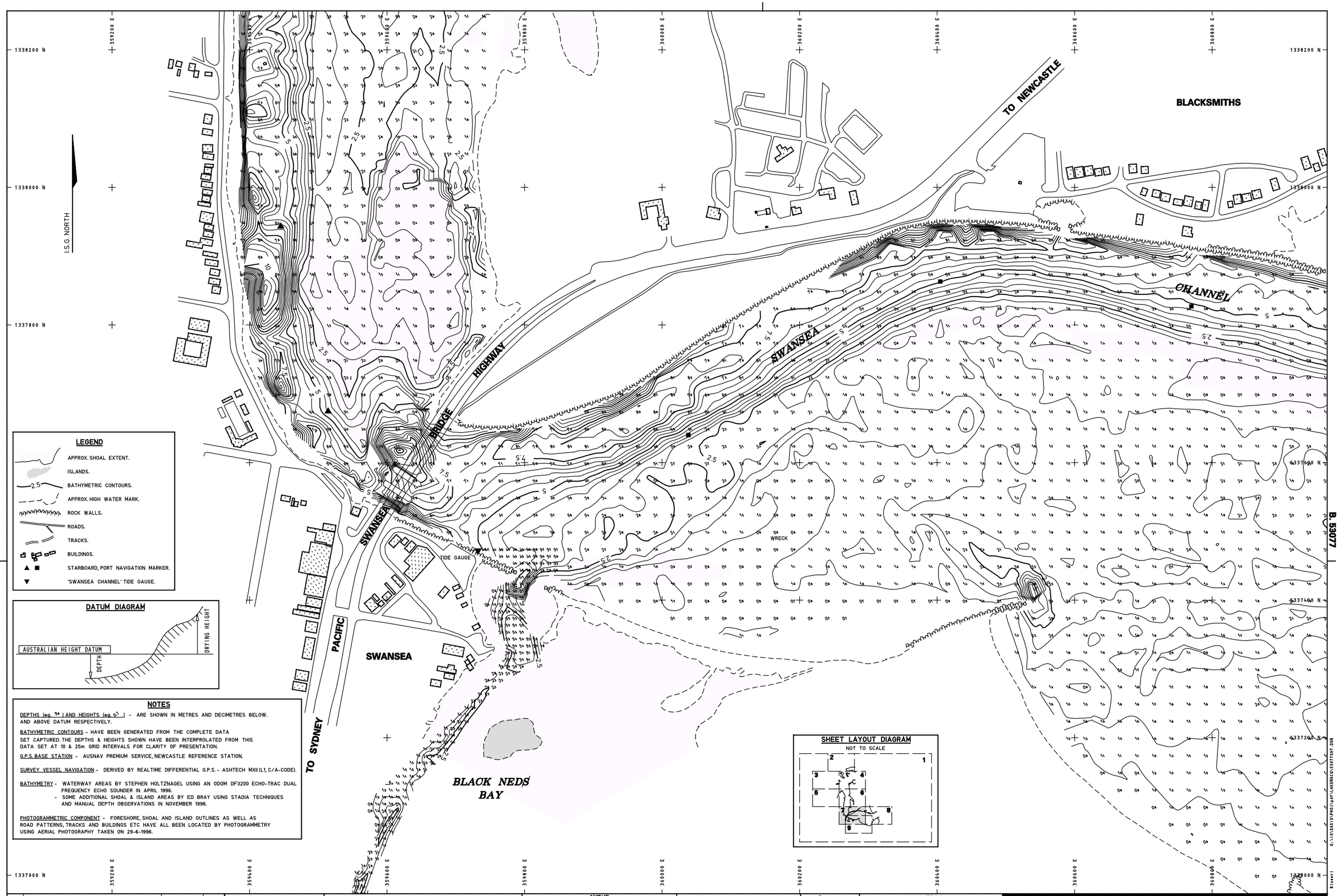

LEGEND

- APPROX. SHOAL EXTENT.
- ISLANDS.
- 2.5 BATHYMETRIC CONTOURS.
- APPROX. HIGH WATER MARK.
- ROCK WALLS.
- ROADS.
- TRACKS.
- BUILDINGS.
- ▲ ■ STARBOARD, PORT NAVIGATION MARKER.
- ▼ 'SWANSEA CHANNEL' TIDE GAUGE.

