO THE PURCHASING DIVISION, AND A THIRD COPY RETAINED BY THE SPENDING UNIT.</p> <p>BANKRUPTCY: IN THE EVENT THE VENDOR/CONTRACTOR FILES FOR BANKRUPTCY PROTECTION, THIS CONTRACT IS AUTOMATICALLY NULL AND VOID, AND IS TERMINATED WITHOUT FURTHER ORDER.</p> <p>THE TERMS AND CONDITIONS CONTAINED IN THIS CONTRACT SHALL SUPERSEDE ANY AND ALL SUBSEQUENT TERMS AND CONDITIONS WHICH MAY APPEAR ON ANY ATTACHED PRINTED DOCUMENTS SUCH AS PRICE LISTS, ORDER FORMS, SALES AGREEMENTS OR MAINTENANCE AGREEMENTS, INCLUDING ANY ELECTRONIC MEDIUM SUCH AS CD-ROM.</p>						

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<p>REV. 04/11/2001</p> <p>EXHIBIT 10</p> <p>REQUISITION NO.:</p> <p>ADDENDUM ACKNOWLEDGEMENT</p> <p>I HEREBY ACKNOWLEDGE RECEIPT OF THE FOLLOWING CHECKED ADDENDUM(S) AND HAVE MADE THE NECESSARY REVISIONS TO MY PROPOSAL, PLANS AND/OR SPECIFICATION, ETC.</p> <p>ADDENDUM NO.'S:</p> <p>NO. 1</p> <p>NO. 2</p> <p>NO. 3</p> <p>NO. 4</p> <p>NO. 5</p> <p>I UNDERSTAND THAT FAILURE TO CONFIRM THE RECEIPT OF THE ADDENDUM(S) MAY BE CAUSE FOR REJECTION OF BIDS.</p> <p>VENDOR MUST CLEARLY UNDERSTAND THAT ANY VERBAL REPRESENTATION MADE OR ASSUMED TO BE MADE DURING ANY ORAL DISCUSSION HELD BETWEEN VENDOR'S REPRESENTATIVES AND ANY STATE PERSONNEL IS NOT BINDING. ONLY THE INFORMATION ISSUED IN WRITING AND ADDED TO THE SPECIFICATIONS BY AN OFFICIAL ADDENDUM IS BINDING.</p>						

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BID OPENING DATE: **08/26/2010** BID OPENING TIME **01:30PM**

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
			 SIGNATURE		
			 COMPANY		
			 DATE		
NOTE: THIS ADDENDUM ACKNOWLEDGEMENT SHOULD BE SUBMITTED WITH THE BID.						
REV. 09/21/2009						
TO CONTACT YOU REGARDING YOUR BID:						

CONTACT PERSON (PLEASE PRINT CLEARLY):						

***** THIS IS THE END OF RFQ RSHEET10 ***** TOTAL:						_____

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SCOPE OF CONTRACT

The purpose of this Contract shall be to provide retroreflective sign sheeting, and associated tapes, inks, and films to various state agencies.

SPECIFICATIONS-GENERAL

Sheetings, inks, and films to be considered for award as part of this Contract must, as a minimum, be included on the Division's current Approved Products listing (APL) for Retroreflective Sign Sheetings as of the advertisement date of this Contract, the requirements of which are as follows:

- Completion of three (3) years of outdoor weathering testing in the AASHTO NTPEP Outdoor Reflective Sheeting Performance Testing Program, with the exception Type ASTM-I sheetings (two (2) year NTPEP testing required) and fluorescent-orange sheetings (one (1) year testing required).
- Evaluation and approval by the WVDOH, by means determined to be necessary in addition to the NTPEP program, to be in conformance with additional ASTM requirements, performance requirements, durability requirements, and manufacturing requirements specific to the state agencies utilizing material from this Contract.

Note, in addition to the above APL requirement, all materials must also have been previously evaluated and approved, prior to the advertising date of this Contract, by the WVDOH to be in conformance with applicable manufacturing equipment and manufacturing process requirements of the WVDOH, as needed. The APL includes materials approved for both WVDOH and Contractor use, as well as materials approved for Contractor use only (these materials are noted on the APL as not being approved for use for production within the WVDOH Sign Shop). Specific manufacturing requirements are typically not a critical consideration in regards to approving materials for use by Contractors. Therefore, the inclusion of a specific material on the WVDOH APL alone shall not be misinterpreted as constituting the sole requirement for a product to be awarded as part of this Contract.

To best serve the motorist, the attached retroreflective sheeting (hereinafter called sheeting) specifications require different "levels" of reflectivity and angularity. These include: ASTM Types I, III, IX, and XI sheetings, all of which are defined in this contract.

ASTM Types I, III, IX, and XI sheetings are required to be part of a "matched component system" that ensures the compatibility of inks and overlay films that are used with the sheeting and eliminates conflicts in regards to responsibility regarding performance warranties, as specified herein. The manufacturer's inks (for Types III, IX, and XI sheetings only), transparent EC films, and opaque EC Films must all be approved for use in manufacturing at the WVDOH Central Sign Shop in order for consideration to be given by the DOH for award of Bid Item Sections II, III, and V.

Note, specific requirements in regards to roll widths are included on the Bid Item listing. Where no specific requirements are shown, the manufacturer's standard width tolerances shall apply.

Technical Assistance: The successful bidder shall be able to provide technical assistance for the service of application equipment and the instruction and training of State personnel. This shall include, but not be limited to, calibration and trouble shooting of application equipment, training films, material application, screen-printing, packaging, storage, and the proper use and handling of inks.

Electrocut Films for use on Retroreflective Sheeting: Highly durable, transparent, acrylic, pressure sensitive colored film. Shall be as recommended by the sheeting manufacturer as part of the "matched component system". Shall in no way diminish warranties stated herein.

Transfer Tape for use with Electrocut Films: Transparent, low-tack, pressure sensitive, reusable tape used to transfer weeded legends and symbols in the manufacturing of highway signs. Shall be as recommended by the sheeting manufacturer.

Opaque electronic cuttable graphic films: Highly durable, opaque, cast vinyl, pressure sensitive colored film. Shall be as recommended by the sheeting manufacturer as part of the "matched component system". Shall in no way diminish warranties stated herein.

Certification submittal: Certifications will be required for all sheeting ordered as part of this Contract. Certifications are to be received within ten (10) calendar days after receipt of material. Any change in formulation of the material must be submitted in writing to the WVDOH. The WVDOH will then determine if these changes will require retesting or additional testing of the material and if they comply with these specifications.

Delivery Schedule: All deliveries shall be provided F.O.B. to the State's designated point of delivery (Charleston, WV or 60 miles from Charleston's boundary). The first expected delivery of material shall be not later than thirty (30) days following official notification of contract award and initial order. All subsequent deliveries shall be F.O.B. destination within fifteen (15) days after receipt of order.

Liquidated Damages: Deliveries not completed in a timely manner may, at the purchasing agencies discretion, be subject to liquidated damages as set forth in section 108.7 of the current edition of "Standard Specifications Roads and Bridges". See table 108.7.1. Daily charges shall be based on the total monetary value of the order. Daily charges shall not be lessened, delayed, or suspended based on partial receipt of the order.

TYPE ASTM-I REFLECTIVE SHEETING - SPECIFICATIONS

General: The reflective sheeting shall have sufficient strength so that it can be handled, processed, and applied according to the recommendations of the sheeting manufacturer without appreciable stretching, tearing, or other damage. The sheeting shall permit cutting and color processing with compatible transparent and opaque process inks at temperatures of 60 to 100 F and relative humidity at 20 to 80 percent. The sheeting shall be heat resistant and permit force curing without staining of applied or unapplied sheeting at temperatures as recommended by the manufacturer.

Construction: The reflective sheeting shall consist of optical lens elements incorporated within a transparent weatherproof film having a smooth, flat outer surface.

Coefficient of Retroreflection: The reflective sheeting shall have minimum reflective intensity values 0.2 degrees and 0.5 degrees, observation angle, as shown in I below, expressed as candle power per foot candle per square foot (candelas per lux per square meter) of material.

TABLE I							
Observation Angle	Entrance Angle	White	Yellow	Green	Red	Blue	Brown
0.2	-4	70	50	9	14	4	1
0.2	+30	30	22	3.5	6	1.7	0.3
0.5	-4	30	25	4.5	7.5	2	0.3
0.5	+30	15	13	2.2	3	0.8	0.2
Measurements shall be made per ASTM D4956.							

Daytime Color: The daytime color chromaticity coordinates for CIE standard illuminant D65 and the 1931 CIE 2° standard observer shall be in accordance with Table II below when tested in accordance with ASTM D4956.

Color	1		2		3		4	
	x	y	x	y	x	y	x	y
White	0.303	0.300	0.368	0.366	0.340	0.393	0.274	0.329
Yellow	0.498	0.412	0.557	0.442	0.479	0.520	0.438	0.472
Green	0.026	0.399	0.166	0.364	0.286	0.446	0.207	0.771
Red	0.648	0.351	0.735	0.265	0.629	0.281	0.565	0.346
Blue	0.140	0.035	0.244	0.210	0.190	0.255	0.065	0.216
Brown	0.430	0.340	0.610	0.390	0.550	0.450	0.430	0.390
Fluorescent- Yellow- Green	0.387	0.610	0.369	0.546	0.428	0.496	0.460	0.540
Fluorescent- Yellow	0.479	0.520	0.446	0.483	0.512	0.421	0.557	0.442
Fluorescent- Orange	0.583	0.416	0.535	0.400	0.595	0.351	0.645	0.355

The saturation limit of green and blue may extend to the border of the CIE chromaticity locus for spectral colors.
The corresponding values above shall also apply to screen printed or transparent overlay film areas on white sheeting.

Daytime Luminance Factor: The daytime luminance factor Y (%) for CIE standard illuminant D65 and the 1931 CIE 2° standard observer shall be in accordance with Table III below when tested in accordance with ASTM D4956.

Color	Unmetalized Material		Metalized Material	
	Min.	Max.	Min.	Max.
White	27	-	15	-
Yellow	15	45	12	30
Green	3	12	2.5	11
Red	2.5	15	2.5	11
Blue	1	10	1	10
Brown	1	9	1	9

Adhesive: The adhesive shall be a Class 1 adhesive, as defined by ASTM D4956. The adhesive backing shall be pressure sensitive, require no heat, solvent, or other preparation for adhesion to smooth, clean surfaces. Additional adhesive coats on either the reflective sheeting or application surface shall not be necessary. When tested in accordance with ASTM D4956, the adhesive backing of the sheeting shall produce a bond that will support a 13/4-lb (0.79-kg) weight for 5 min, without the bond peeling for a distance of more than 2 in.

Shrinkage: The sheeting shall not shrink in any dimension more than 1/32 in. in 10 min or more than 1/8 in. in 24 h when tested in accordance with ASTM D4956.

Flexibility: The sheeting shall be sufficiently flexible to show no cracking when tested in accordance with ASTM D4956.

Liner Removal: The liner shall be easily removed without soaking in water or other solutions, and shall not break, tear, or remove adhesive from the sheeting. The liner shall be easily removed after accelerated storage as described in ASTM D4956.

Impact Resistance: The sheeting shall show no cracking or delaminating outside of the actual area of impact when subjected to the impact test in accordance with ASTM D4956.

Nighttime Color: The nighttime color chromaticity coordinates for CIE standard illuminant A, 0.33 degree observation angle, +5 degree entrance angle, source and receiver apertures not to exceed 10 minutes of arc, and the 1931 CIE 2° standard observer shall be in accordance with Table IV below when tested in accordance with ASTM D4956

TABLE IV								
Color	1		2		3		4	
	x	y	x	y	x	y	x	y
White	No Requirement							
Yellow	0.650	0.348	0.620	0.348	0.712	0.255	0.735	0.265
Green	0.033	0.370	0.180	0.370	0.230	0.240	0.091	0.133
Red	0.513	0.487	0.500	0.470	0.545	0.425	0.572	0.425
Blue	0.595	0.405	0.540	0.405	0.570	0.365	0.643	0.355
Brown	0.007	0.570	0.200	0.500	0.322	0.590	0.193	0.782
Fluorescent- Yellow- Green	0.625	0.375	0.589	0.376	0.636	0.330	0.669	0.331
Fluorescent- Yellow	0.554	0.445	0.526	0.437	0.569	0.394	0.610	0.390
Fluorescent- Orange	0.480	0.520	0.473	0.490	0.523	0.440	0.550	0.449
The saturation limit shall be considered to extend to the border of the CIE chromaticity locus for spectral colors. The corresponding values above shall also apply to screen printed or EC film transparent colored areas on white sheeting								

Durability: The sheeting shall be weather resistant and show no appreciable cracking, scaling, pitting, blistering, edge lifting, or curling, or more than 1/32-in. shrinkage or expansion when subjected to accelerated outdoor weathering in accordance with ASTM D4956.

The material shall maintain a minimum retroreflectivity level of 50% of the values shown in Table I when tested at 0.2° observation and -4° and +30° entrance angles for a period of seven (7) years after field installation.

Type ASTM-I Sheeting Approval and Matched Component Requirements: In addition to the manufacturer's sheeting material to be supplied, each of the manufacturer recommended matched component products listed within Bid Item Section II shall be approved by the WVDOH, as indicated on the WVDOH APL, in order for the particular manufacturer's material to be considered for award under Bid Item Section II.

GENERAL CHARACTERISTICS AND PACKAGING: The reflective sheeting as supplied shall be of good appearance free from ragged edges, cracks, and extraneous materials, and shall be furnished in both rolls and sheets as may be specified. The average number of splices shall not be more than three per 50 yards of material with a maximum of four splices per 50 yard length and splices shall be suitable for continuous application as supplied.

Rolls shall be packed snugly in corrugated fiberboard boxes in such a manner that no damage or defacement may occur to the reflective sheeting during shipment or storage.

Cut sheets shall be packaged flat between pressed composition board or corrugated pads of the same dimension as the sheets to prevent damage or defacement during shipment or storage.

Stored under normal conditions, the reflective sheeting shall be suitable for use for a period of at least one year.

