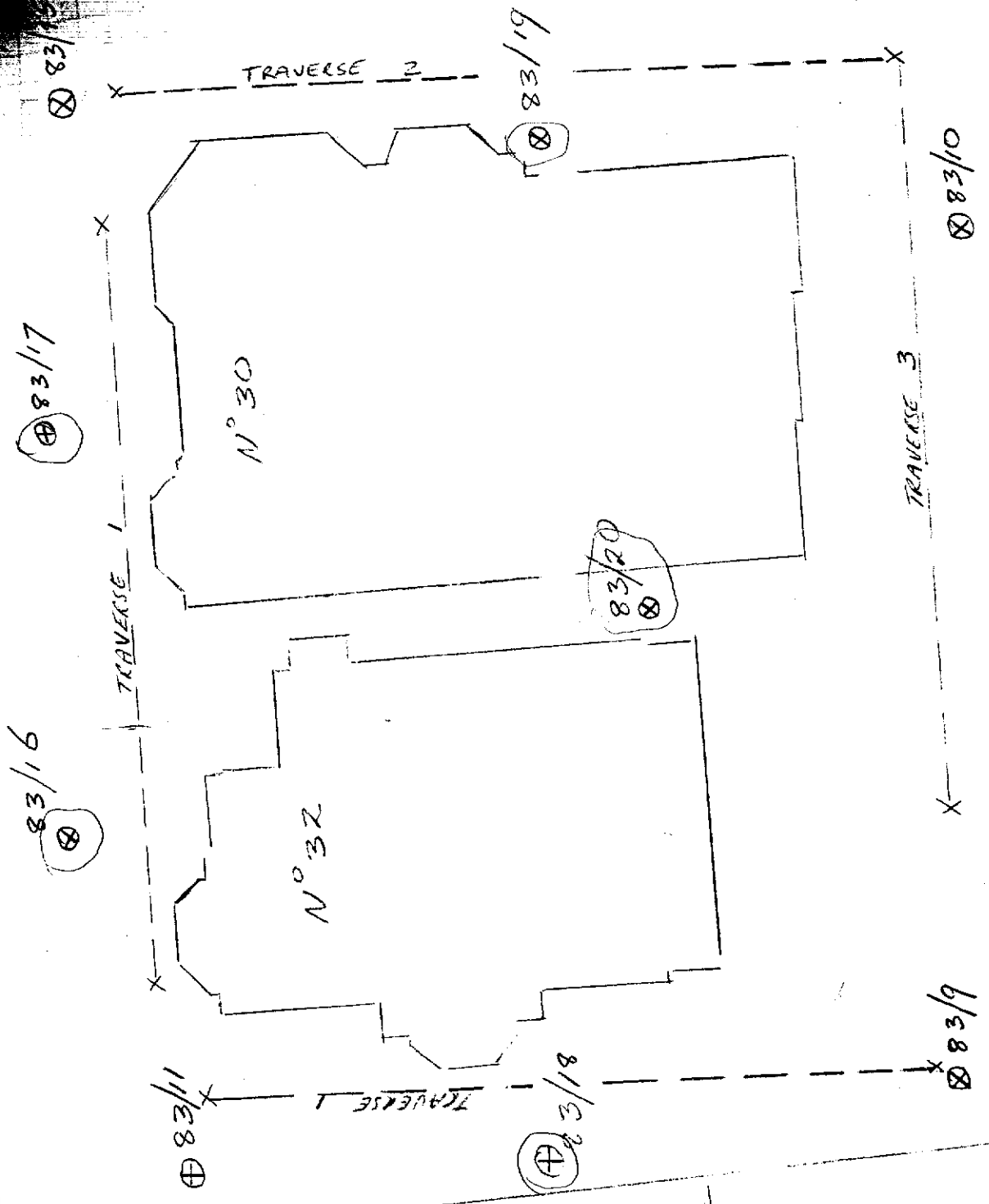


HOB.
TE
COL

21 206

Bathurst ST



BRICK BUILDING

HOBART CLUB.

ARCHIE ST
x 26M R.

