

**DREDGING OF GRAND BANK HARBOUR**

**Environmental Registration Document**

**March 2003**

Project # 721770

**NAME OF UNDERTAKING**

DREDGING OF GRAND BANK HARBOUR

**PROPONENT****• Name of Corporate Body:**

Grand Bank Harbour Authority

**• Address:**P. O. Box 88  
Grand Bank, NL  
A0E 1W0**• Chief Executive Officer:**Name: Arch Evans  
Official Title: President  
Address: As above  
Telephone: 709-832-0255**• Principal Contact Person for purposes of environmental assessment:**Name: Arch Evans  
Official Title: President  
Address: As above  
Telephone: 709-832-0255

**THE UNDERTAKING**

- **Nature of the Undertaking**

Dredging of an area in Grand Bank Harbour.

- **Purpose/Rationale/Need for the Undertaking**

To deepen the harbour and approach to accommodate a new, larger vessel which will supply raw material to the Fish Plant in Grand Bank.

**DESCRIPTION OF THE UNDERTAKING**

- **Geographical Location**

The proposed work will take place in the harbour of the Town of Grand Bank, Newfoundland and Labrador, located at 47 degrees, 6 minutes North Latitude and 55 degrees 46 minutes West Longitude. The Town and harbour are shown on the 1:50,000 National Topographic Survey Plan No.1M4 entitled Grand Bank.

The exact limits of the work relative to existing structures is shown on the Site Plan for the work at a scale of 1:1000.

The report for the Grand Bank Development Corporation entitled "Harbour Expansion Study" dated October 2000 provided additional data concerning the location, climate, and the rationale behind the study which evolved into the proposed work.

- **Physical Features**

The harbour area at Grand Bank proposed for deepening is approximately 80 metres wide and 120 metres long. It is bounded on the south by the Fish Plant, on the west by a timber piled marginal wharf, on the north by the rubble mound breakwater, and on the east by a similar breakwater. The access channel entrance is located at the northeast corner of the harbour.

The harbour opens to the waters of Fortune Bank and is tidal. A small stream, Grand Bank Brook, flows into the south end of the harbour and occasional sediment is transported into the harbour from the stream after heavy rains.

Grand Bank has been a traditional Newfoundland fishing community for more than a century, and over the years has learned how to adapt to an almost constantly changing industry in order to sustain itself. The identified measure needed at this time is the deepening of the harbour by about two (2) metres so that it is accessible by the latest vessel designed to carry raw material into the plant. The quantities of dredged spoil to be removed are about 8000 cubic metres of rock and 18,000 cubic metres of sand or common, as shown in the White Paper titled "Strategic Community Investment Fund Proposal."

The harbour has been created over the years by expanding the mouth of Grand Bank Brook, a small stream which enters the harbour at the highway bridge. The brook has created siltation of the harbour over time, and it has been previously dredged by Public Works Canada on a number of occasions.

The harbour is home to the typical inshore seawater fish and shellfish species, as well as migratory trout and salmon entering the brook. There is also abundant seaweed, grasses, and algae normally found in a harbour.

- **Construction**

The proposed dredging is essentially made up of two components:

- ♦ The sand or common material which will be removed by a barge-mounted backhoe or crane with clam bucket to a watertight scow. When full, the scow will be towed to the wharf where the material will be transferred to trucks with watertight boxes. The trucks will then carry it to a pre-selected disposal site where it will be contained. The total amount of this material to be removed is expected to be 18,000 cubic metres, or about 900 truck loads.
- ♦ The rock on the east side of the harbour that is exposed after the common material is removed will be taken out by drilling and blasting methods. Small areas (about 20 m x 20 m) will be drilled from barges or platforms and the blasted material removed in the same fashion as the sand. It is expected that approximately ten (10) blasts will be needed to remove the estimated 8000 cubic metres of rock. This activity will probably occur over a three (3) month period. All the work on the project is expected to take five (5) months.

During the dredging activities, there will be the normal exhaust emissions of heavy equipment internal combustion engines and possibly a small amount of explosive slurry as a by-product of the blasting operation.

