



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:  
 HST0816

PAGE  
 1

ADDRESS CORRESPONDENCE TO ATTENTION OF:  
 JOHN ABBOTT  
 304-558-2544

RFQ COPY  
 TYPE NAME/ADDRESS HERE

VENDOR

SHIP TO

HEALTH, SAFETY AND TRAINING  
 OFFICE OF MINERS'  
 1615 WASHINGTON STREET EAST  
 CHARLESTON, WV  
 25311

DATE PRINTED 09/28/2007	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
BID OPENING DATE: 10/16/2007		BID OPENING TIME 01:30PM		

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
0001	1	LS		956-70		
BLAST WAVE MITIGATION STUDY  CONTRACT TO PROVIDE ALL LABOR, MATERIALS, AND EQUIPMENT NECESSARY TO CONDUCT A BLAST WAVE MITIGATION STUDY PER THE ATTACHED SPECIFICATIONS.  NOTE: THE SUCCESSFUL BIDDER MUST REGISTER WITH THE PURCHASING DIVISION PRIOR TO RECEIVING A CONTRACT.  BIDS MAY BE VIEWED AFTER THE BID OPENING AT: WWW.STATE.WV.US/ADMIN/PURCHASE - "VISIT OUR SITE MAP"; "RECEIVED BIDS"; "DATE OF BID OPENING".  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).  A. APPLICATION IS MADE FOR 2.5% PREFERENCE FOR THE REASON CHECKED:  <input type="checkbox"/> 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  <input type="checkbox"/> BIDDER IS A PARTNERSHIP, ASSOCIATION OR CORPORA-						

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WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'

**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. All quotations are governed by the *West Virginia Code* and the *Legislative Rules* of the Purchasing Division.
4. Prior to any award, the apparent successful vendor must be properly registered with the Purchasing Division and have paid the required \$125.00 registration fee.
5. All services performed or goods delivered under State Purchase Orders/Contracts are to be continued for the term of the Purchase Order/Contract, 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.
6. Payment may only be made after the delivery and acceptance of goods or services.
7. Interest may be paid for late payment in accordance with the *West Virginia Code*.
8. Vendor preference will be granted upon written request in accordance with the *West Virginia Code*.
9. The State of West Virginia is exempt from federal and state taxes and will not pay or reimburse such taxes.
10. The Director of Purchasing may cancel any Purchase Order/Contract upon 30 days written notice to the seller.
11. The laws of the State of West Virginia and the *Legislative Rules* of the Purchasing Division shall govern all rights and duties under the Contract, including without limitation the validity of this Purchase Order/Contract.
12. Any reference to automatic renewal is hereby deleted. The Contract may be renewed only upon mutual written agreement of the parties.
13. **BANKRUPTCY:** In the event the vendor/contractor files for bankruptcy protection, this Contract may be deemed null and void, and terminated without further order.
14. **HIPAA Business Associate Addendum -** The West Virginia State Government HIPAA Business Associate Addendum (BAA), approved by the Attorney General, and available online at the Purchasing Division's web site (<http://www.state.wv.us/admin/purchase/vrc/hipaa.htm>) is hereby made part of the agreement. Provided that, the Agency meets the definition of a Covered Entity (45 CFR §160.103) and will be disclosing Protected Health Information (45 CFR §160.103) to the vendor.

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**INSTRUCTIONS TO BIDDERS**

1. Use the quotation forms provided by the Purchasing Division.
2. **SPECIFICATIONS:** 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. Complete all sections of the quotation form.
4. Unit prices shall prevail in cases of discrepancy.
5. All quotations are considered F.O.B. destination unless alternate shipping terms are clearly identified in the quotation.
6. **BID SUBMISSION:** 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.

**SIGNED BID TO:**

Department of Administration  
Purchasing Division  
2019 Washington Street East  
Post Office Box 50130  
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				<p>TION RESIDENT VENDOR AND HAS MAINTAINED ITS HEAD-            QUARTERS 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 VENDO            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</p> <p>( ) BIDDER IS A CORPORATION NONRESIDENT VENDOR            WHICH HAS AN AFFILIATE OR SUBSIDIARY WHICH EMPLOYS            A MINIMUM OF ONE HUNDRED STATE RESIDENTS AND WHICH            HAS MAINTAINED ITS HEAQUARTERS OR PRINCIPAL PLACE OF            BUSINESS WITHIN WEST VIRGINIA CONTINUOUSLY FOR THE            FOUR (4) YEARS IMMEDIATELY PRECEDING THE DATE OF THIS            CERTIFICATION.</p> <p>B. APPLICATION IS MADE FOR 2.5% PREFERENCE FOR THE            REASON CHECKED:</p> <p>( ) 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</p> <p>( ) 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</p>		

