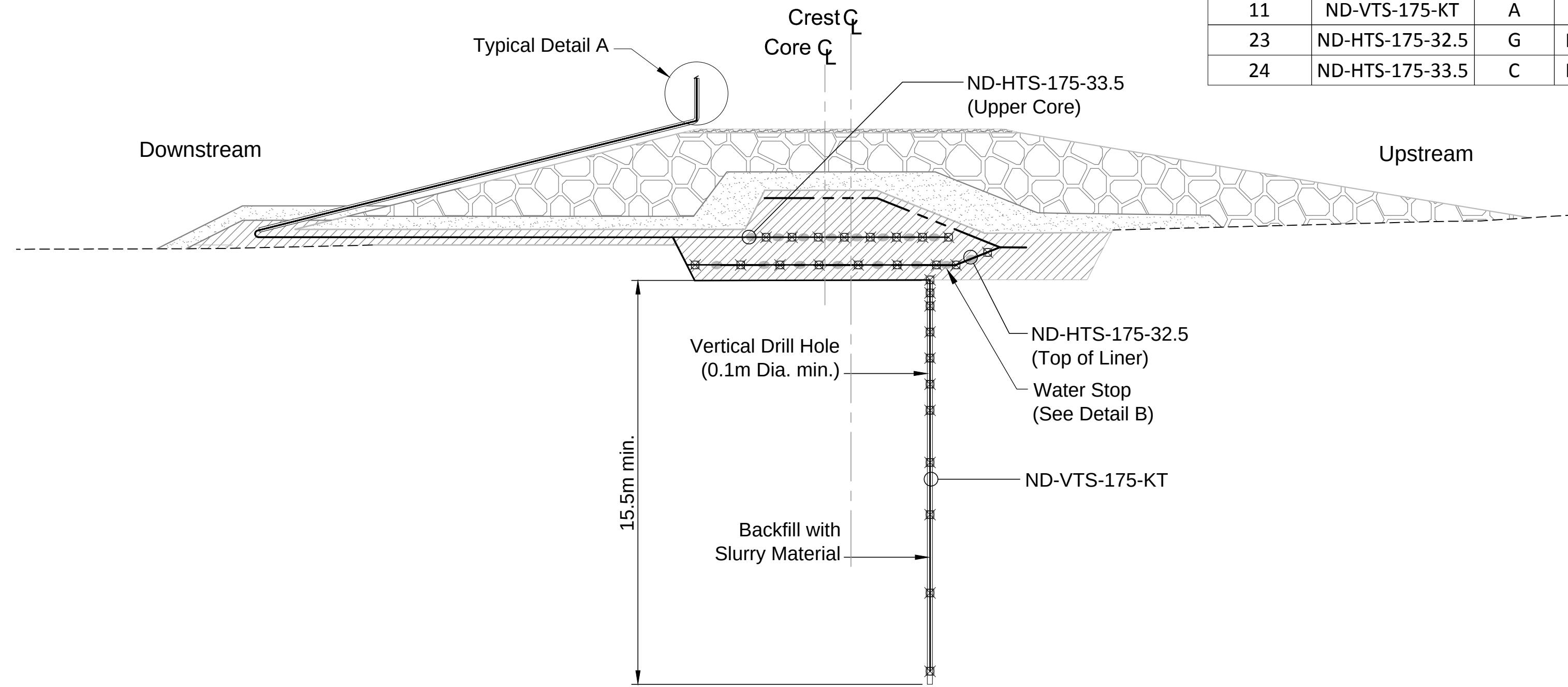
