

Chartered Architectural Technologist
Professional and Occupational Performance Records

Unit B (Knowledge)

Exempt due to CIAT Accredited BSc (Hons) Architectural Technology & Management
See attached certificate



University of Ulster

By virtue of the power vested in it by the Charter and Statutes
and by the authority of the Senate, the University
has this day conferred the degree of

BACHELOR OF SCIENCE

with first class honours

and the

DIPLOMA IN INDUSTRIAL STUDIES

with commendation

on

having completed a course of study in

ARCHITECTURAL TECHNOLOGY AND MANAGEMENT

In Witness Whereof the Council has authorised
the Common Seal of the University to be
impressed on this document.

JERRY

McKeena

Vice-Chancellor

2 JULY 2001

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**Unit B
(Performance)**

Unit B (Performance)

To date my six years postgraduate experience working for Architects has provided me with many opportunities to use various surveying equipment and techniques.

Generally survey type and methods vary greatly depending of the circumstances of each specific project. For example certain projects may involve an extension to an existing building, refurbishment or alterations. Such projects are centered on working within an existing building therefore it will be necessary to obtain accurate dimensional drawings of the existing building. Initially as a practice we would ask the client to provide any available information, i.e. floor plans, elevations, sections etc. In some circumstances a client will have access to previous 'as constructed' drawings which can prove to be very usefully when carrying out a desktop appraisal. If a client's search for existing drawings proves to be inconclusive, we would make contact with the Local Authorities, pay an administration fee, and obtain access to archive drawings if available. (*Refer to Appendix 1.0 for an example of a Local Authority Land Registry Map*).

After such investigations are complete, we will arrange with the client / building owner to obtain access to the building to carry out a full detailed measurement survey of the building. At this stage we would generally select the most appropriate surveying equipment for that project. In the past mechanical equipment such as steel measuring tapes, together with digital measuring devices such as the 'Leica' Disto hand held laser meter and optical equipment such as a dumpy level have been used. Such equipment enables us to collate extremely accurate measurement data. (*Refer to Appendix 2.0 for an example of a measurement survey*). We would also take a large number of digital photographs which can be used as a reference during the 'drawing up' process of a survey (*Refer to Appendix 3.00 for an example of survey photographs*). Digital photographs are also retained for future records.

Green field developments are somewhat different to working within existing buildings. Initially our investigation would take the form of an informal site visit followed with a detailed investigation into land ownership and boundary clarification. At this stage we would call upon local knowledge, Land Registry (*Refer to Appendix 4.0 Land Registry Map*) and Legal Deed Records to establish the exact extent of land ownership. Such investigations also aid in the identification of possible confictions to development such as Right of Ways, existing services (*Refer to Appendix 5.00 & 5.01 for NI Water record drawings*), nesting birds or significant archaeological history. (*Refer to Appendix 6.0 drawing produced to identify land outside client's ownership*).

Once the initial elements setout above have been resolved we would carrying out a full topographical survey of the land. For small localized sites it may be adequate to carry out a measurement survey using 30m long tapes together with a dumpy level and timber pegs to obtain the necessary information (*Refer to Appendix 7.0 level data collected during survey*). For larger and more complex sites we would generally engage the services of a qualified land surveyor, who with the use of extremely accurate equipment such as a Theodolite or Total Station. This equipment will collate detailed site information such as levels, contours, boundary lines, obstacles, trees, drainage runs & invert heights, all of which will be referenced back to a suitable bench mark that can later be reused to set out a proposed building. Such surveys can be supplied in a digital format that is compatible with our Autocad drawing software within the office. (*Refer to Appendix 8.0 typical topographical survey*).

An example of B.3 - 'investigate and evaluate development factors, likely problems and potential solutions'. Evidence for this section comes from an ongoing new build project for SPAR referred to as Viking Lodge. (*Refer to Appendix 9.0 Proposed Site Plan*) Our client purchased this site several years ago with the intention of redevelopment to construct a proposed SPAR store with

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additional retail / hot food units and petrol forecourt. The existing site was elevated on two sides with steep embankments. The third boundary had been constructed with gabion retention to protect a housing development at the higher end of the site. As part of the design team we quickly established that the existing gabions were showing early signs of failure. Protection and a method of securing the existing gabions from further failure became one of the first development factors affecting the site. Appendix 7.0 shows our proposals solutions for the treatment of these gabions. The conditions of this site are quite complex and could perhaps be better explained at interview stage.

All equipment is regularly checked for accuracy using standard calibration techniques within the practice. Person protective equipment (PPE) such as hard hats, high visibility clothing and steel toe cap boots are used when appropriate.

Summary

Evidence for Units B.1, B.2 & B.3 has been provided within the following attached appendixes:

- 1.0 *example of a Local Authority Land Registry Map*
- 2.0 *example of a measurement survey*
- 3.0 *example of survey photographs*
- 4.0 *Land Registry Map*
- 5.00 & 5.01 *NI Water drawing records*
- 6.0 *drawing produced to identify land outside client's ownership*
- 7.0 *level data collected during survey*
- 8.0 *typical topographical survey*
- 9.0 *Proposed Site Plan*

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Appendix 1.0

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Appendix 2.0

Address:

e-mail:

Website:

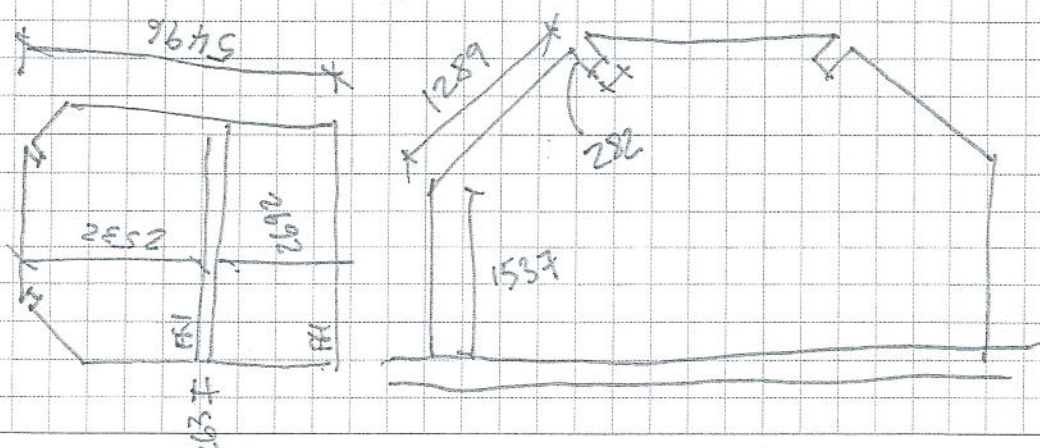
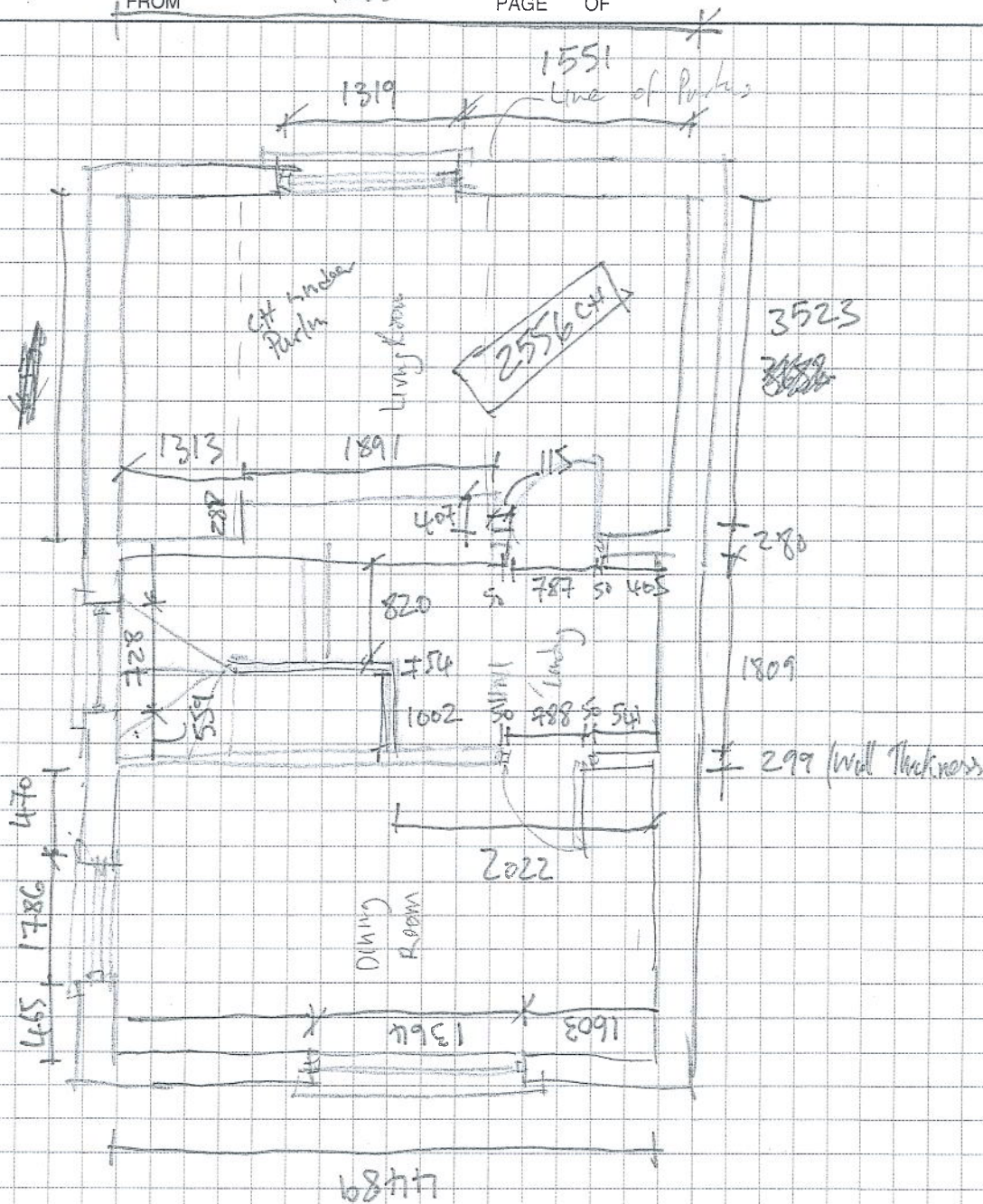
architects

