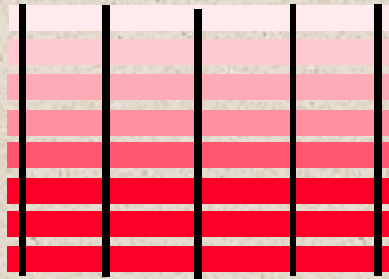


THE ROTARY SINGLE HEIGHT TELL TALE

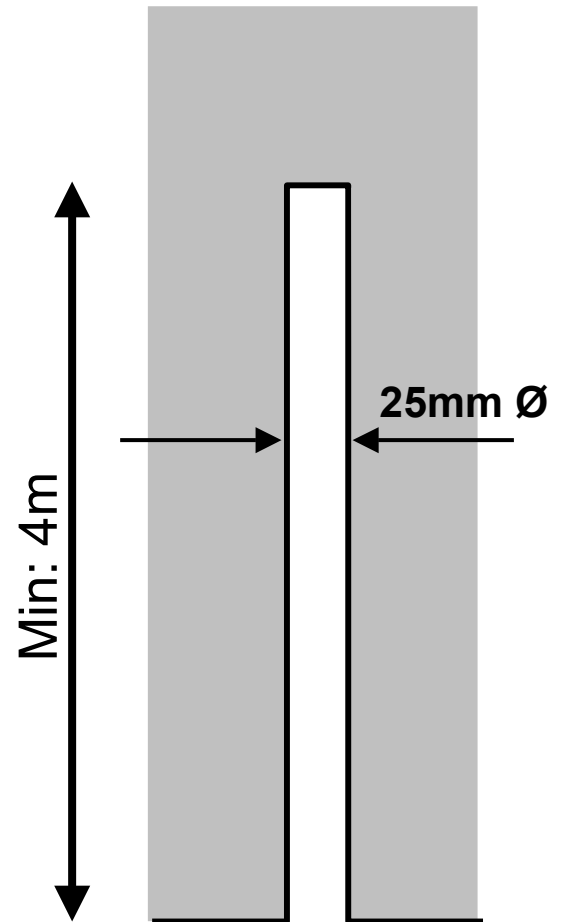


R M T

**Rock Mechanics
Technology**

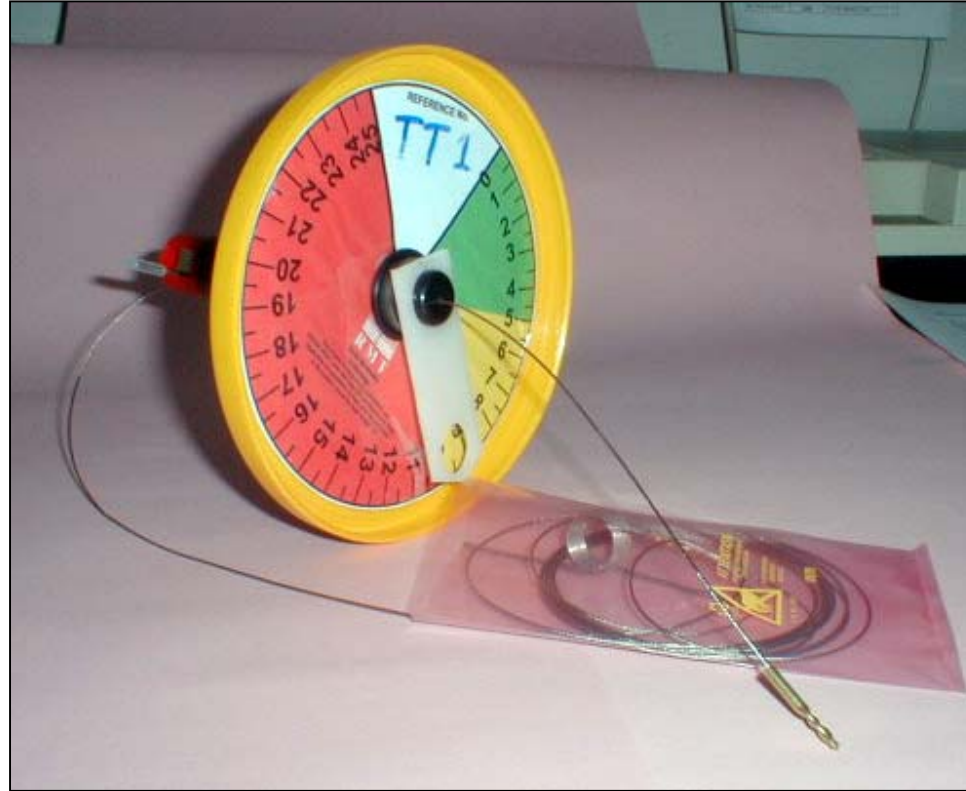
STEP 1

Drill a vertical 25mm diameter hole in the roof to 4m minimum above the roofline.



