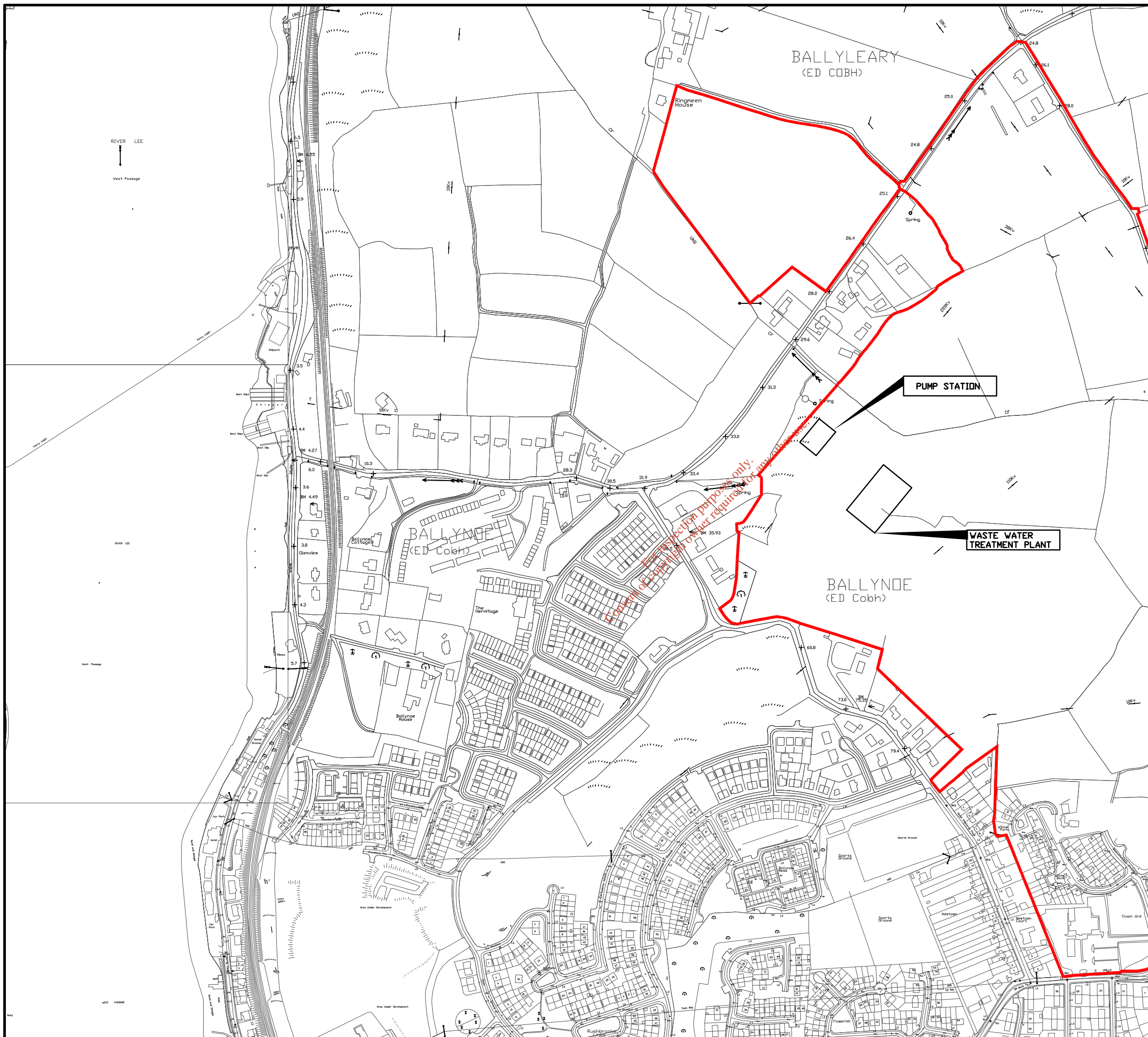


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G.3	Storm Water Overflow	n/a	n/a	n/a	n/a



NOTES:

Figured dimensions only to be taken from this drawing.
All dimensions to be checked on site.

LEGEND:

AGGLOMERATION BOUNDARY ———

Rev.	Description	Drawn	Chkd	Date
-	-	-	-	-

Client: CORK COUNTY COUNCIL

Client Representative:
BARRY & PARTNERS
consulting engineers
 J. B. Barry & Partners Limited
 3A East Gate Road, Eastgate
 Little Island, Co. Cork,
 Ireland.
 Phone: +353-21-4524418
 Fax: +353-21-4524419
 E-mail: cork@jbarry.ie

Project: NORTH COBH WWTP WASTE WATER DISCHARGE LICENCE APPLICATION

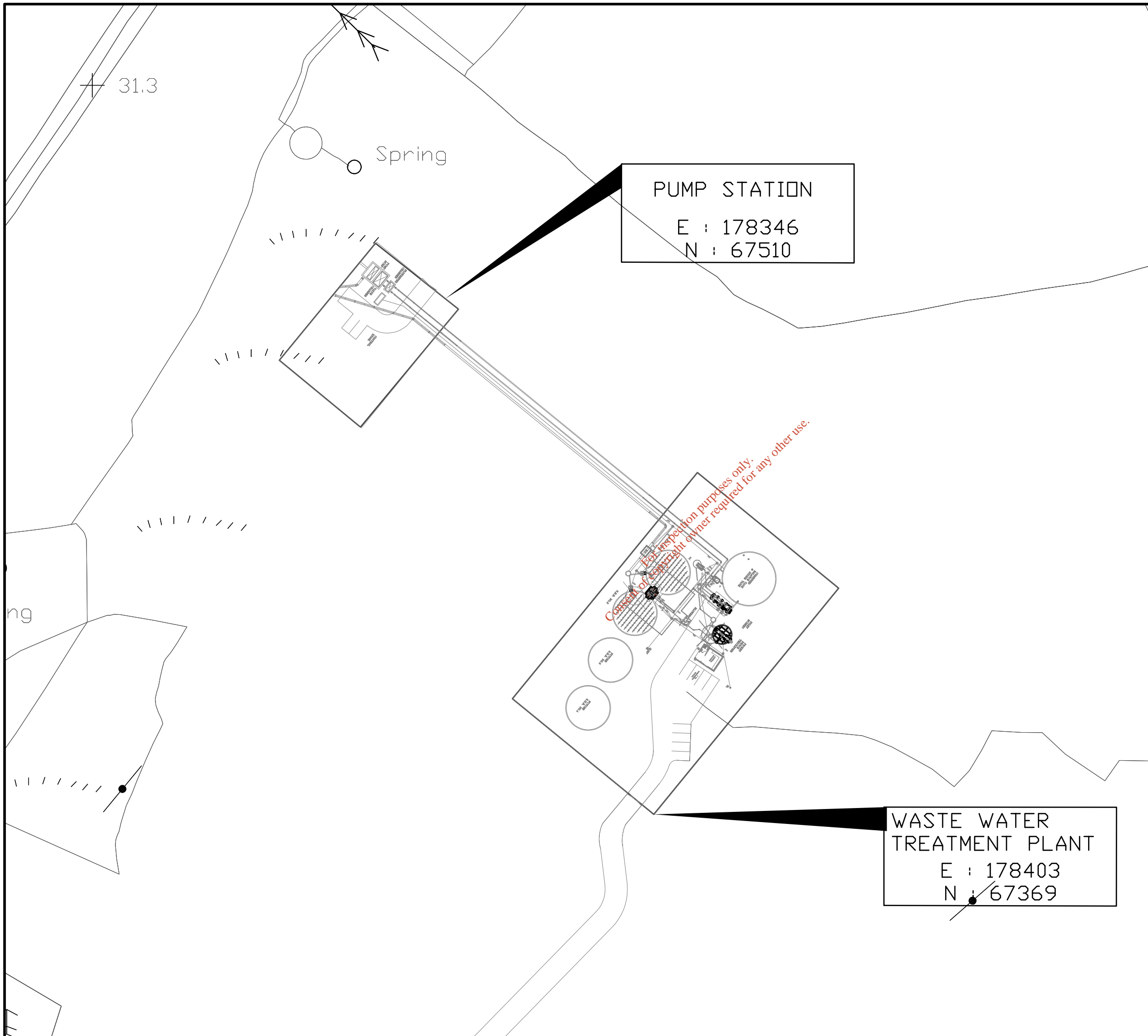
Drawing Title: APPLICATION FORM ATTACHMENT A.1 Map 1 Site Location Map

Drawn by: P.D. Date: 01.09.08
 Checked by: B.A. Date: 01.09.08
 Approved by: R.K. Date: 01.09.08

Scales: 1:5000 @ A3

Stage: PRELIMINARY

Map No.: A1-Map 1 Revision: -



NOTES:

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Rev.	Description	Drawn	Chkd	Date
-	-	-	-	-

Client:
CORK COUNTY COUNCIL

Client Representative:

BARRY & PARTNERS
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 E-mail: cork@jbarry.ie