- FAX
- PHONE
- INSTRUCTION
- MEMO

TO _____
 COMPANY _____
 FROM _____

PROJECT NAME BARN Conversion
 PROJECT NO. _____
 DATE _____
 PAGE OF _____

4500



- FILE
- COPIES TO _____
- ACTIONED

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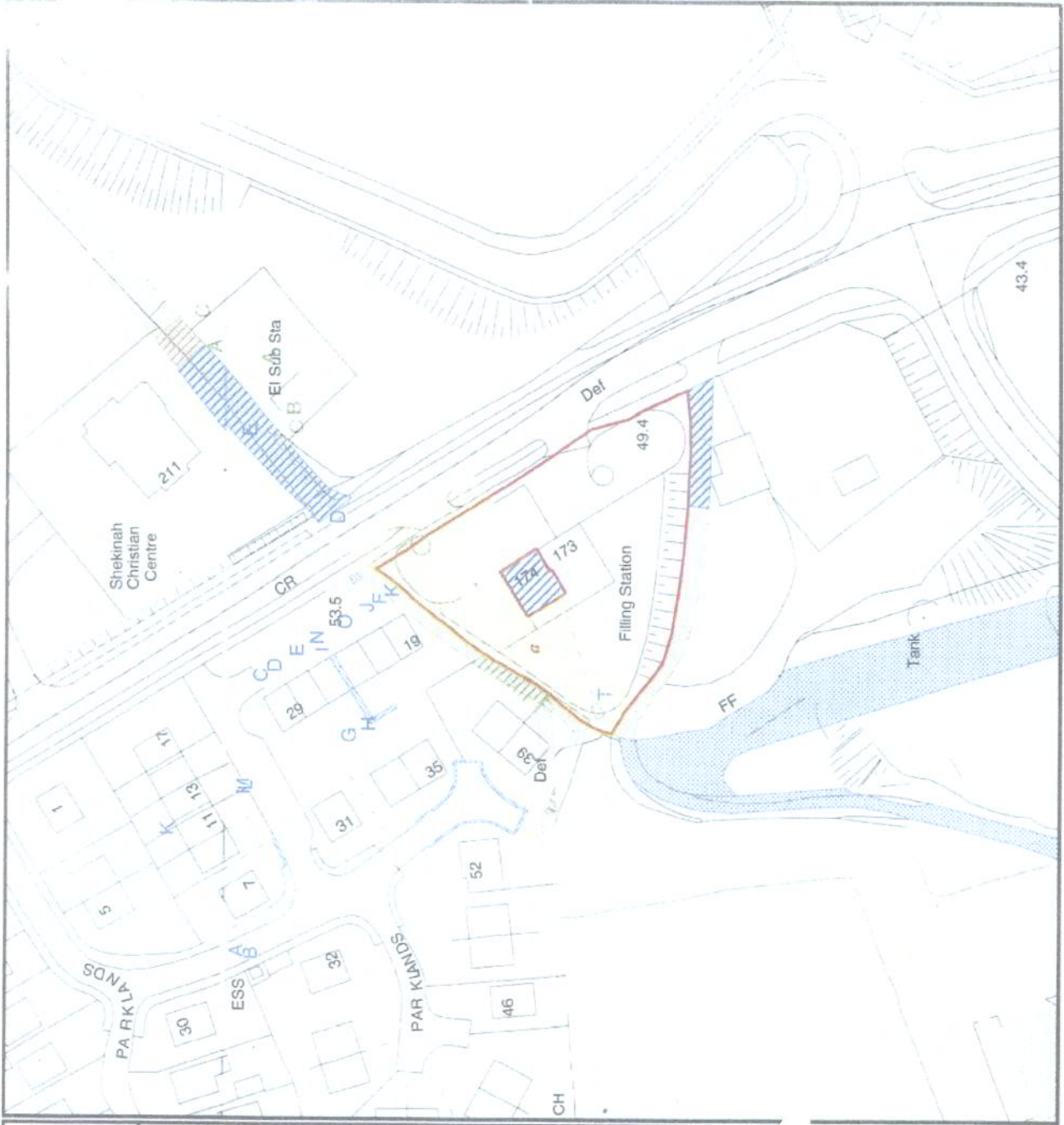
Appendix 3.0







Appendix 4.0



Land Registers



Date: 15 Dec 2004
 County: AN17374
 Folio: 1:1250
 Scale: 2004/453087
 Our Ref: No Reference
 Your Ref: 07004SW4.07008NW2
 Map Ref(s):
 Sheet 1 of 1

Key to folio labels:
 a - AN17374

This map is for locational purposes only (Rule 14(1) of the Land Registration Rules, 2004, as amended by paragraph 10 of the Schedule to the Amendment Rules (Northern Ireland) 2005). Folio boundaries are not guaranteed. (Section 64 of the Land Registration Act (Northern Ireland) 1970). The co-occurrence of Land Registry markings and OSMI features may have been affected by revisions of the OSNI map subsequent to registration. This map has been prepared using the largest scale Land Registry map available. The OSMI map should be used for the purposes of registration.

N.B. Folio boundaries are not conclusive (unless so described on the folio). See Section 64 of the Land Registration Act (NI) 1970. Where there is any doubt concerning boundaries, the original Instrument or Document should be inspected. It is hereby certified that this is a true copy of the Land Registry map showing the location of the lands comprised in folio listed above in the event of any alteration being made to the above map, whether by way of addition or otherwise, the Certificate shall cease to be valid.

Certified by: Denis Heade
 On Behalf of the Registrar of Titles

Northern Ireland
 Land Registry

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 only be produced with the permission of the
 Ordnance Survey of Northern Ireland

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Appendix 5.00 & 5.01

No. 10

a

Tel: (-----)
Fax: (-----)
www.-----.com



FAO: .

