

REQUEST FOR INFORMATION

RFI NUMBER	NL-RFI-039				
ISSUE DATE (YY/MM/DD)	April 2, 2011				
PRIORITY	H	X	M		L
REQ'D RESPONSE DATE	April 2, 2011 AM				

Hope Bay Mining Project

Subject:	North Dam – Reduced Annulus	Project Zone/Area:	Doris North / Doris
Company:	Nuna Logistics Ltd. (Nuna)	Station/Location:	North Dam
Attention:	Mark Valeriote cc SRK	Discipline:	Civil

AFE:		Specification Number:	
Related Drawings:	North Dam SRK Dwg No. DN-ND-27	Related Documents:	

Related WBS Code	n/a	WBS Code Description:	n/a

Information Request/Description of Issue/Approval Required:
To reduce further operational delays due to expediting an 8.5" drill bit to site to drill the holes at the vertical support pile locations at the North Dam, Nuna proposes using the 6.5" drill bit currently available on site.
Proposed Corrective Action:
Nuna proposes to drill a 6.5" hole for the piles and reduce the annulus from 50mm to 25mm on either side. It is understood from discussions on this yesterday, April 1 st , between the EPCM, Nuna and SRK that the reduction in annulus would then require the overall pile embedment length to be increased from 6.0m to 7.0m. All other engineered drawing details remain the same.
Originator: KEVIN OAKES
Print: Sign: Date:

Cost Impact	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes
Detailed Estimate attached	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes
Schedule Impact	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes
Source for Communication	<input type="checkbox"/> Owner Change	<input checked="" type="checkbox"/> Clarification/Info
	<input type="checkbox"/> Vendor Change	<input type="checkbox"/> Designer Change
		<input type="checkbox"/> Constructor Change
		<input type="checkbox"/> Other
<p>Note: RFI's are not authorized change documents and cannot be used to direct a change in contract requirements. If Newmont's response on the RFI has cost and/or schedule effect, it is the contractor's responsibility to immediately advise Newmont. Work undertaken without Newmont written authorization is at the contractor's risk and expense</p>		

☐ Corrective Action Approved ☐ Correct as Follows:

Response:
Please see next page for response.
Responsible Newmont Representative: John Kurylo (SRK)
Print: Sign: Date:

Response:

Summary details for the onsite April 1st radiator pile discussions are documented in SRK daily report #80.

- **Background:** As outlined in SRK's technical specifications: A minimum 4" (102 mm) nominal Schedule 80 pipe is recommended. The pile installation holes shall be drilled to a diameter at least 100 mm larger than the outside diameter of the pipe. Further the drawing shows the annulus as being 50mm (on either side or surrounding the pile).
- As of April 1st only a 6 ½" drill bit was on site.

To assist in reduce further operational delays SRK indicated that with pile fabrication modifications and an increased pile embedment depth a 25mm rather than a 50mm annulus (on both sides of the pile) would be acceptable for the North Dam radiator piles. Details on pile embedment and required fabrication modifications, for use with a 25mm annulus, are presented below:

1. The embedment depth for a pile utilizing a 25mm annulus would be required to be 7m.
2. Additional slot cuts (4-6) would be required to be cut into the extended pile section and an additional rebar ring would be required on the piles.
3. As the measured dimension of the pile pipe, rebar ring and rebar centralizer was measured in the field to be ~6 ½" some of the existing centralizers (rebar) on the existing piles are expected to be cut.
 - This will ensure that piles will be able to be more readily installed (i.e. without excessive banging).
4. Ideally an 'x' of rebar would be welded over the bottom of the piles, as was done at Culvert #1, to better ensure a strong basal bond of the adfreeze piles.
5. The piles would be extended above ground to ensure that a minimum stick-up of 1.5m above the elevation of the levelling course/ thermosyphon bedding grade is maintained.
 - The base of the long C-channels would be a minimum of 0.5m (min) above the highest levelling course elevation to assist in reducing the moment arm and increase lateral support for the piles.

Base on field survey information of the WSW thermosyphon trench excavation and the measured length of the previously fabricated piles, the piles are expected to be required to be extended by 2 to 3m in length.

- Final pile lengths are a minimum of 9.5m at the highest point and a maximum of 10.5m at the lowest point (based on neat lines).
- It is recommended that to account for any potential over drilling and to assist with easy welding the c-channels and cross bracing that an additional 0.5m allowance be added onto the piles. Therefore pile lengths are expected to be in the range of 10m minimum to 11m maximum (or extensions are expected to range from 2 to 3m).

➔ Additional notes and draft sketches are attached for additional information.

