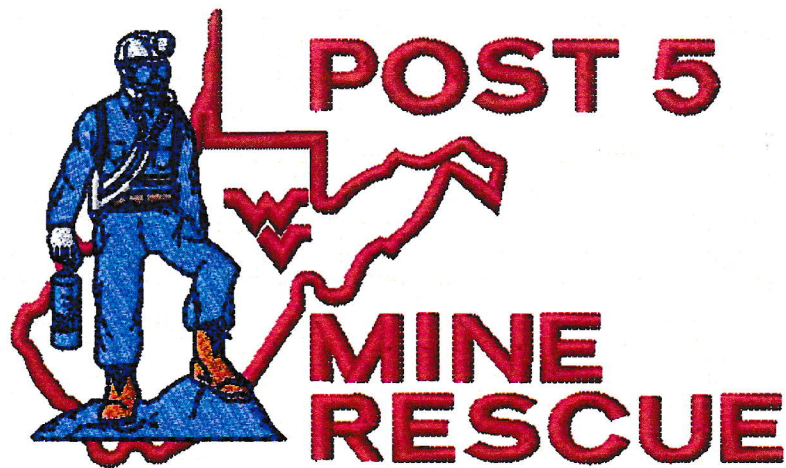


**2014 POST NO. 5 &
WEST VIRGINIA STATE
MINE RESCUE
CONTEST
DAY 2**



**August 13, 2014
Mylan Park
Morgantown, WEST VIRGINIA**

Post 5 and West Virginia State Mine Rescue Contest
Day 2

Welcome to the Mountaineer Gold Mine and thank you for responding to our emergency. This is a four unit shaft mine ventilated with a single exhaust fan and two intake shafts. One intake shaft has just recently been opened into the mine on the 4 North Main Section. Two of our sections, 2 East and 3 East have just recently connected and we will be setting up our first longwall unit within the month. About 12:55 this morning we received a call from the 1 East section that they had lost their air. At about the same time we also received a call from the local farmer who monitors our fan that there was a loud noise and the fan alarm sounded. He checked the fan and found that the fan was not running. We attempted to contact everyone underground and have them exit the mine. We have been able to contact everyone except the miners on the 4 North Main Section. All other miners have exited the mine. The four-man maintenance crew was sent to the 4 North Main Section to do maintenance on some of the equipment last night. We have still not been able to contact any of that crew. A mine rescue team has been working their way up the 4 North Main Section which is walking height, but has been hampered by adverse roof conditions, water and methane. They had explored up to the 23rd crosscut of 4 North Main Section and had to return to the surface due to an apparatus failure of one of the team members. All the electrical circuits have been deenergized, locked and tagged out in the mine. The main fan is still not in operation, but I have received word that it should be in operation shortly. Once started, the fan cannot be stopped, stalled or reversed. If you may need ventilation on the section, please contact the mine superintendent for the status of the fan. Ventilation in the 4 North Main Section normally intakes up the No. 1 entry and returns out the No. 3 entry.

Mine maps (up-to-date as of the end of afternoon shift) and the written problem will be given to you when you arrive at the Fresh Air Base established at the 23rd crosscut and are ready to begin.

