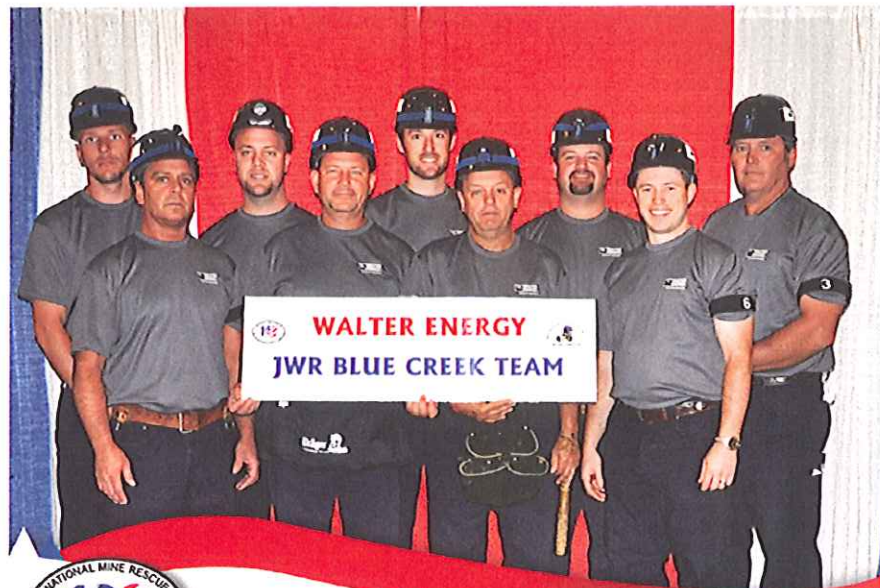


# 2012 JWR Spring Contest



2011 National Mine Rescue Contest

October 3-6, 2011

Columbus, Ohio



**WALTER  
ENERGY™**

## JWR Company Contest 2012

Thank you for responding to our call for help. Last night around 4:00 AM something happened on the Two Left Section. Eight miners were on the section when they felt a sudden rush of air and all ventilation stoppings were blown out. Three of the men were injured by the blast. Two other men transported them to the surface. The other miners were going to try and repair the ventilation structures.

Another crew was sent to help. They established ventilation to this crosscut of the section. They were beginning to encounter pockets of low oxygen and high methane so we thought we should call in the mine rescue team. You will be the first team in by this point. A backup team is on the surface.

The mine is ventilated by a Joy model 14 RU hydraulic fan built in 1978. It has been very dependable but is beginning to show signs of wear and tear. Do not stall the fan. We are afraid it will not survive such pressures. It must remain running to ventilate the rest of the mine. The fan is exhausting and cannot be reversed.

The last call out from the section indicated that the oxygen was getting bad and the miners were going to

barricade. One of the tracking devices indicated that someone may be in the refuge alternative. One of the other trackers indicates that someone may be in the face of the number three entry. The other tracker appears not to be working.

This section was driving towards a projected air shaft in the Number one entry. The map is a projection. They had not connected the to the shaft as of the day shift yesterday. The number three entry was ahead of the other two. The evening shift was told to catch the other two entries up to the number three entry and should they connect to the shaft, seal the shaft off from the rest of the mine. Our evening shift supervisor failed to fill out a report. We are trying to locate either him or one of his crew to update their progress. As soon as we know anything we will update you.

That is all the information we have at this time. Good Luck!

Problem

Rescue any survivors.

Call out any explosive mixtures  
before ventilating them.

Refuge alternative patient statement:

Help, help, get me out. I am in here by myself. I don't have a spotter and am feeling dizzy.

Barricade patient statement:

Help, help, get me out.