Project:
NORTH COBH WWTP WASTE WATER DISCHARGE LICENCE APPLICATION

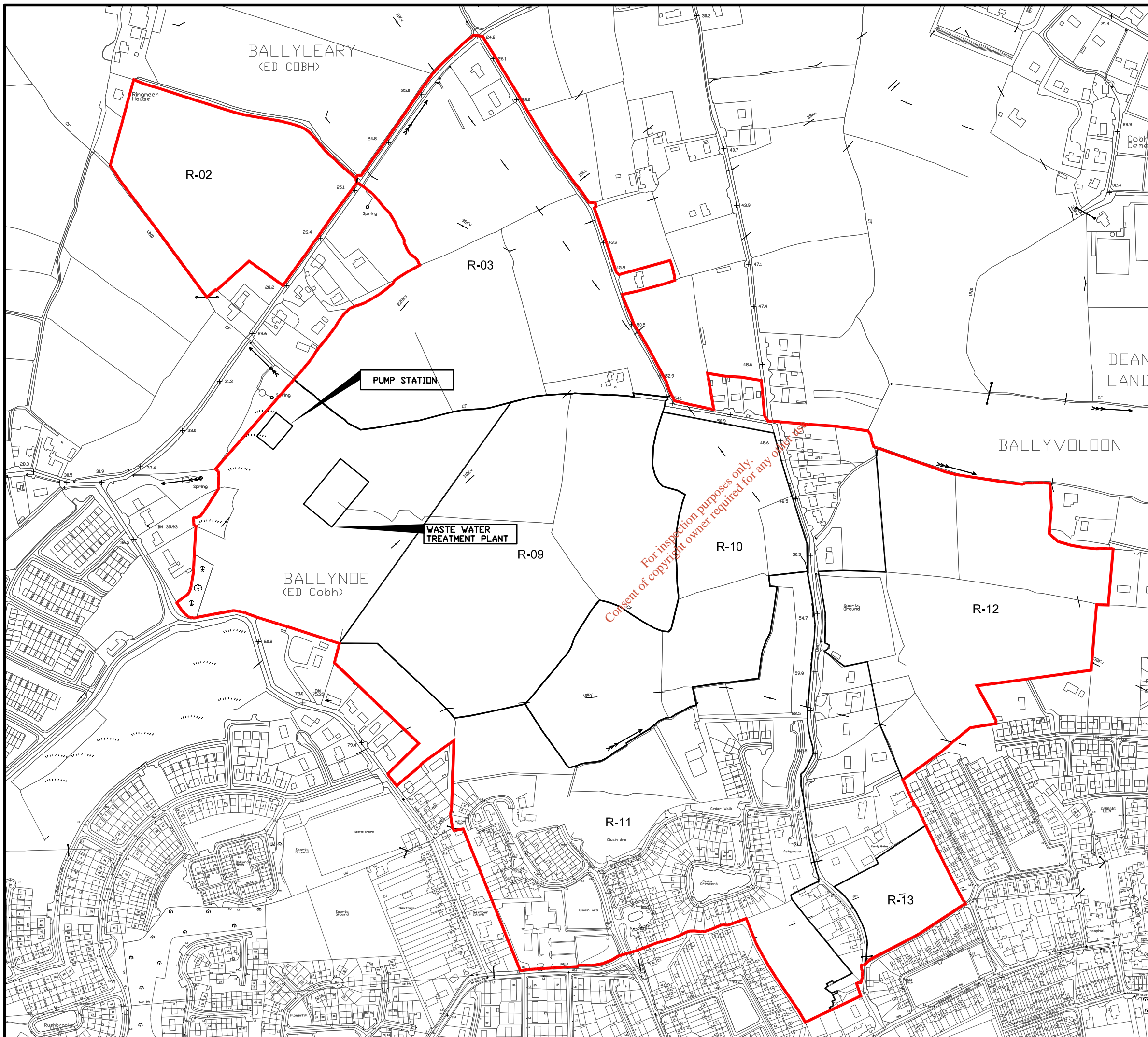
Drawing Title:
APPLICATION FORM ATTACHMENT A.1 - 01 Site Plan

Drawn by: P.D. Date: 27.08.08
 Checked by: B.A. Date: 27.08.08
 Approved by: R.K. Date: 27.08.08

Scales: 1:1000 @ A3

Stage: PRELIMINARY

Drawing No.: A1-01 Revision: -



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LEGEND:

AGGLOMERATION BOUNDARY ———

Rev.	Description	Drawn	Chkd	Date
-	-	-	-	-

Client: CORK COUNTY COUNCIL

Client Representative:

BARRY & PARTNERS
 consulting engineers
 J. B. Barry & Partners Limited
 3A East Gate Road, Eastgate
 Little Island, Co. Cork,
 Ireland.
 Phone: +353-21-4524418
 Fax: +353-21-4524419
 E-mail: cork@jbbarry.ie

Project: NORTH COBH WWTP WASTE WATER DISCHARGE LICENCE APPLICATION

Drawing Title: APPLICATION FORM
 ATTACHMENT B.1 - Map 2
 Agglomeration Boundary Served by Waste Water Treatment Works

Drawn by: P.D. Date: 27.08.08

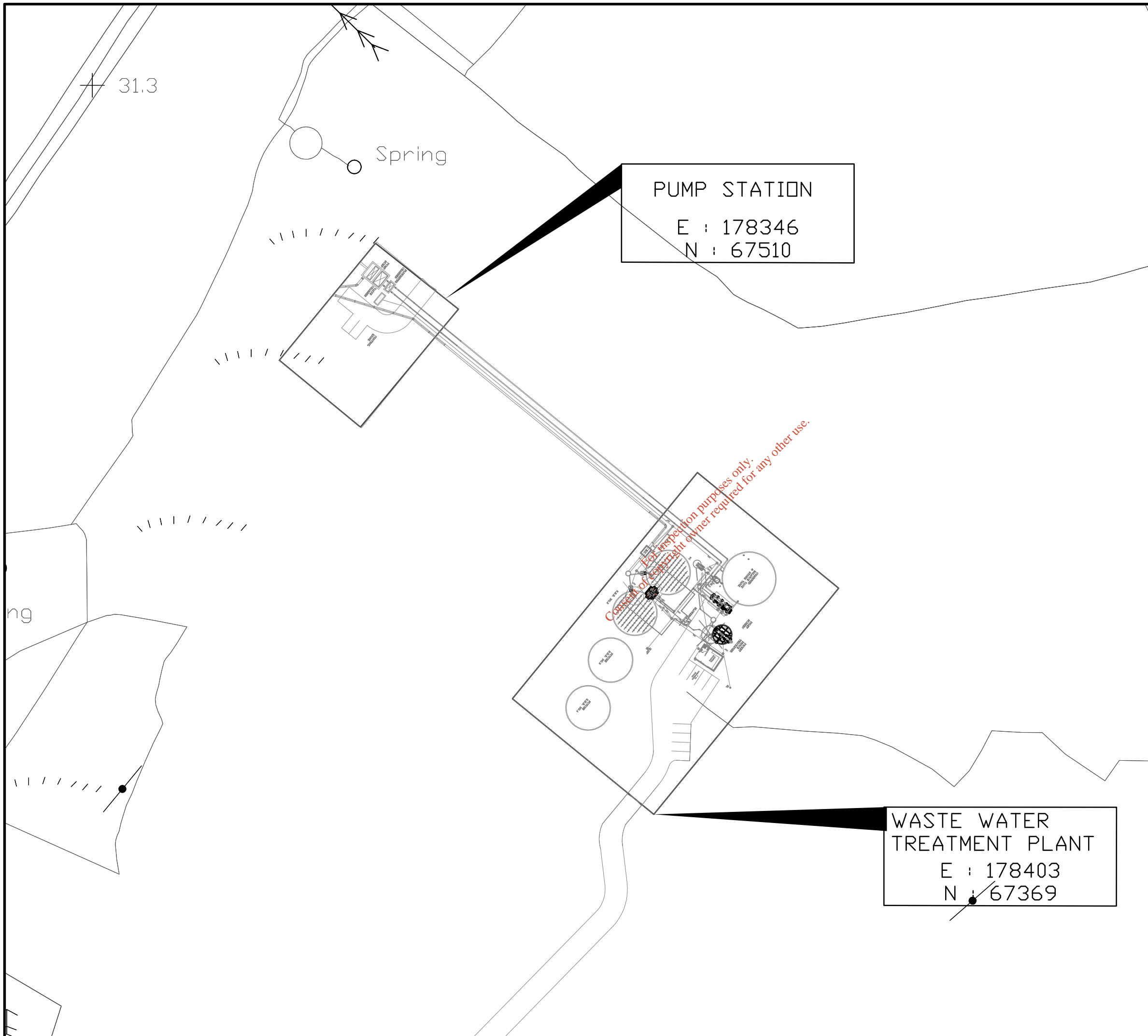
Checked by: B.A. Date: 27.08.08

Approved by: R.K. Date: 27.08.08

Scales: 1:5000 @ A3

Stage: PRELIMINARY

Map No.: B1-Map 2
 Revision: -



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Client:
CORK COUNTY COUNCIL

Client Representative:

BARRY & PARTNERS
consulting engineers
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 3A East Gate Road, Eastgate
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 Phone: +353-21-4524418
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 E-mail: cork@jbarry.ie

Project:
NORTH COBH WWTP WASTE WATER DISCHARGE LICENCE APPLICATION

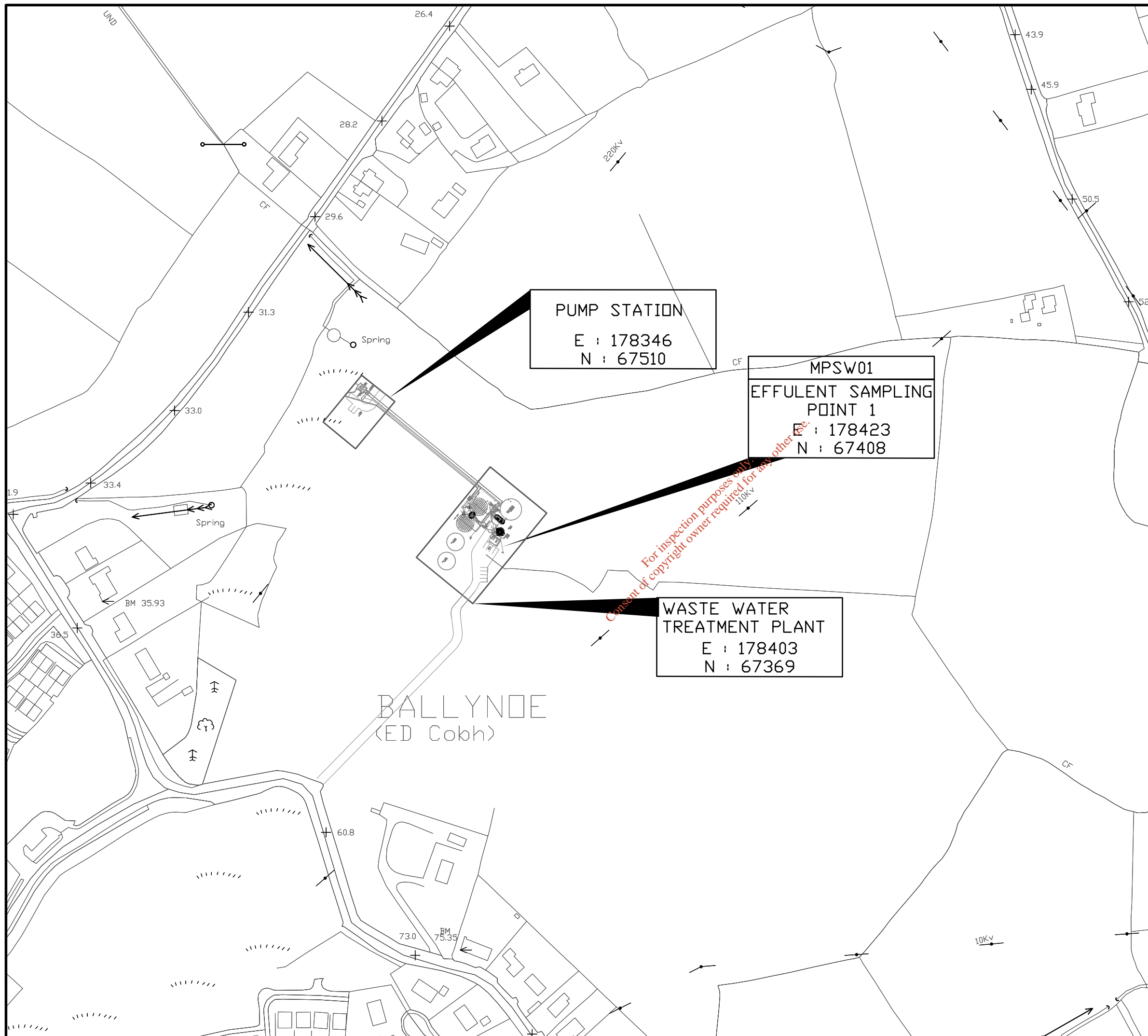
Drawing Title:
APPLICATION FORM ATTACHMENT B.2 - 02 Site Plan of WWTP