Good Luck

**2014 Post 5 and West Virginia State Mine Rescue
Contest
Day 2
Problem
(Written Instructions)**

**EXPLORE ALL AREAS OF THE MINE THAT CAN BE
SAFELY EXPLORED**

**ACCOUNT FOR ALL MISSING MINERS AND BRING
SURVIVORS TO THE FRESH AIR BASE**

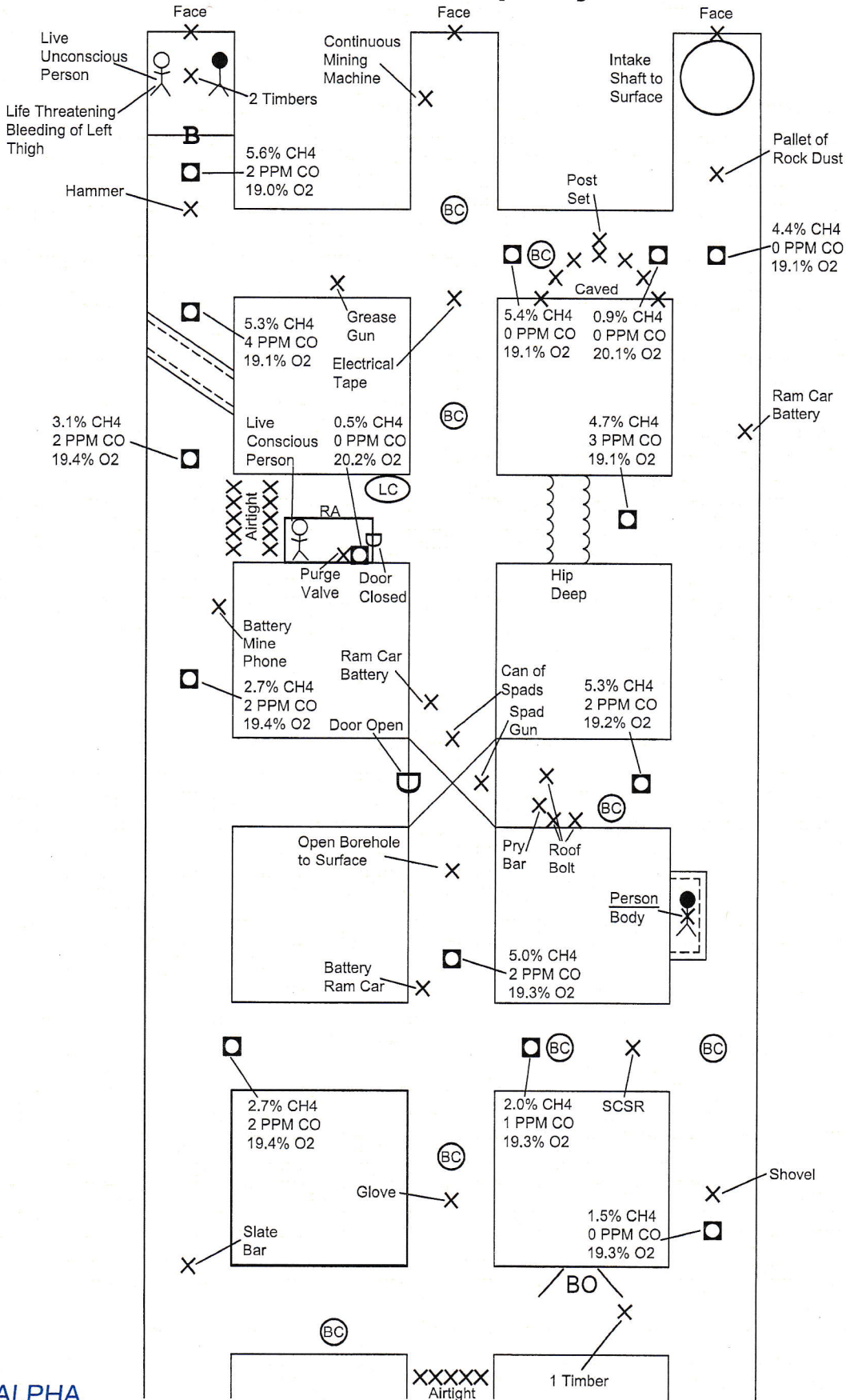
**THE TEAM MAY NOT CARRY MORE THAN TWO (2)
BRATTICE CLOTHS AT ANY ONE TIME**

**ONCE STARTED, THE FAN CANNOT BE STOPPED,
STALLED, OR REVERSED**

**YOU HAVE A MAXIMUM OF 80 MINUTES TO
WORK THE PROBLEM**

2014 Post 5 and West Virginia State Mine Rescue Contest

Problem Map - Day 2



2014 Post 5 and West Virginia State Mine Rescue Contest