STEP 2

**Remove the telltale
from its packaging.
Unwind the anchor wire,
taking care not to
tangle the wire**



STEP 3

**Connect together the
telltale installation rods
ensuring the special
adapter is at the top**



**Anchor spring adaptor
to the top**

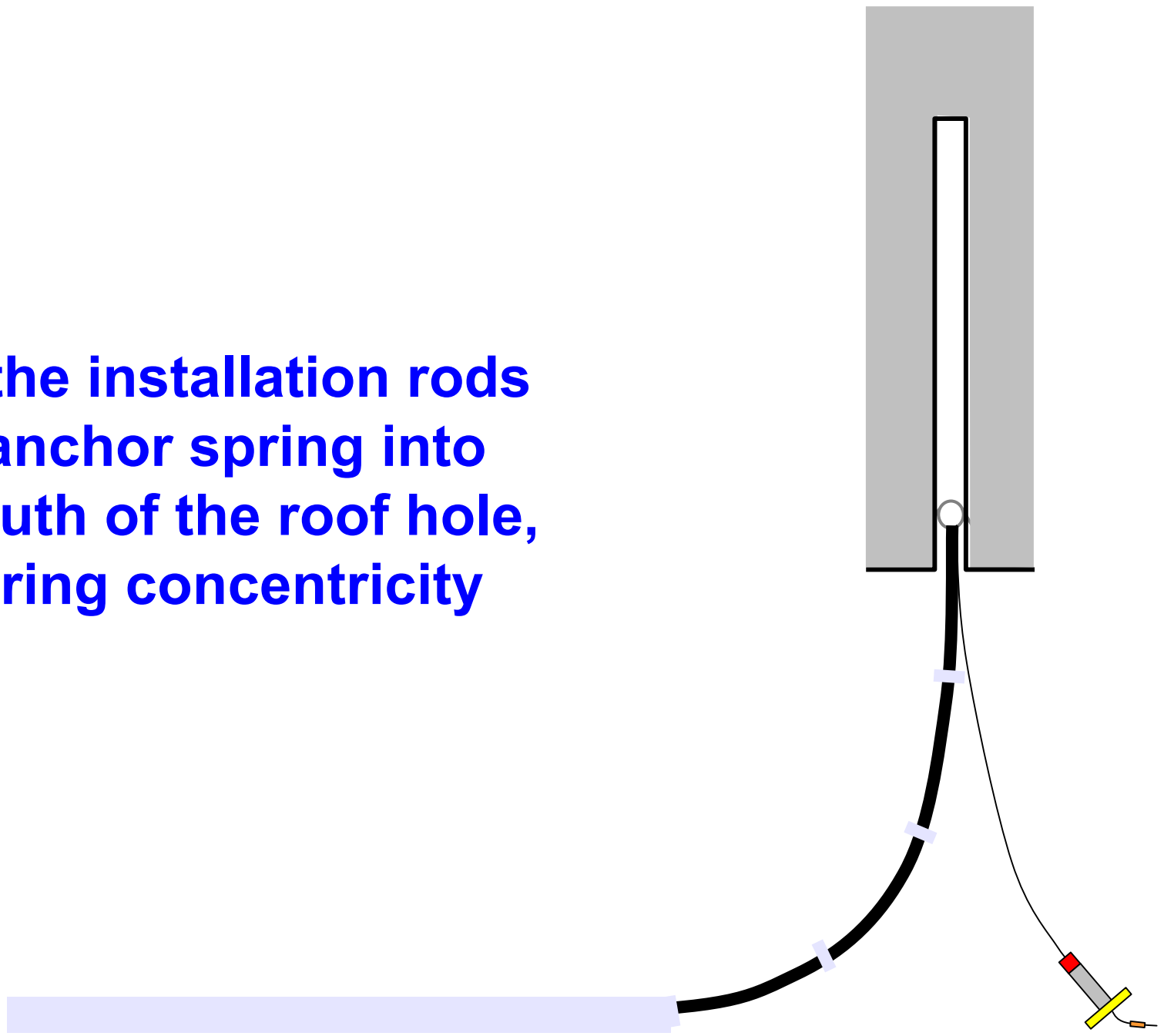
STEP 4

**Clip the telltale wire
'end anchor spring' into
the adapter at the top of
the installation rods**



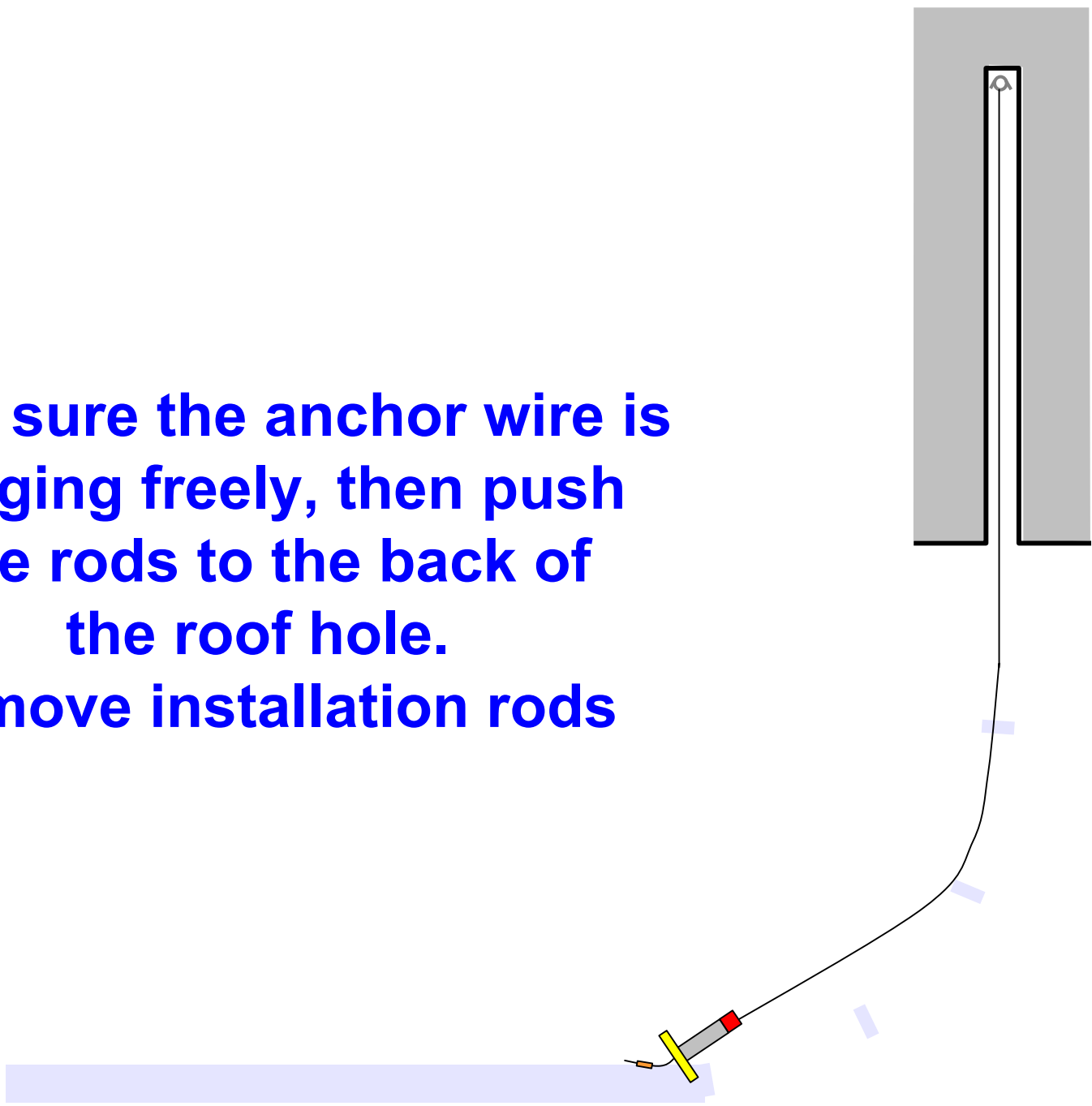
STEP 5

Place the installation rods and anchor spring into the mouth of the roof hole, ensuring concentricity