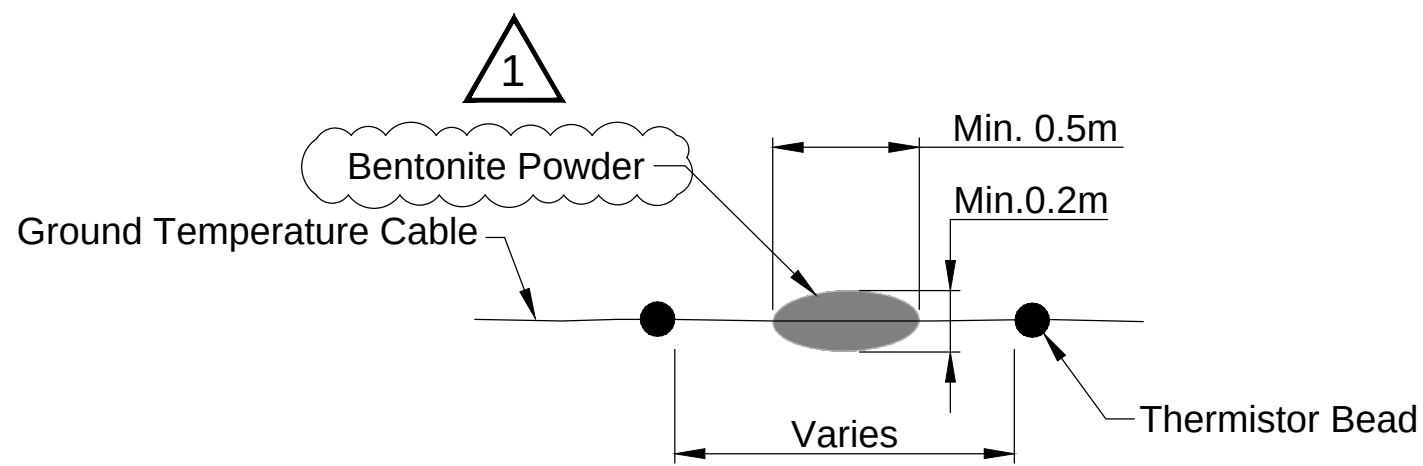