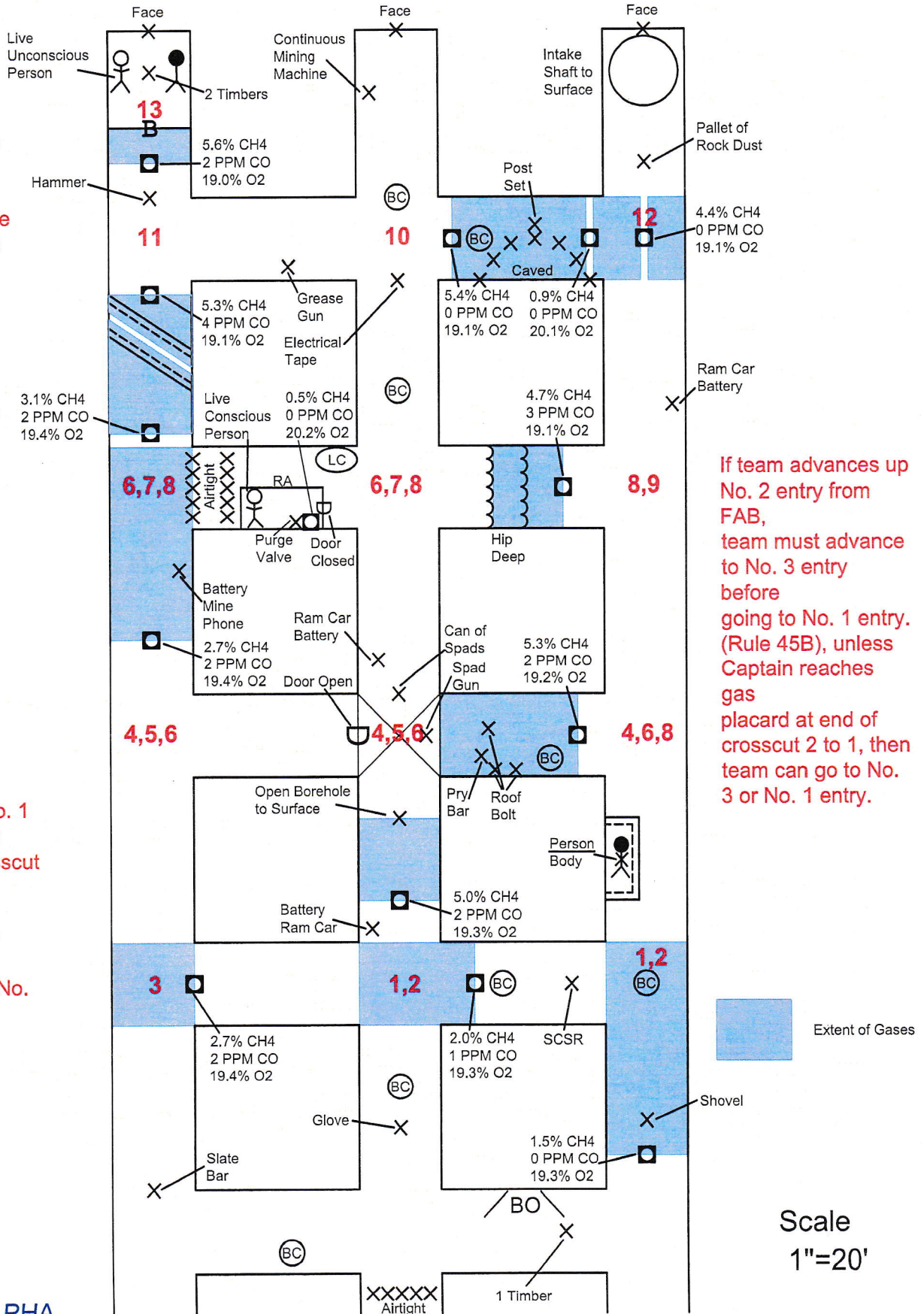
Possible Team Stops - Day 2

From team stop 10, team must advance to No. 1 entry, (team stop 11) before going to No. 3 entry. (Rule 45B)

Before team advances into LOC, they must explore No. 3 entry up to and including the 2nd intersetion. (Rule 45E)

Team must advance in No. 1 or No. 2 entry from 2nd crosscut due to contaminant in No. 1 entry before advancing in No. 3. (Rule 45B)

If team advances up No. 2 entry from FAB, team must advance to No. 3 entry before going to No. 1 entry. (Rule 45B), unless Captain reaches gas placard at end of crosscut 2 to 1, then team can go to No. 3 or No. 1 entry.

