21 206

HOB.
TE
COL

TRAVERSE 2

83/19

83/10

83/17

83/16

83/20

83/9

83/11

83/18

TRAVERSE 1

TRAVERSE 3

N°30

N°32

BATHURST ST

BRICK BUILDING

ARGYLE ST
× 26M R.

SYNAGOGUE

HOBART CLUB.

N

Scale 1:200

POLICE H

30-32 BATHU

HOBART

SITE PLA

scale 1:2

FIG

M 1386

M 1386

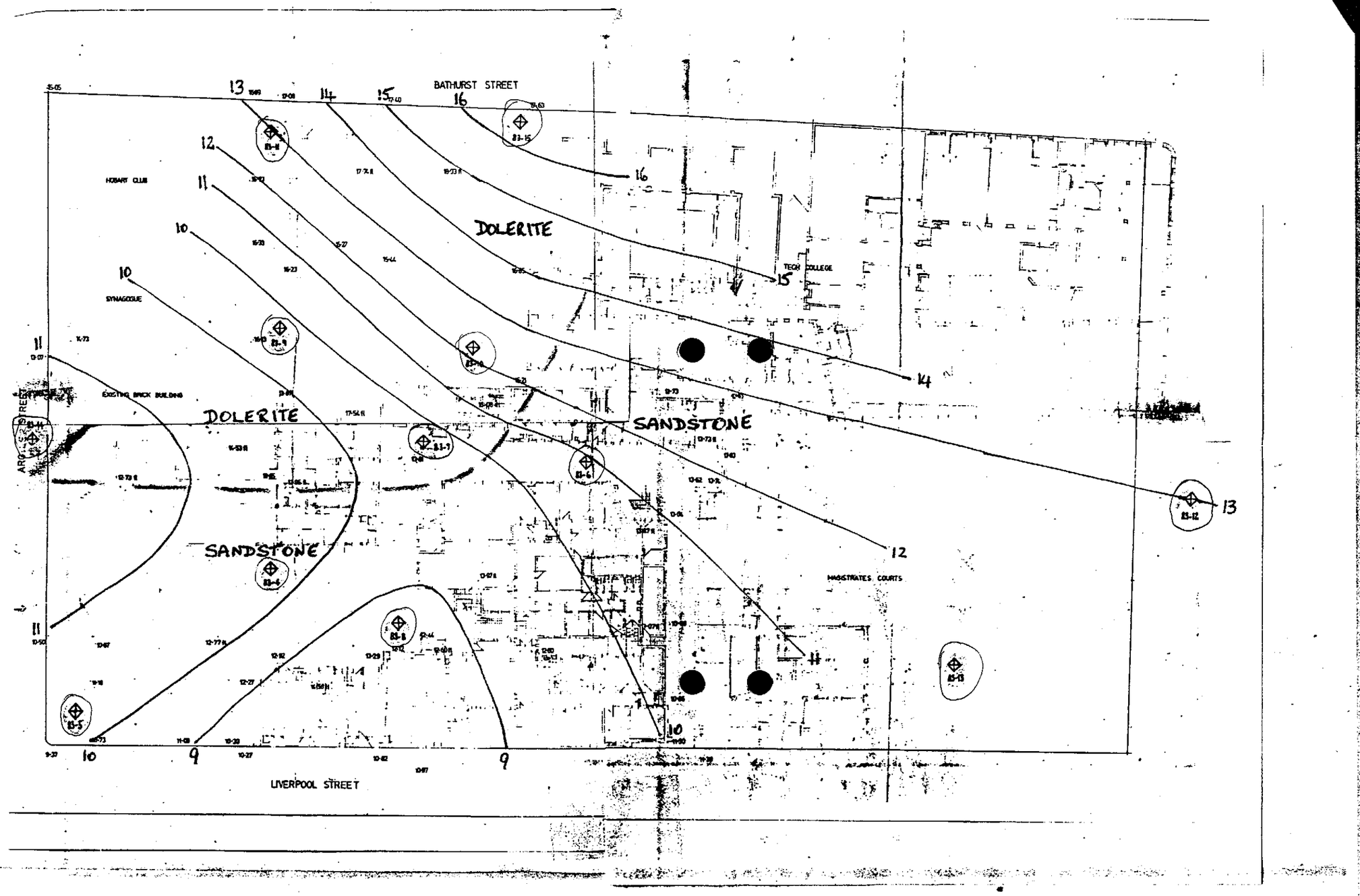

FIG 1: Location of boreholes New Police Headquarters, HOBART ⊕B3-4
Possible structural contours for top of in situ rock materials shown ——13
along with possible position of boundary between dolerite and sandstone — — —

method
AS auger screwing*
AD auger drilling*
R roller/tricone
W washbore
CT cable tool
* bit shown by suffix:
C casing
M mud

penetration
1 2 3 no resistance ranging to refusal

U50 – undisturbed sample 50 mm diameter
D – disturbed sample
N – standard penetration test:figure = result
N* – SPT + sample

based on unified classification system

moisture
D – dry
M – moist
W – wet

S – soft
F – firm
St – stiff
VSt – very stiff
H – hard
Fb – friable
VL – very loose
L – loose
MD – moderately dense

engineering log – borehole

REF NO 18308 ACC 1
QUAD 82 PUR 0
MAP SHEET 83/22 E = 526705
N = 5252335
file: 04·053

borehole no: 83/19
sheet 1 of 3

project: NEW POLICE HEADQUARTERS 30-32 BATHURST STREET HOBART
borehole location: AS PER PLAN

hole commenced: 12/12/1983
hole completed: 13/12/1983
supervised by: N. JOHNSON
log checked by:

drill model and mounting: GEMCO + TRAILER
hole diameter: 110 mm
slope: VERT deg.
bearing: deg.
R.L. surface: 16·79 m
datum:
operator: G. BAKER