Drawn by: P.D. Date: 27.08.08
 Checked by: B.A. Date: 27.08.08
 Approved by: R.K. Date: 27.08.08

Scales: 1:1000 @ A3

Stage: PRELIMINARY

Map No.: B2-02 Revision: -



NOTES:

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Rev.	Description	Drawn	Chkd	Date
-	-	-	-	-

Client: CORK COUNTY COUNCIL

Client Representative:
BARRY & PARTNERS
 consulting engineers
 J. B. Barry & Partners Limited
 3A East Gate Road, Eastgate
 Little Island, Co. Cork,
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 Phone: +353-21-4524418
 Fax: +353-21-4524419
 E-mail: cork@jbarry.ie

Project: NORTH COBH WWTP WASTE WATER DISCHARGE LICENCE APPLICATION

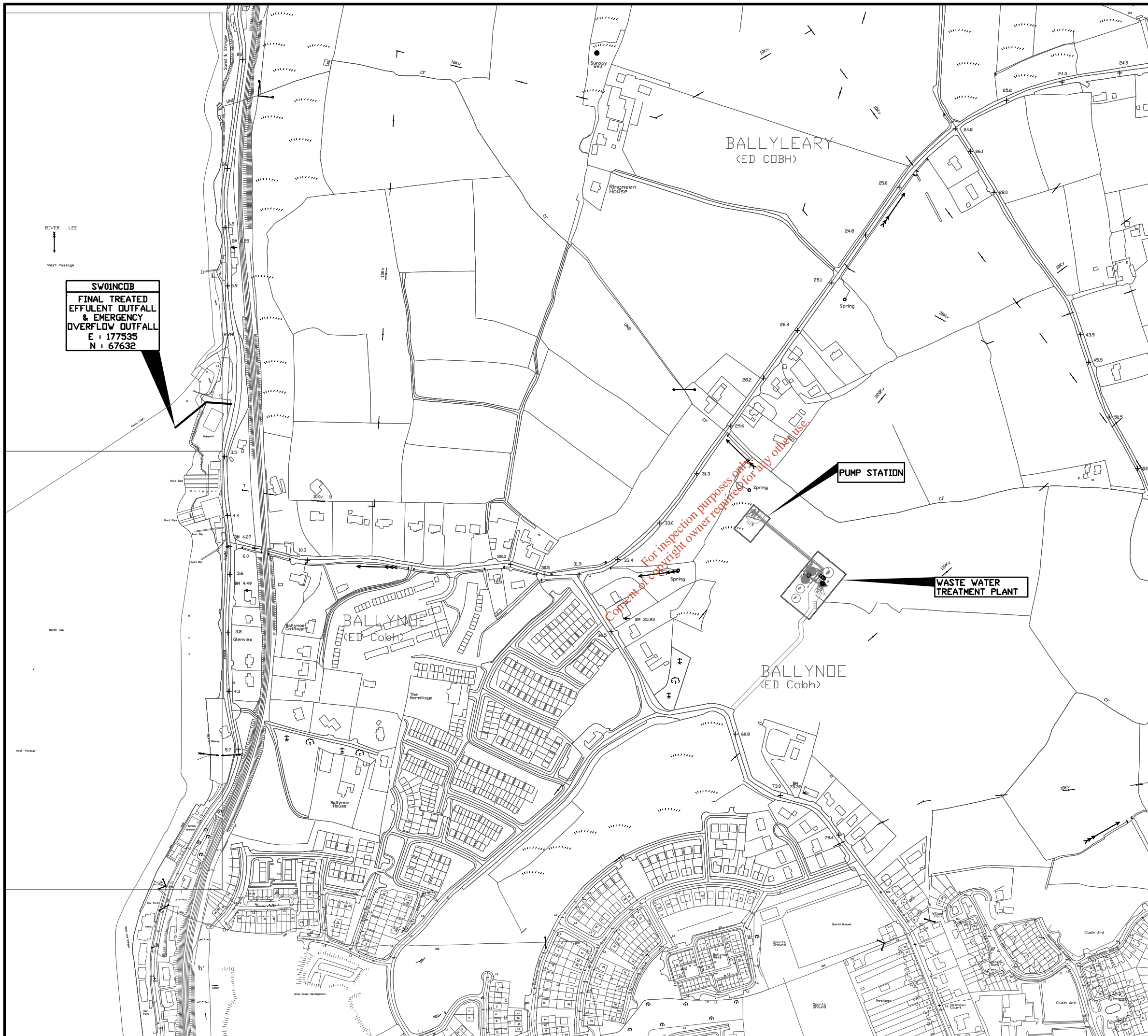
Drawing Title: APPLICATION FORM ATTACHMENT B.2 - Map3 Location of Waste Water Treatment Works

Drawn by: P.D. Date: 27.08.08
 Checked by: B.A. Date: 27.08.08
 Approved by: R.K. Date: 27.08.08

Scales: 1:2500 @ A3

Stage: PRELIMINARY

Map No.: B2-Map3 Revision: -



NOTES:

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All dimensions to be checked on site.

Rev.	Description	Drawn	Chkd	Date
-	-	-	-	-

Client: CORK COUNTY COUNCIL

Client Representative:
BARRY & PARTNERS
 consulting engineers
 J. B. Barry & Partners Limited
 3A East Gate Road, Eastgate
 Little Island, Co. Cork,
 Ireland.
 Phone: +353-21-4524418
 Fax: +353-21-4524419
 E-mail: cork@jbarry.ie

Project: NORTH COBH WWTP WASTE WATER DISCHARGE LICENCE APPLICATION

Drawing Title: APPLICATION FORM ATTACHMENT B.3 - Map4 Location of Primary Discharge Point

Drawn by: P.D. Date: 27.08.08
 Checked by: B.A. Date: 27.08.08
 Approved by: R.K. Date: 27.08.08

Scales: 1:5000 @ A3

Stage: PRELIMINARY

Map No.: B3-Map4 Revision: -



CORK COUNTY COUNCIL

SITE NOTICE

APPLICATION TO THE ENVIRONMENTAL PROTECTION AGENCY FOR A WASTEWATER DISCHARGE LICENCE

In accordance with the Waste Water Discharge (Authorisation) Regulations 2007, Water Services Southern Division of Cork County Council, Carrigrohane Road, Cork is applying to the Environmental Protection Agency for a Waste Water Discharge Licence for the Agglomeration of North Cobh at the following locations:

Plant Name	Location	National Grid Ref.
North Cobh WWTP	Ballynoe, Cobh	E178403 N067420

Discharge	Function	Townland	Receptor	Grid Reference
Primary	Main	Carrigaloe, Cobh	River Lee Estuary, Cork Harbour, West Passage	E177535 N67632

It is intended to submit to the Environmental Protection Agency an Environmental Impact Statement associated with the proposed provision of a Waste Water Treatment Plant in the Lower Harbour to the Agency along with the Application.

A copy of the application for the Waste Water Discharge Licence and such further information relating to the application as may be furnished to the Agency in the course of the Agency's consideration of the Application shall as soon as is practicable after receipt by the Agency be available for inspection or purchase at the

- Environmental Protection Agency, PO Box 3000, Johnstown Castle Estate, Co. Wexford, Lo Call 1890 335599 Telephone: 053-9160600 Fax: 053-9160699 Email: info@epa.ie

and at

- Cork County Council Offices, Water Services South, County Hall, Carrigrohane Road, Co. Cork, Telephone: 021 - 4276891 Fax: 021 - 4276321.

Submissions in relation to the application may be made to the Environmental Protection Agency at its headquarters described above.

Newspaper Advertisement

Cork County Council Southern Division

**APPLICATION TO THE ENVIRONMENTAL
PROTECTION AGENCY FOR A WASTEWATER
DISCHARGE LICENCE**

In accordance with the Waste Water Discharge (Authorisation) Regulations 2007, Water Services Southern Division of Cork County Council, Carrigrohane Road, Cork is applying to the Environmental Protection Agency for a Waste Water Discharge Licence for the Agglomeration of North Cobh at the following locations:

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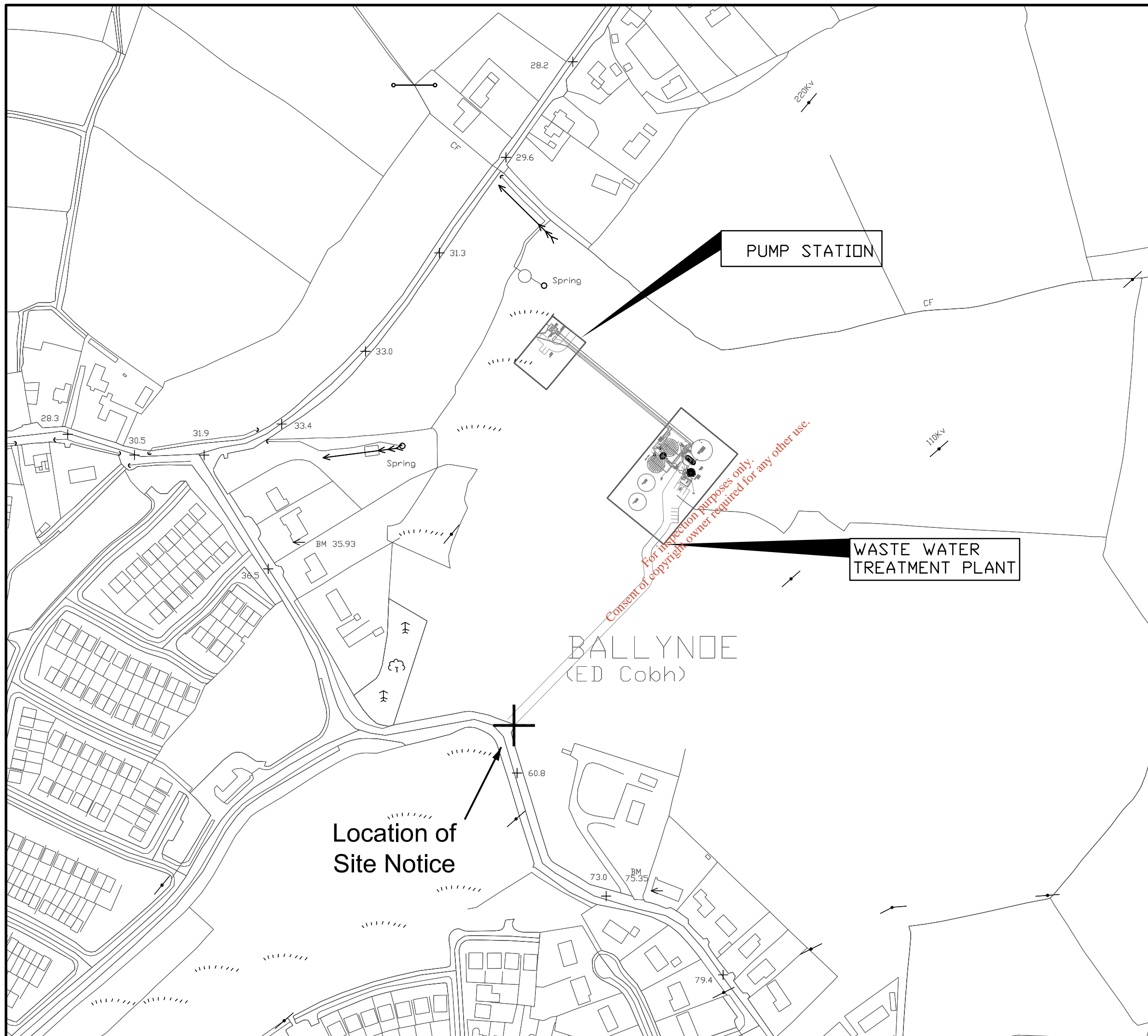
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- **Environmental Protection Agency, PO Box 3000, Johnstown Castle Estate, Co. Wexford, Lo Call 1890 335599 Telephone: 053-9160600 Fax: 053-9160699 Email:info@epa.ie**

and at

- **Cork County Council Offices, Water Services South, County Hall, Carrigrohane Road, Co. Cork, Telephone: 021 - 4276891 Fax: 021 - 4276321.**