DATUM DIAGRAM

NOTES

DEPTHS (eg. 3⁴) AND HEIGHTS (eg. 0.1) - ARE SHOWN IN METRES AND DECIMETRES BELOW. AND ABOVE DATUM RESPECTIVELY.

BATHYMETRIC CONTOURS - HAVE BEEN GENERATED FROM THE COMPLETE DATA SET CAPTURED. THE DEPTHS & HEIGHTS SHOWN HAVE BEEN INTERPROLATED FROM THIS DATA SET AT 10 & 25m GRID INTERVALS FOR CLARITY OF PRESENTATION.

G.P.S. BASE STATION - AUSNAV PREMIUM SERVICE, NEWCASTLE REFERENCE STATION.

SURVEY VESSEL NAVIGATION - DERIVED BY REALTIME DIFFERENTIAL G.P.S. - ASHTECH MXII (L1, C/A-CODE).

BATHYMETRY - WATERWAY AREAS BY STEPHEN HOLTZNAGEL USING AN ODOM DF3200 ECHO-TRAC DUAL FREQUENCY ECHO SOUNDER IN APRIL 1996.
- SOME ADDITIONAL SHOAL & ISLAND AREAS BY ED BRAY USING STADIA TECHNIQUES AND MANUAL DEPTH OBSERVATIONS IN NOVEMBER 1996.

PHOTOGRAMMETRIC COMPONENT - FORESHORE, SHOAL AND ISLAND OUTLINES AS WELL AS ROAD PATTERNS, TRACKS AND BUILDINGS ETC HAVE ALL BEEN LOCATED BY PHOTOGRAMMETRY USING AERIAL PHOTOGRAPHY TAKEN ON 29-6-1996.

SHEET LAYOUT DIAGRAM

NOT TO SCALE

MK	DETAILS OF AMENDMENTS	APPROVED	DATE

PLAN PREPARED BY
DEPARTMENT OF PUBLIC WORKS & SERVICES
GEOMATICS
LEVEL 14 McKELL BUILDING
2-24 RAWSON PLACE SYDNEY
TEL: (02) 9372 7907 FAX: (02) 9372 7922

DATUM: AUSTRALIAN HEIGHT DATUM

CAUTION
THIS PLAN HAS BEEN PRODUCED AT THE SCALE/S SHOWN BELOW FOR THE PURPOSE OF AN ESTUARY PROCESS STUDY AND SHOULD NOT BE USED FOR ANY OTHER PURPOSE.

0 20 40 80 120 160 200
REDUCTION RATIO 1:2,000 METRES

CO-ORDINATES	- I.S.G. ZONE 56/1
CONTOUR INTERVAL	- 0.5 METRE
SURVEYOR	- STEPHEN HOLTZNAGEL
SURVEY DATE/S	- 15 to 18th APRIL 1996
PROJECT CONTROLLER	- MARTIN FITZHENRY
CADD OPERATOR	- ALAN ORCHARD
PLAN EXAMINER	- ALLAN GORDON
JOB NUMBER	- 6510523

LAND & WATER CONSERVATION

DEPARTMENT OF LAND AND WATER CONSERVATION
ESTUARY MANAGEMENT PROGRAM

SURVEYOR	- STEPHEN HOLTZNAGEL 11/12/97
PROJECT CONTROLLER	- MARTIN FITZHENRY 11/12/97
PLAN EXAMINER	- ALLAN GORDON 11/12/97

SWANSEA CHANNEL - LAKE MACQUARIE ENTRANCE
HYDROGRAPHIC SURVEY

BATHYMETRY

SHEET No 7
No IN SET 9
PLAN ROOM CAT No 53077

B. 53077

12:24:17 25 JAN 2000 $(user)