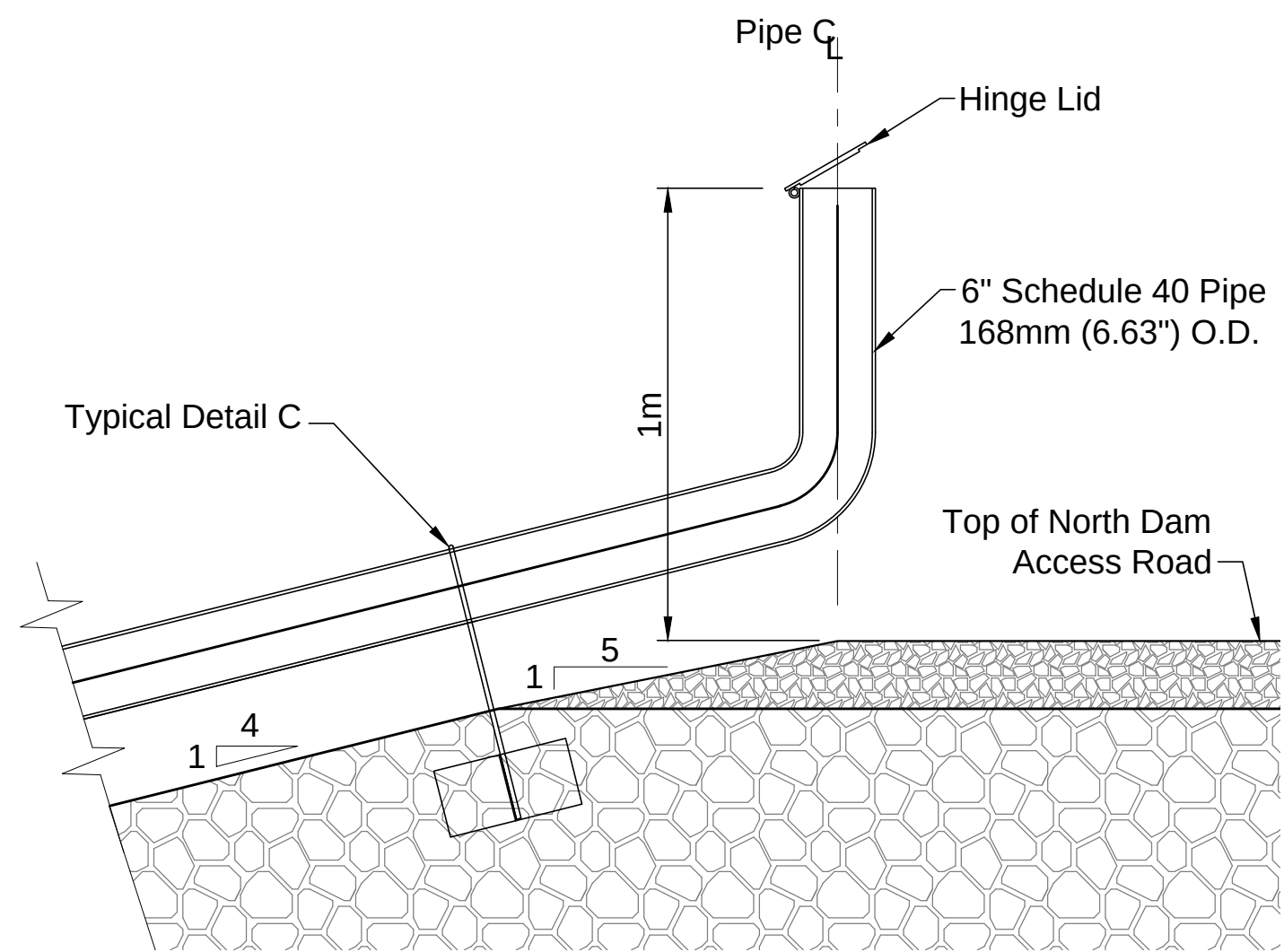
GROUND TEMPERATURE CABLE DETAILS																							
STRING #	STRING NAME	SERIES #	STRING TYPE	CHAINGE (m)	ELEVATION (m)	OVERALL CABLE LENGTH (m)	CABLE LOCATION	BEAD LOCATION IN METERS (MEASURED FROM END)															
								#1	#2	#3	#4	#5	#6	#7	#8	#9	#10	#11	#12	#13	#14	#15	#16
11	ND-VTS-175-KT	A	Vertical	175	n/a	65.0	Base of Keytrench	0.00	3.00	6.00	8.00	10.00	11.00	12.00	13.00	14.00	14.50	15.00	-	-	-	-	-
23	ND-HTS-175-32.5	G	Horizontal	175	32.5	52.0	Top of Liner	0.00	1.30	2.05	3.55	5.05	6.55	8.05	9.55	11.30	-	-	-	-	-	-	-
24	ND-HTS-175-33.5	C	Horizontal	175	33.5	49.0	Upper Core	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	-	-	-	-	-	-	-	-