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<p>75% OF THE EMPLOYEES OR BIDDERS' 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.</p> <p>BIDDER UNDERSTANDS IF THE SECRETARY OF TAX &amp; 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) RESCIND THE CONTRACT OR PURCHASE ORDER ISSUED; 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.</p> <p>BY SUBMISSION OF THIS CERTIFICATE, BIDDER AGREES TO DISCLOSE ANY REASONABLY REQUESTED INFORMATION TO THE PURCHASING DIVISION AND AUTHORIZES THE DEPARTMENT OF TAX AND 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.</p> <p>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.</p> <p style="text-align: center;">BIDDER: -----</p>						

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<p>DATE: -----</p> <p>SIGNED: -----</p> <p>TITLE: -----</p> <p>* CHECK ANY COMBINATION OF PREFERENCE CONSIDERATION(S) IN EITHER "A" OR "B", OR BOTH "A" AND "B" WHICH YOU ARE ENTITLED TO RECEIVE. YOU MAY REQUEST UP TO THE MAXIMUM 5% PREFERENCE FOR BOTH "A" AND "B".            (REV. 12/00)</p> <p>NOTICE</p> <p>A SIGNED BID MUST BE SUBMITTED TO:</p> <p>DEPARTMENT OF ADMINISTRATION            PURCHASING DIVISION            BUILDING 15            2019 WASHINGTON STREET, EAST            CHARLESTON, WV 25305-0130</p> <p>THE BID SHOULD CONTAIN THIS INFORMATION ON THE FACE OF THE ENVELOPE OR THE BID MAY NOT BE CONSIDERED:</p> <p>SEALED BID</p> <p>BUYER: JOHN ABBOTT-----</p>						

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				10/16/2007		
				1:30 PM		
PLEASE PROVIDE A FAX NUMBER IN CASE IT IS NECESSARY TO CONTACT YOU REGARDING YOUR BID:						
-----						
CONTACT PERSON (PLEASE PRINT CLEARLY):						
-----						
***** THIS IS THE END OF RFQ HST0816 ***** TOTAL:						

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## Scope-of-Work

### **Blast mitigation project for West Virginia's Office of Miner's Health, Safety & Training (OMHS&T)**

#### **Key Capabilities needed to qualify as a bidder:**

The bidder shall be experienced in calculating methane/air explosions in 2-D and 3-D environments where pressure levels indicating detonation occur. The computer codes used shall have the demonstrated capability to accurately model the physics of shock waves including reflection and diffractions in air and in reactive gases, such as methane/air mixtures, to pressure level of several hundred psi up to about 1000 psi or more. The codes shall have the capability to realistically model deflagration, detonation, and the transition between the two (DDT) in fully 3-D environments. The more respected modeling in recent literature uses Arrhenius kinetics to determine the burn rate. Greater accuracy is obtained if appropriate equations of state (other than ideal gas) are used to model the higher pressures levels of detonation level pulses and their reflections. The codes shall be sufficiently efficient so that grids adequate for capturing shocks may be used in 3-D calculations. The codes shall have demonstrated capabilities to model blast wave interactions with seals, ventilation stoppings, and other similar items including the break up of seals and blast wave energy dissipation.

**Objective** - This work will provide a basis to estimate likely ranges for the highest pressure, pressure-time history and impulse loading that can develop on explosion-resistant seals with and without blast wave mitigation obstructions placed inby the seals (e.g. bulk rock dust, bagged rock dust, gob piles, caved material) are placed upstream of the containment seal.

#### **Model – Large explosion volume models (8 model runs) Figure 1**

The model shall estimate the likely ranges for the highest pressure, pressure-time history and impulse loading that can develop on an explosion-resistant seal during a worst-case explosion scenario with and without obstructions placed upstream of the seals. The gob obstructions and bagged rock dust serve to redistribute the blast energy away from the seal through reflection, energy absorption and quenching.

The model shall be of a “confined” explosion, of equivalent geometry to that shown in Figure 1. The ignition point is at one end of a gas-filled tunnel(s), and the seal(s) is at the other end. The size of the sealed area shall be ~650 feet long with 3 entries. The model shall be run with and without obstructions in place. These simple numerical tests will determine whether the explosion pressure and rates of pressure loading on the seal are significantly reduced. The model shall be consistent with a simplified essence of the most likely worst-case gas explosion scenario within a large sealed volume where an explosive mix of 10% methane and air accumulates.

