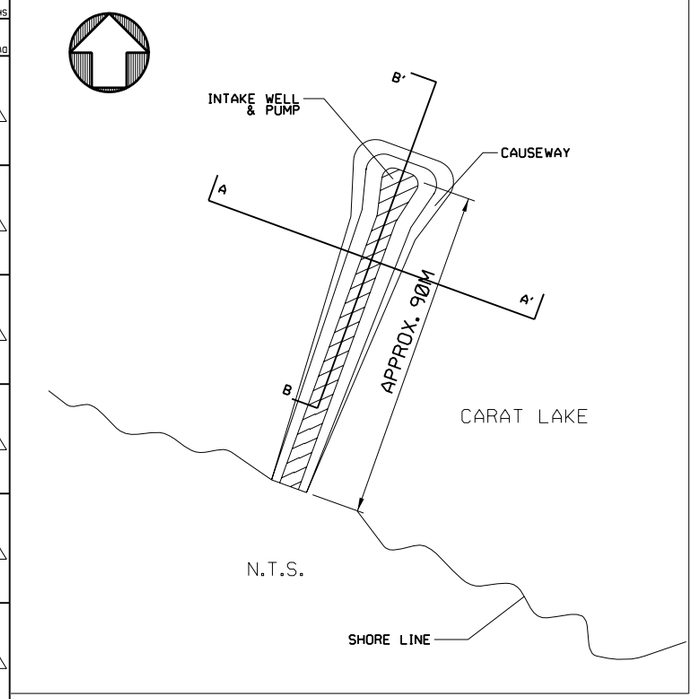
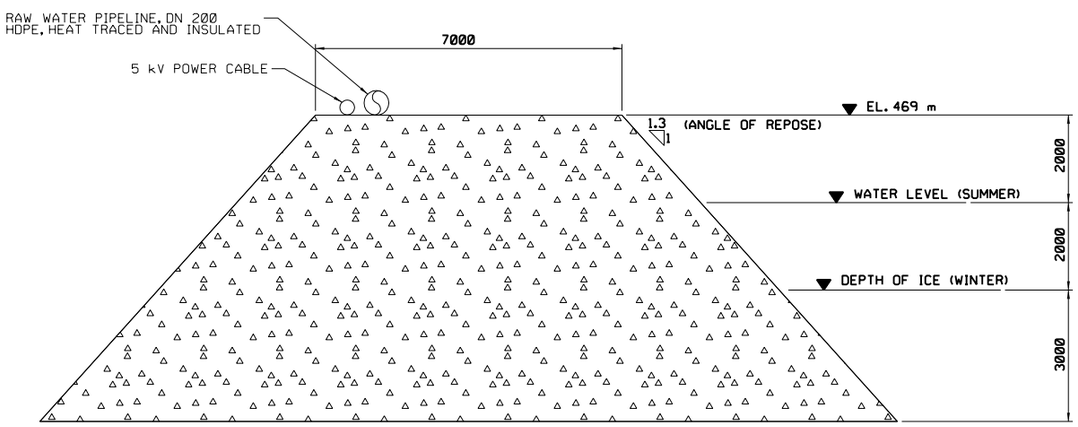




CAUSEWAY SECTION A-A'

NTS

NOTES:

1- FISH SCREEN DESIGN BASED ON DEPARTMENT OF FISHERIES AND OCEANS "FRESHWATER INTAKE END-OF-PIPE FISH SCREEN GUIDELINE" -1995 AND THE FOLLOWING CRITERIA:

A) FISH SWIMMING MODE: SUBCARANGIFORM

B) WATER INTAKE DESIGN FLOWRATES:
1. 50 M3/HR (CONTINUOUS AVERAGE)
2. 100 M3/HR (INSTANTANEOUS MAXIMUM)

C) REQUIRED AREA, BASED ON 50 M3/HR
1. OPEN SCREEN AREA: 0.13 SQ.M
2. EFFECTIVE SCREEN AREA: 0.22 SQ.M.

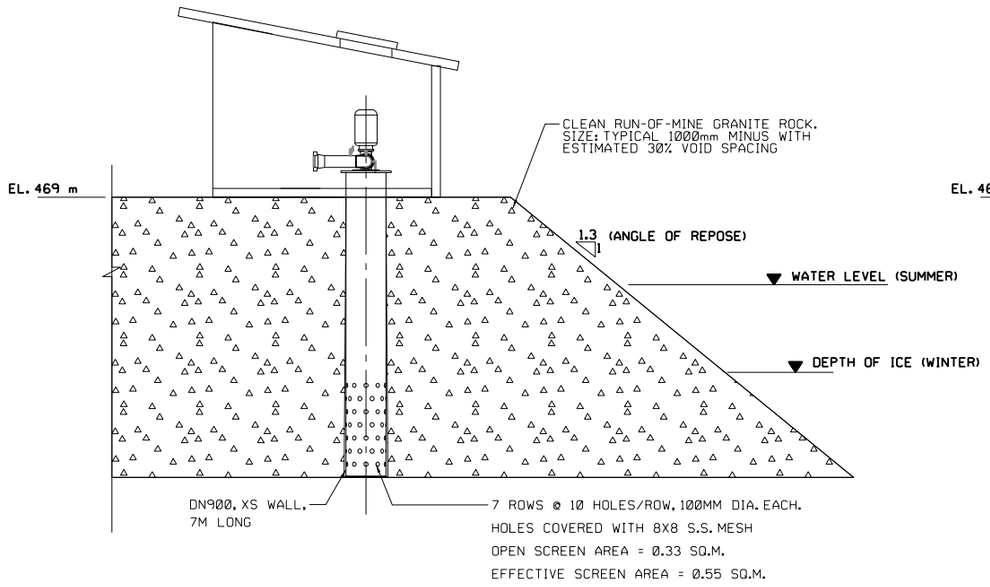
D) REQUIRED AREA, BASED ON 100 M3/RH
1. OPEN SCREEN AREA: 0.26 SQ.M.
2. EFFECTIVE SCREEN AREA: 0.43 SQ.M.