SYNAGOGUE

Scale 1:200

H E 3100

30-32 BATHURST

HOBART

SITE PLAN
scale 1:2

FIG

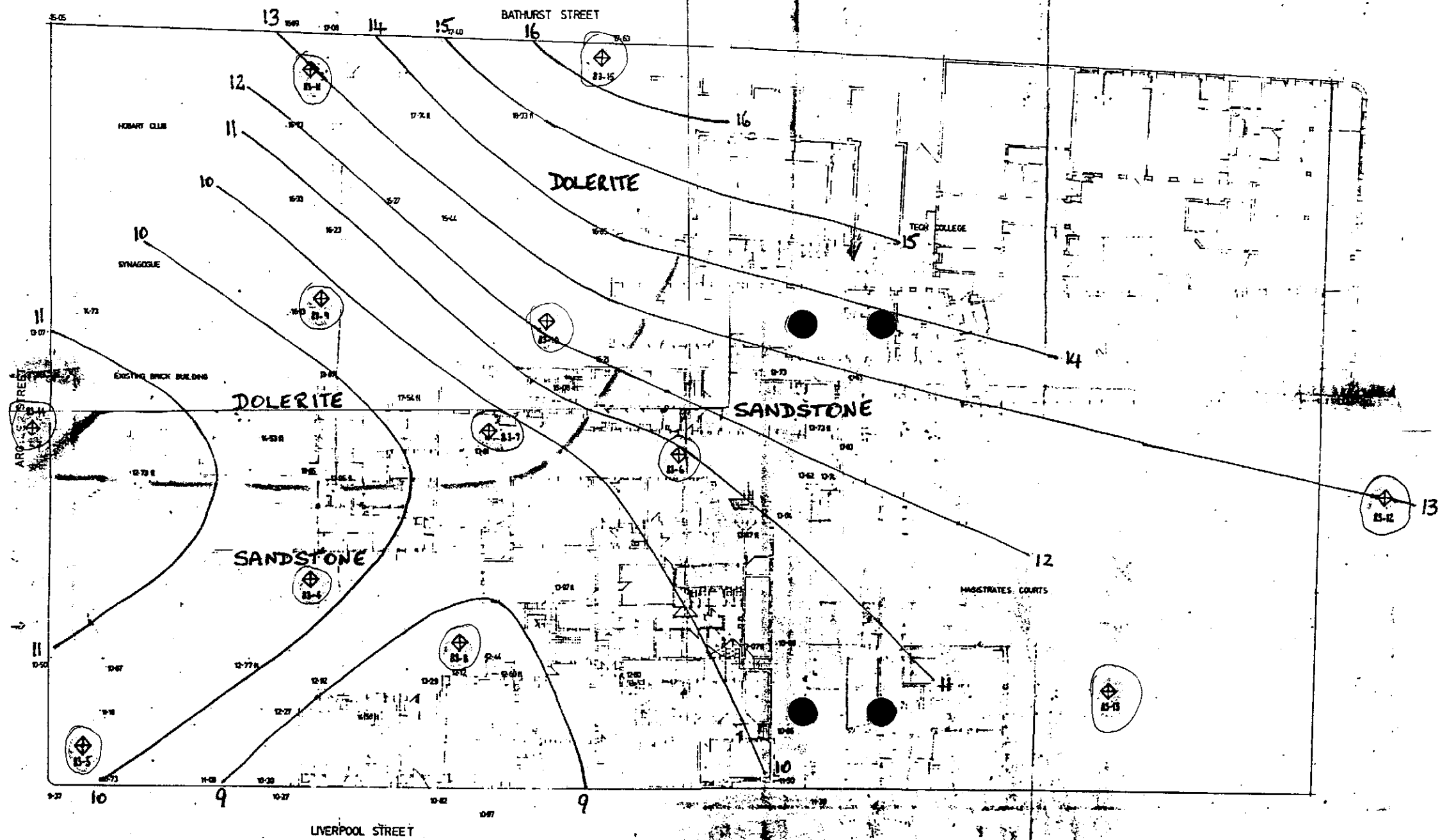


FIG 1: Location of boreholes New Police Headquarters, Hobart B3-4
 Possible structural contours for top of in situ rock materials shown — 13
 along with possible position of boundary between dolerite and sandstone - - - -

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

C casing mud
 M mud
 penetration
 123 no resistance ranging to refusal

U50 - undisturbed sample 50 mm diameter
 D - disturbed sample
 N - standard penetration test: figure = result
 N° - SPT + sample
 AI cone penetrometer