Submissions in relation to the application may be made to the Environmental Protection Agency at its headquarters described above



NOTES:

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Rev.	Description	Drawn	Chkd	Date
-	-	-	-	-

Client: CORK COUNTY COUNCIL

Client Representative:

BARRY & PARTNERS
consulting engineers

J. B. Barry & Partners Limited
3A East Gate Road, Eastgate
Little Island, Co. Cork,
Ireland.
Phone: +353-21-4524418
Fax: +353-21-4524419
E-mail: cork@jbarry.ie

Project: NORTH COBH WWTP WASTE WATER DISCHARGE LICENCE APPLICATION

Drawing Title: APPLICATION FORM ATTACHMENT B.8 - Map5 Site Notice & Newspaper Advertisement

Drawn by: P.D. Date: 27.08.08
Checked by: B.A. Date: 27.08.08
Approved by: R.K. Date: 27.08.08

Scales: 1:2500 @ A3

Stage: PRELIMINARY

Map No.: B8-Map5 Revision: -

Cork County

Water Services Investment Programme 2007 - 2009

Schemes at Construction	W/S	Est. Cost	Schemes to start 2009 contd.	W/S	Est. Cost
Cork North			Cork South		
Mitchelstown Sewerage Scheme (Nutrient Removal)	S	221,000	Ballincollig Sewerage Scheme (Upgrade) (G)	S	22,248,000
Cork South			Cork Lower Harbour Sewerage Scheme (excl. Crosshaven SS)	S	73,542,000
Ballyvourney/ Ballymakeery Sewerage Scheme	S	3,049,000	Shannagarry/ Garryvoe/ Ballycotton Sewerage Scheme	S	3,780,000
Cobh/ Midleton/ Carrigtwohill Water Supply Scheme	W	10,135,000	Youghal Sewerage Scheme	S	14,420,000
Cork Lower Harbour Sewerage Scheme (Crosshaven SS) (G)	S	4,850,000	Cork West		
Cork Water Strategy Study (G)	W	941,000	Ballydehob Sewerage Scheme	S	683,000
Kinsale Sewerage Scheme	S	20,000,000	Bantry Water Supply Scheme	W	14,935,000
Midleton Sewerage Scheme (Infiltration Reduction) (G)	S	2,078,000	Clonakilty Sewerage Scheme (Plant Capacity Increase)	S	3,677,000
		41,274,000	Courtmacsherry/ Timoleague Sewerage Scheme	S	2,472,000
Schemes to start 2007			Dunmanway Regional Water Supply Scheme Stage 1	W	12,669,000
					164,629,000
Cork North			Serviced Land Initiative		
North Cork Grouped DBO Wastewater Treatment Plant (Buttevant, Doneraile & Kilbrin)	S	5,150,000	Cork North		
Cork West			Ballyclough Water Supply Scheme	W	139,000
Skibbereen Sewerage Scheme	S	20,000,000	Ballyhooley Improvement Scheme	W/S	139,000
		25,150,000	Broghill/Rathgoggin Sewerage Scheme	S	406,000
Schemes to start 2008			Bawean Water Supply Scheme	W	115,000
Cork North			Churchtown Sewerage Scheme (incl. Water)	W/S	543,000
Mallow/ Ballyvinter Regional Water Supply Scheme (H) W		8,662,000	Clondulane Sewage Treatment Plant	S	417,000
Mallow Sewerage Scheme (H)	S	3,406,000	Freemount Sewerage Scheme	S	150,000
Cork South			Pike Road Sewerage Scheme (incl. Water)	W/S	2,080,000
Ballincollig Sewerage Scheme (Nutrient Removal) (G)	S	948,000	Rathcormac Sewerage Scheme (incl. Water)	W/S	555,000
Ballingeary Sewerage Scheme		1,296,000	Spa Glen Sewerage Scheme	S	736,000
Bandon Sewerage Scheme Stage 2	S	14,729,000	Uplands Fermoy Sewerage Scheme (incl. Water)	W/S	1,174,000
City Environs (CASP) Strategic Study (G)	S	153,000	Watergrasshill Water Supply Scheme (incl. Sewerage) (G)	W/S	4,151,000
Cloghroe Sewerage Scheme (Upgrade)	S	683,000	Cork South		
Coachford Water Supply Scheme	W	1,318,000	Ballincollig Sewerage Scheme (Barry's Rd Foul and Storm Drainage) (G)	S	1,164,000
Garrettsown Sewerage Scheme	S	2,153,000	Belgooley, Water Supply Scheme (incl. Sewerage)	W/S	2,913,000
Inniscarra Water Treatment Plant Extension Phase 1	W	2,678,000	Blamey Water Supply Scheme (Ext. to Station Rd) (G)	W	416,000
Little Island Sewerage Scheme (G)	S	2,200,000	Carrigtwohill Sewerage Scheme (Treatment and Storm Drain) (G)	S	7,632,000
Cork West			Castlematyr Wastewater Treatment Plant Extension	S	1,200,000
Bantry Sewerage Scheme	S	7,148,000	Crookstown Sewerage Scheme (incl. Water)	W/S	1,200,000
Dunmanway Sewerage Scheme	S	2,153,000	Dripsey Water Supply Scheme (incl. Sewerage)	W/S	1,112,000
Leap/ Baltimore Water Supply Scheme	W	6,365,000	Glounthane Sewerage Scheme (G)	S	1,576,000
Schull Water Supply Scheme	W	5,253,000	Innishannon Sewerage Scheme	S	277,000
		61,137,000	Innishannon Wastewater Treatment Plant	S	694,000
Schemes to start 2009			Kerrypike Sewerage Scheme	S	832,000
Cork North			Kerrypike Water Supply Scheme	W	416,000
Banteer/Dromahane Regional Water Supply Scheme	W	1,576,000	Killeagh Wastewater Treatment Plant Extension	S	1,200,000
Conna Regional Water Supply Scheme Extension	W	2,627,000	Killeagh Water Supply Scheme (includes Sewerage)	W/S	485,000
Cork NE Water Supply Scheme	W	4,326,000	Killeens Sewerage Scheme	S	420,000
Cork NW Regional Water Supply Scheme	W	6,046,000	Kilnagleary Sewerage Scheme	S	694,000
Millstreet Wastewater Treatment Plant (Upgrade)	S	1,628,000	Midleton Wastewater Treatment Plant Extension	S	4,050,000

SUBJECT TO LICENCE/LICENCE DENIED

Our Ref: MS51/8/1261(a)
(Please quote on all correspondence)

Mr Noel O'Keeffe
Senior Executive Officer
Cork County Council
Floor 4
County Hall
Cork

Re: Foreshore Licence Application for the construction, use and maintenance of an outfall pipe and diffuser to serve foul sewers, which are to be constructed as part of the North Cobh Serviced Land Initiative – Applicant Cork County Council – Ref: MS51/8/1261 (A)

Dear Mr O'Keeffe,

The Minister of State at the Department of Communications, Marine and Natural Resources has approved the granting of a Foreshore Licence for the above mentioned works on the areas identified in the maps supplied.

The Chief State Solicitor's Office has been requested to prepare the appropriate Foreshore Licence in accordance with the details on those maps.

Yours sincerely,

Clare O'Gorman
Coastal Zone Management Division

20th April, 2007

Our Ref: MS51/8/1261(a)
(Please quote on all correspondence)

Ms Caroline M. Lindsay
Office of the Chief State Solicitor
Osmond House
Little Ship Street
Dublin 8

Re: Foreshore Licence Application for the construction, use and maintenance of an outfall pipe and diffuser to serve foul sewers, which are to be constructed as part of the North Cobh Serviced Land Initiative – Applicant Cork County Council – Ref: MS51/8/1261 (A)

Dear Ms Lindsay,

With reference to the above application, I have requested the Conveyancing Section to prepare the appropriate Foreshore Licence in accordance with the details I supplied to them.

I would appreciate if you could expedite the issuing of the draft Foreshore Licence **as a matter of urgency, and** I attach copy of correspondence from Cork County Council outlining the urgent nature of this case.

Perhaps Sinead Finnegan would clarify if and when the Deed of Conveyance re the Carrigaloe Reclaimed Foreshore is executed by the Minister for Finance, when ownership transfers to Cork County Council i.e. does it transfer on completion of the sale or on Cork County Council registering its ownership. This issue will affect the area to be covered by the above Licence in that Ministerial permission under Section 10 of the Foreshore Act, as amended would be required in relation to privately owned Foreshore and the Licence could only extend to State owned Foreshore. I have alerted Sinead by phone to the possible scenarios here.

If you require any clarification in relation to this complex matter, please do not hesitate to contact me @ 01-6783312.

Yours sincerely,

Clare O’Gorman
Coastal Zone Management Division

20th April, 2007

Encl. (13)

Our Ref: MS51/8/1261(a)
(Please quote on all correspondence)

Conveyancing Section
Office of the Chief State Solicitor
Osmond House
Little Ship Street
Dublin 8

Re: Foreshore Licence Application for the construction, use and maintenance of an outfall pipe and diffuser to serve foul sewers, which are to be constructed as part of the North Cobh Serviced Land Initiative – Applicant Cork County Council – Ref: MS51/8/1261 (A)

The Minister for Communications, Marine and Natural Resources has now approved granting of a Foreshore Licence to facilitate the above mentioned works.