method	penetration 1 2 3	support	water	notes samples, tests etc.	R.L. depth metres	graphic log	classification symbol	material: soil type: plasticity or particle characteristics, colour, secondary and minor components.	moisture condition	consistency, rel. density	hand penetrometer 100 200 300 400 kPa	structure and additional observations
AUGER SCREWING					16·79 0·00			SANDY LOAM	M	L		Topsoil
					0·50							
				U75	16·0 1		SC	SANDY CLAY - medium plasticity, grey brown, fine sand	M	St	* *	
				N*=24 12,12,12	2		CL-CH	CLAY - medium plasticity pale brown	M	H		-?-?-?-?-? possibly E.W dolerite.
				N*=>60	14·0		GC -CH	GRAVELLY CLAY - medium plasticity, brown dolerite gravel	M	H		
					3 3·05			Continued on sheet 2 as cored borehole				
					4							
					5							
					6							
					7							

21 236

key

method
AS auger screwing*
AD auger drilling*
R roller/tricone
W washbore
CT cable tool
* bit shown by suffix:
B – blank bit
V – "V" bit
T – TC bit
eg ADT

support
C casing
M mud

penetration
1 2 3 – no resistance ranging to refusal

water
10 Oct, 73 water level on date shown
water inflow

notes – samples and tests
U50 – undisturbed sample 50 mm diameter
D – disturbed sample
N – standard penetration test: figure = result
N* – SPT + sample
Nc – cone penetrometer

classification symbols and soil description
based on unified classification system

moisture
D – dry
M – moist
W – wet

consistency/relative density
VS – very soft
S – soft
F – firm
St – stiff
VSt – very st
H – hard
Fb – friabl
VL – very l
L – loos
MD – mod
D – den
VD – ver