TYPE ASTM- III REFLECTIVE SHEETING – SPECIFICATIONS

General: The reflective sheeting shall have sufficient strength so that it can be handled, processed, and applied according to the recommendations of the sheeting manufacturer without appreciable stretching, tearing, or other damage. The sheeting shall permit cutting and color processing with compatible transparent and opaque process inks at temperatures of 60 to 100 F and relative humidity at 20 to 80 percent. The sheeting shall be heat resistant and permit force curing without staining of applied or unapplied sheeting at temperatures as recommended by the manufacturer.

Construction: The sheeting shall be a high-intensity encapsulated glass-bead retroreflective material or unmetallized microprismatic retroreflective element material with a transparent, weatherproof topcoat having a smooth outer surface. The sheeting shall have a pre-coated adhesive backing protected by a removable liner.

Coefficient of Retroreflection: The sheeting shall have minimum reflective intensity values 0.2 degrees and 0.5 degrees, observation angle, as shown in Table V below, expressed as candle power per foot candle per square foot (candelas per lux per square meter) of material.

Table V							
Observation Angle	Entrance Angle	White	Yellow	Green	Red	Blue	Brown
0.2	-4	250	170	45	45	20	12
0.2	+30	150	100	25	25	11	8.5
0.5	-4	95	62	15	15	7.5	5
0.5	+30	65	45	10	10	5	3.5

measurements shall be made per ASTM D4956. The values of 0° and 90° rotation are averaged to determine conformance.

For screen printed transparent colored areas on white sheeting, the coefficient of retroreflection shall not be less than as follows:

Observation Angle	Entrance Angle	Yellow	Green	Red	Blue	Brown
0.2	-4	119	32	32	14	8.4
0.2	+30	70	18	18	7.5	6.0
0.5	-4	43	11	11	5.0	3.5
0.5	+30	32	7.0	7.0	3.5	2.5

measurements shall be made per ASTM D4956. The values of 0° and 90° rotation are averaged to determine conformance.

For E.C. film applied transparent colored areas on white sheeting, the coefficient of retroreflection shall fall within the following range expressed as a % value of the coefficient of retroreflection of the base (white) retroreflective material :

Transparent Color	Min.	Max.
Green	13%	20%
Blue	6.5%	20%
Red	14%	24%
Yellow	60%	80%
Brown	5%	NA

measurements shall be made per ASTM D4956. measurements shall be made at 0.2° observation angle, -4° entrance angle, and 0° rotation.

Daytime Color: The daytime color chromaticity coordinates for CIE standard illuminant D65 and the 1931 CIE 2° standard observer shall be in accordance with Table II when tested in accordance with ASTM D4956.

Daytime Luminance Factor: The daytime luminance factor Y (%) for CIE standard illuminant D65 and the 1931 CIE 2° standard observer shall be in accordance with Table III when tested in accordance with ASTM D4956.

Adhesive: The adhesive shall be a Class 1 adhesive, as defined by ASTM D4956. The adhesive backing shall be pressure sensitive, require no heat, solvent, or other preparation for adhesion to smooth, clean surfaces. Additional adhesive coats on either the reflective sheeting or application surface shall not be necessary. When tested in accordance with ASTM D4956, the adhesive backing of the sheeting shall produce a bond that will support a 1-3/4 lb weight for 5 min, without the bond peeling for a distance of more than 2 in.

Shrinkage: The sheeting shall not shrink in any dimension more than 1/32 in. in 10 min or more than 1/8 in. in 24 h when tested in accordance with ASTM D4956.

Flexibility: The sheeting shall be sufficiently flexible to show no cracking when tested in accordance with ASTM D4956.

Liner Removal: The liner shall be easily removed without soaking in water or other solutions, and shall not break, tear, or remove adhesive from the sheeting. The liner shall be easily removed after accelerated storage as described in ASTM D4956.

Impact Resistance: The sheeting shall show no cracking or delaminating outside of the actual area of impact when subjected to the impact test in accordance with ASTM D4956.

Nighttime Color: The nighttime color chromaticity coordinates for CIE standard illuminant A, 0.33 degree observation angle, +5 degree entrance angle, source and receiver apertures not to exceed 10 minutes of arc, and the 1931 CIE 2° standard observer shall be in accordance with Table IV when tested in accordance with ASTM D4956.

Durability: The sheeting shall be weather resistant and show no appreciable cracking, scaling, pitting, blistering, edge lifting, or curling, or more than 1/32-in. shrinkage or expansion when tested in accordance with ASTM D4956.

The material shall maintain the levels of retroreflectivity indicated in Table VI below for a period of twelve (12) years after installation.

TABLE VI

Age: 0 years through 7 years:

Observation Angle	Entrance Angle	White	Yellow	Green	Red	Blue	Brown
0.2	-4	200	136	36	36	16	9.5
0.2	+30	140	108	24	24	8.5	6.5
0.5	-4	76	49	12	12	6	4
0.5	+30	56	48	9.5	9.5	4	2.5

Measurements shall be made per ASTM D4956 after sign cleaning. The values of 0° and 90° rotation are averaged to determine conformance. For screen printed and transparent overlay film areas on white sheeting, the coefficients of retroreflection shall not be less than 70% of the values for the corresponding color in the above table.

Age: 7 years through 12 years:

Observation Angle	Entrance Angle	White	Yellow	Green	Red	Blue	Brown
0.2	-4	175	119	31	31	14	8
0.2	+30	122	94	21	21	7.5	5.5
0.5	-4	66	43	10	10	5	3.5
0.5	+30	49	42	8	8	3.5	2

Measurements shall be made per ASTM D4956 after sign cleaning. The values of 0° and 90° rotation are averaged to determine conformance. For screen printed and transparent overlay film areas on white sheeting, the coefficients of retroreflection shall not be less than 70% of the values for the corresponding color in the above table.

Type ASTM-III Sheeting Approval and Matched Component Requirements: In addition to the manufacturer's sheeting material to be supplied, each of the manufacturer recommended matched component products listed within Bid Item Section III, as well as the manufacturer recommended matched component opaque and transparent inks, shall be approved by the WVDOT, as indicated on the WVDOT APL, in order for the particular manufacturer's material to be considered for award under Bid Item Section III. Matched component approval shall not be required for consideration of award of Bid Item Section IV.

MANUFACTURER'S FIELD PERFORMANCE OBLIGATION: The reflective sheeting processed, applied to sign blank materials, and cleaned in accordance with manufacturer's recommendations, shall perform effectively for the number of years stated in Table VI. The retroreflective sheeting will be considered unsatisfactory if it has deteriorated due to natural causes to the extent that: (1) the sign is ineffective for its intended purpose when viewed from a moving vehicle under normal day and night driving conditions; or (2) the coefficient of retroreflection is less than the minimum specified for that sheeting during that period listed in Table VI.

Where it can be shown that the performance requirements of sheeting supplied and used according to the manufacturer's recommendations have not been met, the manufacturer shall cover the sign costs as follows for sheeting shown to be unsatisfactory during:

- The First Seven Years: The sheeting manufacturer will cover the cost of restoring the sign panel to its original effectiveness at no cost to the agency for materials or labor.
- Years 8 thru 10: The sheeting manufacturer will replace the sheeting required to restore the sign panel to its original effectiveness.
- Years 11 thru 12: The sheeting manufacturer will replace fifty percent of the sheeting required to restore the sign panel to its original effectiveness.

PROCESS INKS: Manufacturer recommended matched component inks shall be provided at no additional cost based on the following:

- Transparent Inks: 1 Gal. per 1200 sq. ft of sheeting (colors will be specified on order), or
- Black Ink: 1 Gal. per 2400 sq. ft. of sheeting

Ink supplied will be either transparent or black as specified on order.

Ink supplied will be rounded up to the next whole gallon.

All inks shall include a UV inhibitor.

Failure of the manufacturer's recommended matched component inks to properly perform on the sheeting, whether supplied by the manufacturer or the WV Division of Highways, will constitute a failure of the sheeting and replacement will be made as outlined herein.

SLIP SHEETING: Slip sheeting compatible with the reflective sheeting and inks shall be provided in rolls equal to the amount and size of reflective sheeting ordered at no additional cost.

WASHERS: Nylon washers shall be provided at no additional cost at the rate of 1000 washers per 3500 SF of sheeting ordered. Washers shall measure 5/16" (I.D.) x 7/8" (O.D.) x 1/16" thick, and shall be manufactured from commercial grade nylon. Total quantity of washers supplied shall be determined by rounding the total square footage of sheeting ordered up or down to the nearest multiple of 3500. For inventory purposes, washers shall be supplied in individual packages of 1000 ea.

GENERAL CHARACTERISTICS AND PACKAGING: The reflective sheeting as supplied shall be free from ragged edges, cracks, and extraneous materials and shall be furnished in both rolls and sheets. The average number of splices shall not be more than three per 50 yard roll with a maximum of four per 50 yard of material and splices shall be suitable for continuous application as supplied.

Rolls shall be packaged in corrugated fiberboard boxes in such a manner that no damage or defacement may occur to the reflective sheeting during shipment or storage.

Cut sheets shall be packaged flat between pressed composition boards or corrugated pads of the same dimensions as the sheets and shall be so packed as to prevent damage or defacement during shipment or storage.

The reflective sheeting as supplied and stored under normal conditions shall be suitable for use for at least one year after purchase.

TYPE ASTM- IX REFLECTIVE SHEETING – SPECIFICATIONS

General: The reflective sheeting shall have sufficient strength so that it can be handled, processed, and applied according to the recommendations of the sheeting manufacturer without appreciable stretching, tearing, or other damage. The sheeting shall permit cutting and color processing with compatible transparent and opaque process inks at temperatures of 60 to 100 F and relative humidity at 20 to 80 percent. The sheeting shall be heat resistant and permit force curing without staining of applied or unapplied sheeting at temperatures as recommended by the manufacturer.

Construction: The sheeting shall be a very-high-intensity unmetallized microprismatic retroreflective element material with a transparent, weatherproof topcoat having a smooth outer surface. The sheeting shall have a pre-coated adhesive backing protected by a removable liner.

Coefficient of Retroreflection: The sheeting shall have minimum reflective intensity values 0.2 degrees, 0.5 degrees, and 1.0 degrees observation angle, as shown in Table VII below, expressed as candle power per foot candle per square foot (candelas per lux per square meter) of material.

TABLE VII

Observation Angle	Entrance Angle	White	Green	Red	Blue	Fluorescent Yellow-Green	Fluorescent Yellow	Fluorescent Orange
0.2	-4	380	38	76	17	300	230	115
0.2	+30	215	22	43	10	170	130	65
0.5	-4	240	24	48	11	190	145	72
0.5	+30	135	14	27	6	110	81	41
1.0	-4	80	8	16	3.6	64	48	24
1.0	+30	45	4.5	9	2	36	27	14

measurements shall be made per ASTM D4956. The values of 0° and 90° rotation are averaged to determine conformance.

For screen printed transparent colored areas on white sheeting, the coefficient of retroreflection shall not be less than as follows:

Observation Angle	Entrance Angle	Green	Red	Blue
0.2	-4	27	53	12
0.2	+30	15	30	7.0
0.5	-4	17	34	7.5
0.5	+30	10	19	4.0
1.0	-4	5.5	11	2.5
1.0	+30	3.0	6.0	1.0

measurements shall be made per ASTM D4956. The values of 0° and 90° rotation are averaged to determine conformance.

For E.C. film applied transparent colored areas on white sheeting, the coefficient of retroreflection shall fall within the following range expressed as a % value of the coefficient of retroreflection of the base (white) retroreflective material :

Transparent Color	Min.	Max.
Green	13%	20%
Blue	6.5%	20%
Red	14%	24%

measurements shall be made per ASTM D4956. measurements shall be made at 0.2° observation angle, -4° entrance angle, and 0° rotation.

Daytime Color: The daytime color chromaticity coordinates for CIE standard illuminant D65 and the 1931 CIE 2° standard observer shall be in accordance with Table II when tested in accordance with ASTM D4956.

Daytime Luminance Factor: The daytime luminance factor Y (%) for CIE standard illuminant D65 and the 1931 CIE 2° standard observer shall be in accordance with Table III for non-fluorescent colors when tested in accordance with ASTM D4956.

High Conspicuity and Fluorescence Luminance Factor: The high conspicuity luminance factor Y (%) and fluorescence luminance factor Yf (%) for CIE standard illuminant D65 and the 1931 CIE 2° standard observer shall be in accordance with Table VIII below for fluorescent colors when tested in accordance with ASTM D4956.

TABLE VIII				
Color	Y (%)		Yf (%)	
	min	max	min	max
Fluorescent-Orange	25	—	20	—
Fluorescent-Yellow	45	—	25	—
Fluorescent-Yellow-Green	60	—	35	—

Adhesive: The adhesive shall be a Class 1 adhesive, as defined by ASTM D4956. The adhesive backing shall be pressure sensitive, require no heat, solvent, or other preparation for adhesion to smooth, clean surfaces. Additional adhesive coats on either the reflective sheeting or application surface shall not be necessary. When tested in accordance with ASTM D4956, the adhesive backing of the sheeting shall produce a bond that will support a 1-3/4 lb weight for 5 min, without the bond peeling for a distance of more than 2 in.

Shrinkage: The sheeting shall not shrink in any dimension more than 1/32 in. in 10 min or more than 1/8 in. in 24 h when tested in accordance with ASTM D4956.

Flexibility: The sheeting shall be sufficiently flexible to show no cracking when tested in accordance with ASTM D4956.

Liner Removal: The liner shall be easily removed without soaking in water or other solutions, and shall not break, tear, or remove adhesive from the sheeting. The liner shall be easily removed after accelerated storage as described in ASTM D4956.

Impact Resistance: The sheeting shall show no cracking or delaminating outside of the actual area of impact when subjected to the impact test in accordance with ASTM D4956.

Heat Resistance (fluorescent yellow and fluorescent yellow-green): Apply sheeting to standard panel and condition. Measure coefficients of retroreflection for all test geometries. Expose panel in an air circulating oven at 160 +/- 5°F (71 +/- 3°C) for a period of 24 hours. Re-condition after exposure and re-measure at all test geometries. Requirement - Coefficients of retroreflection measured after exposure shall be between 85% and 115% of the values measured before exposure.