3' Diameter shaft

Cut Through  
to the  
surface

X

|XXXX|

2.6  
12  
14

ⓐ

6  
2  
16  
6  
2  
16

FACE

X X  
ⓐ B  
ⓐ

4 Timbers

CONSCIOUS  
LIVE  
PERSON

ⓐ

ⓐ

Battery  
Scoop

X

X X  
X X  
X X  
X X

↑ ↑  
AIRTIGHT

X

Person/Body

XXXXX

XXXXX

2% CH<sub>4</sub>  
2 PPM CO  
12.2% O<sub>2</sub>

ⓐ

RA

OK ⓐ ⓐ

Purge Valve

X

cap  
light  
battery

2  
2  
19.2

ⓐ

X

Rock  
dust  
bags

ⓐ

Battery  
Scoop

X

BO

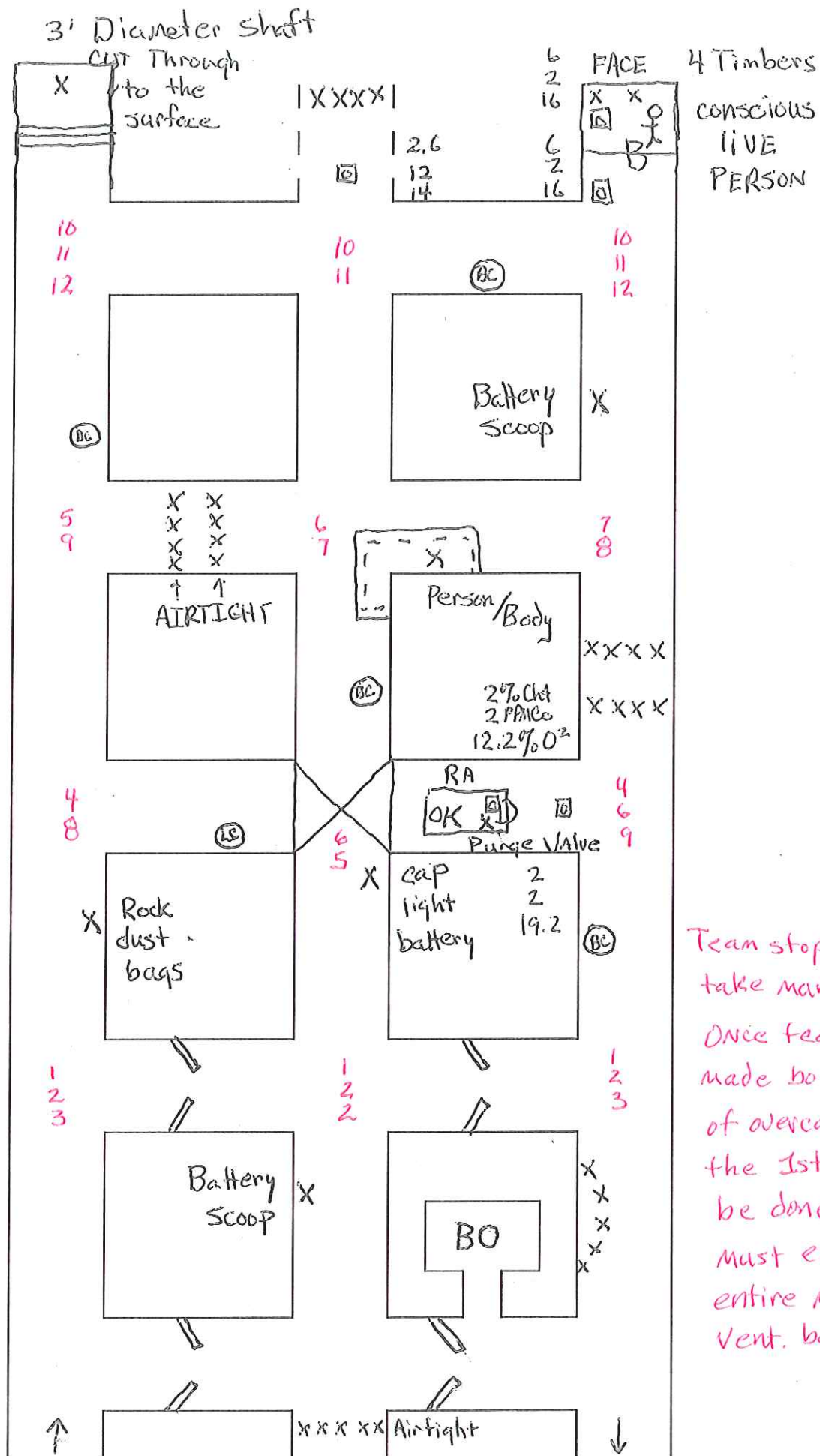
X  
X  
X  
X  
X

↑

XXXXXX

Airtight

↓



Team stops can take many paths. Once team has made both sides of overcast walls the 1st vent. can be done. Team must explore entire mine to vent. barricade.



Hand-drawn schematic diagram of a space station layout. The diagram shows various rooms and corridors, with labels and symbols indicating specific features and connections.

**Rooms and Features:**

- Top Left:** "CUT Through to the surface" (with "X" and "GT" labels).
- Top Right:** "FACE" (with "GT" and "BC" labels).
- Middle Left:** "Battery Scoop" (with "GT" and "BC" labels).
- Middle Right:** "Person/Body" (with "GT" and "BC" labels).
- Bottom Left:** "Rock dust bags" (with "GT" and "BC" labels).
- Bottom Left (Lower):** "Battery Scoop" (with "GT" and "BC" labels).
- Bottom Right:** "BO" (with "GT" and "BC" labels).
- Bottom Center:** "Airtight" (with "GT" and "BC" labels).