Your ref:

Our ref:

Date: 17/5/7

Dear Madam

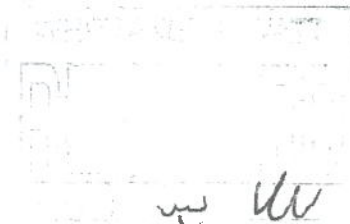
RE -

Further to your email dated 17/5/7 regarding the above scheme, I wish to confirm that I have enclosed a copy of our record drawing for the above scheme. We would advise you that you confirm the levels and position of the pipes before work begins.

Please contact the undersigned if you have any queries regarding any of the above.

Yours faithfully

Infrastructure Management
ENC.



AL.
0702

Service Inquiry Information A4P (CROWN COPYRIGHT RESERVED 2007)

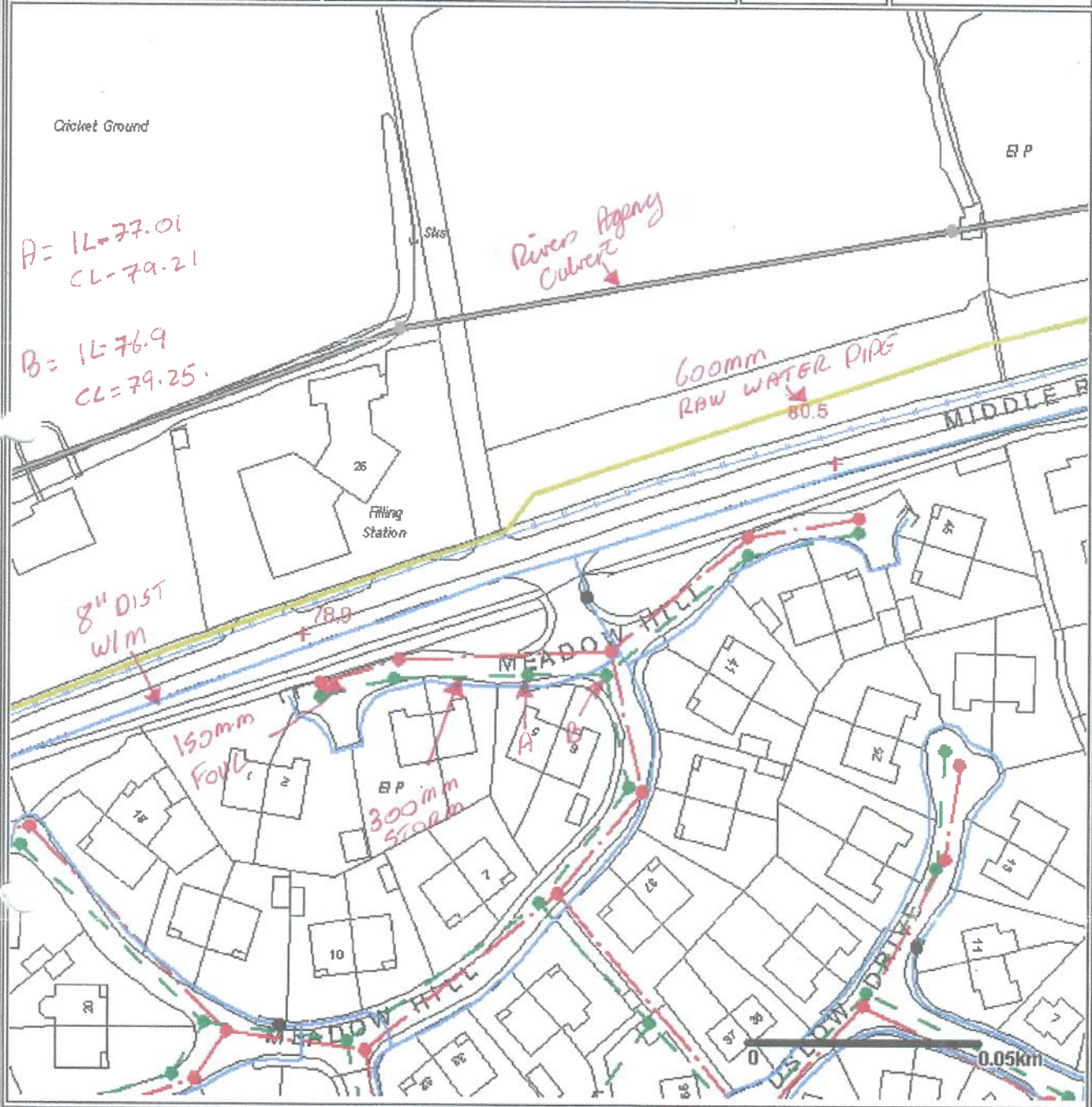
Title:

Center: 339984,389469

MapSheet:09812NW (NIC SE)

Scale 1: 1250

Date:05-17-2007



Foul Sewer with Manhole	---●---	Combined Sewer with Manhole	—●—	Watermain with Hydrant	—●—
Storm Sewer with Manhole	- - -●- - -	Unadopted Sewer with Manhole	—●—	Trunk Watermain with Valve	—+—

Northern Ireland Water (NIW) Disclaimer:
 The position of NIW infrastructure shown on this map should be regarded as approximate and should not be relied upon. NIW does not accept any liability for loss or damage to any person or property caused as a result of any inaccuracy in the information. It is your responsibility to determine the exact location of NIW infrastructure, prior to any excavation work being undertaken and it is recommended that hand dug trial holes are used to determine the precise location.