Heat Resistance (fluorescent orange): Apply sheeting to a standard panel and condition. Measure coefficient of retroreflection at 0.2° observation and -4° entrance angles. Expose panel in circulating oven at 160 +/- 5°F (71 +/- 3°C) for a period of 24 hours. Recondition after exposure and re-measure. Coefficient of retro reflection measured after exposure shall be between 80% and 120% of original tested value at 0.2° observation and -4° entrance angles

Durability: The sheeting shall be weather resistant and show no appreciable cracking, scaling, pitting, blistering, edge lifting, or curling, or more than 1/32-in. (0.8-mm) shrinkage or expansion when tested in accordance with ASTM D4956.

Non-fluorescent materials shall maintain the levels of retroreflectivity indicated in Table IX below for a period of twelve (12) years after installation.

Fluorescent yellow and fluorescent yellow green materials shall maintain the levels of retroreflectivity indicated in Table IX below for a period of ten (10) years after installation.

Fluorescent orange materials shall maintain the levels of retroreflectivity indicated in Table IX below for a period of three (3) years after initial use.

The sheeting daytime and nighttime color chromaticity coordinates for non-fluorescent sheetings shall be in accordance with Tables II and IV for a period of twelve (12) years after installation. The preceding color requirements shall apply to screen printed or transparent overlay film areas on white sheeting as well.

The sheeting daytime and nighttime color chromaticity coordinates for fluorescent sheetings, excluding fluorescent orange, shall be in accordance with Tables II and IV for a period of ten (10) years after installation.

The sheeting daytime and nighttime color chromaticity coordinates for fluorescent orange sheeting shall be in accordance with Tables II and IV for a period of three (3) years after initial use.

The sheeting daytime luminance factor Y(%) for CIE standard illuminant D65 and the 1931 CIE 2° standard observer for non-fluorescent material shall be in accordance with Table III for a period of twelve (12) years after installation.

The sheeting high conspicuity luminance factor Y(%) and fluorescent luminance factor Yf(%) for CIE standard illuminant D65 and the 1931 CIE 2° standard observer shall be in accordance with Table X below for a period of ten (10) years after installation for fluorescent-yellow and fluorescent-yellow-green material, and for a period of three (3) years after initial use for fluorescent-orange material.

TABLE IX

Non-Fluorescent colors: Age 0 years through 7 years:

Observation Angle	Entrance Angle	White	Green	Red	Blue
0.2	-4	304	30	61	14
0.2	+30	172	18	34	8.0
0.5	-4	192	19	38	8.5
0.5	+30	108	11	22	4.5
1.0	-4	64	6.0	13	2.5
1.0	+30	36	3.5	7.0	1.5

measurements shall be made per ASTM D4956 after sign cleaning. The values of 0° and 90° rotation are averaged to determine conformance. For screenprinted and E.C film applied transparent colored areas on white sheeting, the coefficients of retroreflection shall not be less than 70% of the values for the corresponding color in the above table.

Non-Fluorescent colors: Age 7 years through 12 years:

Observation Angle	Entrance Angle	White	Green	Red	Blue
0.2	-4	266	27	53	12
0.2	+30	151	15	30	7.0
0.5	-4	168	17	34	7.5
0.5	+30	95	10	19	4.0
1.0	-4	56	5.5	11	2.5
1.0	+30	32	3.0	6.0	1.0

measurements shall be made per ASTM D4956 after sign cleaning. The values of 0° and 90° rotation are averaged to determine conformance. For screenprinted and E.C film applied transparent colored areas on white sheeting, the coefficients of retroreflection shall not be less than 70% of the values for the corresponding color in the above table.

Fluorescent yellow and yellow-green colors: Age 0 years through 10 years:

Color	Observation Angle	Ra
Fluorescent Yellow	0.2	165
	1	30
Fluorescent Yellow-Green	0.2	225
	1	45

measurements shall be made at -4 entrance angle. measurements shall be made per ASTM D4956 after sign cleaning. The values of 0° and 90° rotation are averaged to determine conformance.

Fluorescent orange: Age 0 years through 3 years:

Color	Observation Angle	Ra
Fluorescent Orange	0.2	125

measurements shall be made at -4 entrance angle. measurements shall be made per ASTM D4956 after sign cleaning. The values of 0° and 90° rotation are averaged to determine conformance.

TABLE X				
Color	Y (%)		Yf (%)	
	min	max	min	max
Fluorescent-Orange	25	--	15	--
Fluorescent-Yellow	45	--	20	--
Fluorescent-Yellow-Green	60	--	20	--

Type ASTM-IX Sheeting Approval and Matched Component Requirements: In addition to the manufacturer's sheeting material to be supplied, each of the manufacturer recommended matched component products listed within Bid Item Section V, as well as the manufacturer recommended matched component opaque and transparent inks, shall be approved by the WVDOT, as indicated on the WVDOT APL, in order for the particular manufacturer's material to be considered for award under Bid Item Section V. Matched component approval shall not be required for consideration of award of Bid Item Section VI.

MANUFACTURER'S FIELD PERFORMANCE OBLIGATION: The reflective sheeting processed, applied to sign blank materials, and cleaned in accordance with manufacturer's recommendations, shall perform effectively for the number of years as stated in this specification. The retroreflective sheeting will be considered unsatisfactory if it has deteriorated due to natural causes to the extent that: (1) the sign is ineffective for its intended purpose when viewed from a moving vehicle under normal day and night driving conditions; or (2) the coefficient of retroreflection during the specified warranty period is less than the minimum specified values as described herein; or (3) the Luminance Factor, High Conspicuity Luminance Factor, or Fluorescence Luminance Factor during the specified warranty period is less than the minimum specified values as described herein; or (4) the daytime color chromaticity coordinates for CIE standard illuminant D65 and the 1931 CIE 2° standard observer during the specified warranty period does not meet the requirements as described herein.

Where it can be shown that the performance of sheeting supplied and used according to the manufacture's recommendations have not been met, the manufacturer shall cover the sign costs as follows for sheeting shown to be unsatisfactory during:

- Years 0 thru 3 (fluorescent orange only): Material failing to meet requirements shall be replaced at a rate of 1 1/2 (replacement) to 1 (purchased).
- The First Seven Years (excludes fluorescent orange): The sheeting manufacturer will cover the cost of restoring the sign panel to its original effectiveness at no cost to the agency for materials or labor.
- Years 8 thru 10 (excludes fluorescent orange): The sheeting manufacturer will replace the sheeting required to restore the sign panel to its original effectiveness.
- Years 11 thru 12 (non-fluorescent only): The sheeting manufacturer will replace fifty percent of the sheeting required to restore the sign panel to its original effectiveness.

PROCESS INKS: Manufacturer recommended matched component inks shall be provided at no additional cost based on the following:

- Transparent Inks: 1 Gal. per 1200 sq. ft of sheeting (colors will be specified on order), or
- Black Ink: 1 Gal. per 2400 sq. ft. of sheeting

Ink supplied will be either transparent or black as specified on order.

Ink supplied will be rounded up to the next whole gallon.

All inks shall include a UV inhibitor.

Failure of the manufacturer's recommended matched component inks, whether supplied by the manufacturer or the WV Division of Highways, to properly perform on the sheeting will constitute a failure of the sheeting and replacement will be made as outlined herein.

SLIP SHEETING: Slip sheeting compatible with the reflective sheeting and inks shall be provided in rolls equal to the amount and size of reflective sheeting ordered at no additional cost.

WASHERS: Nylon washers shall be provided at no additional cost at the rate of 1000 washers per 3500 SF of sheeting ordered. Washers shall measure 5/16" (I.D.) x 7/8" (O.D.) x 1/16" thick, and shall be manufactured from commercial grade nylon. Total quantity of washers supplied shall be determined by rounding the total square footage of sheeting ordered up or down to the nearest multiple of 3500. For inventory purposes, washers shall be supplied in individual packages of 1000 ea.

GENERAL CHARACTERISTICS AND PACKAGING: The reflective sheeting as supplied shall be free from ragged edges, cracks, and extraneous materials and shall be furnished in both rolls and sheets. The average number of splices shall not be more than three per 50 yard roll with a maximum of four per 50 yard of material and splices shall be suitable for continuous application as supplied.

Rolls shall be packaged in corrugated fiberboard boxes in such a manner that no damage or defacement may occur to the reflective sheeting during shipment or storage.

Cut sheets shall be packaged flat between pressed composition boards or corrugated pads of the same dimensions as the sheets and shall be so packed as to prevent damage or defacement during shipment or storage.

The reflective sheeting as supplied and stored under normal conditions shall be suitable for use for at least one year after purchase.

TYPE ASTM- XI REFLECTIVE SHEETING – SPECIFICATIONS

General: The reflective sheeting shall have sufficient strength so that it can be handled, processed, and applied according to the recommendations of the sheeting manufacturer without appreciable stretching, tearing, or other damage. The sheeting shall permit cutting and color processing with compatible transparent and opaque process inks at temperatures of 60 to 100 F and relative humidity at 20 to 80 percent. The sheeting shall be heat resistant and permit force curing without staining of applied or unapplied sheeting at temperatures as recommended by the manufacturer.

Construction: The sheeting shall be a very-high-intensity unmetallized cube corner microprismatic retroreflective element material with a transparent, weatherproof topcoat having a smooth outer surface. The sheeting shall have a pre-coated adhesive backing protected by a removable liner.

Coefficient of Retroreflection: The sheeting shall have minimum reflective intensity values 0.2 degrees, 0.5 degrees, and 1.0 degrees observation angle, as shown in Table XI below, expressed as candle power per foot candle per square foot (candelas per lux per square meter) of material.

TABLE XI									
Observation Angle	Entrance Angle	White	Green	Red	Blue	Brown	Fluorescent Yellow-Green	Fluorescent Yellow	Fluorescent Orange
0.2	-4	580	58	87	26	17	460	350	175
0.2	+30	220	22	33	10	7	180	130	66
0.5	-4	420	42	63	19	13	340	250	125
0.5	+30	150	15	23	7	5	120	90	45
1.0	-4	120	12	18	5	4	96	72	36
1.0	+30	45	5	7	2	1	36	27	14

measurements shall be made per ASTM D4956. The values of 0° and 90° rotation are averaged to determine conformance.

For screen printed transparent colored areas on white sheeting, the coefficient of retroreflection shall not be less than as follows:

Observation Angle	Entrance Angle	Green	Red	Blue	Brown
0.2	-4	41	61	18	12
0.2	+30	15	23	7	5
0.5	-4	29	44	13	9
0.5	+30	11	16	5	4
1.0	-4	8	13	4	3
1.0	+30	4	5	1	1

measurements shall be made per ASTM D4956. The values of 0° and 90° rotation are averaged to determine conformance.

For E.C. film applied transparent colored areas on white sheeting, the coefficient of retroreflection shall fall within the following range expressed as a % value of the coefficient of retroreflection of the base (white) retroreflective material :

Transparent Color	Min.	Max.
Green	13%	20%
Blue	6.5%	20%
Red	14%	24%
Brown	5%	NA

measurements shall be made per ASTM D4956. measurements shall be made at 0.2° observation angle, -4° entrance angle, and 0° rotation.

Daytime Color: The daytime color chromaticity coordinates for CIE standard illuminant D65 and the 1931 CIE 2° standard observer shall be in accordance with Table II when tested in accordance with ASTM D4956.

Daytime Luminance Factor: The daytime luminance factor Y (%) for CIE standard illuminant D65 and the 1931 CIE 2° standard observer shall be in accordance with Table III for non-fluorescent colors when tested in accordance with ASTM D4956.

High Conspicuity Luminance Factor: The high conspicuity luminance factor Y (%) for CIE standard illuminant D65 and the 1931 CIE 2° standard observer shall be in accordance with Table XII below for fluorescent colors when tested in accordance with ASTM D4956.

Color	Y(%)	
	Min	Max
Fluorescent-Orange	25	-
Fluorescent-Yellow	45	-
Fluorescent-Yellow-Green	60	-

Adhesive: The adhesive shall be a Class 1 adhesive, as defined by ASTM D4956. The adhesive backing shall be pressure sensitive, require no heat, solvent, or other preparation for adhesion to smooth, clean surfaces. Additional adhesive coats on either the reflective sheeting or application surface shall not be necessary. When tested in accordance with ASTM D4956, the adhesive backing of the sheeting shall produce a bond that will support a 1-3/4 lb weight for 5 min, without the bond peeling for a distance of more than 2 in.

Shrinkage: The sheeting shall not shrink in any dimension more than 1/32 in. in 10 min or more than 1/8 in. in 24 h when tested in accordance with ASTM D4956.

Flexibility: The sheeting shall be sufficiently flexible to show no cracking when tested in accordance with ASTM D4956.

Liner Removal: The liner shall be easily removed without soaking in water or other solutions, and shall not break, tear, or remove adhesive from the sheeting. The liner shall be easily removed after accelerated storage as described in ASTM D4956.

Impact Resistance: The sheeting shall show no cracking or delaminating outside of the actual area of impact when subjected to the impact test in accordance with ASTM D4956.

Heat Resistance: Apply sheeting to standard panel and condition at standard conditions for 2 hours. Measure coefficients of retroreflection for all test geometries. Expose panel in an air circulating oven at 160 +/- 5°F (71 +/- 3°C) for a period of 24 hours. Re-condition after exposure and re-measure at all test geometries. Requirement - Coefficients of retroreflection measured after exposure shall be between 85% and 115% of the values measured before exposure.

Durability: The sheeting shall be weather resistant and show no appreciable cracking, scaling, pitting, blistering, edge lifting, or curling, or more than 1/32-in. (0.8-mm) shrinkage or expansion when tested in accordance with ASTM D4956.

Non-fluorescent materials shall maintain the levels of retroreflectivity indicated in Table XIII below for a period of twelve (12) years after installation.

Fluorescent yellow and fluorescent yellow green materials shall maintain the levels of retroreflectivity indicated in Table XIII below for a period of ten (10) years after installation.

Fluorescent orange materials shall maintain the levels of retroreflectivity indicated in Table XIII below for a period of three (3) years after initial use.

The sheeting daytime and nighttime color chromaticity coordinates for non-fluorescent sheetings shall be in accordance with Tables II and IV for a period of twelve (12) years after installation. The preceding color requirements shall apply to screen printed or transparent overlay film areas on white sheeting as well.

The sheeting daytime and nighttime color chromaticity coordinates for fluorescent sheetings, excluding fluorescent orange, shall be in accordance with Tables II and IV for a period of ten (10) years after installation.