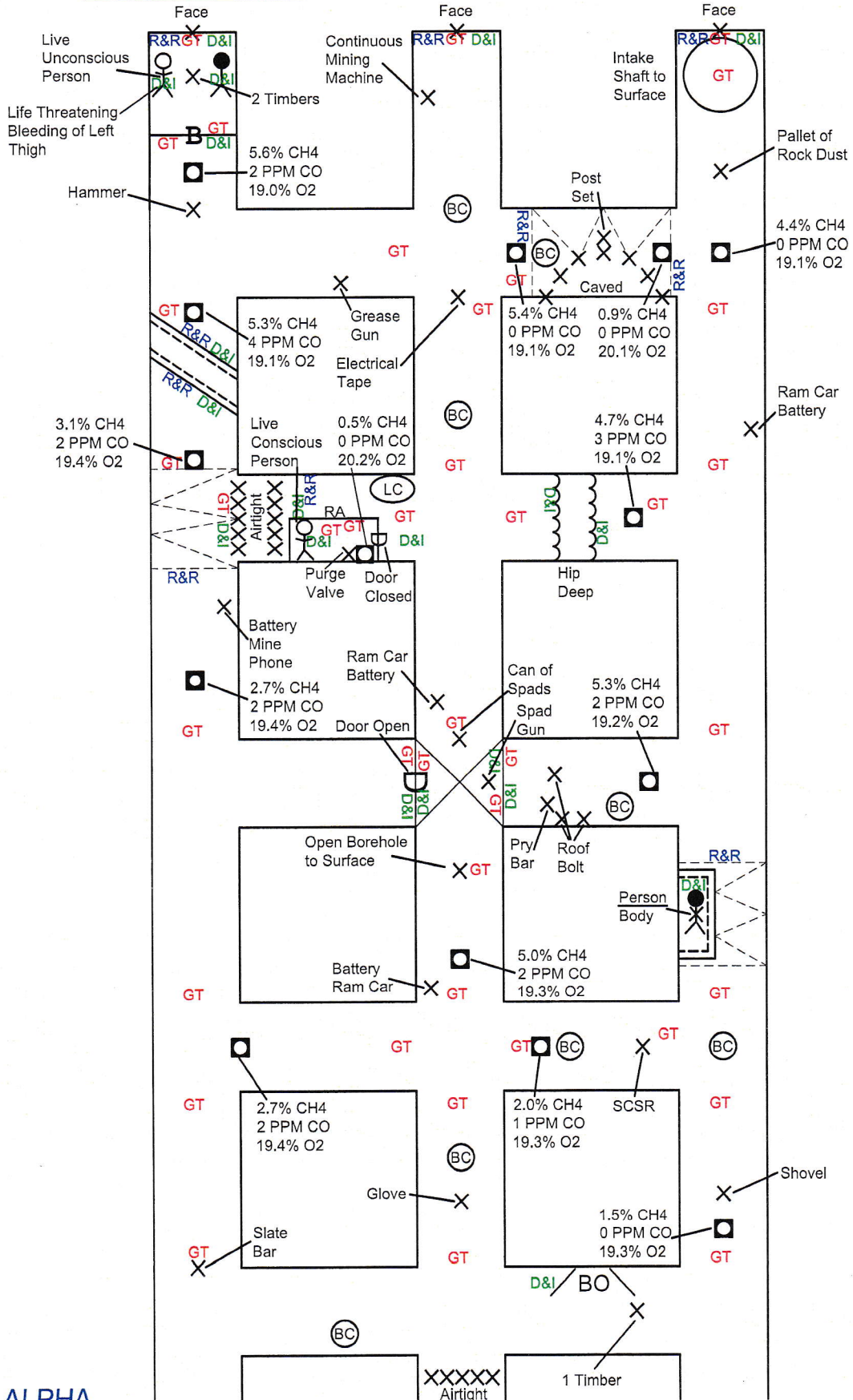


2014 Post 5 and West Virginia State Mine Rescue Contest