The water in the area of the excavation and downstream from it will be disturbed on a temporary basis, and sediment dispersal will occur during these periods. The work will take place during daylight hours only.

- **Operation**

The operation section is not applicable as all disturbance will occur during the construction period only.

- **Occupations**

The occupations involved are those associated with normal constructed related activities, such as heavy equipment operators, blasters, truck drivers, etc., except that in this case some individuals will be operating from the water on barges or other marine plant. All marine plant will be reviewed and certified as fit for use by a naval architect.

• **Project Related Documents**

- Harbour Expansion Study – Grand Bank Development Corporation, October 2000
- Geotechnical Report – Fracflow Consultants Inc., September 1999
- Geotechnical Report – Fracflow Consultants Inc., May 2002
- Harbour Expansion Study Update – Grand Bank Port Authority, July 2002
- Strategic Community Investment Fund Proposal – Dredging of Grand Bank Harbour, December 2002

**APPROVAL OF UNDERTAKING**

The permits, licences, approvals and other authorizations which may be required for the proposed undertaking include, but may not be limited to:

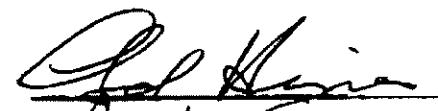
Permit, Approval or Authorization	Issuing Agency
Approval for the Undertaking	Department of Environment
Certificate of Approval for Construction (Alter a Body of Water)	Department of Environment
Certificate of Approval for the Storage and Handling of Gasoline and Associated Products	Department of Environment
Certificate of Approval for Disposal Site and Conditions	Department of Environment

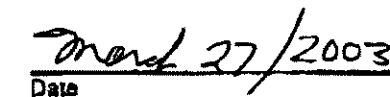
**SCHEDULE**

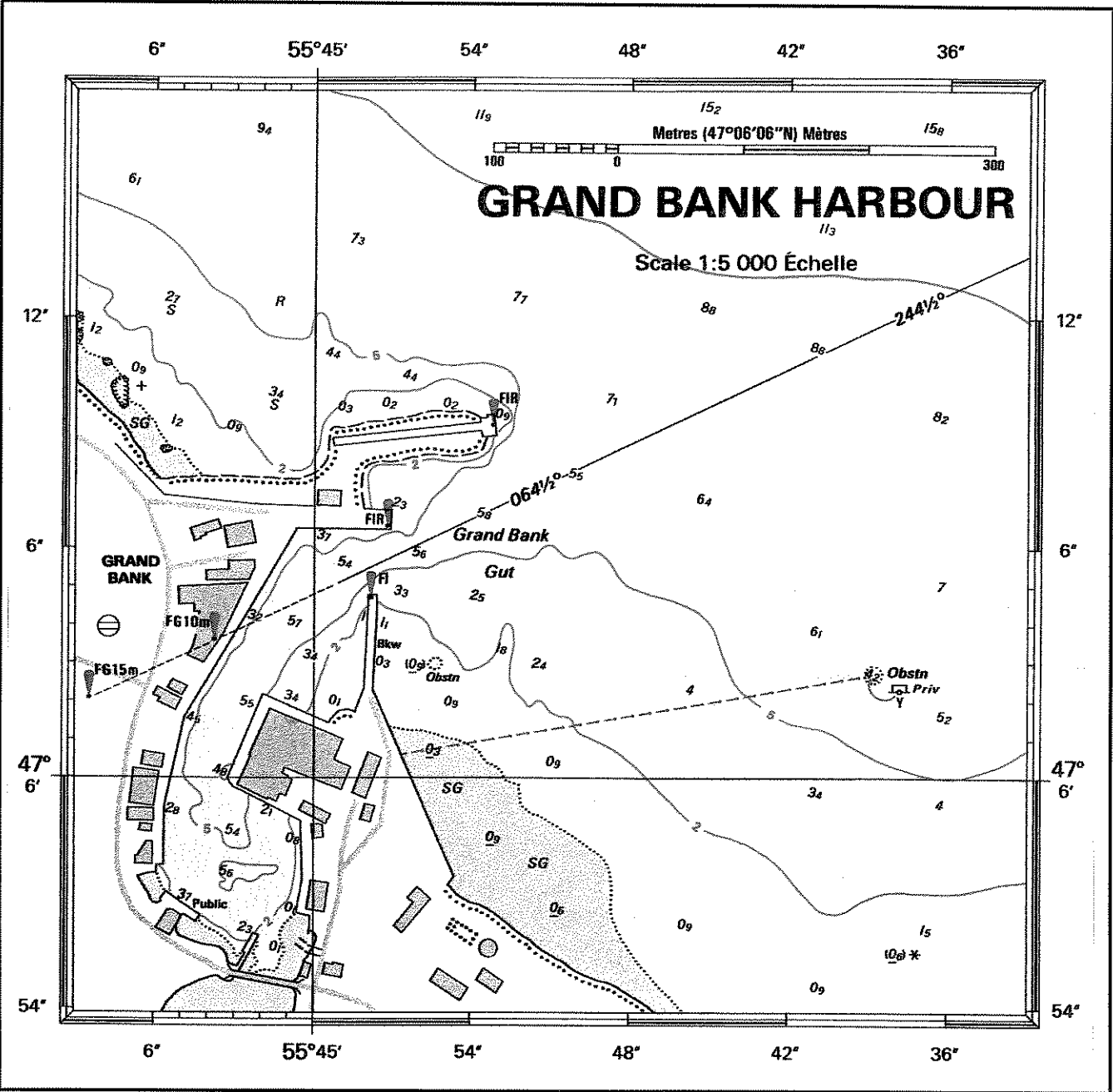
Construction of this project is scheduled to begin in May 2003 with a completion date of the end of November 2003. In order to meet this proposed scheduling the requirements of the *Environmental Assessment Act* must be completed as soon as possible.