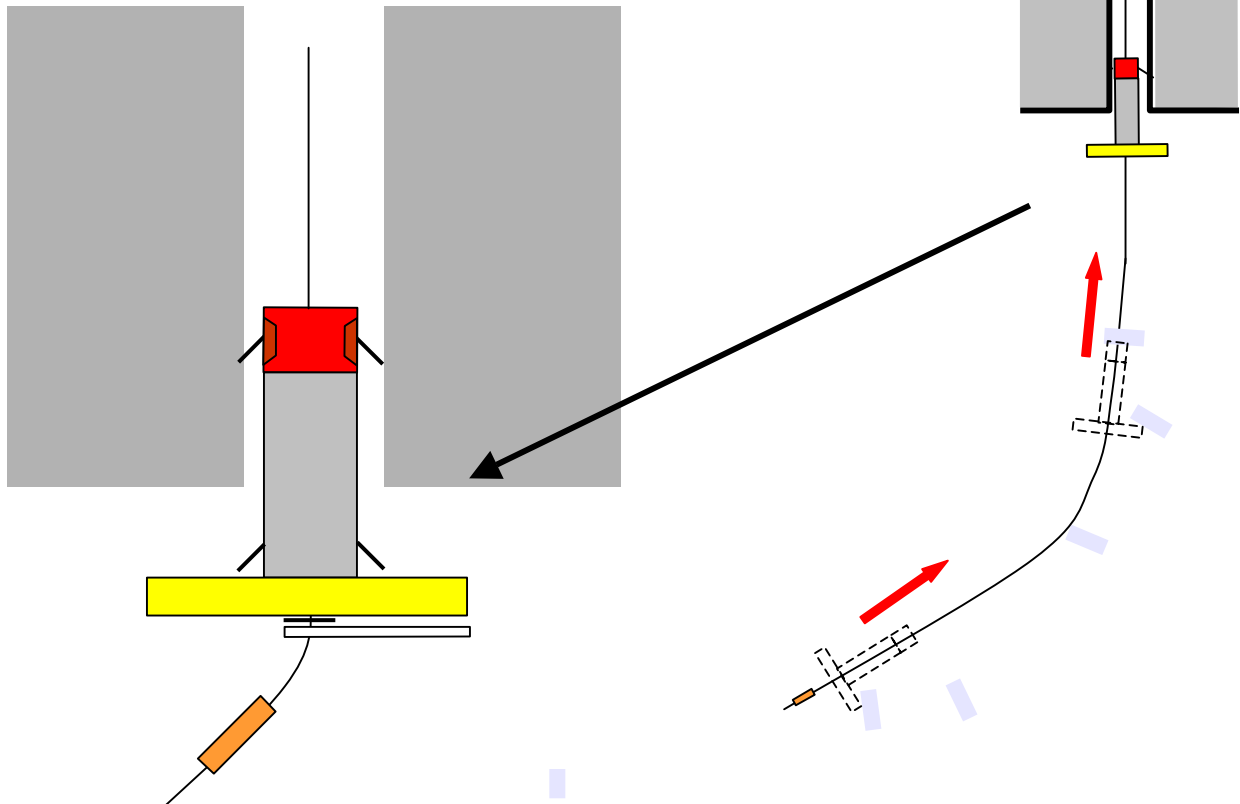
STEP 6

Make sure the anchor wire is hanging freely, then push the rods to the back of the roof hole.
Remove installation rods



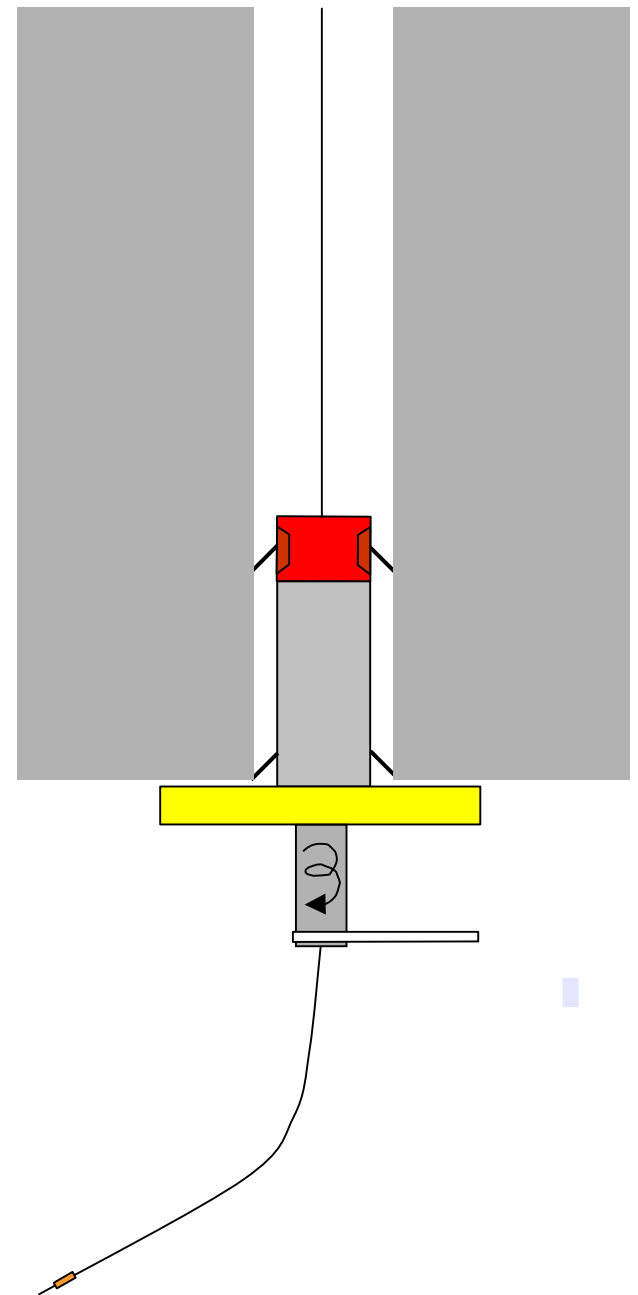
STEP 7

Slide the telltale reference tube / dial plate assembly up the anchor wire and install the reference tube into the hole.



STEP 8

Turn the dial pointer fully anticlockwise until it reaches the bottom of its travel



STEP 9

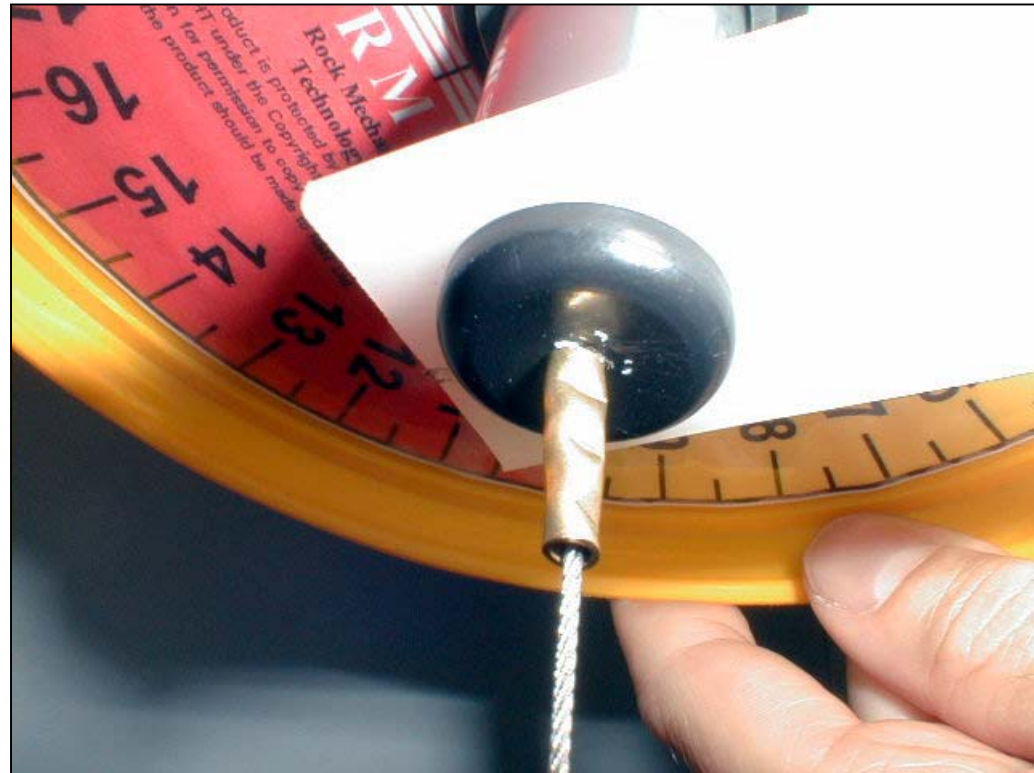
Using a pair of pliers, slide the free ferrule from the end of the hanging wire until it contacts the end of the telltale pointer.