R&R Roof & Rib Test

GT CH4-CO-O2 Test

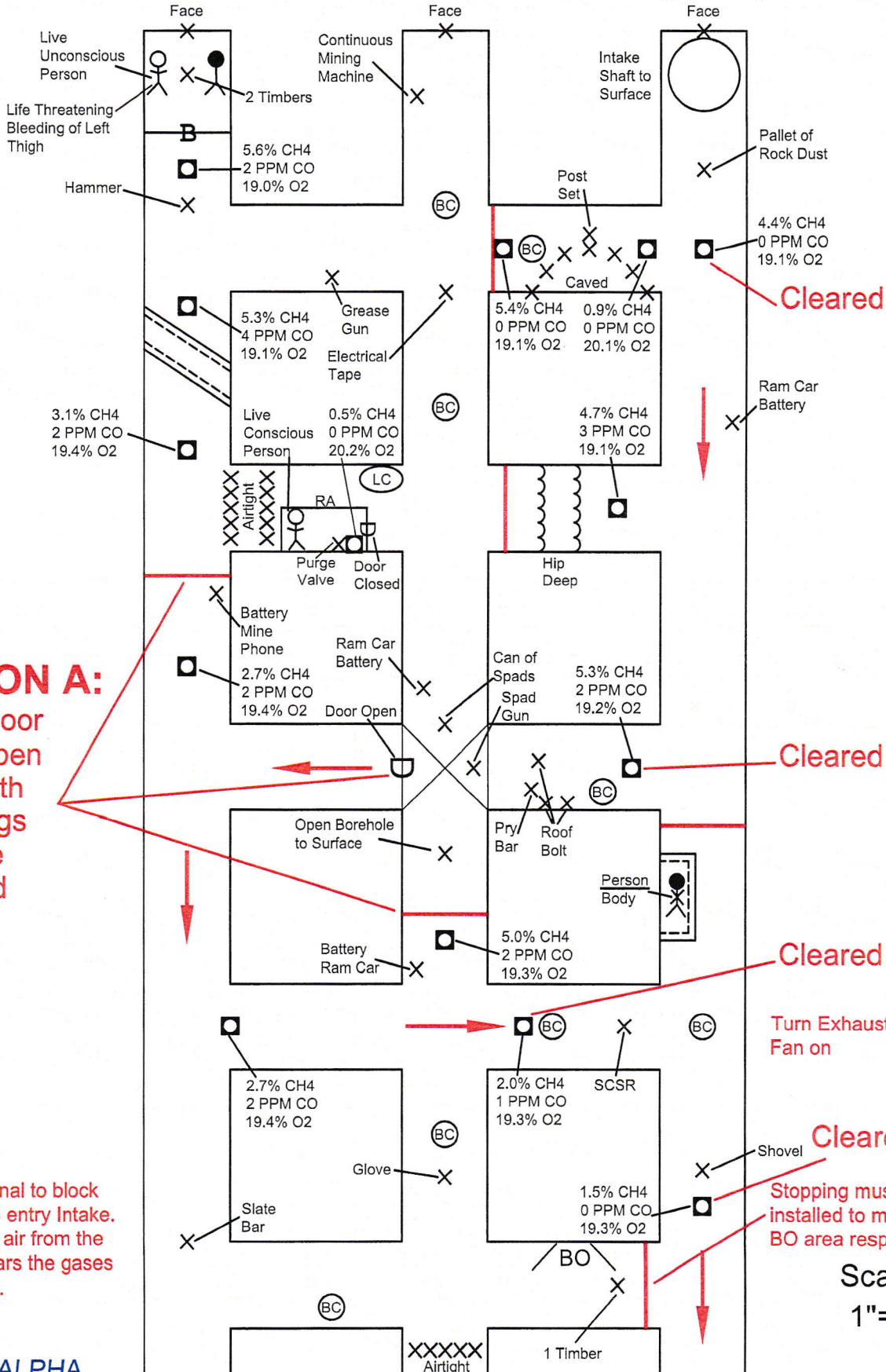
D&I Date & Initial



Scale
1"=20'