Appendix 6.00

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Appendix 7.00

OWENBEG Bowling Club

taken for

Date: 14/05/07

Levels

PATTERN B

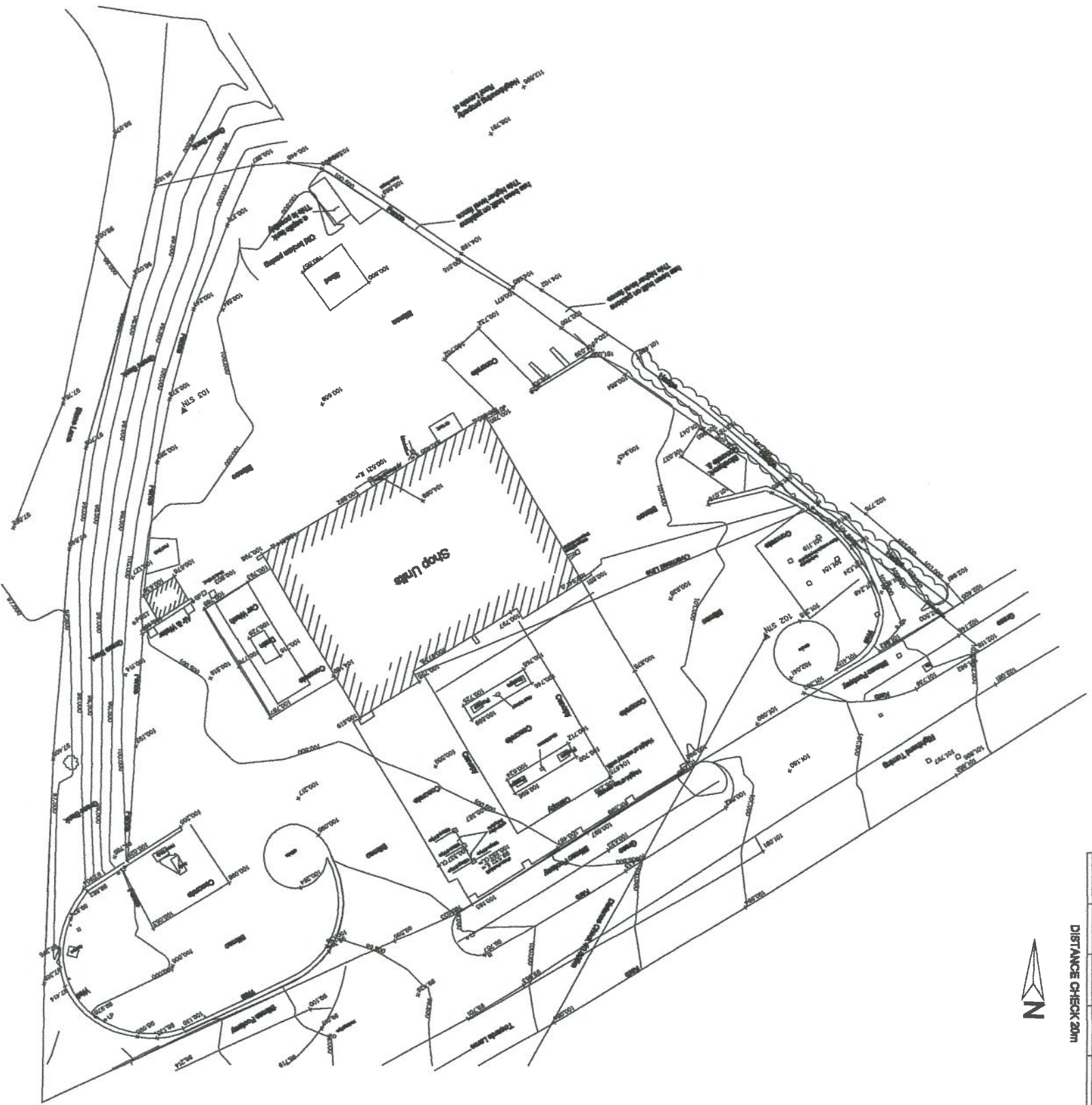
To

From

BACK SIGHT	INTER-MEDIATE	FORE SIGHT	COLLIMATION OR H.P.C.	REDUCED LEVEL	DISTANCE	REMARKS
1.200			101.200	100.000	TBM	FFL AT ENTRANCE FACING BOWLING GREEN
	1.440			99.760	1	CONCRETE FLAG PAVA OPPOSITE TBM
	1.660			99.540	2	GRAVEL EDGE TO BOWLING GREEN
	1.355			99.845	3	CONCRETE BASE IN FRONT OF SKED
1.580		1.350	101.450	99.870	4	REAR CORNER OF SHED (CHANGING POINT)
	1.400			100.050	5	FFL AT ROLLER SKULLEY
	1.680			99.770	6	6m MEASUREMENT AT SKED
	1.600			99.850	7	IN LINE WITH LEVEL 6 BUT 2m OFF WALL
1.500		1.530	101.420	99.920	8	IN FRONT OF LEVEL 5 ON CONC. BASE
	1.430			99.990	9	COVER LEVEL OF MHT IN SKED
	3.110			98.310	10	INVERT OF MHT IN SHED
		1.370		100.050	11	CHECK BACK AT FFL @ ROLLER SKULLEY
		1.500		99.920	12	CHECK IN FRONT OF LEVEL 11

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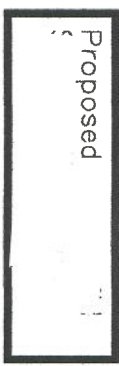
Appendix 8.00