Carefully position the ferrule on the wire such that the telltale indicator is lifted approximately 1mm of indication off the bottom of its travel, then crimp the ferrule lightly



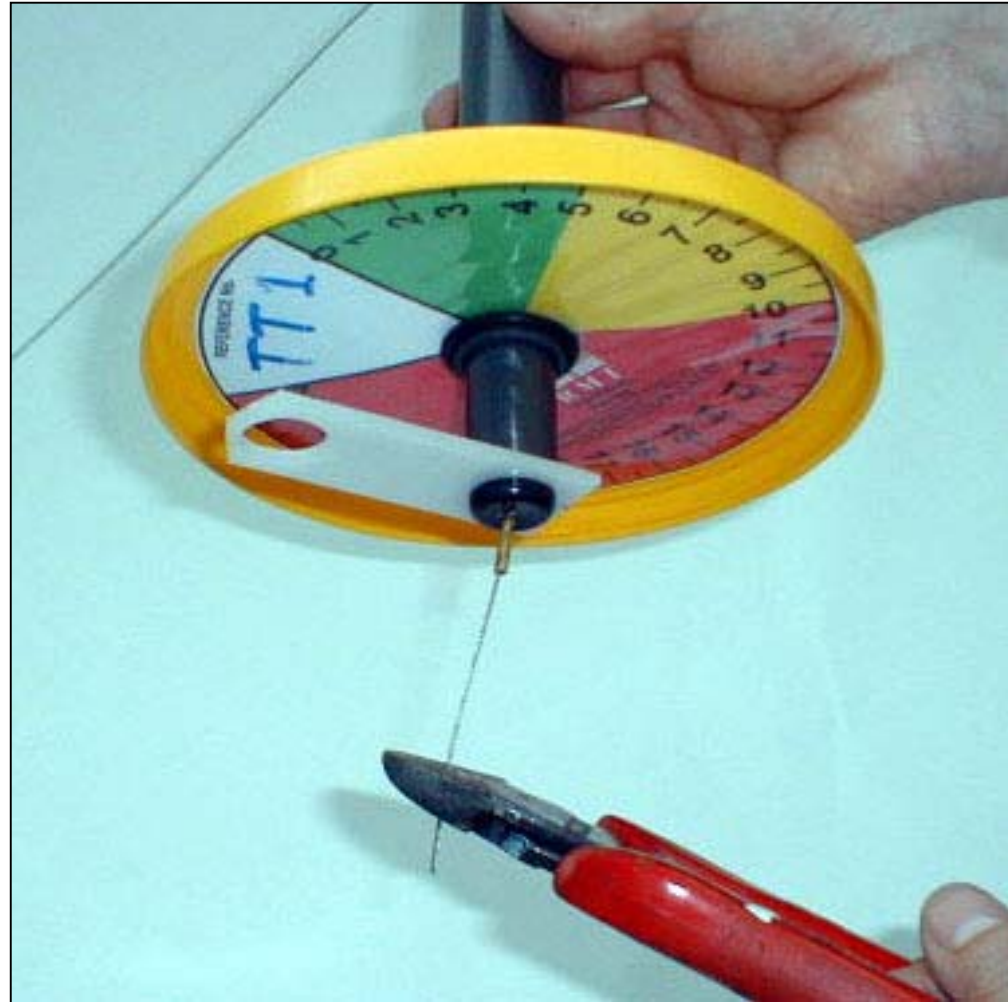
STEP 10

Once satisfied with the position of the ferrule crimp the ferrule 3 times to secure