I would appreciate if your Office could prepare the appropriate Licence in accordance with the attached details.

Please consult with Sinead Finnegan Solicitor in relation to the sale of the Reclaimed Foreshore at Carrigaloe, Cobh, Co. Cork – CSSO Ref: 3183/1998 (Our Ref. MS51/8/528 Vol 2) as part of the lands the subject of the above application are also involved in that case.

Perhaps Sinead Finnegan would clarify if and when the Deed of Conveyance re the Carrigaloe Reclaimed Foreshore is executed by the Minister for Finance, when ownership transfers to Cork County Council i.e. does it transfer on completion of the sale or on Cork County Council registering its ownership. This issue will affect the area to be covered by the above Licence in that Ministerial permission under Section 10 of the Foreshore Act, as amended would be required in relation to privately owned Foreshore and the Licence could only extend to State owned Foreshore.

If you require any clarification in relation to this complex matter, please do not hesitate to contact me @ 01-6783312.

Yours sincerely,

Clare O’Gorman
Coastal Zone Management Division

20th April, 2007

Encl. (12)

25th January 2007

Our Ref: MS51/8/1261(a)
(Please quote on all correspondence)

The Secretary of MLVC

**RE: FORESHORE LICENCE APPLICATION FOR AN OUTFALL PIPE AND DIFFUSER TO
SERVE FOUL SEWERS AS PART OF THE NORTH COBH SEWERS SERVICED LAND
INITIATIVE – Cork County Council**

The above-mentioned is on the agenda for the next MLVC meeting. (File Ref MS51/8/1261(a))

Captain Nick Cantwell has forwarded his comments, copies of same enclosed.

Please circulate to the other MLVC members.

Deirdre Fitzpatrick
Coastal Zone Management Division

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15th January 2007

Our Ref: MS51/8/1261(a)
(Please quote on all correspondence)

The Secretary of MLVC

**RE: FORESHORE LICENCE APPLICATION FOR AN OUTFALL PIPE AND DIFFUSER TO
SERVE FOUL SEWERS AS PART OF THE NORTH COBH SEWERS SERVICED LAND
INITIATIVE – Cork County Council**

This Department has received an application from Cork County Council for a Foreshore Licence/Lease, under the Foreshore Acts, to facilitate the above-mentioned construction.

Details of the application are contained in the attached application form and associated documents.

I also enclose the observations of Marine Survey Office, Department of Environment Heritage and Local Government (Archaeology and Nature), Engineering Division and Seafood Control.

I would be grateful for the observations of MLVC .

Yours sincerely

Deirdre Fitzpatrick
Coastal Zone Management Division

15th January 2007

Our Ref: MS51/8/1261(a)
(Please quote on all correspondence)

Dr. Terry McMahon
Chair
Marine Licence Vetting Committee
Marine Institute
80 Harcourt Street
Dublin 2

**RE: FORESHORE LICENCE APPLICATION FOR AN OUTFALL PIPE AND DIFFUSER TO
SERVE FOUL SEWERS AS PART OF THE NORTH COBH SEWERS SERVICED LAND
INITIATIVE – Cork County Council**

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I would be grateful for the observations of MLVC .

Yours sincerely

Deirdre Fitzpatrick
Coastal Zone Management Division

15th January 2007

Our Ref: MS51/8/1261(a)
(Please quote on all correspondence)

Dr James J King
Fisheries Biologist
Unit 4
Swords Business Campus
Balheary Road
Co Dublin

**RE: FORESHORE LICENCE APPLICATION FOR AN OUTFALL PIPE AND DIFFUSER TO
SERVE FOUL SEWERS AS PART OF THE NORTH COBH SEWERS SERVICED LAND
INITIATIVE – Cork County Council**

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I would be grateful for the observations of MLVC .

Yours sincerely

Deirdre Fitzpatrick
Coastal Zone Management Division

15th January 2007

Our Ref: MS51/8/1261(a)
(Please quote on all correspondence)

Ms. Margot Cronin
Marine Environment Chemist
Marine Institute
Rinville
Oranmore
Co. Galway

**RE: FORESHORE LICENCE APPLICATION FOR AN OUTFALL PIPE AND DIFFUSER TO
SERVE FOUL SEWERS AS PART OF THE NORTH COBH SEWERS SERVICED LAND
INITIATIVE – Cork County Council**

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Yours sincerely

Deirdre Fitzpatrick
Coastal Zone Management Division

15th January 2007

Our Ref: MS51/8/1261(a)
(Please quote on all correspondence)

Dr. Francis X. O'Beirn
Team Leader
Benthic Monitoring
Marine Institute
Rinville
Oranmore
Co. Galway

**RE: FORESHORE LICENCE APPLICATION FOR AN OUTFALL PIPE AND DIFFUSER TO
SERVE FOUL SEWERS AS PART OF THE NORTH COBH SEWERS SERVICED LAND
INITIATIVE – Cork County Council**

This Department has received an application from Cork County Council for a Foreshore Licence/Lease, under the Foreshore Acts, to facilitate the above-mentioned construction.

Details of the application are contained in the attached application form and associated documents.

I also enclose the observations of Marine Survey Office, Department of Environment Heritage and Local Government (Archaeology and Nature), Engineering Division and Seafood Control.

I would be grateful for the observations of MLVC .

Yours sincerely

Deirdre Fitzpatrick
Coastal Zone Management Division

15th January 2007

Our Ref: MS51/8/1261(a)
(Please quote on all correspondence)

Captain Nick Cantwell
Navigation Expert
Marine Safety Directorate
Ballyshannon Town Council Building
Abbey View
Ballyshannon
Co. Donegal

**RE: FORESHORE LICENCE APPLICATION FOR AN OUTFALL PIPE AND DIFFUSER TO
SERVE FOUL SEWERS AS PART OF THE NORTH COBH SEWERS SERVICED LAND
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Deirdre Fitzpatrick
Coastal Zone Management Division

15th January 2007

Our Ref: MS51/8/1261(a)
(Please quote on all correspondence)

Mr Allan Williams
Engineer Grade 1
Engineering Division
Department of Communications, Marine & Natural Resources
Leeson Lane
Dublin 2

**RE: FORESHORE LICENCE APPLICATION FOR AN OUTFALL PIPE AND DIFFUSER TO
SERVE FOUL SEWERS AS PART OF THE NORTH COBH SEWERS SERVICED LAND
INITIATIVE – Cork County Council**

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Yours sincerely

Deirdre Fitzpatrick
Coastal Zone Management Division

16th November 2006

Our Ref: MS51/8/1261(a)
(Please quote on all correspondence)

Dr Terry McMahon
Marine Licence Vetting Committee
Marine Institute
80 Harcourt Street
Dublin 2

**RE: FORESHORE LICENCE APPLICATION FOR AN OUTFALL PIPE AND DIFFUSER TO
SERVE FOUL SEWERS AS PART OF THE NORTH COBH SEWERS SERVICED LAND
INITIATIVE – Cork County Council**

I enclose an application in respect of the above mentioned and a copy of our Engineer's report.

Please advise if the application should be passed onto the other members of the MLVC.

I would appreciate a prompt reply as the application has already gone to public notice.

Yours sincerely

Deirdre Fitzpatrick
Coastal Zone Management Division

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Draft Only

1. Clare O’Gorman
2. Pat Corcoran
3. John Quinlan
4. Runai Aire

**RE: FORESHORE LICENCE APPLICATION FOR AN OUTFALL PIPE AND DIFFUSER TO
SERVE FOUL SEWERS AS PART OF THE NORTH COBH SEWERS SERVICED LAND
INITIATIVE – Cork County Council**

Approval Sought:

The approval of the Minister of State is sought for the grant of Licence under Section 3 of the Foreshore Act 1933 to Cork County Council, County Hall, Cork to carry out the above-mentioned proposed work in accordance with Drawings submitted:-

*Drawing No. 2005-00407-Sk022 Rev C and 2005-004-07-Sk 014 Rev B

Consideration of the Application:

The application for the above-mentioned works was considered and cleared by the Department’s Engineering Division, Sea Food Control Division, the members of the Marine Licence Vetting Committee, by the Marine Survey Office of the Department of Transport and by the Heritage and Planning Division of the Department of the Environment, Heritage and Local Government, subject to conditions. Section 8, of the Planning and Development Regulations, 2001 applies.

Specific Conditions:

A copy of the Specific Conditions for Licence (if granted) are attached. Cork County Council has agreed the Conditions.

Rental Valuation:

The Standard charge applicable to this development is either an Annual Charge of €1,475 or a once-off payment of €21,387 on a 35 year Licence. The applicant has agreed to a once-off payment of €21,387.

Public Notice:

Details of the application were published in “The Irish Examiner” newspaper on the 10th October 2006 and details/description of the work to be carried out and a location map were available for inspection in Cobh Garda Station for 21 days after the Notice publication date. No objections were received.

Basis for the Recommendation:

This development will facilitate the disposal of treated effluent and surface water from the proposed North Cobh Sewerage System. The foul sewer outfall will be made redundant by the implementation of the Cork Lower Harbour Sewerage Scheme.

Draft Only

16 March 2007

SPECIFIC CONDITIONS

1. The Licensee:

- (i) shall use that part of the foreshore, the subject matter of this Licence, for the purpose of construction of an outfall pipe and diffuser, to serve foul sewers that are to be constructed as part of the North Cobh Sewers Serviced Land Initiative (hereinafter referred to as the works), in accordance with the plans and location drawings*, as submitted to, and approved by, the Minister for Communications Marine and Natural Resources (hereinafter called the Minister) and for no other purpose whatsoever;

*** Drawing No. 2005-004-07-sk022 Rev D and 2005-004-07-Sketch 014 Rev D**

- (ii) may also use adjacent foreshore but only to the extent necessary for the purpose of constructing and maintaining the said works and shall restore the said foreshore to its proper condition immediately after such use.

2. The Licensee shall, prior to commencement of works:

- (i) provide certification by a Chartered Engineer stating that the works have been designed in accordance with relevant Irish or British Standard Specifications or Codes of Practice for strength, stability and durability, taking into account current building regulations and safety legislation;
- (ii) provide for the approval of the Minister, a detailed Construction and Method Statement for all pipe laying and construction operations on the foreshore and for the disposal of excavated material;
- (iii) give the Department of Communications, Marine and Natural Resources 14 days notice;
- (iv) ensure that the contractor's arrangements for the control of pollutants are notified to and agreed by, both the Department of Communications, Marine and Natural Resources and the South Western Fisheries Board;
- (v) apply to the Commissioners of Irish Lights for sanction of new navigational aids/buoyage and/or alteration of existing navigational aids/buoyage;
- (vi) notify the British Admiralty Hydrographic Office, of the location, nature and timing of the works;
- (vii) arrange for the publication of a local marine notice. This local marine notice should give a general description of operations and approximate dates of commencement and completion. A notice in a locally read newspaper at least two weeks prior operations will suffice.