The sheeting daytime and nighttime color chromaticity coordinates for fluorescent orange sheeting shall be in accordance with Tables II and IV for a period of three (3) years after initial use.

The sheeting daytime luminance factor Y(%) for CIE standard illuminant D65 and the 1931 CIE 2° standard observer for non-fluorescent material shall be in accordance with Table III for a period of twelve (12) years after installation.

TABLE XIII

Non-fluorescent colors: Age 0 years through 7 years:

Observation Angle	Entrance Angle	White	Green	Red	Blue	Brown
0.2	-4	464	46	70	21	14
0.2	+30	176	18	26	8	6
0.5	-4	336	34	50	15	10
0.5	+30	120	12	18	6	4
1.0	-4	96	10	14	4	3
1.0	+30	36	4	6	2	1

Measurements shall be made per ASTM D4956 after sign cleaning. The values of 0 deg and 90 deg rotation are averaged to determine conformance.

For screen printed and E.C. film applied transparent colored areas on white sheeting, the coefficients of retroreflection shall not be less than 70% of the values for the corresponding color in the above table.

Non-Fluorescent colors: Age 7 years through 12 years:

Observation Angle	Entrance Angle	White	Green	Red	Blue	Brown
0.2	-4	406	41	61	18	12
0.2	+30	154	15	23	7	5
0.5	-4	294	29	44	13	9
0.5	+30	105	11	16	5	4
1.0	-4	84	8	13	4	3
1.0	+30	32	4	5	1	1

Measurements shall be made per ASTM D4956 after sign cleaning. The values of 0 deg and 90 deg rotation are averaged to determine conformance.

For screen printed and E.C. film applied transparent colored areas on white sheeting, the coefficients of retroreflection shall not be less than 70% of the values for the corresponding color in the above table.

TABLE XIII (CONTINUED)

Fluorescent Yellow and Yellow-Green colors: Age 0 years through 10 years:

Observation Angle	Entrance Angle	Fluorescent Yellow Green	Fluorescent Yellow
0.2	-4	322	245
0.2	+30	126	91
0.5	-4	238	175
0.5	+30	84	63
1.0	-4	67	50
1.0	+30	25	19

Measurements shall be made per ASTM D4956 after sign cleaning. The values of 0 deg and 90 deg rotation are averaged to determine conformance.

Fluorescent Orange: Age 0 years through 3 years:

Observation Angle	Entrance Angle	Fluorescent Orange
0.2	-4	123
0.2	+30	46
0.5	-4	88
0.5	+30	32
1.0	-4	25
1.0	+30	10

Measurements shall be made per ASTM D4956 after sign cleaning. The values of 0 deg and 90 deg rotation are averaged to determine conformance.

Type ASTM-XI Sheeting Approval and Matched Component Requirements: In addition to the manufacturer's sheeting material to be supplied, each of the manufacturer recommended matched component products listed within Bid Item Section V, as well as the manufacturer recommended matched component opaque and transparent inks, shall be approved by the WVDOH, as indicated on the WVDOH APL, in order for the particular manufacturer's material to be considered for award under Bid Item Section V. Matched component approval shall not be required for consideration of award of Bid Item Section VI.

MANUFACTURER'S FIELD PERFORMANCE OBLIGATION: The reflective sheeting processed, applied to sign blank materials, and cleaned in accordance with manufacturer's recommendations, shall perform effectively for the number of years as stated in this specification. The retroreflective sheeting will be considered unsatisfactory if it has deteriorated due to natural causes to the extent that: (1) the sign is ineffective for its intended purpose when viewed from a moving vehicle under normal day and night driving conditions; or (2) the coefficient of retroreflection during the specified warranty period is less than the minimum specified values as described herein; or (3) the Luminance Factor, High Conspicuity Luminance Factor, or Fluorescence Luminance Factor during the specified warranty period is less than the minimum specified values as described herein; or (4) the daytime color chromaticity coordinates for CIE standard illuminant D65 and the 1931 CIE 2° standard observer during the specified warranty period does not meet the requirements as described herein.

Where it can be shown that the performance of sheeting supplied and used according to the manufacturer's recommendations have not been met, the manufacturer shall cover the sign costs as follows for sheeting shown to be unsatisfactory during:

- Years 0 thru 3 (fluorescent orange only): Material failing to meet requirements shall be replaced at a rate of 1 1/2 (replacement) to 1 (purchased).
- The First Seven Years (excludes fluorescent orange): The sheeting manufacturer will cover the cost of restoring the sign panel to its original effectiveness at no cost to the agency for materials or labor.
- Years 8 thru 10 (excludes fluorescent orange): The sheeting manufacturer will replace the sheeting required to restore the sign panel to its original effectiveness.
- Years 11 thru 12 (non-fluorescent only): The sheeting manufacturer will replace fifty percent of the sheeting required to restore the sign panel to its original effectiveness.

PROCESS INKS: Manufacturer recommended matched component inks shall be provided at no additional cost based on the following:

- Transparent Inks: 1 Gal. per 1200 sq. ft of sheeting (colors will be specified on order), or
- Black Ink: 1 Gal. per 2400 sq. ft. of sheeting

Ink supplied will be either transparent or black as specified on order.

Ink supplied will be rounded up to the next whole gallon.

All inks shall include a UV inhibitor.

Failure of the manufacturer's recommended matched component inks, whether supplied by the manufacturer or the WV Division of Highways, to properly perform on the sheeting will constitute a failure of the sheeting and replacement will be made as outlined herein.

SLIP SHEETING: Slip sheeting compatible with the reflective sheeting and inks shall be provided in rolls equal to the amount and size of reflective sheeting ordered at no additional cost.

WASHERS: Nylon washers shall be provided at no additional cost at the rate of 1000 washers per 3500 SF of sheeting ordered. Washers shall measure 5/16" (I.D.) x 7/8" (O.D.) x 1/16" thick, and shall be manufactured from commercial grade nylon. Total quantity of washers supplied shall be determined by rounding the total square footage of sheeting ordered up or down to the nearest multiple of 3500. For inventory purposes, washers shall be supplied in individual packages of 1000 ea.

GENERAL CHARACTERISTICS AND PACKAGING: The reflective sheeting as supplied shall be free from ragged edges, cracks, and extraneous materials and shall be furnished in both rolls and sheets. The average number of splices shall not be more than three per 50 yard roll with a maximum of four per 50 yard of material and splices shall be suitable for continuous application as supplied.

Rolls shall be packaged in corrugated fiberboard boxes in such a manner that no damage or defacement may occur to the reflective sheeting during shipment or storage.

Cut sheets shall be packaged flat between pressed composition boards or corrugated pads of the same dimensions as the sheets and shall be so packed as to prevent damage or defacement during shipment or storage.

The reflective sheeting as supplied and stored under normal conditions shall be suitable for use for at least one year after purchase.

OPAQUE OVERLAY FILM – SPECIFICATIONS

General: This material shall have sufficient strength so that it can be handled, processed, and applied according to the recommendations of the manufacturer without appreciable stretching, tearing, or other damage. The material shall permit cutting and application at temperatures of 40 to 100 F. This film shall be an opaque cast vinyl.

Liner: A polyethylene coated liner shall resist moisture absorption and static buildup, shall lay flat for easier assembly of graphics and shall allow superior cutting and weeding. With the exception of 1/2, 5/8, 3/4, 7/8, 1-1/4, and 2 inch widths, the liner shall be transparent with no reference or grid lines. 1/2, 5/8, 3/4, 7/8, 1-1/4, and 2 inch widths shall be supplied on a paper liner. Liner shall be unpunched and shall be acceptable for kiss-cutting on electronic cutting machines.

Thickness: The thickness of the film graphic shall be 2 mils (without adhesive), or 3.0 to 4.0 mils with adhesive.

Adhesive: This material shall utilize a pressure sensitive adhesive.

Chemical Resistance: This material shall resist mild alkalis, mild acids, and salt. The material shall exhibit excellent resistance to water, with exception to cases of submersion.

Shrinkage: After application, this material shall not exhibit shrinkage in excess of 0.010 inches.

Durability: This product shall perform at an acceptable level to serve its' intended purpose for the entire warranty periods specified for the sheetings that it is recommended for use with. Additional specific durability requirements related to opaque overlay films are included in the sheeting specifications herein.

GENERAL CHARACTERISTICS AND PACKAGING:The material shall withstand a shelf life of two years after receipt from the manufacturer. Processed film shall have a shelf life of one year.

Rolls, sheets, or letters shall be individually packaged in suitable containers and in such a manner that no damage or defacement may occur to this graphic film during transport to destination.

TRANSPARENT OVERLAY FILM – SPECIFICATIONS

General: This material shall have sufficient strength so that it can be handled, processed, and applied according to the recommendations of the manufacturer without appreciable stretching, tearing, or other damage. The material shall permit cutting and application at temperatures of 40 to 100 F. This film shall be acrylic.

Adhesive: This material shall utilize a transparent pressure sensitive adhesive.

Chemical Resistance: This material shall resist mild alkalis, mild acids, and salt. The material shall exhibit excellent resistance to water, with exception to cases of submersion.

Color Standards: Standard colors shall conform to appropriate retroreflective sheeting specifications- Federal Specification FP-96, Section 178.01 (a) and ASTM D4956 when applied over the manufacturer's approved white sheetings.

Transparency: After application over the manufacturer's white sheeting, the film's level of transparency shall result in a measured retroreflectivity level falling within a specific range dependent on the Type sheeting utilized. This range is specified as part of the sheeting material specifications herein.

Liner: This material shall be supplied on a clear liner acceptable for kiss-cutting on electronic cutting machines. The liner shall be unpunched.

Durability: This product shall perform at an acceptable level to serve its' intended purpose for the entire warranty periods specified for the sheetings that it is recommended for use with. Additional specific durability requirements related to transparent overlay films are included in the sheeting specifications herein.

GENERAL CHARACTERISTICS AND PACKAGING: The material shall withstand a shelf life of one year after receipt from the manufacturer. Processed film shall have a shelf life of one year.

Rolls, sheets, or letters shall be individually packaged in suitable containers and in such a manner that no damage or defacement may occur to this graphic film during transport to destination.

OPAQUE AND TRANSPARENT INK – SPECIFICATIONS

General: The material shall permit application at temperatures of 40 to 100 F.

Chemical Resistance: This material shall resist mild alkalis, mild acids, and salt. The material shall exhibit excellent resistance to water, with exception to cases of submersion.

Color Standards: Standard colors shall conform to appropriate retroreflective sheeting specifications- Federal Specification FP-96, Section 178.01 (a) and ASTM D4956 when applied over the manufacturer's approved white sheetings.

Transparency: With the exception of opaque (black) ink, after application over the manufacturer's white sheeting, the ink's level of transparency shall result in a minimum measured retroreflectivity level dependent on the color ink and Type sheeting utilized. These minimum levels are specified as part of the sheeting material specifications herein.

Durability: This product shall perform at an acceptable level to serve its' intended purpose for the entire warranty periods specified for the sheetings that it is recommended for use with. Additional specific durability requirements related to opaque and transparent inks are included in the sheeting specifications herein.

BID SCHEDULE FOR AWARD

- Bid Item Section I will be evaluated, and if need be, awarded independently of the other Bid Item Sections.
- Bid Item Sections II, V, and VII will be evaluated as a whole, and will be awarded as such. If need be, these Sections will be awarded independently of the other Bid Item Sections.
- Bid Item Section III will be evaluated, and if need be, awarded independently of the other Bid Item Sections.
- Bid Item Section IV will be evaluated, and if need be, awarded independently of the other Bid Item Sections.
- Bid Item Section VI will be evaluated, and if need be, awarded independently of the other Bid Item Sections.
- Bid Item Section VIII will be evaluated, and if need be, awarded independently of the other Bid Item Sections.

Vendors are to submit pricing for each Item within the Sections they are bidding, regardless of the presence of a value in the Estimated Quantity column.

For Items without a value in the Estimated Quantity column, the vendor is to submit their price for one (1) roll in the Unit Cost column. The Total Cost column should be left blank in this case.

All material shall be quoted in the width and length rolls specified. The only exception allowed for this shall be in the case of material specified as a width and length combination of 12-3/4" x 100 yds. (Item numbers 197-201, 229, and 331-336). These items may be supplied in 50 yd rolls if indicated by the Vendor on the Bid Sheet. If the Vendor elects to supply any of these particular items in 50 yd rolls, the value submitted in the Unit Price column shall be for a 50 yd roll. Furthermore, if a value is indicated in the Estimated Qty column, the amount submitted by the Vendor in the Total Amount column should be double the value calculated by multiplying the value in the Estimated Qty column by the value in the Unit Price column.

In determining the Vendor's total bid for each Section for award purposes, the figures in the Total Cost column associated with Items with an estimated quantity indicated will be totaled. Pricing for Items without a value in the Estimated Quantity column will not be used in determining the award of the Contract.

The estimated quantities shown on the Bid Schedule are estimated quantities only. Actual quantities ordered may be more or less than those shown.