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

REF NO 18298
 QUAD 82
 MAP SHEET 83122

ACC 1
 PUR 0
 E = 526705
 N = 5252320

borehole no:
83-9
 sheet 1 of 2

engineering log - borehole

file:

hole commenced: 7-6-83
 hole completed: 7-6-83
 supervised by: T. SWANTON / C. DAVIES
 log checked by: B. WELDON

project: **NEW POLICE HEADQUARTERS**
 borehole location: **HOBART AS PER PLAN**

drill model and mounting: GEMCO (trailer) slope: Vert deg. R.L. surface: N16.2 m
 hole diameter: 110 mm bearing: - deg. datum: operator: G. BAKER

method	penetration 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	100 kPa hand penetrometer	structure and additional observations
	123			0			PRIME & SEAL RUBBLE, FILL, SANDY CLAY				water levels date depth 9-6 0.00m 14-6 1.45 15-6 1.60 17-6 1.70
			N [*] = 10 (2,4,6)	1.85		SC-CL	SANDY CLAY: grey brown; medium plasticity; MC > P.L.; packets of silt	M	VSt		
AS			N [*] = 21 (6,9,12)	3.45		SC-CL	SANDY CLAY: as above	M	VSt H		pocket of silty clay
			N [*] > 50 (7,12,20) 75	4.875		SC	CLAYEY GRAVEL: medium to fine grained subrounded sil dolerite and MW-HW sandstone gravel; sandy clay matrix	M	MD-D		N.B. SPT last 20 blows for only 75mm of penetration
			N [*] = 42 (18,17,25)	6.50			DOLORITE: green-grey; extremely weathered with veins of whitish clay.	M	Fb		
			N > 20	7.01			DOLORITE				SPT attempted at
							continued on engineering log-cored borehole sheet				10m depth, minimal penetration after 9 blows, hammer rebounding strongly

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 e.g. ADT	support C casing M mud penetration 123 no resistance ranging to refusal water 10 Oct, 73 water level on date shown water inflow water outflow	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 stiff H - hard Fb - friable VL - very loose L - loose MD - moderately dense D - dense VD - very dense
---	---	--	--	--

21 218

engineering log — cored borehole

File No.

project: **NEW POLICE HEADQUARTERS HOBART**
borehole location: **AS DER PLAN**

hole commenced: **7-6-83**
hole completed: **7-6-83**
supervised by: **T. SHANTON / C. DAVIES**
log checked by: **B. WELDON**

drill model and mounting: **GEMCO (trailer)** slope: **Vert** deg.
barrel type and length: **NQTT 1.5 m** fluid **H₂O** bearing: **-** deg.
R. L. surface: **N 16.2** m
datum: Driller **G. BAKER**

drilling information			rock substance			rock mass defects		
method	case-lift	water	R.L. depth metres	substance description rock type: grain characteristics, colour, structure, minor components.	weathering	strength Is (50)	defect spacing mm	defect description thickness, type, inclination, planarity, roughness, coating. particular general
			7.06	continued from engineering log- borehole sheet				
			7.18	DOLERITE: blue-grey, fine veins CORE LOSS	MW			veins
			7.65	DOLERITE: blue-grey, fine CORE LOSS	MW			highly broken
			8	CORE LOSS				
			8.53					
			8.65					
			8.75	DOLERITE: blue-grey, fine grained	MLI			subvertical joints vein 15mm wide white, clay
			8.90					
			9.30					
			10.01	DOLERITE: brown, clayey gravel END OF BOREHOLE 83-9 at 10.01m depth.	MW			clay matrix

21 219

Rock mass is highly broken
up by veins of clay like
material. Rock M-H strength
but in situ low strength

<p>key</p> <p>method</p> <p>AS auger screwing AD auger drilling R roller/tricone W washbore NMLC NMLC core drilling</p>	<p>case-lift</p> <p> casing used H barrel withdrawn</p> <p>water</p> <p>10 Oct, 73 water level date shown</p> <p>water inflow</p> <p>partial drilling water loss</p> <p>complete drilling water loss</p>	<p>graphic log/core loss</p> <p>core recovered (hatching indi- cates material)</p> <p>no core recovered</p>	<p>weathering</p> <p>Fr — fresh SW — slightly weathered MW — moderately weathered HW — highly weathered EW — extremely weathered</p>	<p>strength (indirect tensile strength)</p> <p>EL — extremely low VL — very low L — low M — medium H — high VH — very high EH — extremely high</p>
--	---	---	--	--