**FUNDING**

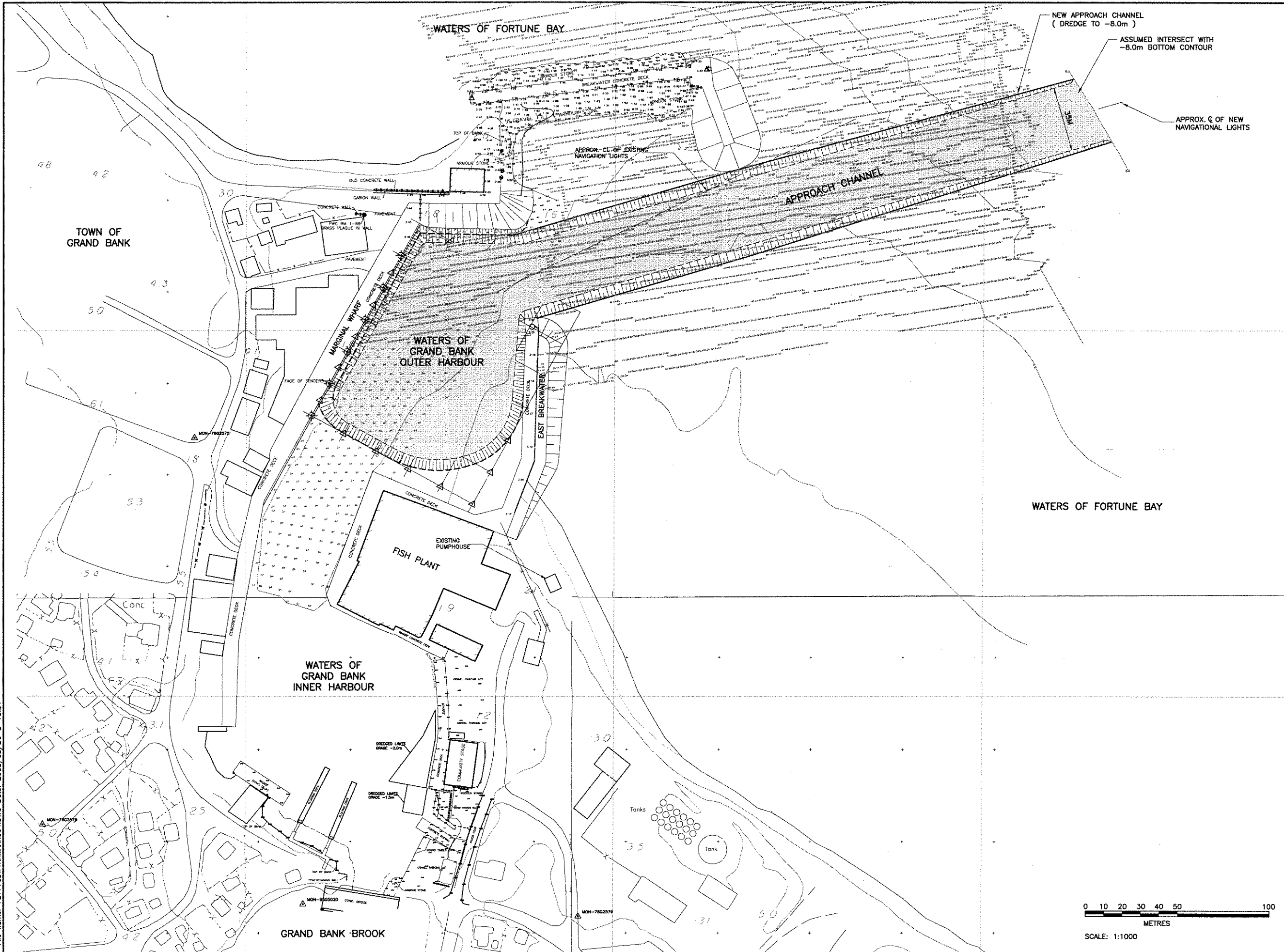
Financing of this project is expected from the Atlantic Canada Opportunities Agency, the Government of Newfoundland and Labrador, and Grand Bank Seafoods Inc.