BID SCHEDULE

ITEM NUMBER	ESTIMATED QTY	DESCRIPTION	SPECIAL REQUIREMENTS	MANUFACTURER PRODUCT CODE	UNIT COST	TOTAL COST	INVENTORY SUBCODE (DOH USE ONLY)
BID ITEM SECTION I - TRANSFER TAPES							
1		Transfer Tape, Low Tack 2"x100 yds					
2		Transfer Tape, Low Tack 3"x100 yds					
3		Transfer Tape, Low Tack 12"x100 yds					
4		Transfer Tape, Low Tack 15"x100 yds					
5	6	Transfer Tape, Low Tack 18"x100 yds					
6	5	Transfer Tape, Low Tack 24"x100 yds					
7	19	Transfer Tape, Low Tack 30"x100 yds					
8	6	Transfer Tape, Low Tack 36"x100 yds					
9		Transfer Tape, Low Tack 42"x100 yds					
10	7	Transfer Tape, Low Tack 48"x100 yds					

ITEM NUMBER	ESTIMATED QTY	DESCRIPTION	SPECIAL REQUIREMENTS	MANUFACTURER PRODUCT CODE	UNIT COST	TOTAL COST	INVENTORY SUBCODE (DOH USE ONLY)
BID ITEM SECTION II - TYPE I SHEETING & TYPE I SHEETING FILMS							
11	1	Type ASTM1 Reflective Sheeting, Pressure Sensitive 15"x50 yds. White	Minimum width overage to be 1/16"				111015
12	1	Type ASTM1 Reflective Sheeting, Pressure Sensitive 15"x50 yds. Yellow	Minimum width overage to be 1/16"				112015
13	1	Type ASTM1 Reflective Sheeting, Pressure Sensitive 18"x50 yds. White	Minimum width overage to be 1/2"				112018
14	1	Type ASTM1 Reflective Sheeting, Pressure Sensitive 18"x50 yds. Yellow	Minimum width overage to be 1/2"				111021
15	1	Type ASTM1 Reflective Sheeting, Pressure Sensitive 21"x50 yds. White	Minimum width overage to be 1/2"				111024
16	1	Type ASTM1 Reflective Sheeting, Pressure Sensitive 21"x50 yds. Yellow	Minimum width overage to be 1/2"				112024
17	1	Type ASTM1 Reflective Sheeting, Pressure Sensitive 24"x50 yds. White	Minimum width overage to be 1/2"				111036
18	1	Type ASTM1 Reflective Sheeting, Pressure Sensitive 24"x50 yds. Yellow	Minimum width overage to be 1/2"				112036
19	1	Type ASTM1 Reflective Sheeting, Pressure Sensitive 30"x50 yds. White	Minimum width overage to be 1/2"				111036
20	1	Type ASTM1 Reflective Sheeting, Pressure Sensitive 30"x50 yds. Yellow	Minimum width overage to be 1/2"				112036
21	1	Type ASTM1 Reflective Sheeting, Pressure Sensitive 36"x50 yds. White	Minimum width overage to be 5/16"				112036
22	1	Type ASTM1 Reflective Sheeting, Pressure Sensitive 36"x50 yds. Yellow	Minimum width overage to be 5/16"				112036
23	1	Type ASTM1 Reflective Sheeting, Pressure Sensitive 42"x50 yds. White	Minimum width overage to be 5/16"				111046
24	1	Type ASTM1 Reflective Sheeting, Pressure Sensitive 42"x50 yds. Yellow	Minimum width overage to be 5/16"				111046
25	1	Type ASTM1 Reflective Sheeting, Pressure Sensitive 48"x50 yds. White	Minimum width overage to be 7/16"				112048
26	1	Type ASTM1 Reflective Sheeting, Pressure Sensitive 48"x50 yds. Yellow	Minimum width overage to be 7/16"				111050
27	1	Type ASTM1 Reflective Sheeting, Pressure Sensitive 1/2"x50 yds. White	Width tolerance +0" to +1/16"				112050
28	1	Type ASTM1 Reflective Sheeting, Pressure Sensitive 1/2"x50 yds. Yellow	Width tolerance +0" to +1/16"				111100
29	1	Type ASTM1 Reflective Sheeting, Pressure Sensitive 1"x50 yds. White	Width tolerance +0" to +1/16"				112100
30	1	Type ASTM1 Reflective Sheeting, Pressure Sensitive 1"x50 yds. Yellow	Width tolerance +0" to +1/16"				112100

ITEM NUMBER	ESTIMATED QTY	DESCRIPTION	SPECIAL REQUIREMENTS	MANUFACTURER PRODUCT CODE	UNIT COST	TOTAL COST	INVENTORY SUBCODE (DOH USE ONLY)
BID ITEM SECTION II - TYPE I SHEETING & TYPE I SHEETING FILMS (CONTINUED)							
31	1	Type ASTM1 Reflective Sheeting, Pressure Sensitive 15'x50 yds. Blue	Minimum width overage to be 1/16"				115015
32	1	Type ASTM1 Reflective Sheeting, Pressure Sensitive 18' x50 yds. Blue	Minimum width overage to be 1/2"				
33	1	Type ASTM1 Reflective Sheeting, Pressure Sensitive 21' x50 yds. Blue	Minimum width overage to be 1/2"				
34	1	Type ASTM1 Reflective Sheeting, Pressure Sensitive 24'x50 yds. Blue	Minimum width overage to be 1/2"				115024
35	1	Type ASTM1 Reflective Sheeting, Pressure Sensitive 30'x50 yds. Blue	Minimum width overage to be 1/2"				115030
36	1	Type ASTM1 Reflective Sheeting, Pressure Sensitive 36'x50 yds. Blue	Minimum width overage to be 5/16"				115036
37	1	Type ASTM1 Reflective Sheeting, Pressure Sensitive 42'x50 yds. Blue	Minimum width overage to be 5/16"				
38	1	Type ASTM1 Reflective Sheeting, Pressure Sensitive 48'x50 yds. Blue	Minimum width overage to be 7/16"				115048
39	1	EC film, Transparent, Pressure Sensitive, Acrylic 12'x50 yds. Yellow					
40	1	EC film, Transparent, Pressure Sensitive, Acrylic 12'x50 yds. Red					
41	1	EC film, Transparent, Pressure Sensitive, Acrylic 12'x50 yds. Blue					
42	1	EC film, Transparent, Pressure Sensitive, Acrylic 12'x50 yds. Green					
43	1	EC film, Transparent, Pressure Sensitive, Acrylic 12'x50 yds. Brown					
44	1	EC film, Transparent, Pressure Sensitive, Acrylic 15'x50 yds. Yellow					
45	1	EC film, Transparent, Pressure Sensitive, Acrylic 15'x50 yds. Red					
46	1	EC film, Transparent, Pressure Sensitive, Acrylic 15'x50 yds. Blue					
47	1	EC film, Transparent, Pressure Sensitive, Acrylic 15'x50 yds. Green					
48	1	EC film, Transparent, Pressure Sensitive, Acrylic 15'x50 yds. Brown					
49	1	EC film, Transparent, Pressure Sensitive, Acrylic 18'x50 yds. Yellow					
50	1	EC film, Transparent, Pressure Sensitive, Acrylic 18'x50 yds. Red					
51	1	EC film, Transparent, Pressure Sensitive, Acrylic 18'x50 yds. Blue					
52	1	EC film, Transparent, Pressure Sensitive, Acrylic 18'x50 yds. Green					904018

ITEM NUMBER	ESTIMATED QTY	DESCRIPTION	SPECIAL REQUIREMENTS	MANUFACTURER PRODUCT CODE	UNIT COST	TOTAL COST	INVENTORY SUBCODE (OOH USE ONLY)
BID ITEM SECTION II - TYPE I SHEETING & TYPE I SHEETING FILMS (CONTINUED)							
53	1	EC film, Transparent, Pressure Sensitive, Acrylic, 18"x50 yds. Brown					906018
54	1	EC film, Transparent, Pressure Sensitive, Acrylic, 24"x50 yds. Yellow					902024
55	1	EC film, Transparent, Pressure Sensitive, Acrylic, 24"x50 yds. Red					907024
56	1	EC film, Transparent, Pressure Sensitive, Acrylic, 24"x50 yds. Blue					905024
57	1	EC film, Transparent, Pressure Sensitive, Acrylic, 24"x50 yds. Green					904024
58	1	EC film, Transparent, Pressure Sensitive, Acrylic, 24"x50 yds. Brown					906024
59	1	EC film, Transparent, Pressure Sensitive, Acrylic, 30"x50 yds. Yellow					
60	1	EC film, Transparent, Pressure Sensitive, Acrylic, 30"x50 yds. Red					907030
61	1	EC film, Transparent, Pressure Sensitive, Acrylic, 30"x50 yds. Blue					905030
62	1	EC film, Transparent, Pressure Sensitive, Acrylic, 30"x50 yds. Green					904030
63	1	EC film, Transparent, Pressure Sensitive, Acrylic, 30"x50 yds. Brown					906030
64	1	EC film, Transparent, Pressure Sensitive, Acrylic, 36"x50 yds. Yellow					902036
65	1	EC film, Transparent, Pressure Sensitive, Acrylic, 36"x50 yds. Red					
66	1	EC film, Transparent, Pressure Sensitive, Acrylic, 36"x50 yds. Blue					906036
67	1	EC film, Transparent, Pressure Sensitive, Acrylic, 36"x50 yds. Green					904036
68	1	EC film, Transparent, Pressure Sensitive, Acrylic, 36"x50 yds. Brown					906036
69	1	EC film, Transparent, Pressure Sensitive, Acrylic, 42"x50 yds. Yellow					
70	1	EC film, Transparent, Pressure Sensitive, Acrylic, 42"x50 yds. Red					
71	1	EC film, Transparent, Pressure Sensitive, Acrylic, 42"x50 yds. Blue					
72	1	EC film, Transparent, Pressure Sensitive, Acrylic, 42"x50 yds. Green					904042
73	1	EC film, Transparent, Pressure Sensitive, Acrylic, 42"x50 yds. Brown					
74	1	EC film, Transparent, Pressure Sensitive, Acrylic, 48"x50 yds. Yellow					
75	1	EC film, Transparent, Pressure Sensitive, Acrylic, 48"x50 yds. Red					
76	1	EC film, Transparent, Pressure Sensitive, Acrylic, 48"x50 yds. Blue					905048
77	1	EC film, Transparent, Pressure Sensitive, Acrylic, 48"x50 yds. Green					904048
78	1	EC film, Transparent, Pressure Sensitive, Acrylic, 48"x50 yds. Brown					906048
79	1	EC film, Opaque, Pressure Sensitive, Cast Vinyl, 36"x50 yds. Black (Opaque)					518038
80	1	EC film, Opaque, Pressure Sensitive, Cast Vinyl, 50"x50 yds. Black (Opaque)					518082
81	1	EC film, Opaque, Pressure Sensitive, Cast Vinyl, 36"x50 yds. Black (Opaque)					518078

ITEM NUMBER	ESTIMATED QTY	DESCRIPTION	SPECIAL REQUIREMENTS	MANUFACTURER PRODUCT CODE	UNIT COST	TOTAL COST	INVENTORY SUBCODE (DOH USE ONLY)
BID ITEM SECTION II - TYPE I SHEETING & TYPE I SHEETING FILMS (CONTINUED)							
82	1	EC film, Opaque, Pressure Sensitive, Cast Vinyl, 78"x50 yds, Black (Opaque)					518088
83	1	EC film, Opaque, Pressure Sensitive, Cast Vinyl, 1-1/4"x50 yds, Black (Opaque)					518125
84	1	EC film, Opaque, Pressure Sensitive, Cast Vinyl, 18"x50 yds, Matte White					
85	1	EC film, Opaque, Pressure Sensitive, Cast Vinyl, 18"x50 yds, Black					
86	1	EC film, Opaque, Pressure Sensitive, Cast Vinyl, 18"x50 yds, Yellow					
87	1	EC film, Opaque, Pressure Sensitive, Cast Vinyl, 18"x50 yds, Blue					
88	1	EC film, Opaque, Pressure Sensitive, Cast Vinyl, 24"x50 yds, Matte White					
89	1	EC film, Opaque, Pressure Sensitive, Cast Vinyl, 24"x50 yds, Black					518024
90	1	EC film, Opaque, Pressure Sensitive, Cast Vinyl, 24"x50 yds, Yellow					
91	1	EC film, Opaque, Pressure Sensitive, Cast Vinyl, 24"x50 yds, Blue					
92	1	EC film, Opaque, Pressure Sensitive, Cast Vinyl, 30"x50 yds, Matte White					
93	1	EC film, Opaque, Pressure Sensitive, Cast Vinyl, 30"x50 yds, Black					518030
94	1	EC film, Opaque, Pressure Sensitive, Cast Vinyl, 30"x50 yds, Yellow					512030
95	1	EC film, Opaque, Pressure Sensitive, Cast Vinyl, 30"x50 yds, Blue					
96	1	EC film, Opaque, Pressure Sensitive, Cast Vinyl, 36"x50 yds, Matte White					
97	1	EC film, Opaque, Pressure Sensitive, Cast Vinyl, 36"x50 yds, Black					518036
98	1	EC film, Opaque, Pressure Sensitive, Cast Vinyl, 36"x50 yds, Yellow					512036
99	1	EC film, Opaque, Pressure Sensitive, Cast Vinyl, 36"x50 yds, Blue					
100	1	EC film, Opaque, Pressure Sensitive, Cast Vinyl, 48"x50 yds, Matte White					
101	1	EC film, Opaque, Pressure Sensitive, Cast Vinyl, 48"x50 yds, Black					518046
102	1	EC film, Opaque, Pressure Sensitive, Cast Vinyl, 48"x50 yds, Yellow					
103	1	EC film, Opaque, Pressure Sensitive, Cast Vinyl, 48"x50 yds, Blue					
104	1	EC film, Opaque, Pressure Sensitive, Cast Vinyl, 60"x50 yds, Matte White					
105	1	EC film, Opaque, Pressure Sensitive, Cast Vinyl, 60"x50 yds, Black					
106	1	EC film, Opaque, Pressure Sensitive, Cast Vinyl, 60"x50 yds, Yellow					
107	1	EC film, Opaque, Pressure Sensitive, Cast Vinyl, 60"x50 yds, Blue					