DISTANCE CHECK 20m

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Proposed

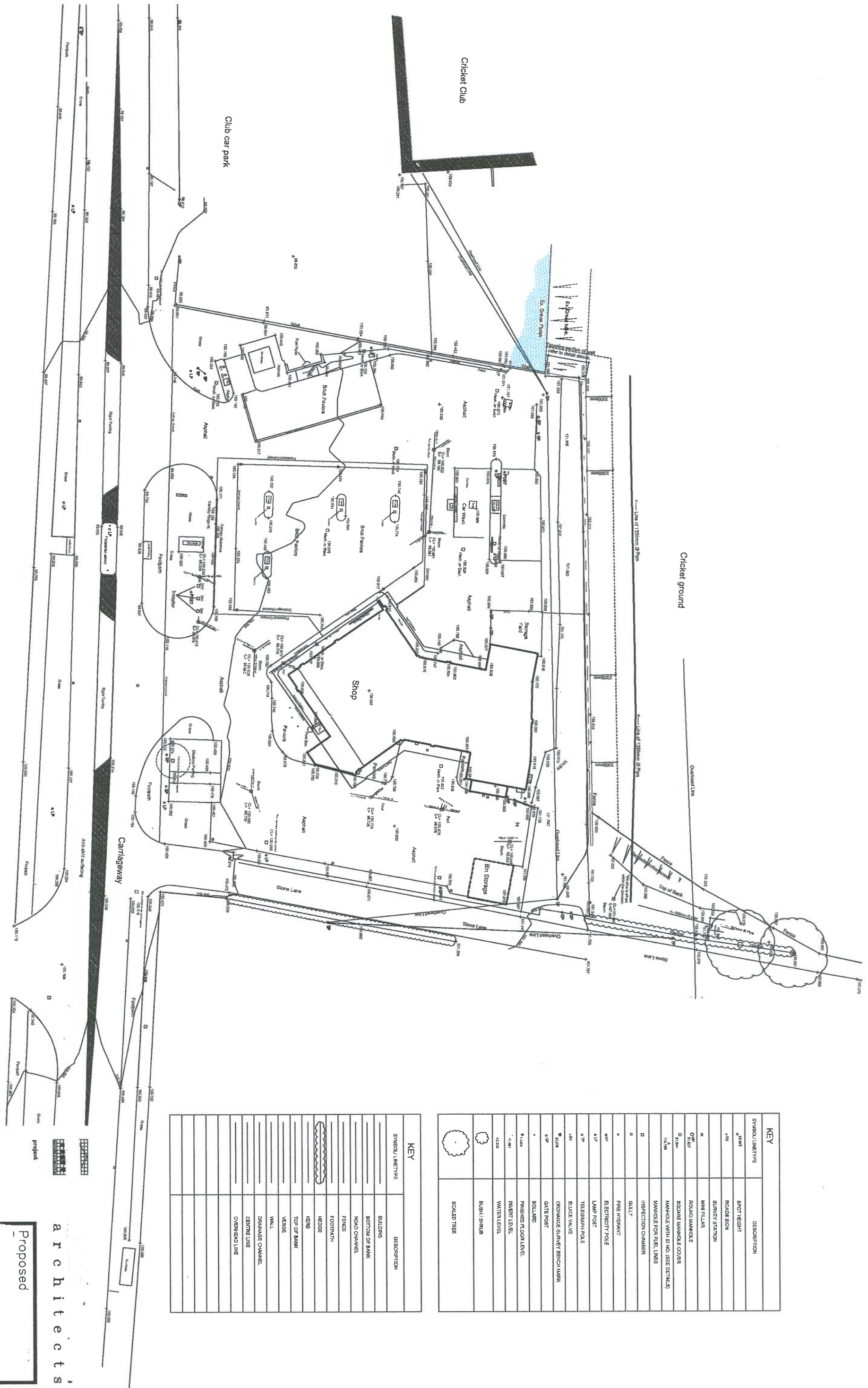


Existing Site Plan

Scale 1:200
Date 07-07 AL
Drawn WW
Checked

0703-01

0703-01



SYMBOL/LINE TYPE	DESCRIPTION
▲ 4.4M	SPOT HEIGHT
▲ 1.8	ROAD SIGN
□	SURVEY STATION
□	MAIN PILLAR
□ 6.1M	ROUND MANHOLE
□ 6.1M	SQUARE MANHOLE COVER
□ 11.6M	MANHOLE WITH ID NO. (SEE DETAILS)
□	MANHOLE FOR FUEL LINES
□	INSPECTION CHAMBER
□	GULLY
•	FIRE HYDRANT
⊕	ELECTRICITY POLE
⊕	LAMP POST
⊕	TELEGRAPH POLE
⊕	SLIDE VALVE
⊕	ORDNANCE SURVEY BENCH MARK
⊕	GATE POST
•	BOLLARD
⊕	PAVED FLOOR LEVEL
⊕	INVERT LEVEL
⊕	WATER LEVEL
⊕	BUSH / SHRUB
⊕	SCALED TREE

SYMBOL/LINE TYPE	DESCRIPTION
▭	BUILDING
▭	BOTTOM OF BANK
▭	ROAD CHANNEL
▭	FENCE
▭	ECOPATH
▭	HEDGE
▭	KENB
▭	TOP OF BANK
▭	VENGE
▭	WALL
▭	DRAINAGE CHANNEL
▭	CENTRE LINE
▭	OVERHEAD LINE