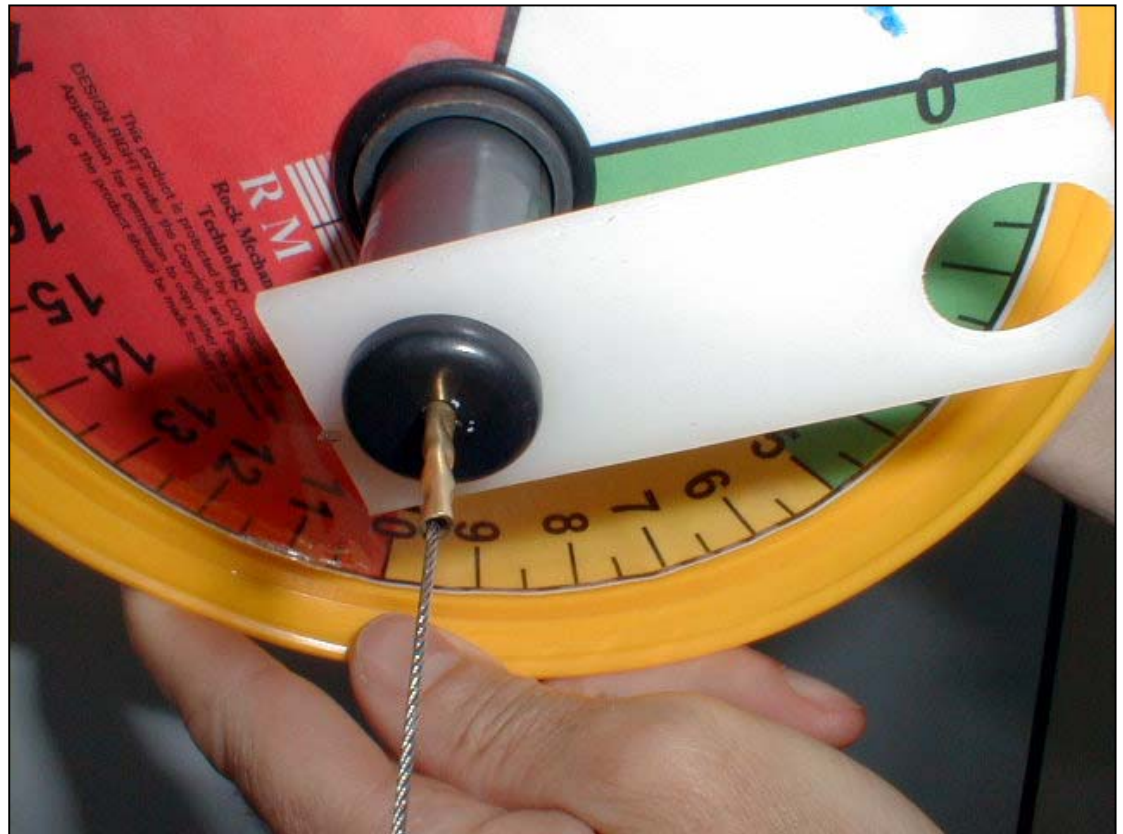
STEP 11

Remove surplus wire



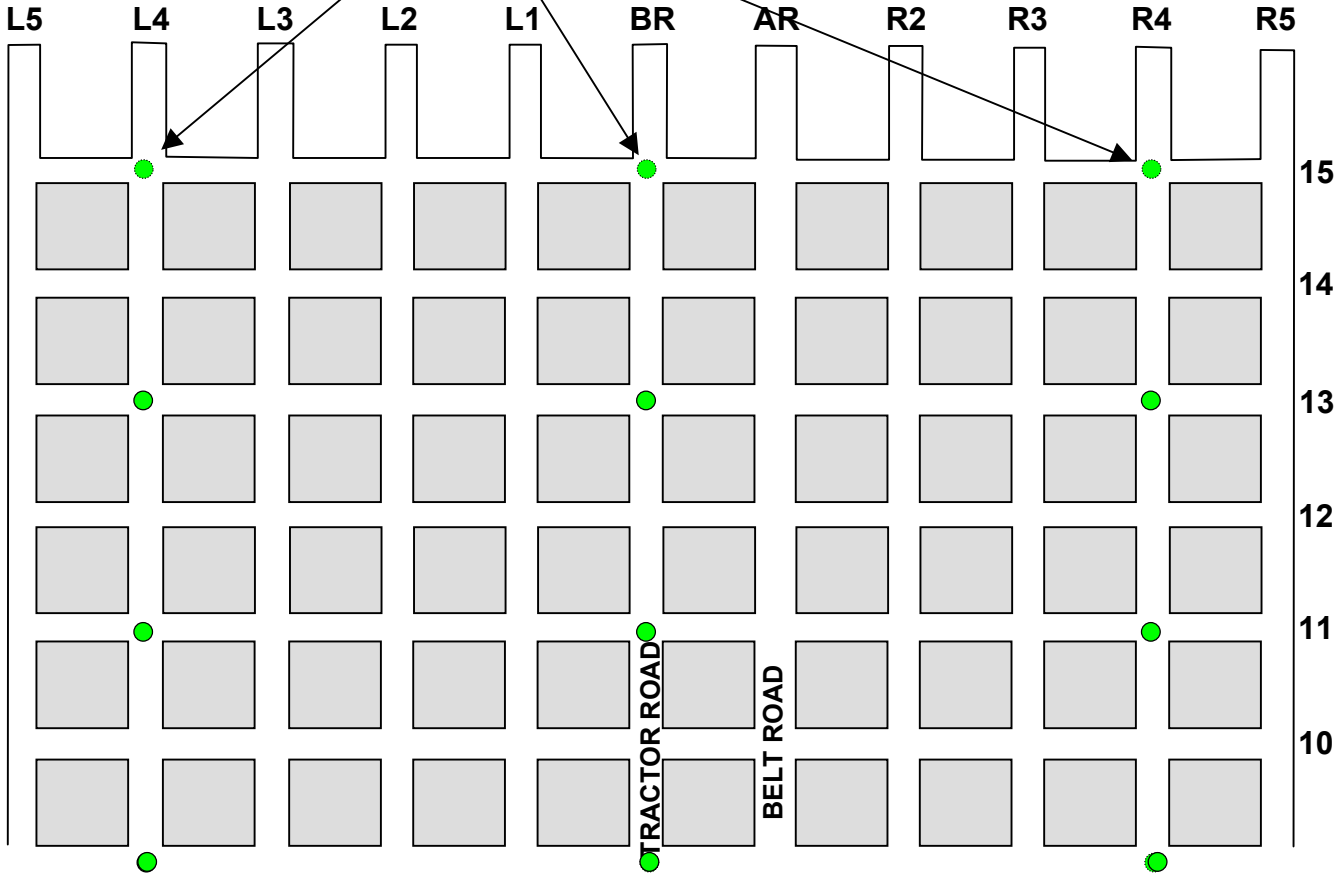
STEP 12

Turn the dial backing plate
until the zero aligns with
the pointer



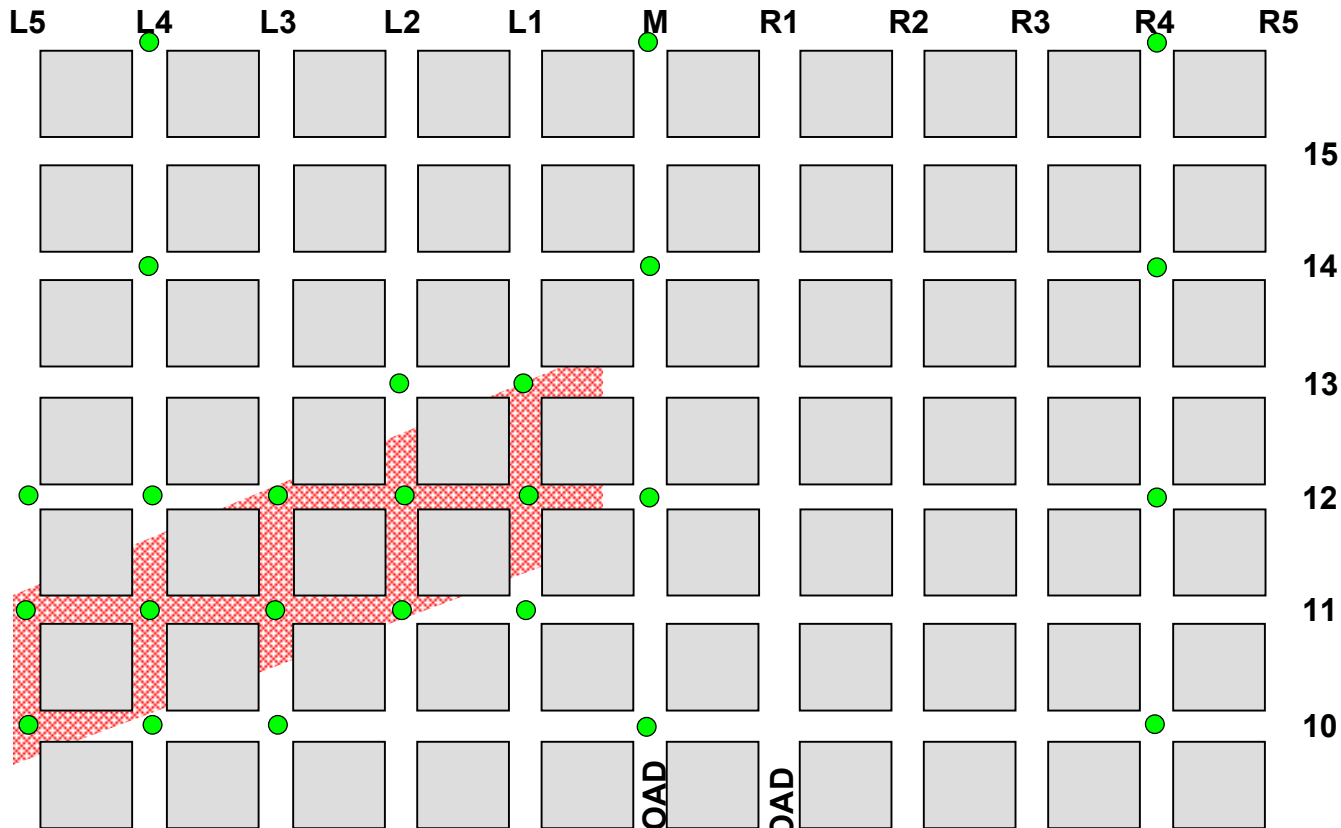
SYSTEMATIC TELL TALE MONITORING FOR 'NORMAL ZERO SEAM CONDITIONS'