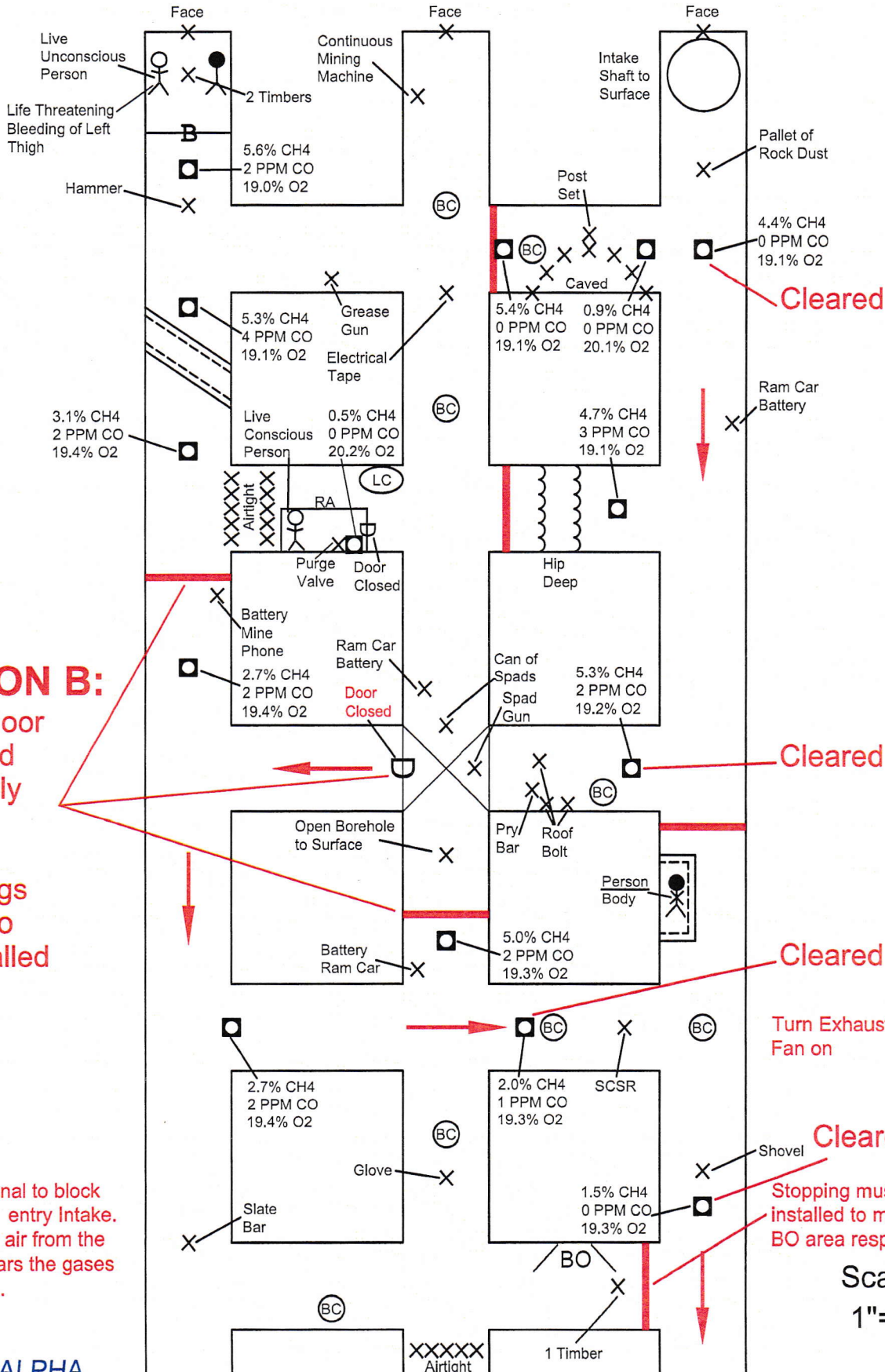
2014 Post 5 and West Virginia State Mine Rescue Contest

First Ventilation - Day 2



2014 Post 5 and West Virginia State Mine Rescue Contest

First Ventilation - Day 2



OPTION B:
If O/C door is closed then only one of either stoppings needs to be installed

It is optional to block the No. 1 entry Intake. All of the air from the shaft clears the gases indicated.