**Corridors and Connections:**

- Corridors are marked with "GT" and "BC" labels.
- A central area is marked "AIRTIGHT" with "2% CH4", "2% PHCO", and "12.2% O2".
- A "Purge Valve" is located near the center.
- A "Cap light battery" is shown near the center.

**Other Symbols:**

- "X" marks are scattered throughout the diagram.
- "OK" is written in a box near the center.
- "GT" and "BC" are used as labels for various components.

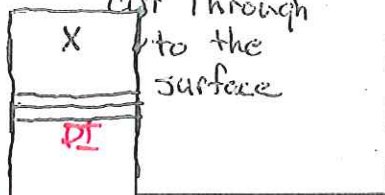
## Extent of

GAS TEST  
DEPEND ON  
DIRECTION  
OF TRAVEL  
The 1st & 4th  
CROSSCUTS  
particuarally.

## GAS TEST

3' Diameter shaft

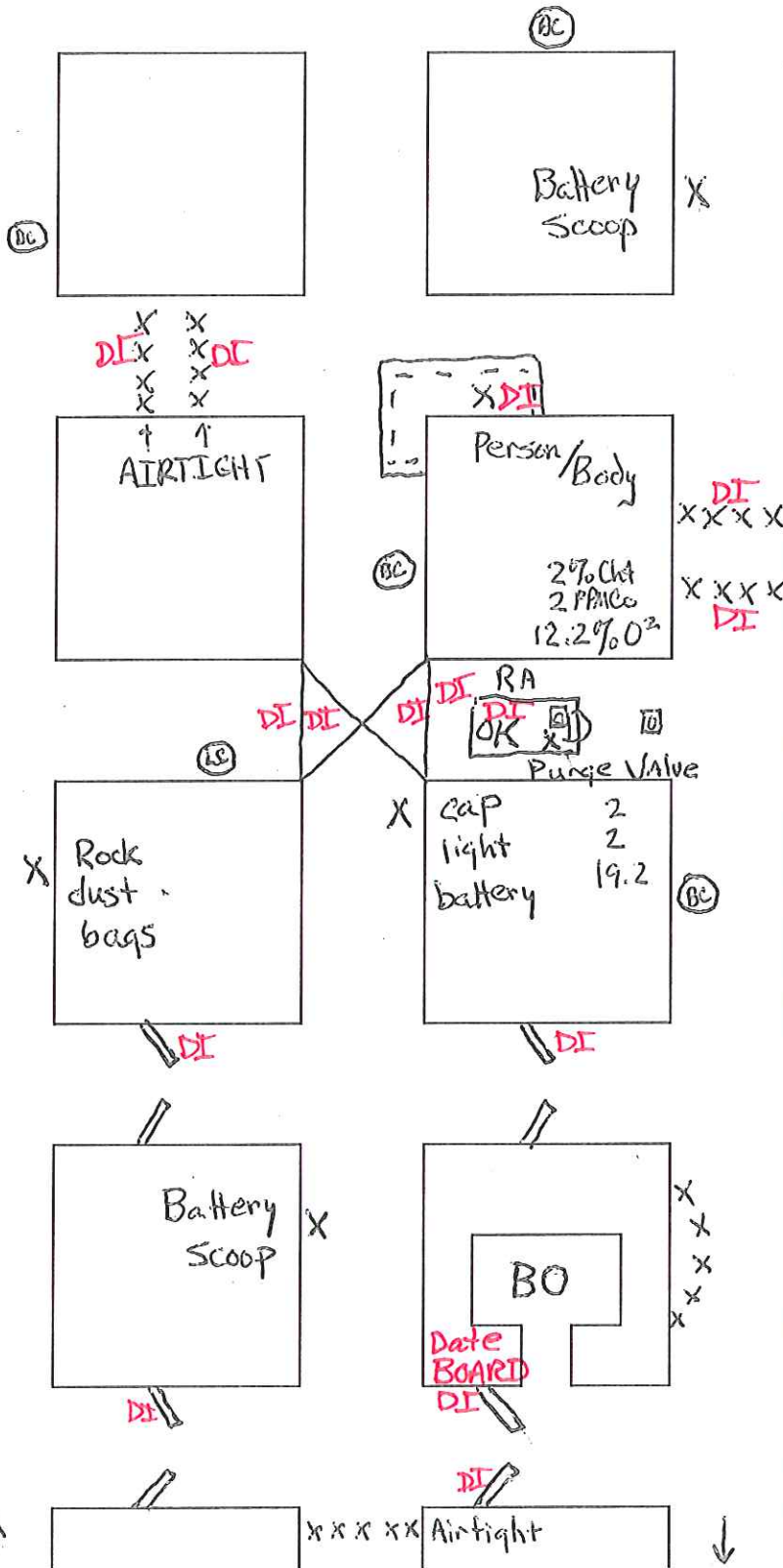
Cut Through  
to the  
surface



2.6
12
14

FACE	6	2	16
X	X	DI	
DI			
B		DI	
DI			

4 Timbers  
conscious  
LIVE  
PERSON