M & R.F8

MAIN ROADS (TAS.) AND RESEARCH DIVISION

engineering log – cored borehole

borehole no: 83-17
sheet 2 of 3

File No. 04·053

project: NEW POLICE HEADQUARTERS 30-32 BATHURST STREET HOBART
borehole location: AS PER PLAN

hole commenced: 12/12/1983
hole completed: 13/12/1983
supervised by: N. JOHNSON
log checked by: R.F.

drill model and mounting: GEMCO & TRAILER slope: VERT deg.
barrel type and length: 2·45 NQTT fluid bearing: deg.
R. L. surface: 16·79 m
datum:
Driller G. BAKER

drilling information: method	case-lift	water		R.L.	depth metres	graphic log core loss	substance description (rock type: grain characteristics, colour, structure, minor components)	weathering	strength Is (50)	defect spacing mm	defect description (particular)	defect description (general)
NQTT					3.0		DOLERITE:- fine grained grey blue	MW				Defects commonly 45°-60°, smooth to moderately rough, planar, and iron-stained, some have thin (1-2mm) calcite coatings
								SW				
					4.0							
				12.0								
					5.0						60° smooth	
		water	14/12/83									
		water	19/12/83		6.0							
				10.0							subvertical smooth	
					7.0							
											70° irregular	
											80° smooth	

21 236

key

method
AS auger screwing
AD auger drilling
R roller/tricone
W washbore
NMLC NMLC core drilling

case-lift
casing used
barrel withdrawn

water
10 Oct, 73 water level date shown
water inflow
partial drilling water loss
complete drilling water loss

graphic log/core loss
core recovered (hatching indicates material)
no core recovered

weathering
Fr – fresh
SW – slightly weathered
MW – moderately weathered
HW – highly weathered
EW – extremely weathered

strength (indirect tensile strength)
EL – extremely low
VL – very low
L – low
M – medium
H – high
VH – very high
EH – extremely high

M 1386

MAIN ROADS (TAS.)
ROAD RESEARCH DIVISION

M & R F8

borehole no: 83-19
sheet 3 of 3

engineering log — cored borehole

File No. 04·053

project: NEW POLICE HEADQUARTERS 30-32 BATHURST STREET HOBART
borehole location: BETWEEN HOUSES AS PER PLAN

hole commenced: 12/12/1983
hole completed: 13/12/1983
supervised by: N. JOHNSON
log checked by: R.R.

drill model and mounting: GEMCO + TRAILER slope: VERT deg.
barrel type and length: NQTT 2·45 fluid H_2O bearing: deg.

R. L. surface: 16·79 m
datum:
Driller G. BAKER

drilling information				rock substance				rock mass defects	
method	case-lift	water	R.L. depth metres	graphic log / core loss	substance description (rock type: grain characteristics, colour, structure, minor components.)	weathering	strength Is (50) EL VL L M H VH EH	defect spacing mm 30 100 300 1000 3000 A	defect description (thickness, type, inclination, planarity, roughness, coating.) particular / general
NQTT			8·0		DOLERITE - fine grained, grey blue	SW			DEFECTS COMMONLY AT 45°-90° SLIGHTLY ROUGH IRONSTAINED
			9·0						
			10·0						
			11·0						70° smooth calcite coated
			12·0		dark grey	Fr			60°
					END 83-19				
					Note: Hole drilled to 12·30 m but core snapped off at 12·0 m.				

21 238

key

method
- AS auger screwing
- AD auger drilling
- R roller/tricone
- W washbore
- NMLC NMLC core drilling

case-lift
- casing used
- barrel withdrawn

water
- 10 Oct, 73 water level date shown
- water inflow
- partial drilling water loss
- complete drilling water loss

graphic log/core loss
- core recovered (hatching indicates material)
- no core recovered

weathering
- Fr — fresh
- SW — slightly weathered
- MW — moderately weathered
- HW — highly weathered
- EW — extremely weathered

strength (Is(50) indirect tensile strength)
- EL — extremely low
- VL — very low
- L — low
- M — medium
- H — high
- VH — very high
- EH — extremely high

M 1386