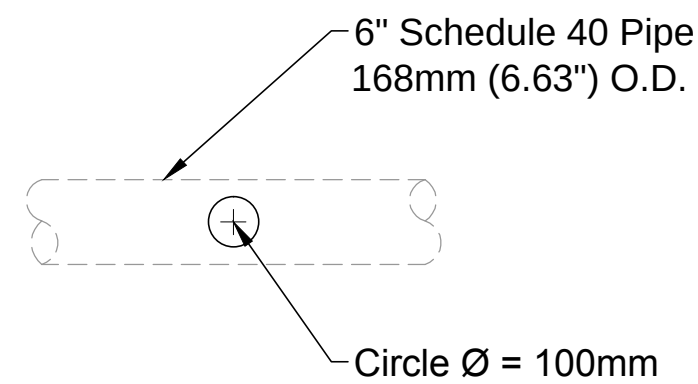
5
GROUND TEMPERATURE CABLE SECTION AT CHAINAGE 1+75
DN-ND-09
Scale in Meters
0 1.5 3 4.5 6 7.5



B
TYPICAL WATER STOP DETAIL
Not to Scale



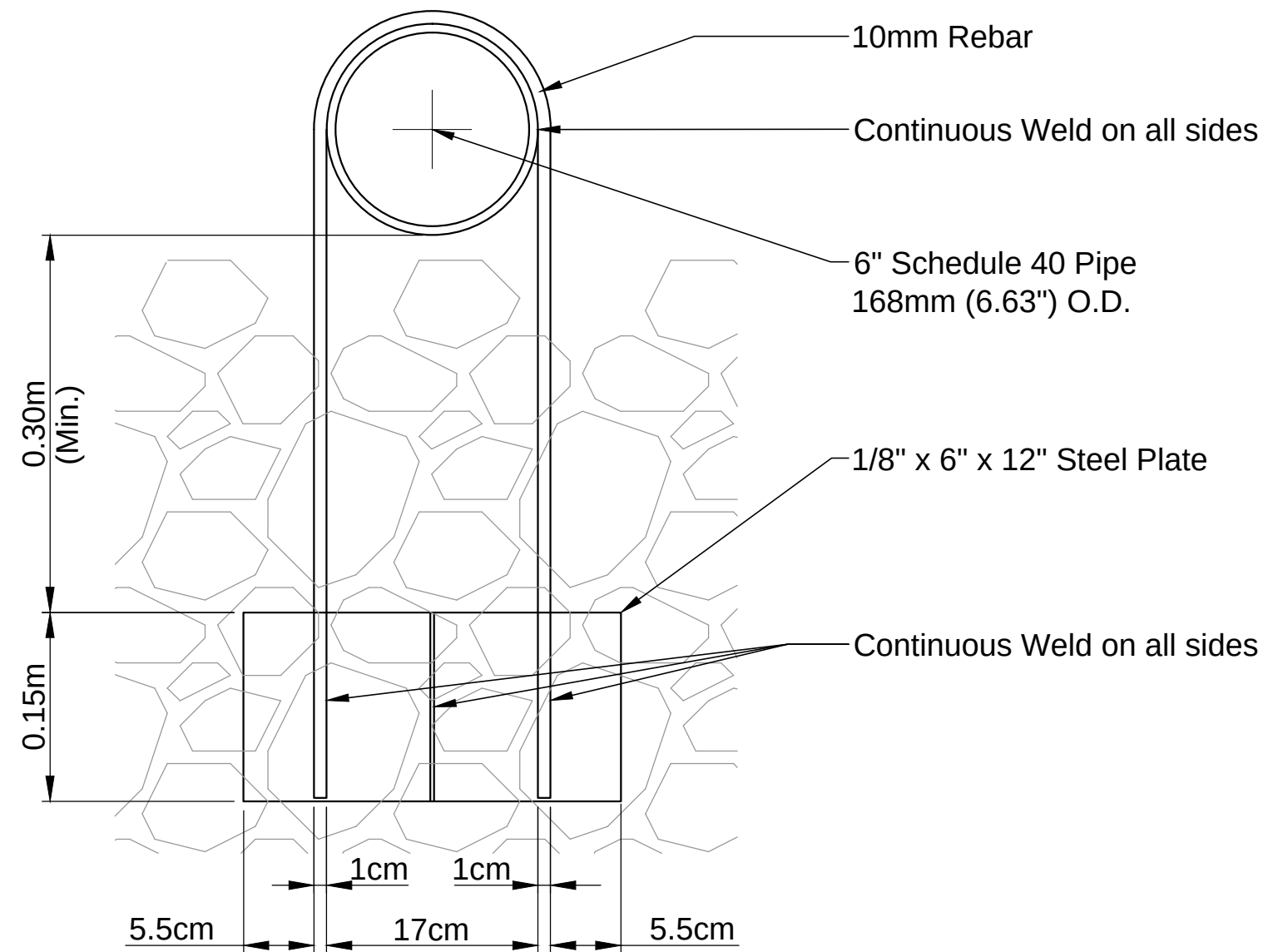
A
THERMISTOR TYPICAL DETAIL
Not to Scale