Tell Tales installed as section advances



● = ROTARY TELL TALE

TELL TALE LOCATIONS FOR A SECTION WORKING THROUGH AN 'AREA OF CONCERN'



● = ROTARY TELL TALE

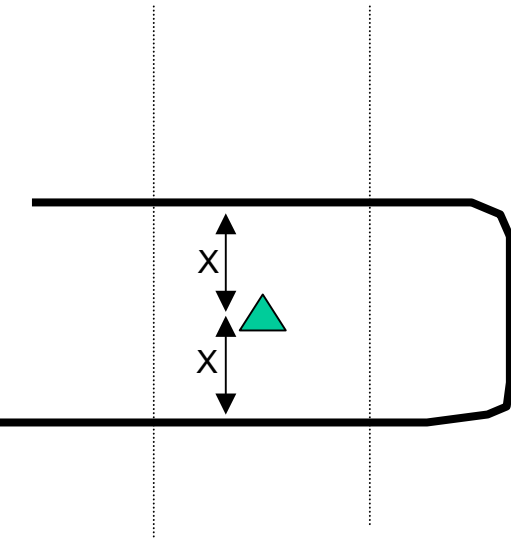
= AREA OF CONCERN

TRACTOR ROAD

BELT ROAD

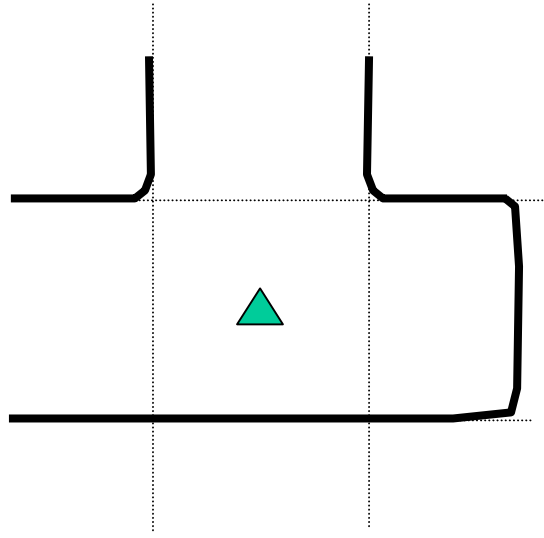
TELL TALES INSTALLED AT INTERSECTIONS SHOULD BE AT THE CENTRE OF THE SPAN AND SHOULD BE INSTALLED BEFORE THE JUNCTION GEOMETRY IS FORMED

STEP 1:



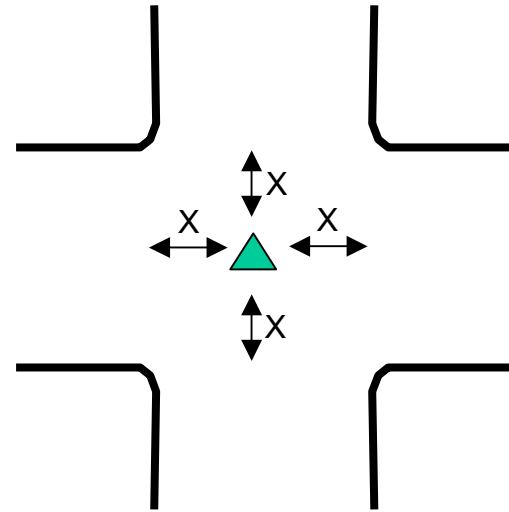
Road excavated just past junction.
Tell tale installed at the junction
centre following support .

STEP 2:



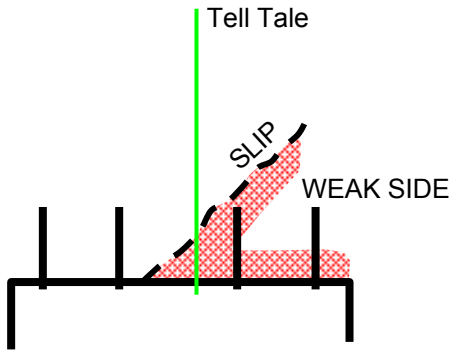
Three way geometry formed

STEP 3:

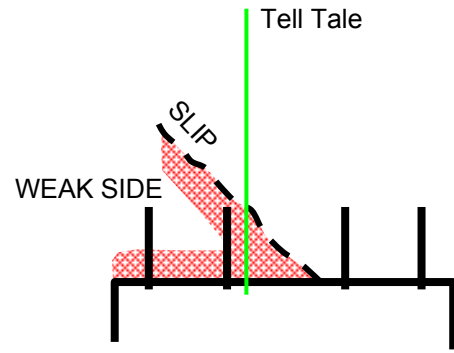


Four way geometry formed

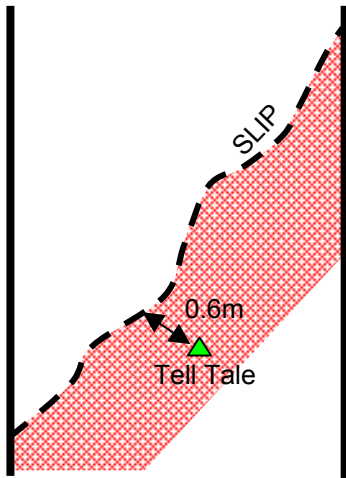
This sequence illustrates the ideal timing of tell tale installation in relation to geometry formation to maximise the effectiveness of the tell tale.