**Constraints:** Drain pipes shall be positioned at the bottom to prevent the obstruction or blockages from serving as a water containment dam. Size and location and water content will be agreed up before conducting the simulations.

## Simulations:

The following shall be the minimum calculation scenarios that are required to achieve the objective, investigate the concept of using obstructions to reduce the blast load on seals, and to set the level of effort of this work.

1. Pressure histories on the seals without obstructions at P1, P2, and P3 and approximate run up distance to DDT (see Figure 1).
2. Pressure histories on the seals (P1, P2, P3) and obstructions (O1, O2, O3) with entry almost completely blocked with ~ 1000 tons of powdered limestone (rock dust) 75% < 20 microns in ~ 4x 4 ft tote bags <http://www.abgpackaging.com/page2.php> hung from roof bolts in the entries inby the seals and the stowed gob material (see illustrations in Figure 1 and 4).
3. Same as 2 except the gob material is replaced with tote bags and/or 40 lb rock dust bags (see Figure 1 and 5).
4. Pressure histories on the seals (P1, P2, P3); blockage B1, B2, B3 and obstructions (O1, O2, O3) as described in 2. Additional blockage consisting of 8 ~1200 lb tote bags hung across the entry near the intersection and gob material stowed under as illustrated in Figures 2 and 4.
5. Same as 4 except the upstream blockages are created by shooting-down intersection as illustrated in Figure 3 and 6.
6. Spark ignition (ignition 2) inby the seal in 1.
- 7, 8 Optional runs depending on results of 2,3,4,5 to improve blast shielding of gob containment seals. Such issues shall include deflagration instead of detonation which could pre-compress the gas between the obstruction and seal before ignition occurs with the obstruction closer to the seal.

Depending on the results of simulations 2-6, subsequent calculations may be modified to improve the performance of the obstruction or to investigate more promising concepts. One or more of the calculations shall also be redirected to compare the results of the 3-entry model of Figure 1 with a 5-entry model produced by adding two additional entries and extend the cross cuts of Figure 1.

The computer code used for these calculations must be validated to handle DDT and detonation simulations. The code must also have a demonstrated ability to provide accurate simulations of complex shock wave interactions such as those that will develop in multiple entry (3-entry to 10-entry) coal mines. The code will require the capability to treat a multi-material, mixed material environment of burned and unburned methane-air, rock dust, water, and water vapor.

As preliminary information is developed and reviewed by OMHS&T it is understood that it may be necessary and desirable to adjust or change certain conditions or criteria of the model in order to better accomplish the overall objective.



Deliverables for this effort shall be as follows:

- 1) Gas explosion calculations from 3 entry test scenario Figure 1. These shall include text files and plots of pressure, particle velocity, density, and temperature waveforms.
- 2) Pressure versus time, flame arrival time and air velocity histories at each seal location and at obstructions (O1, O2, O3, P1, P2, P3-Figure 1) and a few other points as requested.
- 3) A report describing the work performed, blast mitigation effects offered by the 3 scenarios shall be delivered, including key parameters and assumptions such as obstruction size, roof gap, with and without water barriers, interpretation and comments on feasibility and limitations of the blast shielding of methane air detonations. The report shall describe the physical (EOS, burn model, etc.), computer modeling, and the results of calculations.
- 4) Images of the flame front and pressure at various stages of the simulation. (Digital Video)