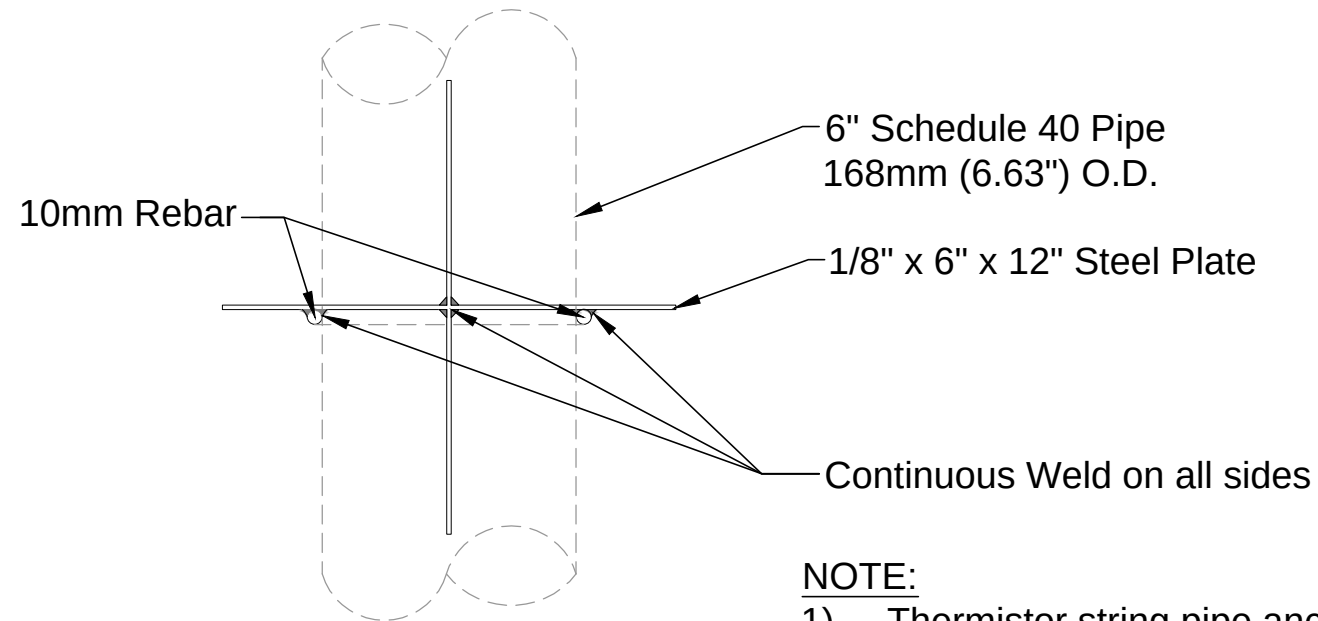
D
SLOT FOR GROUND TEMPERATURE CABLE
Not to Scale
DN-ND-14
DN-ND-15

LEGEND

- Ground Temperature Cable
- Thermistor Bead Location
- Bentonite Water Stop
- Natural ground
- Geosynthetic Clay Liner (GCL)
- Thermosyphon Evaporator Pipes
- Core Material
- Transition Material
- Run of Quarry (ROQ) Material
- Surfacing Material