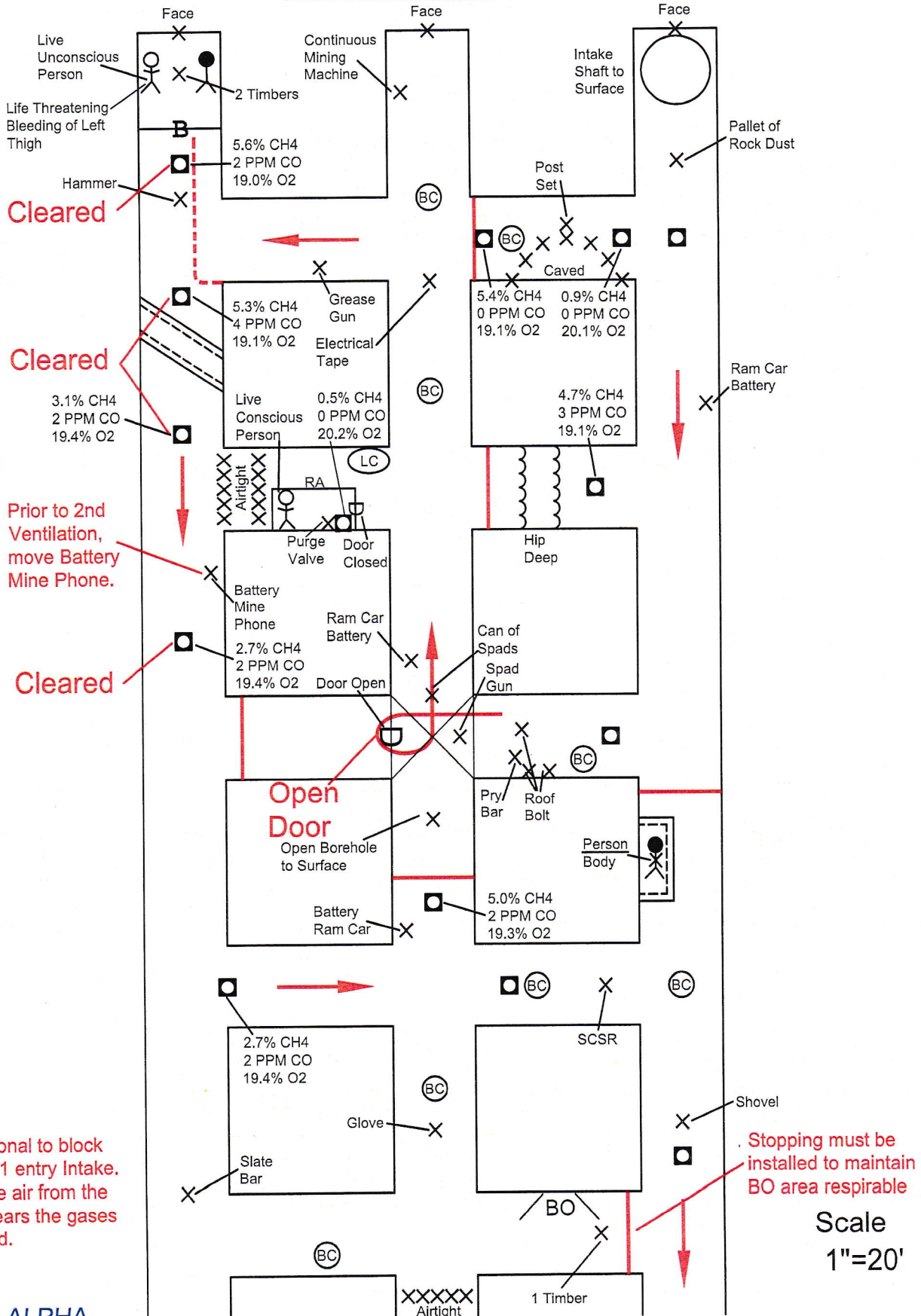
Turn Exhaust Fan on

Cleared
Stopping must be installed to maintain BO area respirable

Scale
1"=20'

2014 Post 5 and West Virginia State Mine Rescue Contest

Second Ventilation - Day 2



It is optional to block the No. 1 entry Intake. All of the air from the shaft clears the gases indicated.

Stopping must be installed to maintain BO area respirable

Scale
1"=20'