ITEM NUMBER	ESTIMATED QTY	DESCRIPTION	SPECIAL REQUIREMENTS	MANUFACTURER PRODUCT CODE	UNIT COST	TOTAL COST	INVENTORY SUBCODE (DOH USE ONLY)
BID ITEM SECTION III - E.C. & VINYL FILM DEPENDENT TYPE III SHEETINGS & TYPE III SHEETING FILMS							
108		Type ASTM-III Reflective Sheeting, Pressure Sensitive 15"x50 yds. White	Minimum width overage to be 1/16"				211015
108		Type ASTM-III Reflective Sheeting, Pressure Sensitive 15"x50 yds. Yellow	Minimum width overage to be 1/16"				
110	9	Type ASTM-III Reflective Sheeting, Pressure Sensitive 18"x50 yds. White	Minimum width overage to be 1/2"				211018
111	5	Type ASTM-III Reflective Sheeting, Pressure Sensitive 18"x50 yds. Yellow	Minimum width overage to be 1/2"				212018
112	5	Type ASTM-III Reflective Sheeting, Pressure Sensitive 21"x50 yds. White	Minimum width overage to be 1/2"				211021
113		Type ASTM-III Reflective Sheeting, Pressure Sensitive 21"x50 yds. Yellow	Minimum width overage to be 1/2"				
114	28	Type ASTM-III Reflective Sheeting, Pressure Sensitive 24"x50 yds. White	Minimum width overage to be 1/2"				211024
115	20	Type ASTM-III Reflective Sheeting, Pressure Sensitive 24"x50 yds. Yellow	Minimum width overage to be 1/2"				212024
116	76	Type ASTM-III Reflective Sheeting, Pressure Sensitive 30"x50 yds. White	Minimum width overage to be 1/2"				211030
117	54	Type ASTM-III Reflective Sheeting, Pressure Sensitive 30"x50 yds. Yellow	Minimum width overage to be 1/2"				212030
118	21	Type ASTM-III Reflective Sheeting, Pressure Sensitive 36"x50 yds. White	Minimum width overage to be 5/16"				211036
119	16	Type ASTM-III Reflective Sheeting, Pressure Sensitive 36"x50 yds. Yellow	Minimum width overage to be 5/16"				212036
120	16	Type ASTM-III Reflective Sheeting, Pressure Sensitive 42"x50 yds. White	Minimum width overage to be 5/16"				211042
121		Type ASTM-III Reflective Sheeting, Pressure Sensitive 42"x50 yds. Yellow	Minimum width overage to be 5/16"				212042
122	22	Type ASTM-III Reflective Sheeting, Pressure Sensitive 48"x50 yds. White	Minimum width overage to be 7/16"				211048
123	10	Type ASTM-III Reflective Sheeting, Pressure Sensitive 48"x50 yds. Yellow	Minimum width overage to be 7/16"				212048
124		EC film, Transparent, Pressure Sensitive, Acrylic 12"x50 yds. Yellow					
125		EC film, Transparent, Pressure Sensitive, Acrylic 12"x50 yds. Red					
126		EC film, Transparent, Pressure Sensitive, Acrylic 12"x50 yds. Blue					
127		EC film, Transparent, Pressure Sensitive, Acrylic 12"x50 yds. Green					

ITEM NUMBER	ESTIMATED QTY	DESCRIPTION	SPECIAL REQUIREMENTS	MANUFACTURER PRODUCT CODE	UNIT COST	TOTAL COST	INVENTORY SUBCODE (DOR USE ONLY)
BID ITEM SECTION III - E.C. & VINYL FILM DEPENDENT TYPE III SHEETINGS & TYPE III SHEETING FILMS (CONTINUED)							
128		EC film, Transparent, Pressure Sensitive, Acrylic 12"x50 yds. Brown					
128		EC film, Transparent, Pressure Sensitive, Acrylic 15"x50 yds. Yellow					
130		EC film, Transparent, Pressure Sensitive, Acrylic 15"x50 yds. Red					
131		EC film, Transparent, Pressure Sensitive, Acrylic 15"x50 yds. Blue					
132		EC film, Transparent, Pressure Sensitive, Acrylic 15"x50 yds. Green					
133		EC film, Transparent, Pressure Sensitive, Acrylic 15"x50 yds. Brown					
134		EC film, Transparent, Pressure Sensitive, Acrylic 18"x50 yds. Yellow					
135		EC film, Transparent, Pressure Sensitive, Acrylic 18"x50 yds. Red					
136		EC film, Transparent, Pressure Sensitive, Acrylic 18"x50 yds. Blue					
137	8	EC film, Transparent, Pressure Sensitive, Acrylic 18"x50 yds. Green					904018
138		EC film, Transparent, Pressure Sensitive, Acrylic 18"x50 yds. Brown					906018
139		EC film, Transparent, Pressure Sensitive, Acrylic 24"x50 yds. Yellow					902024
140		EC film, Transparent, Pressure Sensitive, Acrylic 24"x50 yds. Red					907024
141		EC film, Transparent, Pressure Sensitive, Acrylic 24"x50 yds. Blue					905024
142	7	EC film, Transparent, Pressure Sensitive, Acrylic 24"x50 yds. Green					904024
143	1	EC film, Transparent, Pressure Sensitive, Acrylic 24"x50 yds. Brown					906024
144		EC film, Transparent, Pressure Sensitive, Acrylic 30"x50 yds. Yellow					
145		EC film, Transparent, Pressure Sensitive, Acrylic 30"x50 yds. Red					907030
146	2	EC film, Transparent, Pressure Sensitive, Acrylic 30"x50 yds. Blue					905030
147	34	EC film, Transparent, Pressure Sensitive, Acrylic 30"x50 yds. Green					904030
148		EC film, Transparent, Pressure Sensitive, Acrylic 30"x50 yds. Brown					906030
149		EC film, Transparent, Pressure Sensitive, Acrylic 36"x50 yds. Yellow					902036
150		EC film, Transparent, Pressure Sensitive, Acrylic 36"x50 yds. Red					
151	2	EC film, Transparent, Pressure Sensitive, Acrylic 36"x50 yds. Blue					905036
152	7	EC film, Transparent, Pressure Sensitive, Acrylic 36"x50 yds. Green					904036
153	1	EC film, Transparent, Pressure Sensitive, Acrylic 36"x50 yds. Brown					906036

ITEM NUMBER	ESTIMATED QTY	DESCRIPTION	SPECIAL REQUIREMENTS	MANUFACTURER PRODUCT CODE	UNIT COST	TOTAL COST	INVENTORY SUBCODE (DOH USE ONLY)
BID ITEM SECTION III - E.C. & VINYL FILM DEPENDENT TYPE III SHEETINGS & TYPE III SHEETING FILMS (CONTINUED)							
154		EC film, Transparent, Pressure Sensitive, Acrylic 42"x60 yds. Yellow					
155		EC film, Transparent, Pressure Sensitive, Acrylic 42"x60 yds. Red					
156		EC film, Transparent, Pressure Sensitive, Acrylic 42"x60 yds. Blue					
157	1	EC film, Transparent, Pressure Sensitive, Acrylic 42"x60 yds. Green					804042
158		EC film, Transparent, Pressure Sensitive, Acrylic 42"x60 yds. Brown					
159		EC film, Transparent, Pressure Sensitive, Acrylic 48"x60 yds. Yellow					
160		EC film, Transparent, Pressure Sensitive, Acrylic 48"x60 yds. Red					
161	4	EC film, Transparent, Pressure Sensitive, Acrylic 48"x60 yds. Blue					905048
162	2	EC film, Transparent, Pressure Sensitive, Acrylic 48"x60 yds. Green					904048
163		EC film, Transparent, Pressure Sensitive, Acrylic 48"x60 yds. Brown					906048
164	1	EC film, Opaque, Pressure Sensitive, Cast Vinyl 30"x60 yds. Black (Opaque)					518038
165		EC film, Opaque, Pressure Sensitive, Cast Vinyl 50"x60 yds. Black (Opaque)					518092
166		EC film, Opaque, Pressure Sensitive, Cast Vinyl 34"x60 yds. Black (Opaque)					518075
167		EC film, Opaque, Pressure Sensitive, Cast Vinyl 78"x60 yds. Black (Opaque)					518098
168	1	EC film, Opaque, Pressure Sensitive, Cast Vinyl 1-1/4"x60 yds. Black (Opaque)					518125
169		EC film, Opaque, Pressure Sensitive, Cast Vinyl 18"x60 yds. Matte White					
170		EC film, Opaque, Pressure Sensitive, Cast Vinyl 18"x60 yds. Black					
171		EC film, Opaque, Pressure Sensitive, Cast Vinyl 18"x60 yds. Yellow					
172		EC film, Opaque, Pressure Sensitive, Cast Vinyl 18"x60 yds. Blue					
173		EC film, Opaque, Pressure Sensitive, Cast Vinyl 24"x60 yds. Matte White					
174	4	EC film, Opaque, Pressure Sensitive, Cast Vinyl 24"x60 yds. Black					518024
175		EC film, Opaque, Pressure Sensitive, Cast Vinyl 24"x60 yds. Yellow					
176		EC film, Opaque, Pressure Sensitive, Cast Vinyl 24"x60 yds. Blue					
177		EC film, Opaque, Pressure Sensitive, Cast Vinyl 30"x60 yds. Matte White					518030
178	2	EC film, Opaque, Pressure Sensitive, Cast Vinyl 30"x60 yds. Black					512050
179		EC film, Opaque, Pressure Sensitive, Cast Vinyl 30"x60 yds. Yellow					
180		EC film, Opaque, Pressure Sensitive, Cast Vinyl 30"x60 yds. Blue					
181		EC film, Opaque, Pressure Sensitive, Cast Vinyl 36"x60 yds. Matte White					
182	2	EC film, Opaque, Pressure Sensitive, Cast Vinyl 36"x60 yds. Black					518036

ITEM NUMBER	ESTIMATED QTY	DESCRIPTION	SPECIAL REQUIREMENTS	MANUFACTURER PRODUCT CODE	UNIT COST	TOTAL COST	INVENTORY SUBCODE (DOH USE ONLY)
BID ITEM SECTION III - E.C. & VINYL FILM DEPENDENT TYPE III SHEETINGS & TYPE III SHEETING FILMS (CONTINUED)							
183		EC film, Opaque, Pressure Sensitive, Cast Vinyl, 36"x50 yds	Yellow				512036
184		EC film, Opaque, Pressure Sensitive, Cast Vinyl, 36"x50 yds	Blue				
185		EC film, Opaque, Pressure Sensitive, Cast Vinyl, 48"x50 yds	Matte White				
186	2	EC film, Opaque, Pressure Sensitive, Cast Vinyl, 48"x50 yds	Black				518048
187		EC film, Opaque, Pressure Sensitive, Cast Vinyl, 48"x50 yds	Yellow				
188		EC film, Opaque, Pressure Sensitive, Cast Vinyl, 48"x50 yds	Blue				
189		EC film, Opaque, Pressure Sensitive, Cast Vinyl, 60"x50 yds	Matte White				
190		EC film, Opaque, Pressure Sensitive, Cast Vinyl, 60"x50 yds	Black				
191		EC film, Opaque, Pressure Sensitive, Cast Vinyl, 60"x50 yds	Yellow				
192		EC film, Opaque, Pressure Sensitive, Cast Vinyl, 60"x50 yds	Blue				

ITEM NUMBER	ESTIMATED QTY	DESCRIPTION	SPECIAL REQUIREMENTS	MANUFACTURER PRODUCT CODE	UNIT COST	TOTAL COST	INVENTORY SUBCODE (OOH USE ONLY)
BID ITEM SECTION IV - NON E.C. & VINYL FILM DEPENDENT TYPE III SHEETINGS							
193		Type ASTM-III Reflective Sheeting, Pressure Sensitive 1/2"x50 yds White	Width tolerance +0" to +1/16"				211950
194		Type ASTM-III Reflective Sheeting, Pressure Sensitive 1/2"x50 yds Yellow	Width tolerance +0" to +1/16"				
195		Type ASTM-III Reflective Sheeting, Pressure Sensitive 1"x50 yds White	Width tolerance +0" to +1/16"				211100
196		Type ASTM-III Reflective Sheeting, Pressure Sensitive 1"x50 yds Yellow	Width tolerance +0" to +1/16"				
197	4	Type ASTM-III Reflective Sheeting, Pressure Sensitive 12-3/4"x100 yds White	Item to be supplied in 50 yd rolls <input type="checkbox"/> Width tolerance +0" to +1/16"				211012
198		Type ASTM-III Reflective Sheeting, Pressure Sensitive 12-3/4"x100 yds Yellow	Item to be supplied in 50 yd rolls <input type="checkbox"/> Width tolerance +0" to +1/16"				212012
199	20	Type ASTM-III Reflective Sheeting, Pressure Sensitive 12-3/4"x100 yds Blue	Item to be supplied in 50 yd rolls <input type="checkbox"/> Width tolerance +0" to +1/16"				215012
200	27	Type ASTM-III Reflective Sheeting, Pressure Sensitive 12-3/4"x100 yds Green	Item to be supplied in 50 yd rolls <input type="checkbox"/> Width tolerance +0" to +1/16"				214012
201	3	Type ASTM-III Reflective Sheeting, Pressure Sensitive 12-3/4"x100 yds Brown	Item to be supplied in 50 yd rolls <input type="checkbox"/> Width tolerance +0" to +1/16"				216012
202		Type ASTM-III Reflective Sheeting, Pressure Sensitive 15"x50 yds Blue	Minimum width overage to be 1/16"				215015
203		Type ASTM-III Reflective Sheeting, Pressure Sensitive 15"x50 yds Green	Minimum width overage to be 1/16"				
204		Type ASTM-III Reflective Sheeting, Pressure Sensitive 15"x50 yds Brown	Minimum width overage to be 1/16"				
205		Type ASTM-III Reflective Sheeting, Pressure Sensitive 18"x50 yds Blue	Minimum width overage to be 1/2"				
206		Type ASTM-III Reflective Sheeting, Pressure Sensitive 18"x50 yds Green	Minimum width overage to be 1/2"				
207		Type ASTM-III Reflective Sheeting, Pressure Sensitive 18"x50 yds Brown	Minimum width overage to be 1/2"				
208		Type ASTM-III Reflective Sheeting, Pressure Sensitive 21"x50 yds Blue	Minimum width overage to be 1/2"				
209		Type ASTM-III Reflective Sheeting, Pressure Sensitive 21"x50 yds Green	Minimum width overage to be 1/2"				
210		Type ASTM-III Reflective Sheeting, Pressure Sensitive 21"x50 yds Brown	Minimum width overage to be 1/2"				
211		Type ASTM-III Reflective Sheeting, Pressure Sensitive 24"x50 yds Blue	Minimum width overage to be 1/2"				