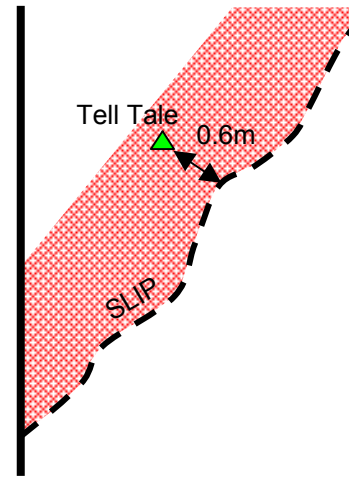
CROSS SECTION




CROSS SECTION

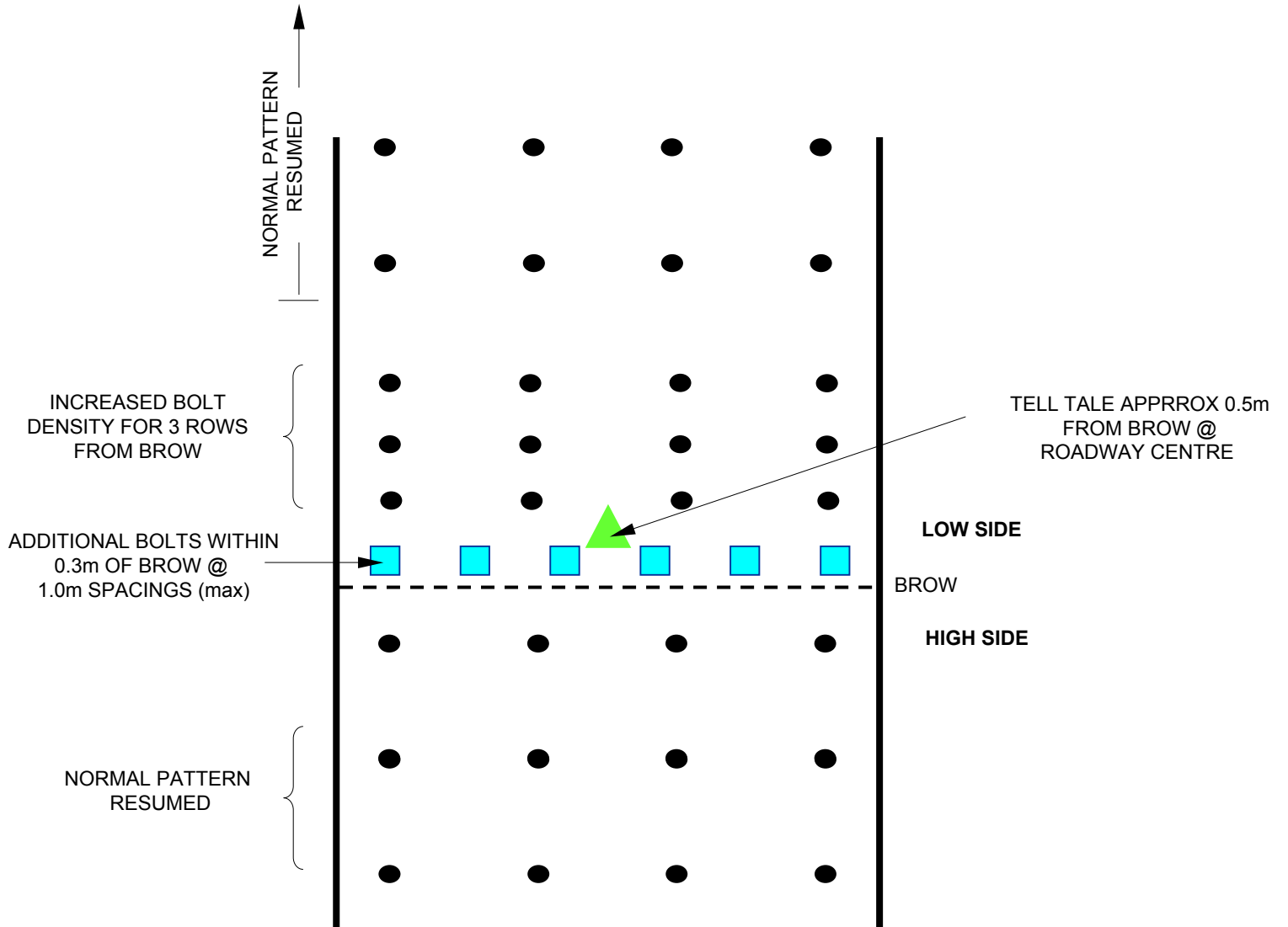


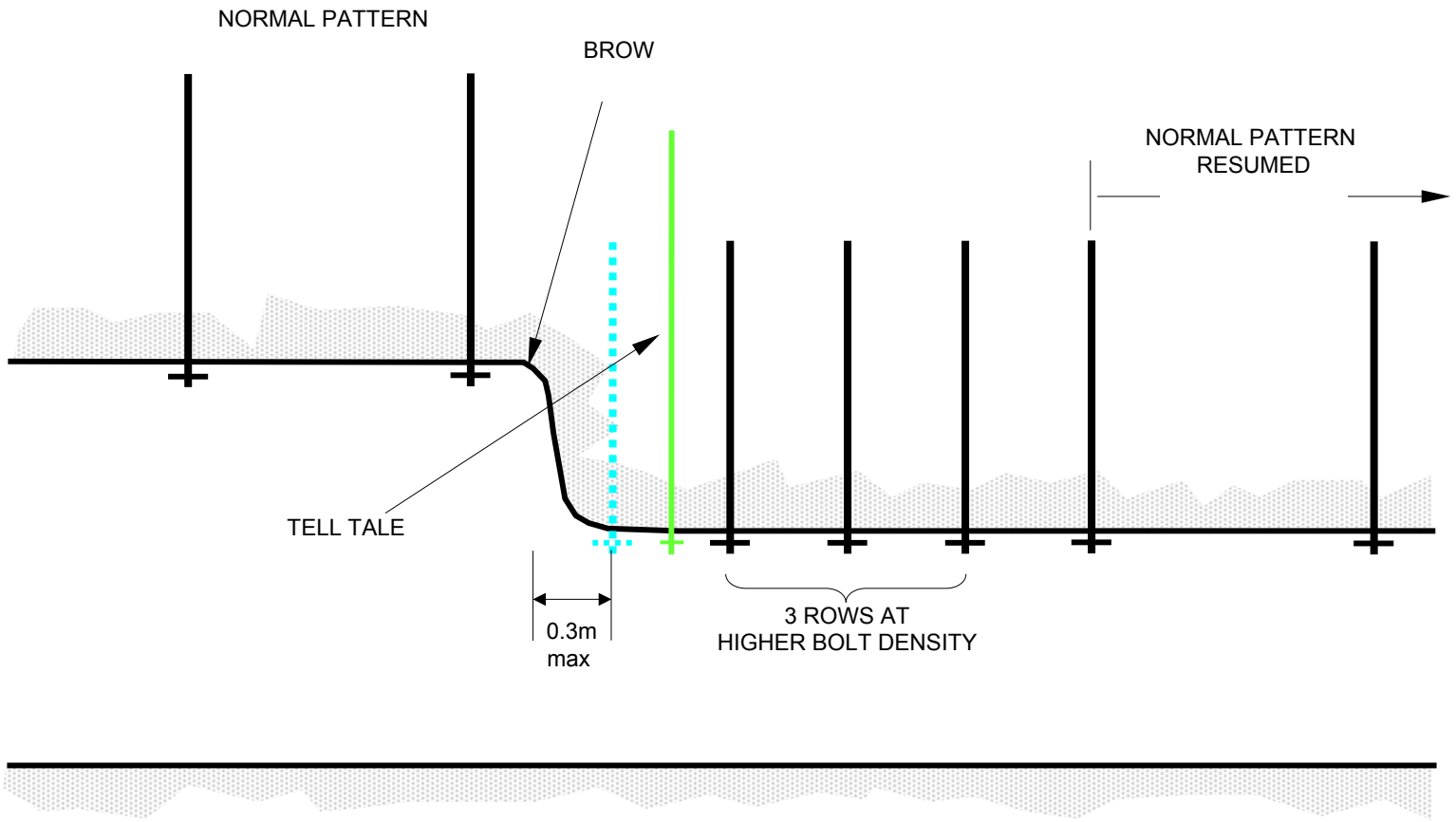
PLAN



PLAN

BOLTS SHOWN  ARE IN ADDITION TO NORMAL SUPPORT AND MUST BE AT LEAST 0.5m LONGER THAN HEIGHT OF BROW





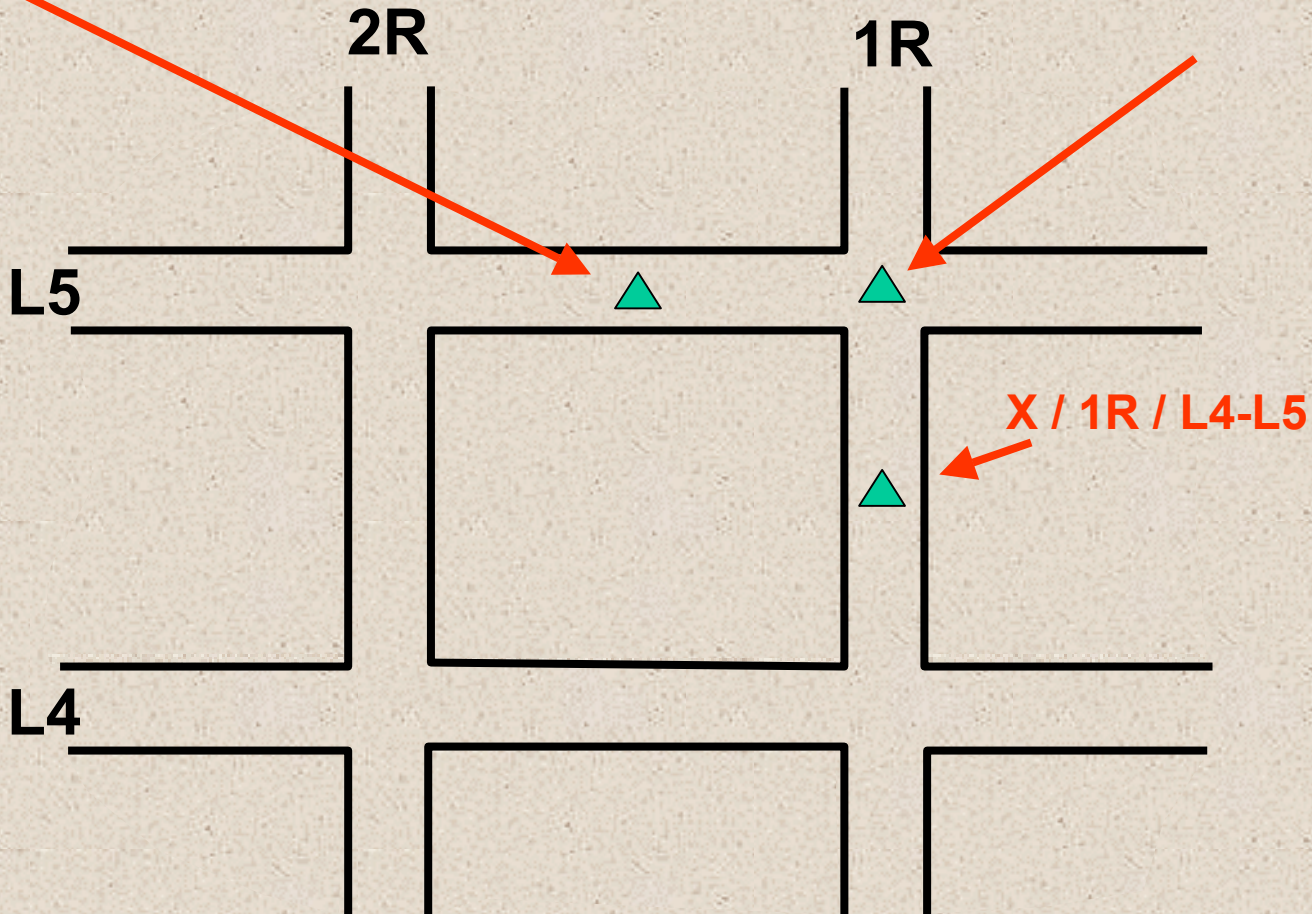
SECTION

REFERENCE CODES FOR TELL TALES INSTALLED IN A SECTION

SECTION / ROAD / LEVEL

X / 1R-2R / L5

X / 1R / L5



READING TELL TALES

It should be the the responsibility of the **MINER** each shift to record the tell tales by colour for all active areas in the section.

A book should be kept at the section **WAITING PLACE** in which each shifts tell tale readings are recorded.

Where a colour change takes place this should be reported on the Shift Boss's statutory shift report, together with comment on any remedial actions taken. In addition the Shift Boss should record the millimetre reading of the relevant tell tales.



EACH SHIFT

READ BY COLOUR :-

**GREEN
YELLOW, OR
RED**

**IF A COLOUR
CHANGE
TAKES PLACE**

READ BY NUMBER

READING TELL TALES

Once per week, the **MINER** should, in addition to recording his shiftly observations by colour, record the millimetre reading on each tell tale in his section (active areas).

This information should be recorded on a weekly sheet, which should be passed to the nominated **ROOF CONTROL AUDITOR** for trend analysis.



EACH WEEK

READ BY MILLIMETRES :

0 mm

ACTION LEVELS

GREEN

0 - 5 mm

YELLOW

5 - 10 mm

RED

10 mm +

ACTIONS

GREEN

No action required, continue routine monitoring

YELLOW

Install additional reinforcement. Length and type of support to be determined by investigations co-ordinated by Shift Boss / Mine Overseer / Roof Control Officer.

RED

Restrict access. Consult Shift Boss / Mine Overseer / Roof Control Officer.

GOLDEN RULE

IF YOU SEE ANY TELL TALE
IN **YELLOW** SECTOR

INFORM YOUR
SUPERVISOR

GOLDEN RULE

IF YOU SEE ANY TELL TALE
IN **RED** SECTOR

**WITHDRAW FROM AREA
AND INFORM YOUR
SUPERVISOR**