

**ALTO MAIPO****OWNER'S INSTRUCTION**Section 2.29  
PHAM-PLN12-INS-0003Contract: ☐ AM-CO610/620B ☒ AM-CO630/620A SI 6301 No 0537

Scope Segment Description: Tunnel V14 Scope Segment ID: 34

Location: CH 104970,7 Time for Compliance: before next round

Contractor shall immediately proceed with the Work described below, in accordance with the terms and conditions of the Contract. This instruction is limited to maximum of 1000 UF or USD \$ 50,000., and without impact on the lump sums or schedule (except for Equivalent Times in the BOQ).

**Instruction:** CONTROL HOLES AFTER FIRST GROUT ROUND:  
THE CONSTRUCTOR IS INSTRUCTED TO DRILL CONTROL HOLES AS INDICATED IN THE FOLLOWING AND IN THE SKETCH ATTACHED:

- DRILL HOLES 1 TO 4.

- IF THE TOTAL WATER FLOW FROM THESE FOUR HOLES IS  $< 30$  L/MIN THEN GROUT THESE HOLES AND CONTINUE EXCAVATION.

- IF THE TOTAL FLOW FROM THESE 4 HOLES IS  $> 30$  L/MIN THEN THE AREAS AROUND THESE 4 HOLES SHALL BE GROUTED AS DESCRIBED BELOW GROUT CONTROL HOLES AND DRILL 2 HOLES (A+B) ON EACH SIDE OF THE HOLES 1-4.

- IF THE WATER FLOW OUT OF THESE 2 HOLES IS  $< 10$  L/MIN GROUT AND CONTINUE WITH NEXT CONTROL HOLE THE SAME WAY.

- IF THE WATER FLOW OUT OF THESE 2 HOLES IS  $> 10$  L/MIN GROUT AND DRILL ANOTHER 2 HOLES (C+D) NEXT TO RECENTLY GROUTED ONES MOVING FURTHER AWAY FROM THE INITIAL CONTROL HOLE.

NOTE: MEASURE WATER INFLOW AND GROUNDWATER PRESSURE IN ALL HOLES

Owner estimate of impact is: Per Units in BOQ ☒ ; or cost ; &/or Time

If Contractor believes that this instruction constitutes a Change, Contractor shall promptly provide Notice according to Section 11 of the Contract.

Contractor comments (if any):

Issued by	Received by Contractor
Name: RICARDO RUIZ E	Name: ANTONIA DECAMAN
Sign:	Sign: Antonia Decaman
Designation: ING. GEOL.	Designation: ENG. GEOL.
Date: 31-11-15	Date: 21/1/2015 Time: 17.46

(original): Contractor