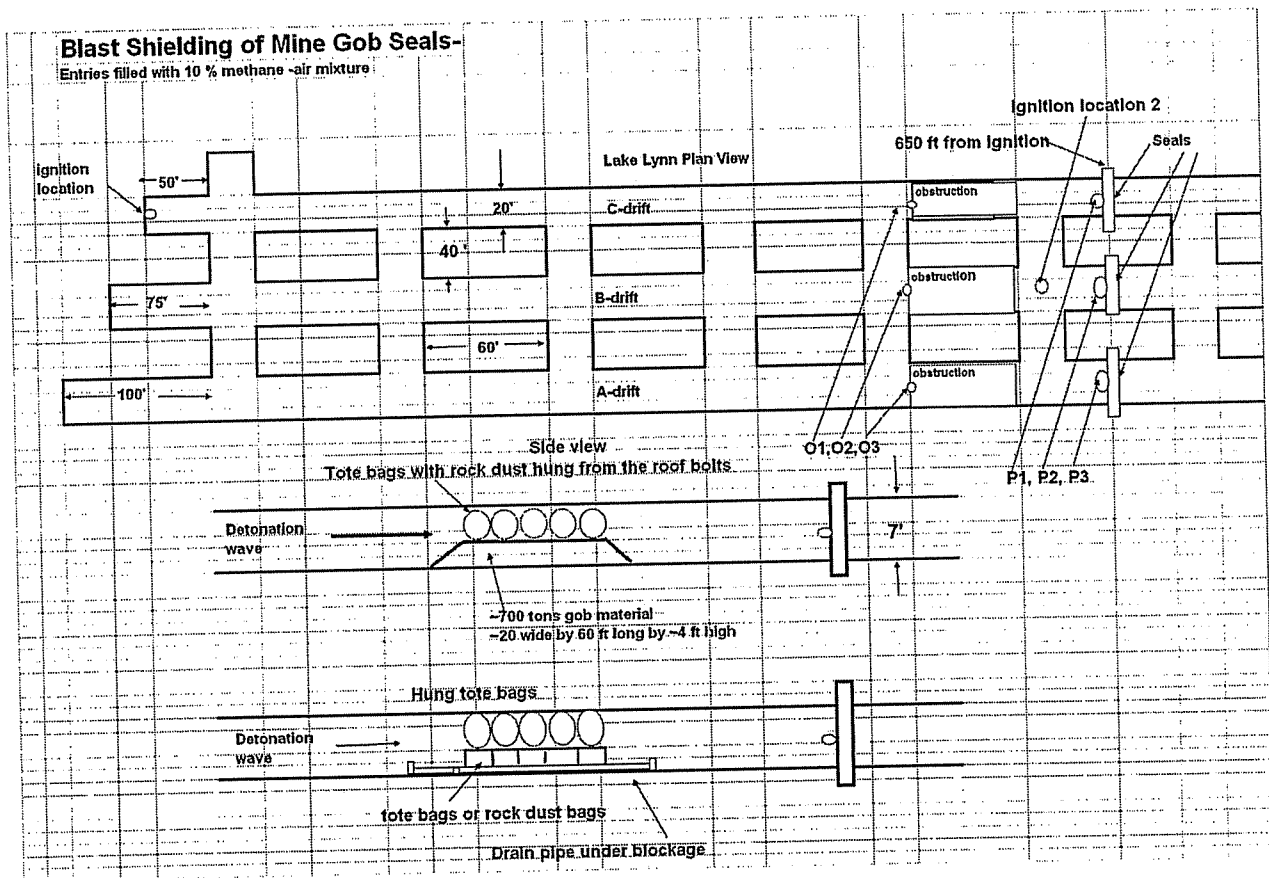


Figure 1. The model geometry shall be of the configuration shown, including obstructions.

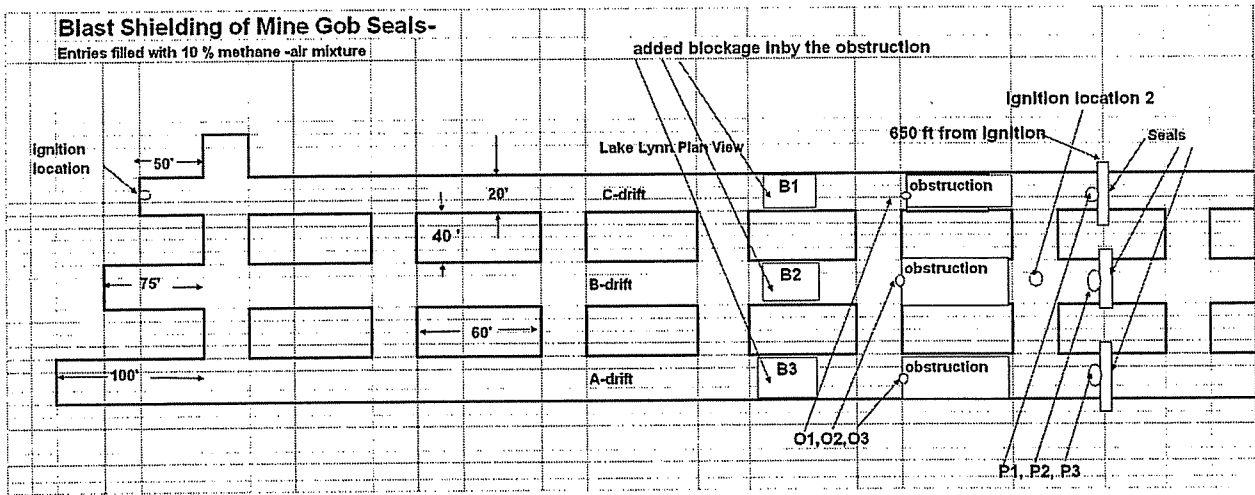


Figure 2. The model geometry shall be of the configuration shown, with obstructions and added blockages.