ITEM NUMBER	ESTIMATED QTY	DESCRIPTION	SPECIAL REQUIREMENTS	MANUFACTURER PRODUCT CODE	UNIT COST	TOTAL COST	INVENTORY SUBCODE (DOH USE ONLY)
BID ITEM SECTION IV - NON E.C. & VINYL FILM DEPENDENT TYPE III SHEETINGS (CONTINUED)							
212		Type ASTM-II Reflective Sheeting, Pressure Sensitive 24"x50 yds. Green	Minimum width overage to be 1/2"				
213		Type ASTM-II Reflective Sheeting, Pressure Sensitive 24"x50 yds. Brown	Minimum width overage to be 1/2"				216024
214		Type ASTM-II Reflective Sheeting, Pressure Sensitive 30"x50 yds. Blue	Minimum width overage to be 1/2"				216030
215		Type ASTM-II Reflective Sheeting, Pressure Sensitive 30"x50 yds. Green	Minimum width overage to be 1/2"				216030
216		Type ASTM-II Reflective Sheeting, Pressure Sensitive 30"x50 yds. Brown	Minimum width overage to be 1/2"				216030
217		Type ASTM-II Reflective Sheeting, Pressure Sensitive 36"x50 yds. Blue	Minimum width overage to be 5/16"				216036
218		Type ASTM-II Reflective Sheeting, Pressure Sensitive 36"x50 yds. Green	Minimum width overage to be 5/16"				216036
219		Type ASTM-II Reflective Sheeting, Pressure Sensitive 36"x50 yds. Brown	Minimum width overage to be 5/16"				
220		Type ASTM-II Reflective Sheeting, Pressure Sensitive 42"x50 yds. Blue	Minimum width overage to be 5/16"				216042
221		Type ASTM-II Reflective Sheeting, Pressure Sensitive 42"x50 yds. Green	Minimum width overage to be 5/16"				216042
222		Type ASTM-II Reflective Sheeting, Pressure Sensitive 42"x50 yds. Brown	Minimum width overage to be 5/16"				
223		Type ASTM-II Reflective Sheeting, Pressure Sensitive 48"x50 yds. Blue	Minimum width overage to be 7/16"				216048
224		Type ASTM-II Reflective Sheeting, Pressure Sensitive 48"x50 yds. Green	Minimum width overage to be 7/16"				216048
225		Type ASTM-II Reflective Sheeting, Pressure Sensitive 48"x50 yds. Brown	Minimum width overage to be 7/16"				216048

ITEM NUMBER	ESTIMATED QTY	DESCRIPTION	SPECIAL REQUIREMENTS	MANUFACTURER PRODUCT CODE	UNIT COST	TOTAL COST	INVENTORY SUBCODE (DOH USE ONLY)
BID ITEM SECTION V - E.C. & VINYL FILM DEPENDENT TYPE IX OR XI SHEETINGS & TYPE IX OR XI SHEETING FILMS							
226	6	Type ASTM-XI or ASTM-XI Reflective Sheeting, Pressure Sensitive 9'x100 yds. Fluorescent Yellow-Green					
227	1	Type ASTM-XI or ASTM-XI Reflective Sheeting, Pressure Sensitive 12'x100 yds White					611012
228		Type ASTM-XI or ASTM-XI Reflective Sheeting, Pressure Sensitive 12'x100 yds Fluorescent Yellow					612012
229	2	Type ASTM-XI or ASTM-XI Reflective Sheeting, Pressure Sensitive 12-3/4'x100 yds Fluorescent Yellow-Green (To be used in the fabrication of flat sheet signs)	Item to be supplied in 50 yd rolls Width tolerance +0" to +1/16"				612412
230		Type ASTM-XI or ASTM-XI Reflective Sheeting, Pressure Sensitive 15'x50 yds. White	Minimum width overage to be 1/16"				
231		Type ASTM-XI or ASTM-XI Reflective Sheeting, Pressure Sensitive 15'x50 yds. Fluorescent Orange	Minimum width overage to be 1/16"				
232		Type ASTM-XI or ASTM-XI Reflective Sheeting, Pressure Sensitive 15'x50 yds. Fluorescent Yellow-Green	Minimum width overage to be 1/16"				
233		Type ASTM-XI or ASTM-XI Reflective Sheeting, Pressure Sensitive 15'x50 yds. Fluorescent Yellow-Green	Minimum width overage to be 1/16"				
234	1	Type ASTM-XI or ASTM-XI Reflective Sheeting, Pressure Sensitive 18'x50 yds. White	Minimum width overage to be 1/2"				611018
235	4	Type ASTM-XI or ASTM-XI Reflective Sheeting, Pressure Sensitive 18'x50 yds. Fluorescent Orange	Minimum width overage to be 1/2"				
236		Type ASTM-XI or ASTM-XI Reflective Sheeting, Pressure Sensitive 18'x50 yds. Fluorescent Yellow	Minimum width overage to be 1/2"				612018
237		Type ASTM-XI or ASTM-XI Reflective Sheeting, Pressure Sensitive 18'x50 yds. Fluorescent Yellow-Green	Minimum width overage to be 1/2"				612418
238		Type ASTM-XI or ASTM-XI Reflective Sheeting, Pressure Sensitive 21'x50 yds White	Minimum width overage to be 1/2"				
239		Type ASTM-XI or ASTM-XI Reflective Sheeting, Pressure Sensitive 21'x50 yds Fluorescent Orange	Minimum width overage to be 1/2"				
240		Type ASTM-XI or ASTM-XI Reflective Sheeting, Pressure Sensitive 21'x50 yds Fluorescent Yellow	Minimum width overage to be 1/2"				
241		Type ASTM-XI or ASTM-XI Reflective Sheeting, Pressure Sensitive 21'x50 yds Fluorescent Yellow-Green	Minimum width overage to be 1/2"				
242		Type ASTM-XI or ASTM-XI Reflective Sheeting, Pressure Sensitive 24'x50 yds. White	Minimum width overage to be 1/2"				611024
243	4	Type ASTM-XI or ASTM-XI Reflective Sheeting, Pressure Sensitive 24'x50 yds. Fluorescent Orange	Minimum width overage to be 1/2"				613024
244	12	Type ASTM-XI or ASTM-XI Reflective Sheeting, Pressure Sensitive 24'x50 yds. Fluorescent Yellow	Minimum width overage to be 1/2"				612024

ITEM NUMBER	ESTIMATED QTY	DESCRIPTION	SPECIAL REQUIREMENTS	MANUFACTURER PRODUCT CODE	UNIT COST	TOTAL COST	INVENTORY SUBCODE (DOH USE ONLY)
BID ITEM SECTION V - E.C. & VINYL FILM DEPENDENT TYPE IX OR XI SHEETINGS & TYPE IX OR XI SHEETING FILMS (CONTINUED)							
245		Type ASTM-K or ASTM-XI Reflective Sheeting, Pressure Sensitive 24"x50 yds. Fluorescent Yellow-Green	Minimum width overage to be 1/2"				612424
246		Type ASTM-K or ASTM-XI Reflective Sheeting, Pressure Sensitive 30"x50 yds White	Minimum width overage to be 1/2"				
247		Type ASTM-K or ASTM-XI Reflective Sheeting, Pressure Sensitive 30"x50 yds Fluorescent Orange	Minimum width overage to be 1/2"				613030
248	6	Type ASTM-K or ASTM-XI Reflective Sheeting, Pressure Sensitive 30"x50 yds Fluorescent Yellow	Minimum width overage to be 1/2"				612030
249	2	Type ASTM-K or ASTM-XI Reflective Sheeting, Pressure Sensitive 30"x50 yds Fluorescent Yellow-Green	Minimum width overage to be 1/2"				612430
250		Type ASTM-K or ASTM-XI Reflective Sheeting, Pressure Sensitive 36"x50 yds White	Minimum width overage to be 1/2"				611036
251	5	Type ASTM-K or ASTM-XI Reflective Sheeting, Pressure Sensitive 36"x50 yds Fluorescent Orange	Minimum width overage to be 5/16"				613036
252	12	Type ASTM-K or ASTM-XI Reflective Sheeting, Pressure Sensitive 36"x50 yds Fluorescent Yellow	Minimum width overage to be 5/16"				612036
253		Type ASTM-K or ASTM-XI Reflective Sheeting, Pressure Sensitive 36"x50 yds Fluorescent Yellow-Green	Minimum width overage to be 5/16"				612436
254		Type ASTM-K or ASTM-XI Reflective Sheeting, Pressure Sensitive 42"x50 yds. White	Minimum width overage to be 5/16"				
255		Type ASTM-K or ASTM-XI Reflective Sheeting, Pressure Sensitive 42"x50 yds. Fluorescent Orange	Minimum width overage to be 5/16"				
256		Type ASTM-K or ASTM-XI Reflective Sheeting, Pressure Sensitive 42"x50 yds. Fluorescent Yellow	Minimum width overage to be 3/16"				
257		Type ASTM-K or ASTM-XI Reflective Sheeting, Pressure Sensitive 42"x50 yds. Fluorescent Yellow-Green	Minimum width overage to be 5/16"				
258	2	Type ASTM-K or ASTM-XI Reflective Sheeting, Pressure Sensitive 48"x50 yds White	Minimum width overage to be 7/16"				611048
259	3	Type ASTM-K or ASTM-XI Reflective Sheeting, Pressure Sensitive 48"x50 yds Fluorescent Orange	Minimum width overage to be 7/16"				613048

ITEM NUMBER	ESTIMATED QTY	DESCRIPTION	SPECIAL REQUIREMENTS	MANUFACTURER PRODUCT CODE	UNIT COST	TOTAL COST	INVENTORY SUBCODE (DO NOT USE ON L)
BID ITEM SECTION V - EC & VINYL FILM DEPENDENT TYPE IX OR XI SHEETINGS & TYPE IX OR XI SHEETING FILMS (CONTINUED)							
260	12	Type ASTM-XI or ASTM-XI Reflective Sheeting, Pressure Sensitive 48"x50 yds. Fluorescent Yellow	Minimum width overage to be 7/16"				612048
261		Type ASTM-XI or ASTM-XI Reflective Sheeting, Pressure Sensitive 48"x50 yds. Fluorescent Yellow-Green	Minimum width overage to be 7/16"				612448
262		EC film, Transparent, Pressure Sensitive, Acrylic 12"x50 yds. Yellow					
263		EC film, Transparent, Pressure Sensitive, Acrylic 12"x50 yds. Red					
264		EC film, Transparent, Pressure Sensitive, Acrylic 12"x50 yds. Blue					
265		EC film, Transparent, Pressure Sensitive, Acrylic 12"x50 yds. Green					
266		EC film, Transparent, Pressure Sensitive, Acrylic 12"x50 yds. Brown					
267		EC film, Transparent, Pressure Sensitive, Acrylic 15"x50 yds. Yellow					
268		EC film, Transparent, Pressure Sensitive, Acrylic 15"x50 yds. Red					
269		EC film, Transparent, Pressure Sensitive, Acrylic 15"x50 yds. Blue					
270		EC film, Transparent, Pressure Sensitive, Acrylic 15"x50 yds. Green					
271		EC film, Transparent, Pressure Sensitive, Acrylic 15"x50 yds. Brown					
272		EC film, Transparent, Pressure Sensitive, Acrylic 18"x50 yds. Yellow					
273		EC film, Transparent, Pressure Sensitive, Acrylic 18"x50 yds. Red					
274		EC film, Transparent, Pressure Sensitive, Acrylic 18"x50 yds. Blue					
275		EC film, Transparent, Pressure Sensitive, Acrylic 18"x50 yds. Green					904018
276		EC film, Transparent, Pressure Sensitive, Acrylic 18"x50 yds. Brown					906018
277		EC film, Transparent, Pressure Sensitive, Acrylic 24"x50 yds. Yellow					902024
278		EC film, Transparent, Pressure Sensitive, Acrylic 24"x50 yds. Red					907024
279		EC film, Transparent, Pressure Sensitive, Acrylic 24"x50 yds. Blue					903024
280		EC film, Transparent, Pressure Sensitive, Acrylic 24"x50 yds. Green					904024
281		EC film, Transparent, Pressure Sensitive, Acrylic 24"x50 yds. Brown					906024
282		EC film, Transparent, Pressure Sensitive, Acrylic 30"x50 yds. Yellow					
283		EC film, Transparent, Pressure Sensitive, Acrylic 30"x50 yds. Red					907030
284		EC film, Transparent, Pressure Sensitive, Acrylic 30"x50 yds. Blue					905030
285		EC film, Transparent, Pressure Sensitive, Acrylic 30"x50 yds. Green					904030
286		EC film, Transparent, Pressure Sensitive, Acrylic 30"x50 yds. Brown					906030
287		EC film, Transparent, Pressure Sensitive, Acrylic 36"x50 yds. Yellow					902036

ITEM NUMBER	ESTIMATED QTY	DESCRIPTION	SPECIAL REQUIREMENTS	MANUFACTURER PRODUCT CODE	UNIT COST	TOTAL COST	INVENTORY SUECODE (DOH USE ONLY)
BID ITEM SECTION V - E.C. & VINYL FILM DEPENDENT TYPE IX OR XI SHEETINGS & TYPE IX OR XI SHEETING FILMS (CONTINUED)							
288		EC film, Transparent, Pressure Sensitive, Acrylic 36"x50 yds. Red					
289		EC film, Transparent, Pressure Sensitive, Acrylic 36"x50 yds. Blue					906036
290		EC film, Transparent, Pressure Sensitive, Acrylic 36"x50 yds. Green					904036
291		EC film, Transparent, Pressure Sensitive, Acrylic 36"x50 yds. Brown					906036
292		EC film, Transparent, Pressure Sensitive, Acrylic 42"x50 yds. Yellow					
293		EC film, Transparent, Pressure Sensitive, Acrylic 42"x50 yds. Red					
294		EC film, Transparent, Pressure Sensitive, Acrylic 42"x50 yds. Blue					
295		EC film, Transparent, Pressure Sensitive, Acrylic 42"x50 yds. Green					904042
296		EC film, Transparent, Pressure Sensitive, Acrylic 42"x50 yds. Brown					
297		EC film, Transparent, Pressure Sensitive, Acrylic 48"x50 yds. Yellow					
298		EC film, Transparent, Pressure Sensitive, Acrylic 48"x50 yds. Red					
299		EC film, Transparent, Pressure Sensitive, Acrylic 48"x50 yds. Blue					905048
300		EC film, Transparent, Pressure Sensitive, Acrylic 48"x50 yds. Green					904048
301		EC film, Transparent, Pressure Sensitive, Acrylic 48"x50 yds. Brown					908048
302		EC film, Opaque, Pressure Sensitive, Cast Vinyl 36"x50 yds. Black (Opaque)					518038
303		EC film, Opaque, Pressure Sensitive, Cast Vinyl 5/8"x50 yds. Black (Opaque)					518082
304		EC film, Opaque, Pressure Sensitive, Cast Vinyl 3/4"x50 yds. Black (Opaque)					518075
305		EC film, Opaque, Pressure Sensitive, Cast Vinyl 7/8"x50 yds. Black (Opaque)					518088
306	1	EC film, Opaque, Pressure Sensitive, Cast Vinyl 1-1/4"x50 yds. Black (Opaque)					548325
307		EC film, Opaque, Pressure Sensitive, Cast Vinyl 18"x50 yds. Matte White					
308		EC film, Opaque, Pressure Sensitive, Cast Vinyl 18"x50 yds. Black					
309		EC film, Opaque, Pressure Sensitive, Cast Vinyl 18"x50 yds. Yellow					
310		EC film, Opaque, Pressure Sensitive, Cast Vinyl 18"x50 yds. Blue					
311		EC film, Opaque, Pressure Sensitive, Cast Vinyl 24"x50 yds. Matte White					
312	2	EC film, Opaque, Pressure Sensitive, Cast Vinyl 24"x50 yds. Black					518024
313		EC film, Opaque, Pressure Sensitive, Cast Vinyl 24"x50 yds. Yellow					