Responsible Newmont Representative:

JOHN KURKO

Print:

Sign:

APRIL 2nd / 11

Date:

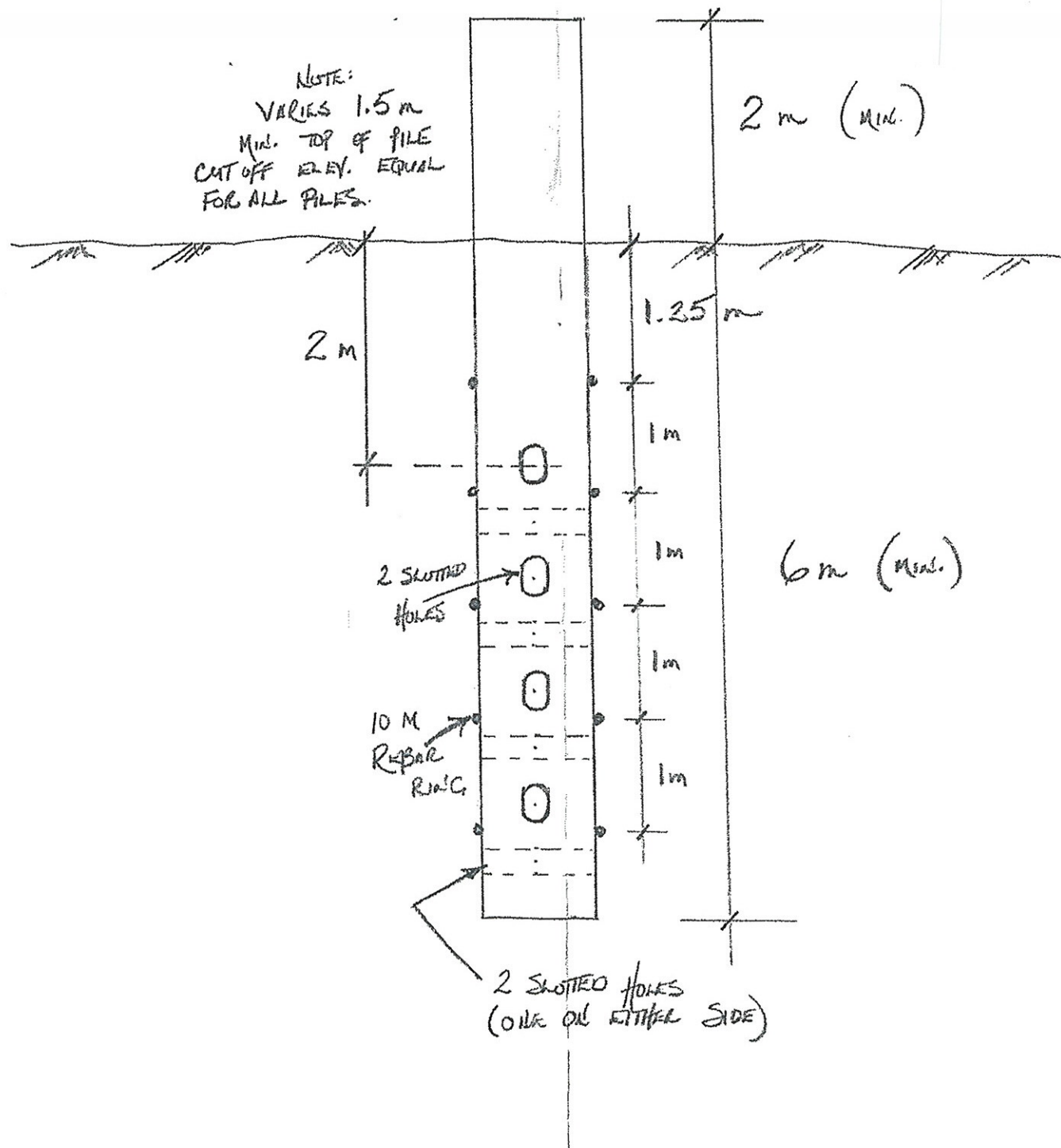
~ WHAT HAS BEEN FABRICATED ON SITE (AS OF APRIL 14, 2011)

NOT TO SCALE

CENTRALIZERS/LUGS ON EACH PILE @:

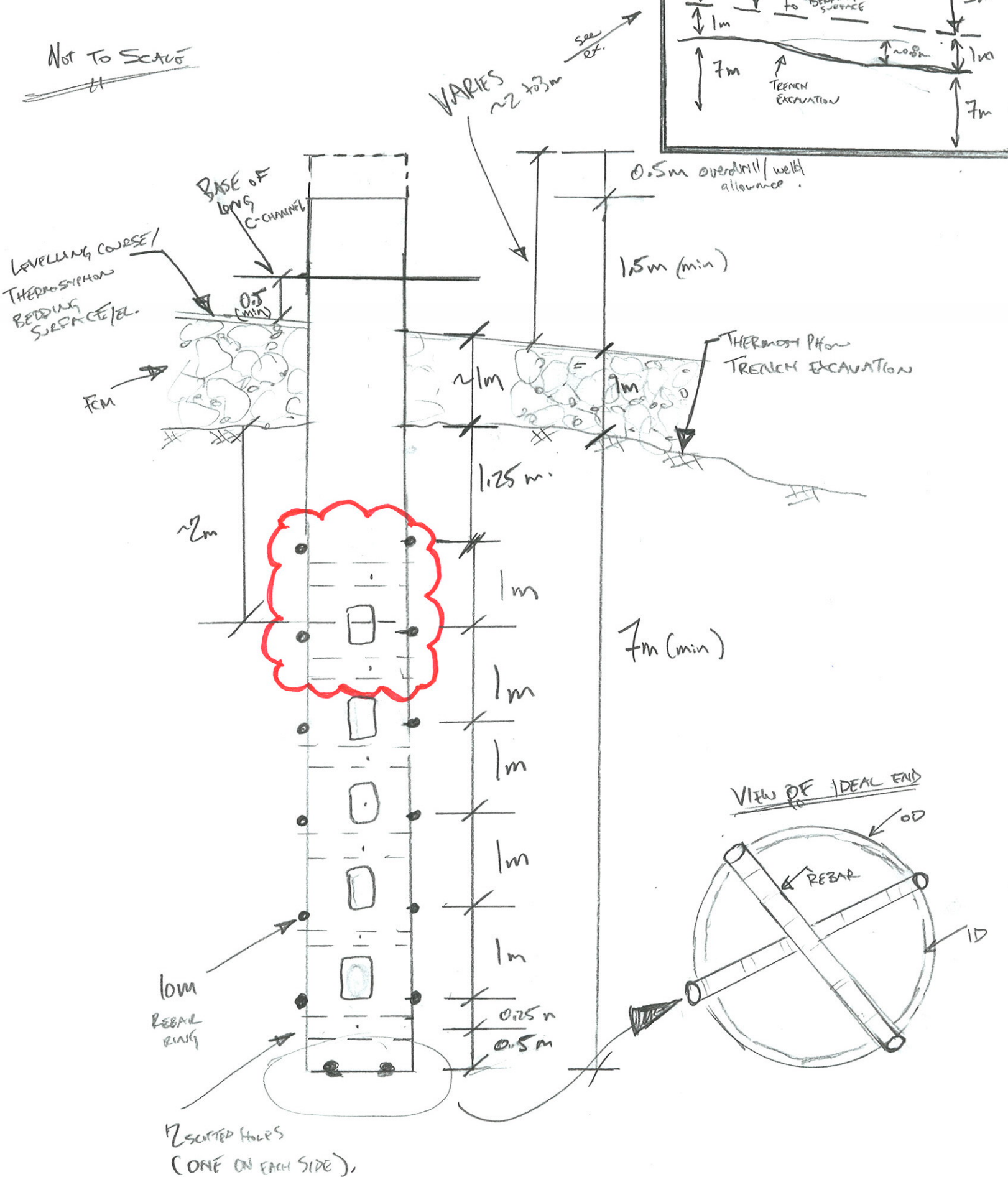
- EQ. @ 1 m @ 45° ORIENTATION 270°
- @ 2 m @ 135° ~
- @ 3 m @ 225° ~
- @ 4 m @ 315° ~

NOTE:
VARIES 1.5 m
MIN. TOP OF PILE
CUT OFF ELEV. EQUAL
FOR ALL PILES.

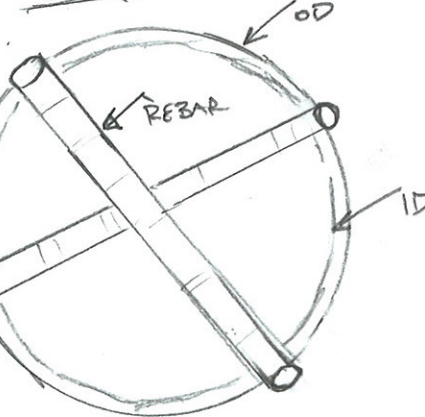


~ WHAT WOULD BE REQUIRED FOR

NOT TO SCALE



VIEW OF IDEAL END



JBK DRAFT NOTES