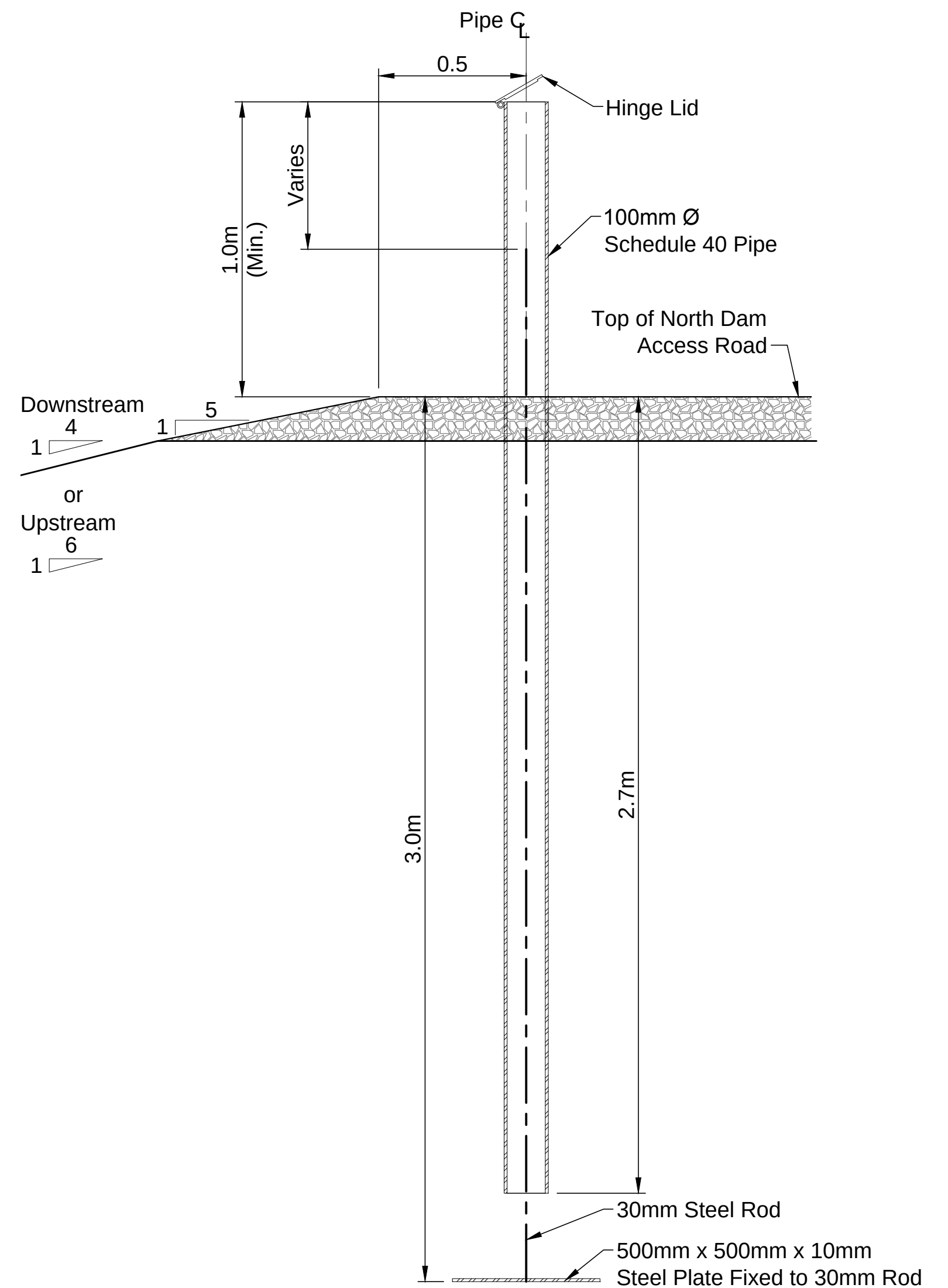
ELEVATION



PLAN

C
THERMISTOR STRING PIPE ANCHOR TYPICAL DETAIL
Not to Scale

NOTE:
1) Thermistor string pipe anchor shall be spaced at every 2m.



E
SURVEY MONITORING POINT DETAIL
Not to Scale
DN-ND-08

J:\01 - SITES\Hope Bay\ACAD\2010 Drawings\NorthDam2010\DN-ND-14-16.dwg

DRAWING NO.	DRAWING TITLE	DRAWING NO.	DRAWING TITLE	NO.	DESCRIPTION	CHK'D	APP'D	DATE
				1	MINOR TEXT EDITS	LW	EMR	04FEB11
				0	ISSUED FOR CONSTRUCTION	LW	EMR	03DEC10
				A	ISSUED FOR REVIEW	LW	EMR	23OCT10
REFERENCE DRAWINGS				REVISIONS				

Original Drawings Stamped and Signed by Engineer			Doris North Project	
			North Dam Ground Temperature Cable Clusters at Chainage 1+75	
PROFESSIONAL ENGINEER'S STAMP	FILE NAME: DN-ND-14-16.dwg	SRK JOB NO.: 1CH008.027	SRK DWG NO.: DN-ND-16	NEWMONT DRAWING NO. HB+T-CIV-CIV-OND-0036
				SHEET 17 OF 29