DATE & INITIALS

3' Diameter shaft

Cut Through  
to the  
surface

XXXXX

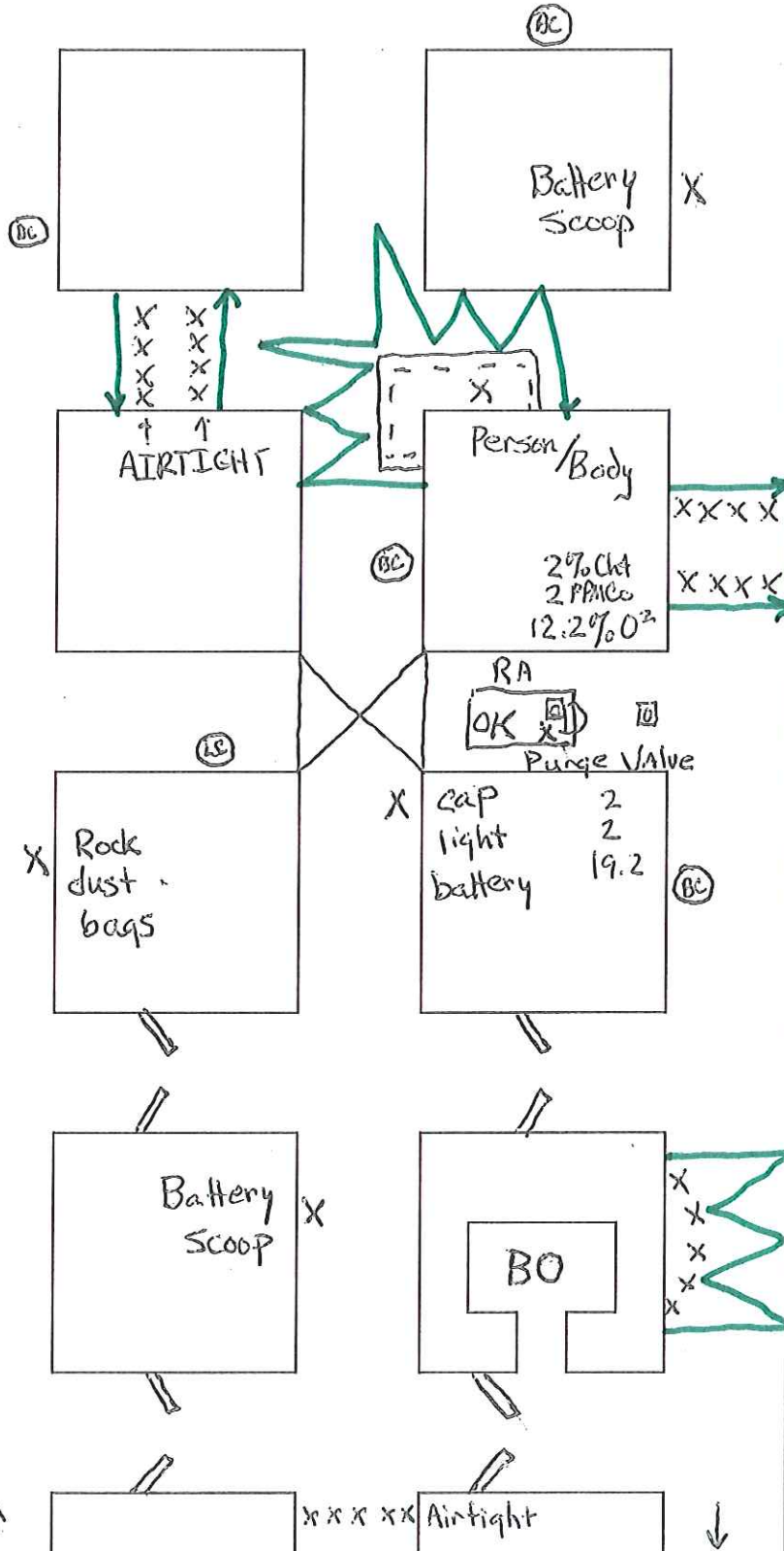
2.6  
12  
14

6  
2  
16  
6  
2  
16

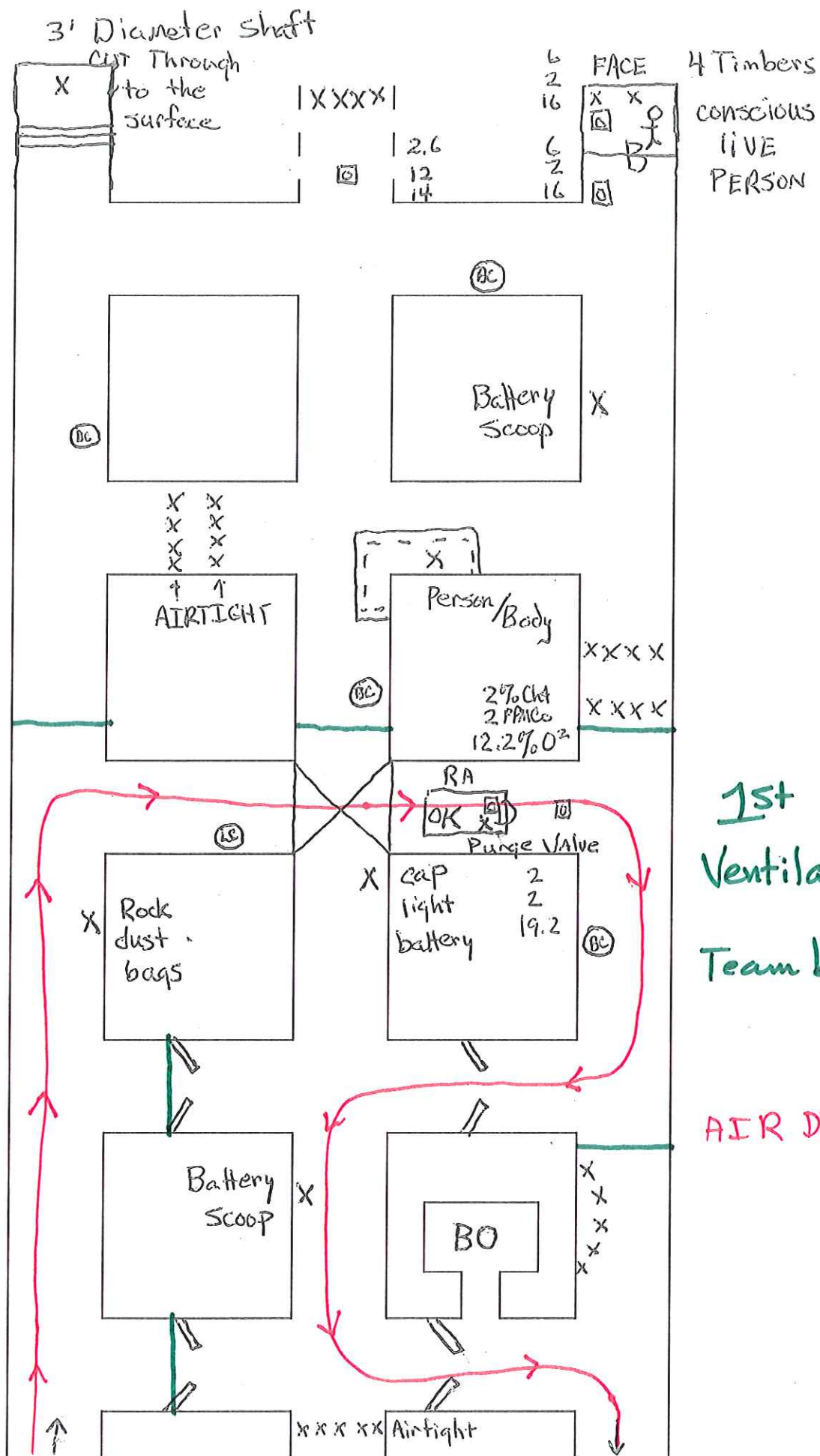
FACE

X X  
X X  
X X

4 Timbers  
Roof/Rib/FACE  
conscious  
LIVE  
PERSON



Roof + Rib  
required  
whenever a  
team builds  
a temporary  
stopping



1st  
Ventilation  
Team builds