E) FOR ACTUAL PHYSICAL EFFECTIVE AND OPEN SCREEN AREAS, REFER TO NOTES ON EACH ALTERNATIVE SECTION.

F) SCREEN MATERIAL: 8x8 STAINLESS STEEL ALLOY MESH. ALL PIPE OPENINGS TO BE WRAPPED WITH MESH AND SECURED WITH S.S. SELF-TAPPING SCREWS AS REQUIRED.

G) SCREEN MAINTENANCE TO BE DONE MANUALLY, EITHER BY BACK-FLUSHING THE INTAKE OR BY PHYSICALLY REMOVING TRAPPED DEBRIS.

H) PUMP: WEIR/FLOWAY 10 JKM, 6 STAGES, 50 HP MOTOR

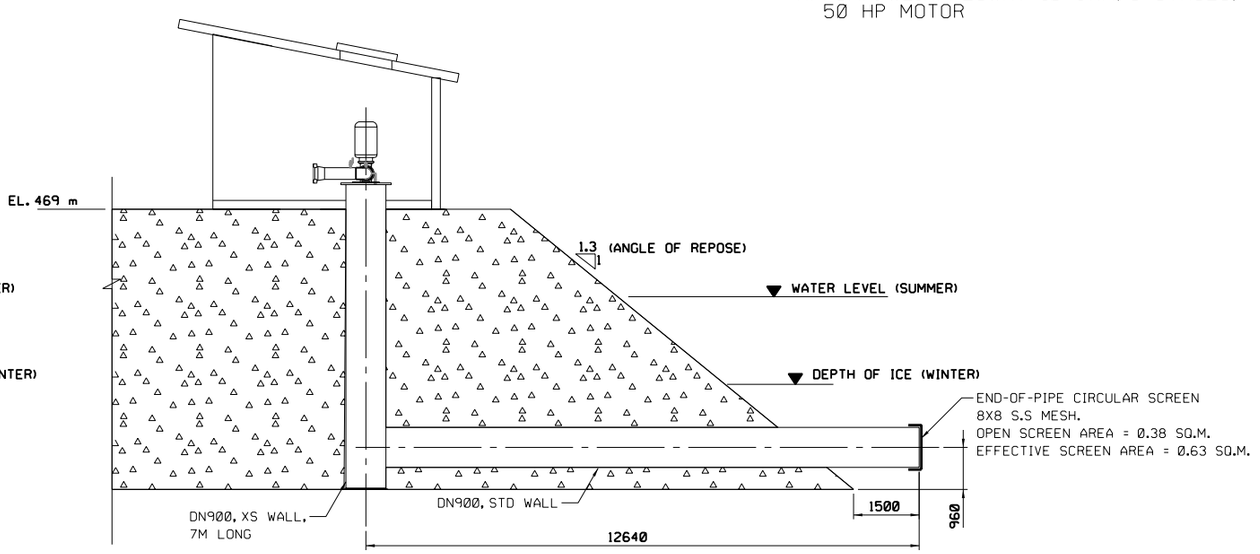


VELOCITIES BASED ON AVERAGE FLOW (50M3/HR):

A) AT SCREEN: 0.046 M/S
B) AT EDGE OF ROCKS:
1. WINTER CONDITIONS: 0.000125 M/S
2. SUMMER CONDITIONS: 0.000075 M/S

CAUSEWAY AND INTAKE WELL - SECTION B-B'

ALTERNATIVE 1



VELOCITY BASED ON AVERAGE FLOW (50M3/HR):

A) AT SCREEN: 0.037 M/S

CAUSEWAY AND INTAKE WELL - SECTION B-B'

ALTERNATIVE 2

FOR WATER LICENSE APPLICATION

SHEET NO.

DWG NO. 316996-SK-P-100

DRAWING NO.	DRAWING TITLE

REFERENCE DRAWINGS

NO.	DESCRIPTION	CHK.	APPR.	DATE
P2	REVISED WITH CLIENT'S COMMENTS	JCP		23/11/04

REVISIONS

STAMP

REV.	ISSUE FOR	AUTH. BY	DATE
P2	INFORMATION	JCP	23/11/04

ISSUE AUTHORIZATION

HATCH

DESIGNED BY J.-C. PARADIS	DRAWN BY J.-C. PARADIS
DATE: 23/11/04	DATE: 23/11/04
CHECKED BY	DISCIPLINE ENG.
DATE:	DATE:
PROJ. DES. COORD.	PROJECT ENG.
DATE:	DATE:
	PROJECT MGR.
	DATE:

TAHERA DIAMOND CORPORATION

PROJECT TITLE
JERICHO DIAMOND PROJECT

CARAT LAKE WATER INTAKE
PLAN AND SECTIONS
FOR LICENSE APPLICATION

HA PROJECT NO. 316996

SCALE	DWG NO.	SHEET NO.	REV.
N.T.S.	316996-SK-P-1000		P1