3. The Licensee shall, during the construction phase:

- (i) ensure that floating plant or machinery used in connection with the works is adequately lit if in place at night or during times of poor visibility;
- (ii) ensure that all vessels engaged in the works comply fully with the relevant certification requirements;
- (iii) ensure that the diffuser is suitably marked to identify its location thus reducing the risk of damage from a vessel's anchor;
- (iv) ensure that work is carried out in an environmentally friendly manner so as to minimise the impact on the foreshore and the surrounding environs;
- (v) ensure that appropriate methods of operation are adopted in order to ensure that no spillages of fuel, hydrocarbons, cement or other leakages occur to the marine environment;
- (vi) ensure that the site is secured from public access or encroachment by means of suitable barriers and signage;
- (vii) comply with all lawful instructions given by the Heritage and Planning Division of the Department of the Environment, Heritage and Local Government in relation to work on the foreshore area the subject of this Lease or the surrounding area;
- (viii) ensure that the Heritage and Planning Division is immediately informed should material of an archaeological nature be discovered, and comply with all additional conditions the Heritage and Planning Division may lawfully impose;
- (ix) on finding any material of an archaeological nature in the foreshore area the subject of this Licence or in the surrounding area, cease all works in those areas until the Heritage and Planning Division agrees that works may be resumed, and shall comply with any conditions specified by the Heritage and Planning Division in relation thereto.

4. The Licensee shall ensure, that in the event of any spillage or accident occurring below the high water mark of ordinary or medium tides, or above the high water mark, which may impact on the foreshore during the carrying out of the works the subject of this Licence, or during operations following the completion of the works, the Irish Coast Guard is notified immediately by telephone.

5. The Licensee shall, on completion of the works:

- (i) within two months, provide certification by a Chartered Engineer that the works have been completed in accordance with the plans/drawings approved of by the Minister and with the said Specifications or Codes of Practice;
- (ii) make good, to the satisfaction of the Minister, any damage caused to the foreshore;
- (iii) provide detailed location coordinates for the completed works;

- (iv) ensure that no material or debris remains at the site.
- 6. The Licensee shall ensure that the effluent treatment standard shall not exceed 25mg/l BOD and 35mg/l suspended solids. The ultimate discharge loading shall not exceed 70kgs/day BOD.
- 7. On the commissioning of the Cobh Main Drainage Scheme this Licence will expire and the Licensee shall ensure that the sewer on the foreshore is removed immediately at that stage and the foreshore reinstated.

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28th September 2006

Our Ref: MS/51/8/1261(a)

The Senior Garda,
Cobh Garda Station,
Cobh
Co. Cork.

**RE: FORESHORE LICENCE APPLICATION FOR AN OUTFALL PIPE AND DIFFUSER TO
SERVE FOUL SEWERS AS PART OF THE NORTH COBH SEWERS SERVICED LAND
INITIATIVE – Cork County Council**

Dear Sir/Madam

I refer to an application for a Foreshore Licence received from Cork County Council for permission under the Foreshore Act, 1933 to occupy an area of Foreshore at Cork Harbour (River Lee West Passage) Cork.

The applicant has been requested to have a Notice relating to the proposal inserted in "The Irish Examiner" newspaper. Copies of the Notice and this Department's letter to the applicant are enclosed.

Perhaps you will be good enough to allow a copy of the site plan of the areas, and drawings of the proposed works be made available for inspection at Cobh Garda Station, for the required period of 21 days after publication of the notice for same, and ensure that the Plans and Drawings will be duly endorsed with the Station's Stamp on expiry of the 21 days.

Yours Sincerely,

Deirdre Fitzpatrick
Coastal Zone Management Division

Phone: 01 6783317
Email: Deirdre.Fitzpatrick@dcmnr.ie

28th September 2006

Our Ref: MS/51/8/1261(a)

Mr Noel O'Keeffe
Senior Executive Officer
Water Services Capital
South Cork Rural
Floor 4 County Hall
Cork

**RE: FORESHORE LICENCE APPLICATION FOR AN OUTFALL PIPE AND DIFFUSER TO
SERVE FOUL SEWERS AS PART OF THE NORTH COBH SEWERS SERVICED LAND
INITIATIVE – Cork County Council**

Dear Mr O'Keeffe

I refer to the above application for permission under the Foreshore Act, 1933 to occupy an area of Foreshore.

Under the Foreshore Act, 1933 it will be necessary for you to complete the enclosed Notice relating to the proposal and to publish a copy of it in "The Irish Examiner" newspaper. Complete copies of the newspaper page containing the Notice should be sent to this Department immediately after publication.

In accordance with the terms of the Notice, arrangements should be made to have a copy of the site plan and drawings of the proposed works sent to: The Superintendent Cobh Garda, Station, Cobh, Co. Cork, to be made available for inspection at Cobh Garda Station for the required period of 21 days after the publication of the notice.

On expiry of the 21 days, please arrange to have the Plans and Drawings, which were on display at the Garda Station forwarded to this Department within 21 days, duly endorsed with the Station's Stamp.

Yours Sincerely,

Deirdre Fitzpatrick
Coastal Zone Management Division

Phone: 01 6783317
Email: Deirdre.Fitzpatrick@dcmnr.ie

PUBLIC NOTICE OF APPLICATION FOR A FORESHORE LICENCE

Notice is hereby given pursuant to Section 19 of the Foreshore Act, 1933 that Cork County Council, County Hall, Cork has applied to Noel Dempsey, T.D. , Minister for Communications, Marine and Natural Resources for permission to occupy an area of foreshore for the purpose of constructing an outfall pipe and diffuser, to serve foul sewers that are to be constructed as part of the North Cobh Sewers Serviced Land Initiative.

Any person who wishes to make an objection to, or a representation in respect of, the grant of the permission sought should do so, giving their reasons, in writing, to the Coastal Zone Management Division, (Ref: MS51/8/1261(a)) Department of Communications, Marine and Natural Resources, Building C, West Cork Technology Park, Clonakilty, Co Cork within 21 days of publication of this Notice.

All objections and representations received will be forwarded to the applicant for comment prior to any decision being made in the matter.

A site plan of the area in question and drawings of the works may be inspected at: Cobh Garda Station, Cobh, Co. Cork.

Dated this day of _____ 2006

Name & Address: _____

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Consent of copyright owner required for any other use.*

13th September 2006

MS51/8/1261(A)

(Please quote on all correspondence)

Mr John O'Keeffe
Divisional Engineer – South Region
Dept. Comms, Marine & N.R.
Oak House
Bessboro Road
Mahon
Co Cork

**RE: FORESHORE LICENCE APPLICATION FOR AN OUTFALL PIPE AND DIFFUSER TO
SERVE FOUL SEWERS AS PART OF THE NORTH COBH SEWERS SERVICED LAND
Initiative – Cork County Council**

Dear Mr O'Keeffe

I refer to yours of 29/08/06.

I enclose a revised map received from Fehily Timoney & Co in respect of the above-mentioned application.

Please advise if same is in order.

In relation to the area of privately owned foreshore, have the Consultants supplied any documentary evidence of Cork County Council's title to the privately owned foreshore? If yes, please forward copy of same as documentary evidence is required for our reference.

Yours sincerely

Deirdre Fitzpatrick
Foreshore Section
Coastal Zone Management

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31st August 2006

Our Ref: MS51/8/1261(a)
(Please quote on all correspondence)

Ms Clodagh Mahony
Fehily Timoney & Company
Core House
Pouladuff Road
Cork

**RE: FORESHORE LICENCE APPLICATION FOR AN OUTFALL PIPE AND DIFFUSER TO
SERVE FOUL SEWERS AS PART OF THE NORTH COBH SEWERS SERVICED LAND
Initiative – Cork County Council**

Dear Ms Mahony

I wish to acknowledge receipt of a revised application Form and associated documentation for a Foreshore Licence pertaining to the above. I have passed copies of this application on this Department's specialist advisors seeking their comments.