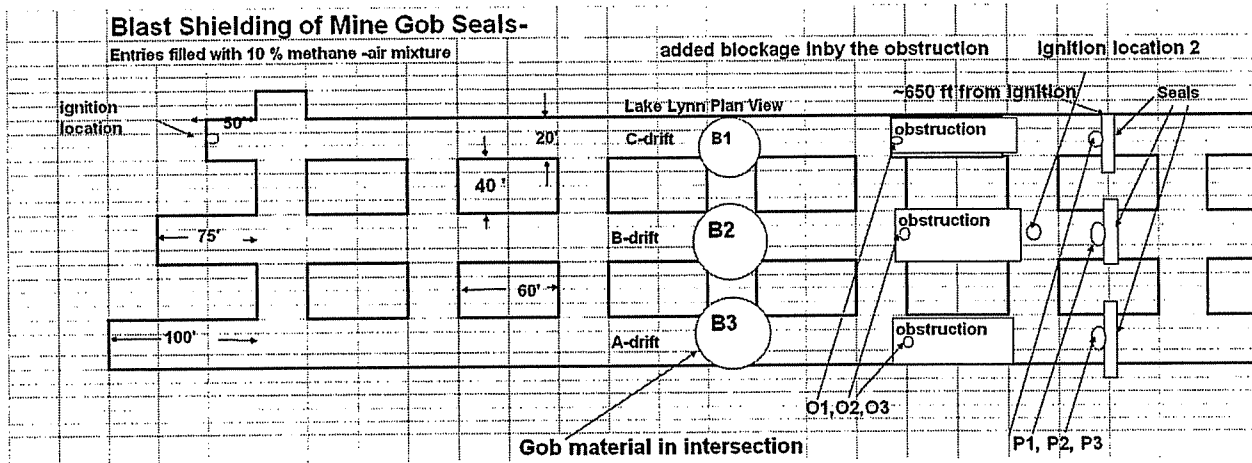


Figure 3. The model geometry shall be of the configuration shown, with added blockages.

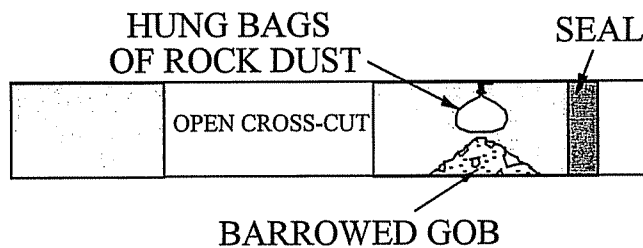


Figure 4. The model geometry shall be of the configuration shown for a mitigation structure comprised of one or more rows of hanging bulk bag rock dust.

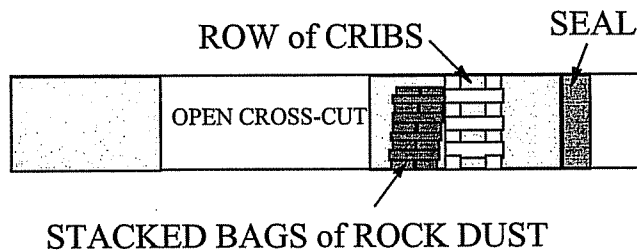


Figure 5. The model geometry shall be of the configuration shown for a mitigation structure comprised of a row of stacked cribs and a row of cross-linked 40-lb bags of rock dust.

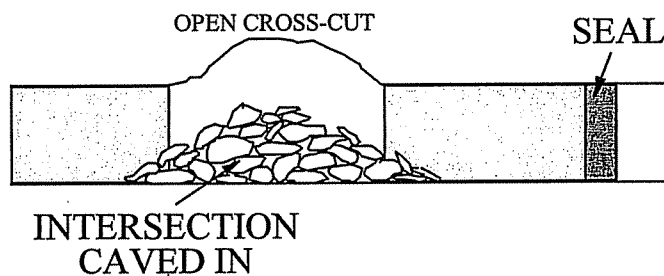


Figure 6. The model geometry shall be of the configuration shown for a mitigation structure comprised of a gob pile created by shooting-down intersection inby seal

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 owned 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 exceed 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.

**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, West Virginia Insurance Commission, or any other state agencies or political subdivision. Furthermore, 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.

**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. Vendors should visit [www.state.wv.us/admin/purchase/privacy](http://www.state.wv.us/admin/purchase/privacy) for the Notice of Agency Confidentiality Policies.

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

Vendor's Name: \_\_\_\_\_

Authorized Signature: \_\_\_\_\_ Date: \_\_\_\_\_