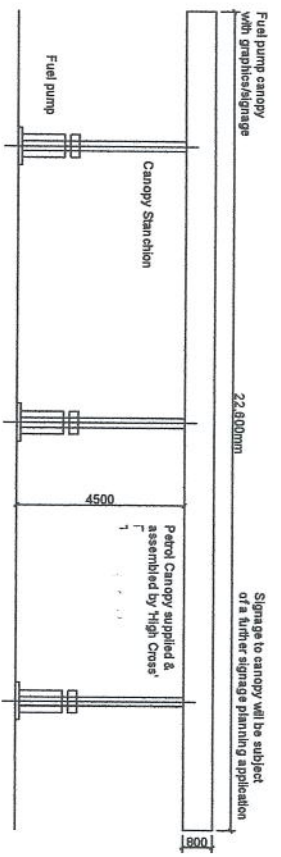
architects
 Proposed

Existing Site Plan
 Scale: 1:200
 Date: 06-07 AL
 Drawn: WW
 Checked: WW
 Client: N.T.S.
 Dwg. no.: 0702-01
 CAADN

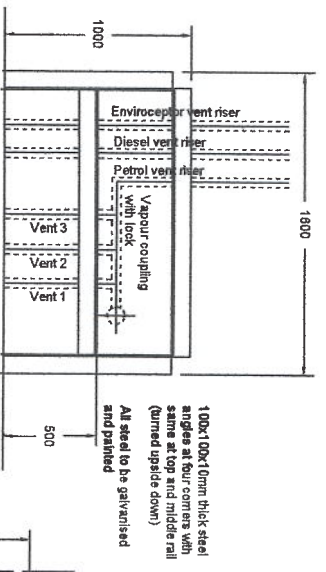
Appendix 9.00



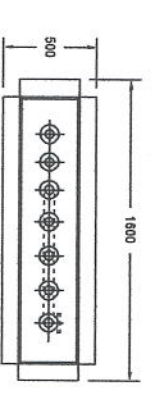
Proposed Road Elevation 1:100



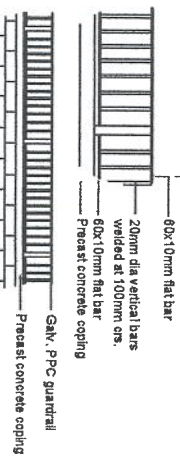
Proposed Side Elevation 1:100



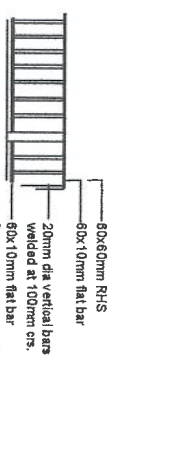
Elevation of steel protection for low level fuel tank manifold 1:20



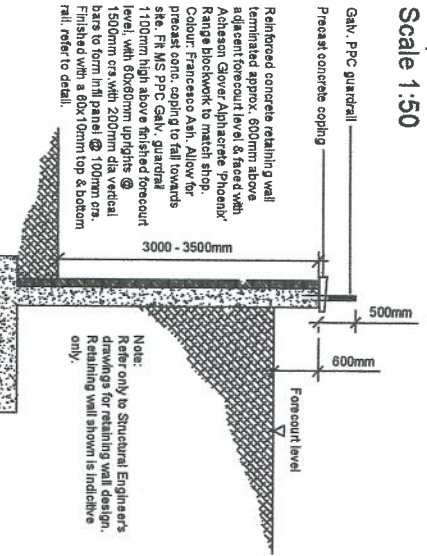
Plan of steel protection for low level fuel tank manifold 1:20



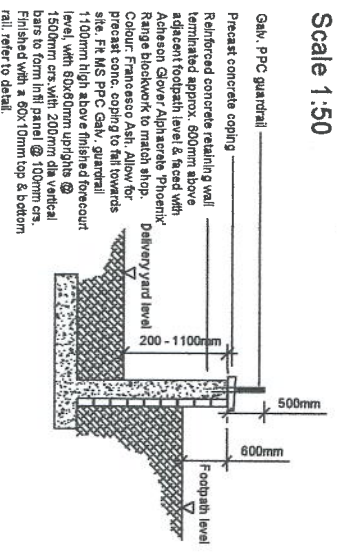
Proposed Guardrail Detail Scale 1:50



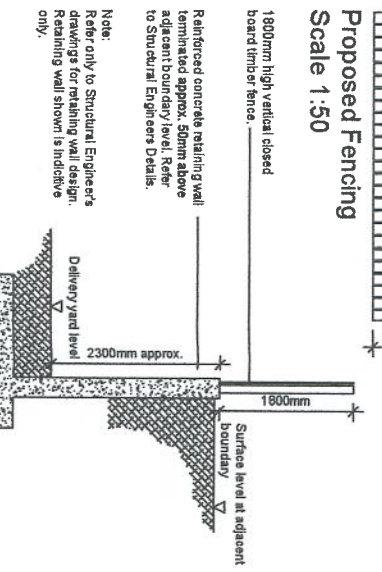
Proposed Guardrail Detail Scale 1:50



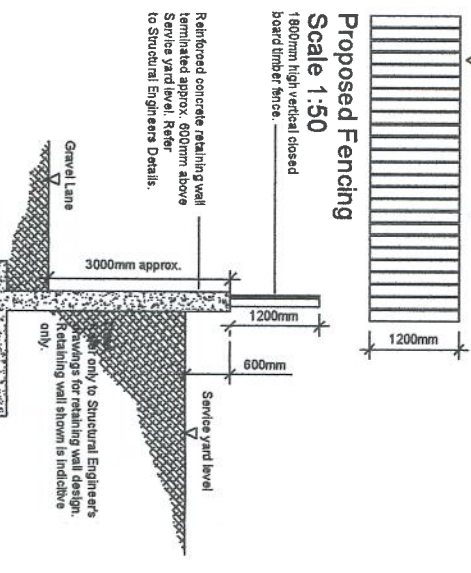
Proposed Retaining Wall Section A-A Scale 1:50