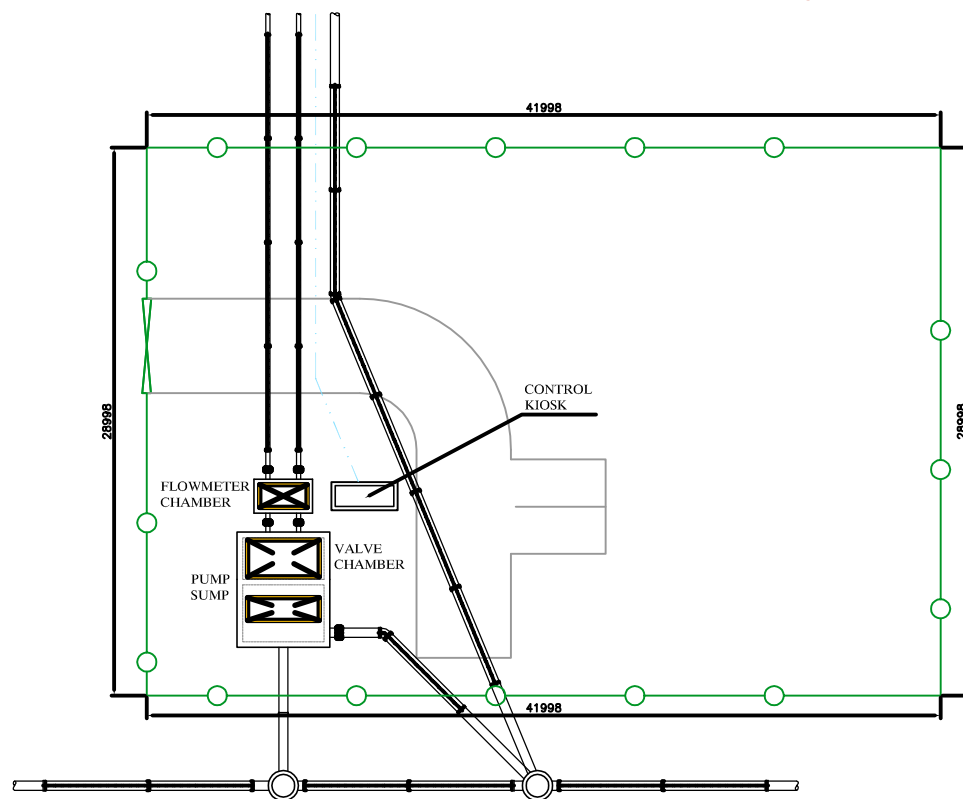
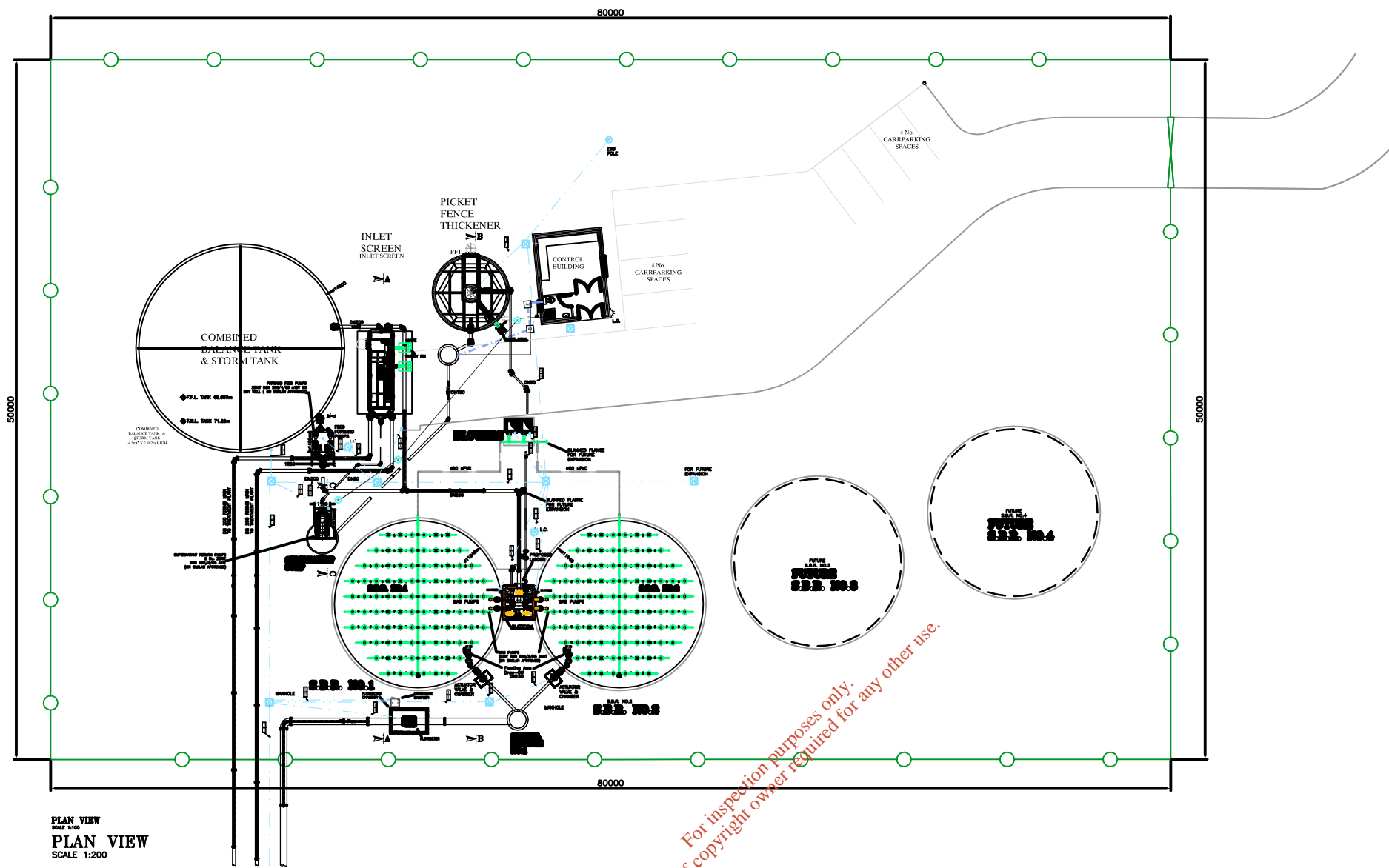
This Department will revert to you as soon as we receive a response from said advisors.

Please note that should this project be granted a Licence, a once off payment of €42,775 will apply on a 35 year Licence. This has already been agreed as per letter to Ms Sharon Sexton dated 23rd March 2006 from Mr David McHugh of your office.

Please forward all correspondence in relation to this application to the undersigned, by email if possible to Deirdre.Fitzpatrick@dcmnr.ie or by post to Foreshore Section, Coastal Zone Management Division, Department of Communications, Marine & Natural Resources, Building C, West Cork Technology Park, Clonakilty, Co Cork.

Yours sincerely

Deirdre Fitzpatrick
Foreshore Section
Coastal Zone Management Division



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NOT TO SCALE @ A3

REFERENCE DRAWINGS

DRAWING NUMBER:	REV.

SCHEDULE OF BUILDERSWORK OPES & LEVELS

Centerline of ope on plan equals centerline of corresponding pipe passing through unless noted otherwise.

Ref:	PipeØ	Size (W x H)	Invert Level	Qty.

HAZARDOUS ZONE RATINGS:

GENERAL NOTES:

1. All power ducts to be 150Ø unless noted otherwise.
2. All telem ducts to be 100Ø unless noted otherwise.
3. All power and telem ducts to be separated by a minimum distance of 725mm center to center where practical.
4. All pipe invert levels taken from underside of outside diameter unless noted otherwise.

Rev	Drn	Ckd	Appd	Date	Description
0	TDD			26.02.07	INITIAL ISSUE

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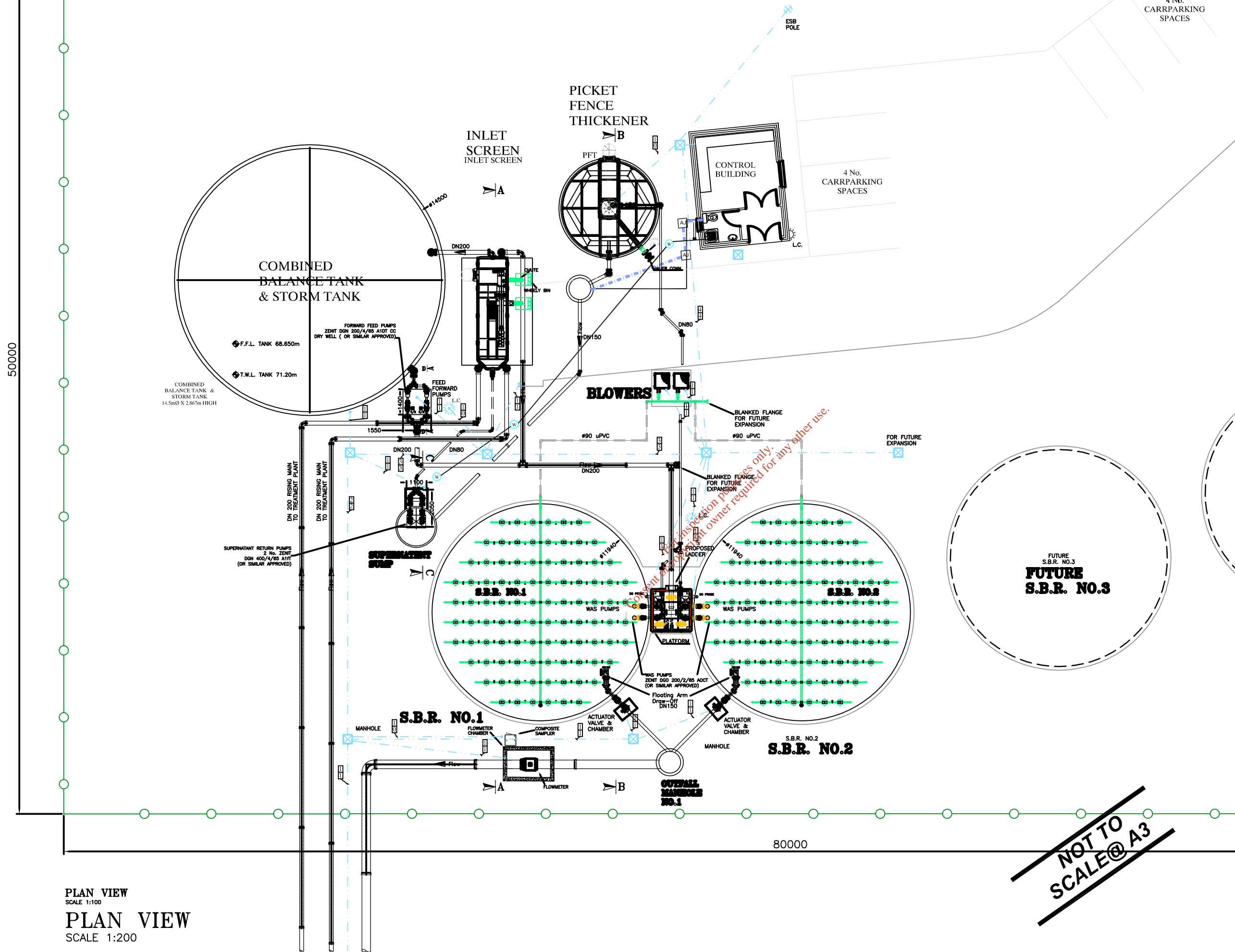
Contract:
NORTH COBH WASTE WATER TREATMENT PLANT

Client:
CORK COUNTY COUNCIL

Client's Representative:
J.B. BARRY & PARTNERS

Drawing Title:
APPLICATION FORM ATTACHMENT C1 : 03 OPERATIONAL INFORMATION REQUIREMENTS NORTH COBH WWTP SITE LAYOUT

Scale: 1:100	Plot: A1 @ 1:1
Drawn By: T O' DONOVAN	Date: 15.02.07
Revision Suffix: 0 1 2 3	
Job No.:	
Drg No.:	C1:03
Workshop No.:	



NOT TO SCALE @ A3

REFERENCE DRAWINGS					
DRAWING NUMBER:	REV.				
SCHEDULE OF BUILDERSWORK OPES & LEVELS					
Centerline of ope on plan equals centerline of corresponding pipe passing through unless noted otherwise.					
Ref:	PipeØ Size (W x H) Invert Level Qty.				
HAZARDOUS ZONE RATINGS:					
GENERAL NOTES:					
1. All power ducts to be 150Ø unless noted otherwise.					
2. All telem ducts to be 100Ø unless noted otherwise.					
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0	TDD	26.02.07	INITIAL ISSUE		
Rev	Drn	Ckd	Appd	Date	Description
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Contract: NORTH COBH WASTE WATER TREATMENT PLANT					
Client: CORK COUNTY COUNCIL					
Client's Representative: J.B. BARRY & PARTNERS					
Drawing Title: APPLICATION FORM ATTACHMENT C1 : 04 OPERATIONAL INFORMATION REQUIREMENTS NORTH COBH WWTP SITE LAYOUT					
Scale: 1:100			Plot: A1 @ 1:1		
Drawn By: T O' DONOVAN			Date: 15.02.07		
Revision Suffix: 0 1 2 3					
Job No.:		PC574			
Drg No.:		C1:04			
Workshop No.:					