  
Paul Harris

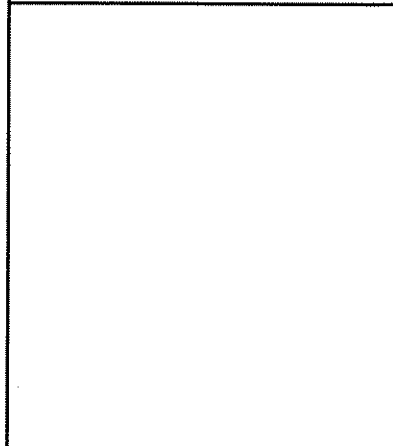
  
Date



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**LEGEND**

(-7.5) DREDGING ELEVATIONS IN METRES

AREA TO BE DREDGED

C	ISSUED FOR REVIEW	03/03/25	03/03/25
B	ISSUED FOR FINAL REPORT	00/11/02	00/11/02
A	ISSUED FOR REVIEW	W.S.C.	00/10/17
REV.	REVISIONS	REVISED BY	DATE
		APP. BY	DATE

**BAE • NEWPLAN GROUP LIMITED**  
1133 TOPSAIL ROAD, MOUNT PEARL, NF A1N 5G2  
TEL: (709) 368-0118. FAX: 368-3541

NORTH

PROFESSIONAL STAMP

W. S. COLLINS  
SIGNATURE  
DATE

PERMIT HOLDER STAMP

PROVINCE OF NEWFOUNDLAND  
PERMIT HOLDER  
CLASS "A"  
This Permit Allows  
**BAE • NEWPLAN GROUP LIMITED**  
To practice Professional Engineering in Newfoundland and Labrador.  
Permit No. as issued by APESON 10111 which is valid for the year 2000.

CLIENT

**GRAND BANK HARBOUR AUTHORITY**

PROJECT

**HARBOUR DREDGING 2003**

TITLE

**SITE PLAN**

DESIGNED BY	W.S.C.	DATE	00/10/18	CHECKED BY	R.T.B.	DATE	00/10/17
DRAWN BY	P.W.	DATE	00/10/18	APPROVED BY	W.S.C.	DATE	00/10/17
SCALE	AS NOTED		PROJECT No.	721770			
CADD No.	721770DW1XXMAXX004		DRAWING No.	DW1 - XX - MA - XX - 004			
REV.	C						

0 10 20 30 40 50 100  
METRES  
SCALE: 1:1000