Proposed Retaining Wall Section B-B Scale 1:50

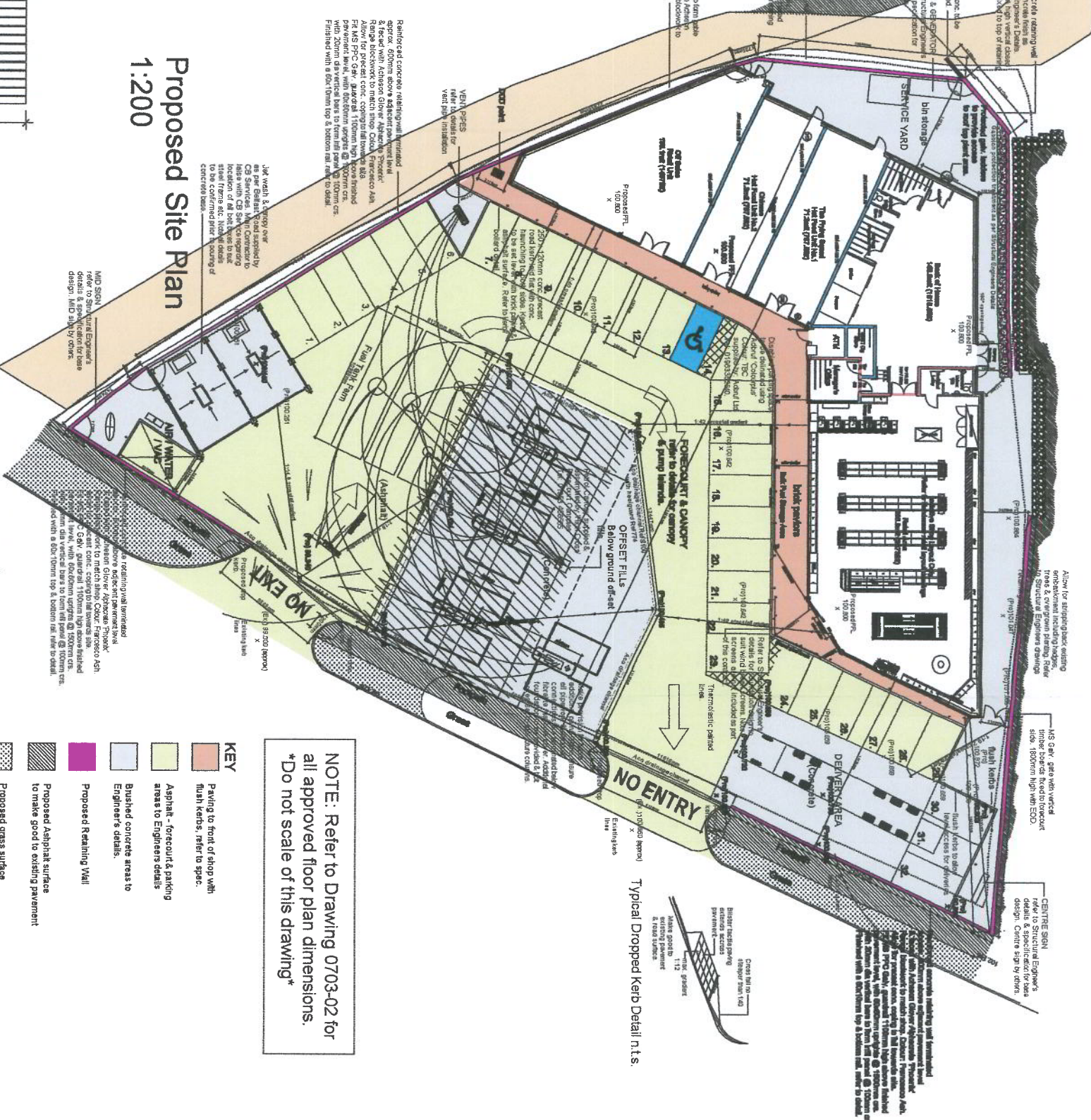


Proposed Retaining Wall Section C-C Scale 1:50



Proposed Retaining Wall Section D-D Scale 1:50

Proposed Site Plan 1:200

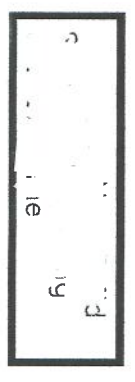


NOTE: Refer to Drawing 0703-02 for all approved floor plan dimensions. *Do not scale of this drawing*

- KEY
- Paving to front of shop with flush kerbs, refer to spec.
- Asphalt - forecourt & parking areas to Engineers details
- Bushes concrete areas to Engineers details
- Proposed Retaining Wall
- Proposed Asphalt surface to make good to existing pavement
- Proposed grass surface

Revision A: Line of retaining wall changed to reflect line of Ownership Nov 2007 AL

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N.T.S. Boundary Layout

0703-06a