Day 2
Patient in RA

**Help get me out of
here!**

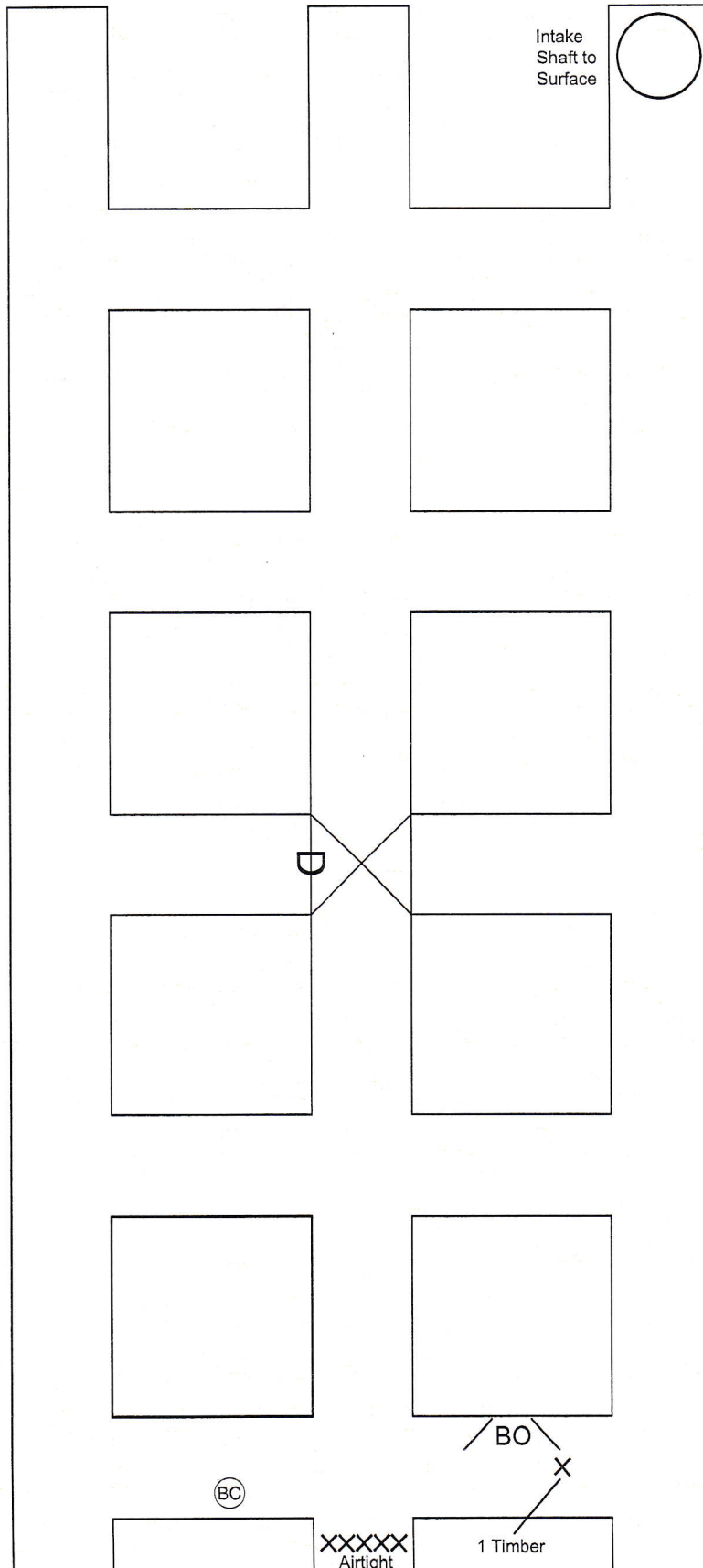
2014 Post 5 and West Virginia State Mine Rescue Contest

Team No. _____

Final Ventilation Day 2

Field No. _____

Show Ventilation Structures left intact when clock was stopped



Captain's Initials _____

Scale
1"=20'

Brattice Cloth Found in Problem

- ❖ Brattice Cloth attached on both sides of an entry or crosscut will represent: Intact permanent or temporary stoppings, or stoppings with door closed. The placard will specifically identify the structure.
- ❖ Brattice Cloth attached only on one side of entry or crosscut will represent: Permanent or temporary stoppings not intact, damaged or partially destroyed, or stoppings with doors open. The placard will specifically identify the structure.
- ❖ A brattice cloth lying across an entry or crosscut with neither end attached will represent a completely destroyed permanent or temporary stopping. The material may be used to build a temporary stopping. The placard will specifically identify the structure.
- ❖ Each Brattice Cloth is provided with a date board. ALL D&I's REQUIRED BY THE RULES FOR STOPPINGS, OVERCASTS, ETC. SHALL BE LOCATED ON THE DATE BOARDS.
- ❖ Barricades and overcasts may be constructed using the typical brattice frames and brattice cloths or new short brattice cloths. Overcasts and barricades cannot be dismantled.
- ❖ A team may only carry two Brattice Cloths at any one time.

Conditions such as caved areas, unsafe roof areas, bodies of water, will extend rib to rib, perpendicular to team travel unless otherwise indicated by ribbon.