ITEM NUMBERS	ESTIMATED QTY	DESCRIPTION	SPECIAL REQUIREMENTS	MANUFACTURER PRODUCT CODE	UNIT COST	TOTAL COST	INVENTORY SUBCODE (DOH USE ONLY)
BID ITEM SECTION V - E.C. & VINYL FILM DEPENDENT TYPE IX OR XI SHEETINGS & TYPE IX OR XI SHEETING FILMS (CONTINUED)							
314		EC film, Opaque, Pressure Sensitive, Cast Vinyl, 24"x50 yds					
315		EC film, Opaque, Pressure Sensitive, Cast Vinyl, 30"x50 yds					
316	2	EC film, Opaque, Pressure Sensitive, Cast Vinyl, 30"x50 yds					518030
317		EC film, Opaque, Pressure Sensitive, Cast Vinyl, 30"x50 yds					512030
318		EC film, Opaque, Pressure Sensitive, Cast Vinyl, 30"x50 yds					
319		EC film, Opaque, Pressure Sensitive, Cast Vinyl, 36"x50 yds					
320	2	EC film, Opaque, Pressure Sensitive, Cast Vinyl, 36"x50 yds					518036
321		EC film, Opaque, Pressure Sensitive, Cast Vinyl, 36"x50 yds					512036
322		EC film, Opaque, Pressure Sensitive, Cast Vinyl, 36"x50 yds					
323		EC film, Opaque, Pressure Sensitive, Cast Vinyl, 48"x50 yds					
324	1	EC film, Opaque, Pressure Sensitive, Cast Vinyl, 48"x50 yds					518048
325		EC film, Opaque, Pressure Sensitive, Cast Vinyl, 48"x50 yds					
326		EC film, Opaque, Pressure Sensitive, Cast Vinyl, 48"x50 yds					
327		EC film, Opaque, Pressure Sensitive, Cast Vinyl, 60"x50 yds					
328		EC film, Opaque, Pressure Sensitive, Cast Vinyl, 60"x50 yds					
329		EC film, Opaque, Pressure Sensitive, Cast Vinyl, 60"x50 yds					
330		EC film, Opaque, Pressure Sensitive, Cast Vinyl, 60"x50 yds					

ITEM NUMBER	ESTIMATED QTY	DESCRIPTION	SPECIAL REQUIREMENTS	MANUFACTURER PRODUCT CODE	UNIT COST	TOTAL COST	INVENTORY SUBCODE (DOH USE ONLY)
BID ITEM SECTION VI - NON E.C. & VINYL FILM DEPENDENT TYPE IX OR XI SHEETINGS							
331		Type ASTM-K or ASTM-XI Reflective Sheeting, Pressure Sensitive 12-3/4" x 100 yds White	Item to be supplied Width tolerance +0" to +1/16" In 50 yd rolls <input type="checkbox"/>				611012
332		Type ASTM-K or ASTM-XI Reflective Sheeting, Pressure Sensitive 12-3/4" x 100 yds Blue	Item to be supplied Width tolerance +0" to +1/16" In 50 yd rolls <input type="checkbox"/>				
333		Type ASTM-K or ASTM-XI Reflective Sheeting, Pressure Sensitive 12-3/4" x 100 yds Green	Item to be supplied Width tolerance +0" to +1/16" In 50 yd rolls <input type="checkbox"/>				614012
334		Type ASTM-K or ASTM-XI Reflective Sheeting, Pressure Sensitive 12-3/4" x 100 yds Fluorescent Orange	Item to be supplied Width tolerance +0" to +1/16" In 50 yd rolls <input type="checkbox"/>				613012
335	2	Type ASTM-K or ASTM-XI Reflective Sheeting, Pressure Sensitive 12-3/4" x 100 yds Fluorescent Yellow	Item to be supplied Width tolerance +0" to +1/16" In 50 yd rolls <input type="checkbox"/>				612012
336		Type ASTM-K or ASTM-XI Reflective Sheeting, Pressure Sensitive 12-3/4" x 100 yds Fluorescent Yellow-Green (To be used in the fabrication of extruded panel signs)	Item to be supplied Width tolerance +0" to +1/16" In 50 yd rolls <input type="checkbox"/>				612412
337		Type ASTM-K or ASTM-XI Reflective Sheeting, Pressure Sensitive 15" x 50 yds Blue					
338		Type ASTM-K or ASTM-XI Reflective Sheeting, Pressure Sensitive 15" x 50 yds Green					
339		Type ASTM-K or ASTM-XI Reflective Sheeting, Pressure Sensitive 18" x 50 yds Blue					
340		Type ASTM-K or ASTM-XI Reflective Sheeting, Pressure Sensitive 18" x 50 yds Green					
341		Type ASTM-K or ASTM-XI Reflective Sheeting, Pressure Sensitive 21" x 50 yds Blue					
342		Type ASTM-K or ASTM-XI Reflective Sheeting, Pressure Sensitive 21" x 50 yds Green					
343		Type ASTM-K or ASTM-XI Reflective Sheeting, Pressure Sensitive 24" x 50 yds Blue					
344		Type ASTM-K or ASTM-XI Reflective Sheeting, Pressure Sensitive 24" x 50 yds Green					
345		Type ASTM-K or ASTM-XI Reflective Sheeting, Pressure Sensitive 30" x 50 yds Blue					
346		Type ASTM-K or ASTM-XI Reflective Sheeting, Pressure Sensitive 30" x 50 yds Green					
347		Type ASTM-K or ASTM-XI Reflective Sheeting, Pressure Sensitive 36" x 50 yds Blue					
348		Type ASTM-K or ASTM-XI Reflective Sheeting, Pressure Sensitive 36" x 50 yds Green					

ITEM NUMBER	ESTIMATED CITY	DESCRIPTION	SPECIAL REQUIREMENTS	MANUFACTURER PRODUCT CODE	UNIT COST	TOTAL COST	INVENTORY SUBCODE (POH USE ONLY)
BID ITEM SECTION VI - NON E.C. & VINYL FILM DEPENDENT TYPE IX OR XI SHEETINGS (CONTINUED)							
349		Type ASTM-K or ASTM-XI Reflective Sheeting, Pressure Sensitive 42"x50 yds. Blue	Minimum width overage to be 516"				
350		Type ASTM-K or ASTM-XI Reflective Sheeting, Pressure Sensitive 42"x50 yds. Green	Minimum width overage to be 516"				
351		Type ASTM-K or ASTM-XI Reflective Sheeting, Pressure Sensitive 48"x50 yds. Blue	Minimum width overage to be 716"				
352		Type ASTM-K or ASTM-XI Reflective Sheeting, Pressure Sensitive 48"x50 yds. Green	Minimum width overage to be 719"				

RFQ No. _____

STATE OF WEST VIRGINIA
Purchasing Division

PURCHASING AFFIDAVIT

West Virginia Code §5A-3-10a states: No contract or renewal of any contract may be awarded by the state or any of its political subdivisions to any vendor or prospective vendor when the vendor or prospective vendor or a related party to the vendor or prospective vendor is a debtor and the debt owed is an amount greater than one thousand dollars in the aggregate.

DEFINITIONS:

"Debt" means any assessment, premium, penalty, fine, tax or other amount of money owed to the state or any of its political subdivisions because of a judgment, fine, permit violation, license assessment, defaulted workers' compensation premium, penalty or other assessment presently delinquent or due and required to be paid to the state or any of its political subdivisions, including any interest or additional penalties accrued thereon.

"Debtor" means any individual, corporation, partnership, association, limited liability company or any other form or business association owing a debt to the state or any of its political subdivisions. "Political subdivision" means any county commission; municipality; county board of education; any instrumentality established by a county or municipality; any separate corporation or instrumentality established by one or more counties or municipalities, as permitted by law; or any public body charged by law with the performance of a government function or whose jurisdiction is coextensive with one or more counties or municipalities. "Related party" means a party, whether an individual, corporation, partnership, association, limited liability company or any other form or business association or other entity whatsoever, related to any vendor by blood, marriage, ownership or contract through which the party has a relationship of ownership or other interest with the vendor so that the party will actually or by effect receive or control a portion of the benefit, profit or other consideration from performance of a vendor contract with the party receiving an amount that meets or exceeds five percent of the total contract amount.

EXCEPTION: The prohibition of this section does not apply where a vendor has contested any tax administered pursuant to chapter eleven of this code, workers' compensation premium, permit fee or environmental fee or assessment and the matter has not become final or where the vendor has entered into a payment plan or agreement and the vendor is not in default of any of the provisions of such plan or agreement.

Under penalty of law for false swearing (*West Virginia Code §61-5-3*), it is hereby certified that the vendor affirms and acknowledges the information in this affidavit and is in compliance with the requirements as stated.

WITNESS THE FOLLOWING SIGNATURE

Vendor's Name: _____

Authorized Signature: _____ Date: _____

State of _____

County of _____, to-wit:

Taken, subscribed, and sworn to before me this ____ day of _____, 20__.

My Commission expires _____, 20__.

AFFIX SEAL HERE

NOTARY PUBLIC _____

State of West Virginia VENDOR PREFERENCE CERTIFICATE

Certification and application* is hereby made for Preference in accordance with **West Virginia Code**, §5A-3-37. (Does not apply to construction contracts). **West Virginia Code**, §5A-3-37, provides an opportunity for qualifying vendors to request (at the time of bid) preference for their residency status. Such preference is an evaluation method only and will be applied only to the cost bid in accordance with the **West Virginia Code**. This certificate for application is to be used to request such preference. The Purchasing Division will make the determination of the Resident Vendor Preference, if applicable.

- 1. **Application is made for 2.5% resident vendor preference for the reason checked:**
 Bidder is an individual resident vendor and has resided continuously in West Virginia for four (4) years immediately preceding the date of this certification; **or**,
 Bidder is a partnership, association or corporation resident vendor and has maintained its headquarters or principal place of business continuously in West Virginia for four (4) years immediately preceding the date of this certification; or 80% of the ownership interest of Bidder is held by another individual, partnership, association or corporation resident vendor who has maintained its headquarters or principal place of business continuously in West Virginia for four (4) years immediately preceding the date of this certification; **or**,
 Bidder is a nonresident vendor which has an affiliate or subsidiary which employs a minimum of one hundred state residents and which has maintained its headquarters or principal place of business within West Virginia continuously for the four (4) years immediately preceding the date of this certification; **or**,
- 2. **Application is made for 2.5% resident vendor preference for the reason checked:**
 Bidder is a resident vendor who certifies that, during the life of the contract, on average at least 75% of the employees working on the project being bid are residents of West Virginia who have resided in the state continuously for the two years immediately preceding submission of this bid; **or**,
- 3. **Application is made for 2.5% resident vendor preference for the reason checked:**
 Bidder is a nonresident vendor employing a minimum of one hundred state residents or is a nonresident vendor with an affiliate or subsidiary which maintains its headquarters or principal place of business within West Virginia employing a minimum of one hundred state residents who certifies that, during the life of the contract, on average at least 75% of the employees or Bidder's affiliate's or subsidiary's employees are residents of West Virginia who have resided in the state continuously for the two years immediately preceding submission of this bid; **or**,
- 4. **Application is made for 5% resident vendor preference for the reason checked:**
 Bidder meets either the requirement of both subdivisions (1) and (2) or subdivision (1) and (3) as stated above; **or**,
- 5. **Application is made for 3.5% resident vendor preference who is a veteran for the reason checked:**
 Bidder is an individual resident vendor who is a veteran of the United States armed forces, the reserves or the National Guard and has resided in West Virginia continuously for the four years immediately preceding the date on which the bid is submitted; **or**,
- 6. **Application is made for 3.5% resident vendor preference who is a veteran for the reason checked:**
 Bidder is a resident vendor who is a veteran of the United States armed forces, the reserves or the National Guard, if, for purposes of producing or distributing the commodities or completing the project which is the subject of the vendor's bid and continuously over the entire term of the project, on average at least seventy-five percent of the vendor's employees are residents of West Virginia who have resided in the state continuously for the two immediately preceding years.

Bidder understands if the Secretary of Revenue determines that a Bidder receiving preference has failed to continue to meet the requirements for such preference, the Secretary may order the Director of Purchasing to: (a) reject the bid; or (b) assess a penalty against such Bidder in an amount not to exceed 5% of the bid amount and that such penalty will be paid to the contracting agency or deducted from any unpaid balance on the contract or purchase order.

By submission of this certificate, Bidder agrees to disclose any reasonably requested information to the Purchasing Division and authorizes the Department of Revenue to disclose to the Director of Purchasing appropriate information verifying that Bidder has paid the required business taxes, provided that such information does not contain the amounts of taxes paid nor any other information deemed by the Tax Commissioner to be confidential.

Under penalty of law for false swearing (West Virginia Code, §61-5-3), Bidder hereby certifies that this certificate is true and accurate in all respects; and that if a contract is issued to Bidder and if anything contained within this certificate changes during the term of the contract, Bidder will notify the Purchasing Division in writing immediately.

Bidder: _____ Signed: _____

Date: _____ Title: _____

**Check any combination of preference consideration(s) indicated above, which you are entitled to receive.*