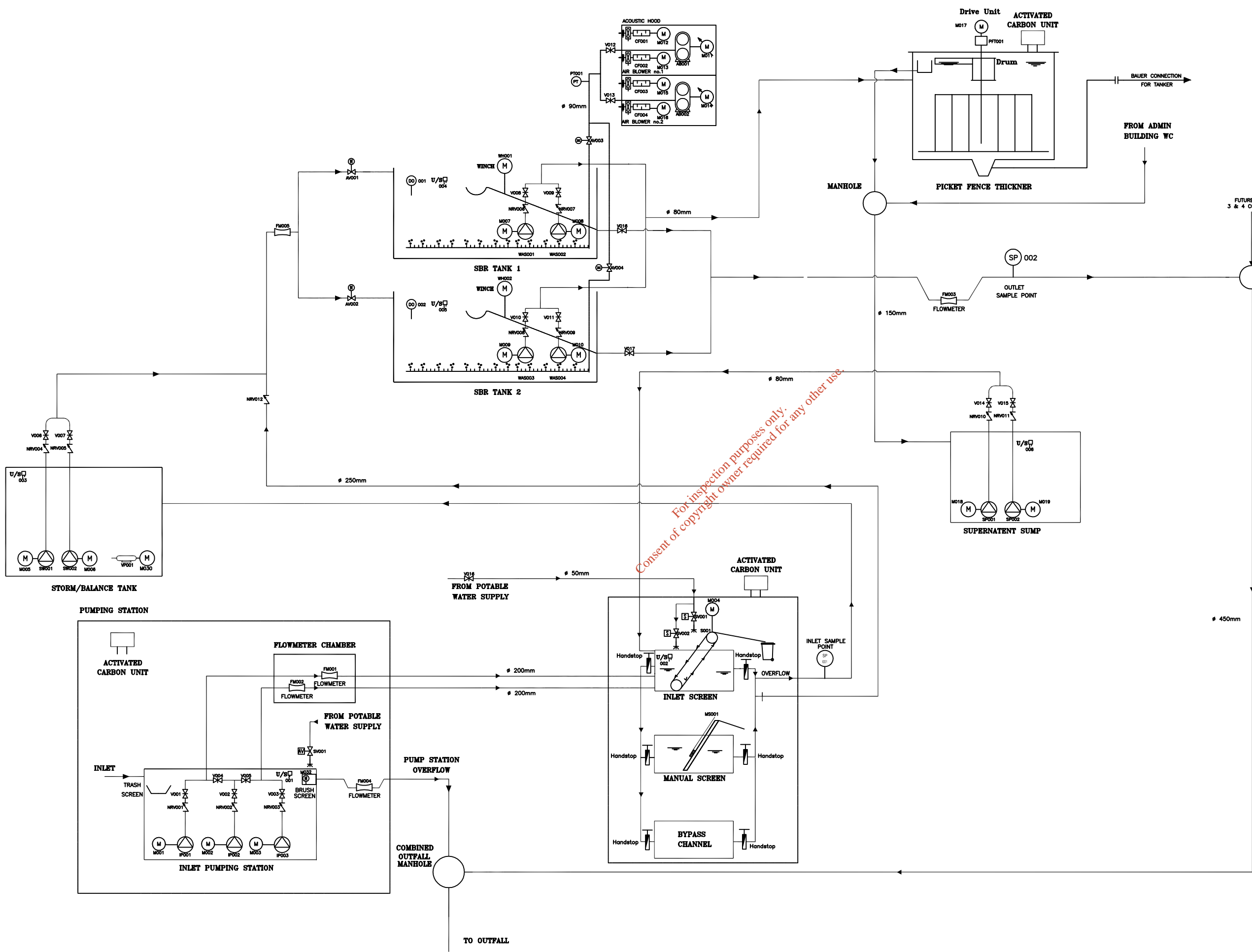
PLAN VIEW
SCALE 1:100
PLAN VIEW
SCALE 1:200

IF IN DOUBT ASK

DO NOT SCALE OFF THIS DRAWING

LEGEND

- GATE/BUTTERFLY VALVE
- NON RETURN VALVE
- SOLENOID VALVE
- ACTUATED VALVE
- MODULATED VALVE
- FLOWMETER
- SAMPLE POINT
- PUMP
- FLOW INDICATOR
- ULTRASONIC LEVEL SENSOR
- DO PROBE
- MOTOR c/w VSD
- AIR BLOWER
- HANDSTOP
- COMPRESSOR
- PILOT VALVE
- S** = SCREEN
- MS** = MANUAL SCREEN
- P** = PUMP
- B** = BLOWER
- M** = MOTOR
- VP** = VENTURI PUMP
- Y** = VALVE
- AV** = ACTUATED VALVE
- SV** = SOLENOID VALVE
- NRV** = NON RETURN VALVE
- PV** = PILOT VALVE
- FM** = INLINE FLOWMETER
- FS** = FLOAT SWITCH
- AS** = AUTO SAMPLER
- US** = ULTRASONIC
- LP** = LEVEL PROBE
- DO** = DISSOLVED OXYGEN



Rev	Drn	Ckd	Apd	Date	Description
6	SM	DM		27/07/07	FLOWMETER ADDED
5	SM			13/06/07	FLOWMETER ADDED
3	KL			04/05/07	MINOR MODS.
2	KL	MC		18/04/07	MINOR MODS.
1	KL	MC		14/03/07	2no. SBR TANKS

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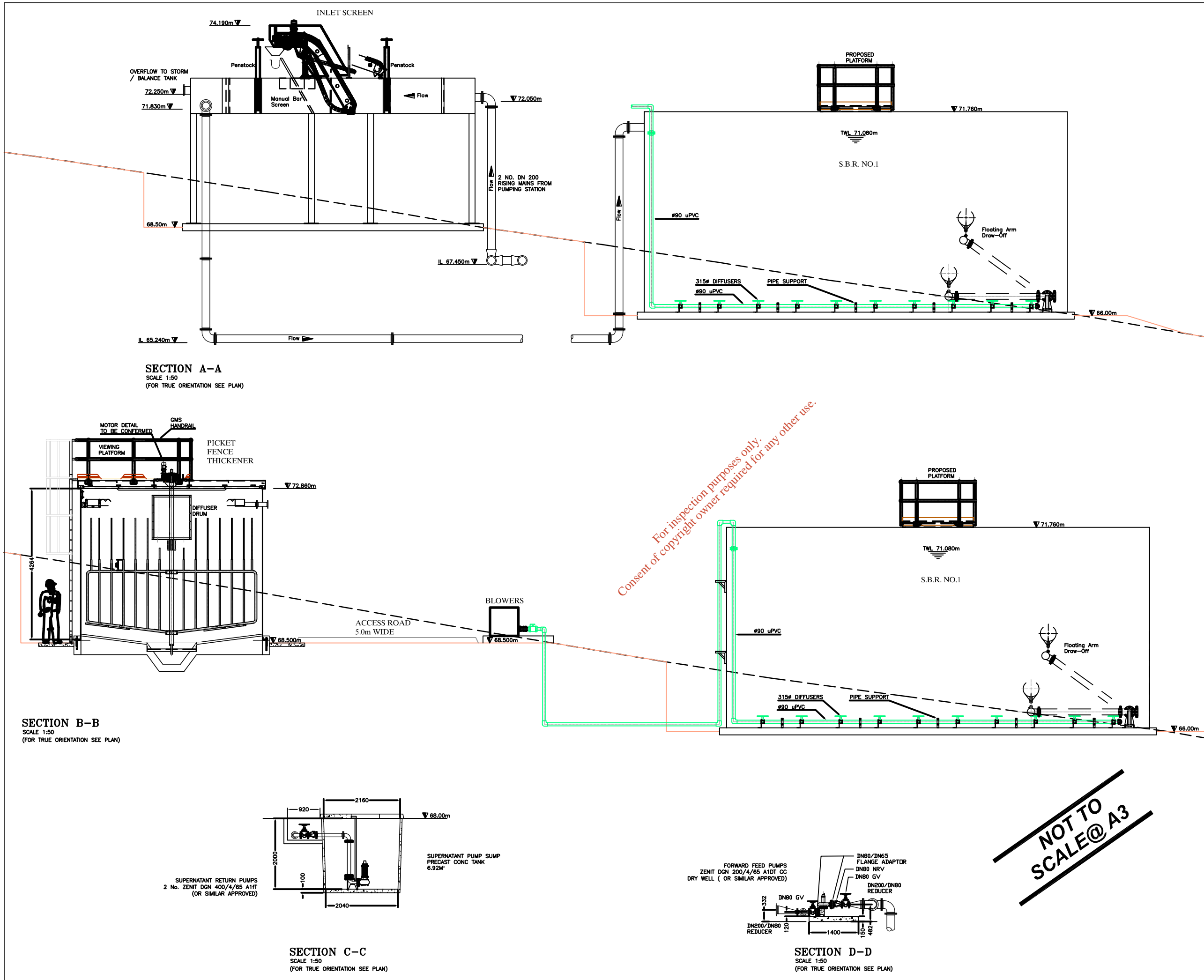
Contract:
NORTH COBH WWTP

Client:
CORK COUNTY COUNCIL

Consultant:
J.B. BARRY & PARTNERS
ADDRESS

Drawing Title:
**APPLICATION FORM ATTACHMENT
C1 - 05
OPERATIONAL INFORMATION REQUIREMENTS
NORTH COBH WWTP
P & ID**

Scale: NTS	Plot: A1 @ 1:1
Drawn By: KL	Date: 13.02.07
Revision Suffix: 0 1 2 3 4 5 6	
Job No.:	
Drg No.:	C.1 - 05
Workshop No.:	



REFERENCE DRAWINGS

DRAWING NUMBER:	REV.

SCHEDULE OF BUILDERSWORK OPES & LEVELS

Centerline of ope on plan equals centerline of corresponding pipe passing through unless noted otherwise.

Ref.	PipeØ	Size (W x H)	Invert Level	Qty.

HAZARDOUS ZONE RATINGS:

GENERAL NOTES:

1. All power ducts to be 150Ø unless noted otherwise.
2. All telem ducts to be 100Ø unless noted otherwise.
3. All power and telem ducts to be separated by a minimum distance of 725mm center to center where practical.
4. All pipe invert levels taken from underside of outside diameter unless noted otherwise.

0	TDD	26.02.07	INITIAL ISSUE		
Rev	Drn	Ckd	Apd	Date	Description

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Contract:
NORTH COBH WASTE WATER TREATMENT PLANT

Client:
CORK COUNTY COUNCIL

Client's Representative:
J.B. BARRY & PARTNERS
ADDRESS

Drawing Title:
APPLICATION FORM ATTACHMENT C1 : 06 OPERATIONAL INFORMATION REQUIREMENTS NORTH COBH WWTP SITE LAYOUT

Scale: 1:100 Plot: A1 © 1:1

Drawn By: T O' DONOVAN Date: 15.02.07

Revision Suffix: 0 1 2 3

Job No.:
Drg No.: **C1:06**
Workshop No.:

NOT TO SCALE @ A3

IF IN DOUBT ASK

DO NOT SCALE OFF THIS DRAWING

REFERENCE DRAWINGS

DRAWING NUMBER:	REV.

SCHEDULE OF BUILDERSWORK OPES & LEVELS

Centerline of ope on plan equals centerline of corresponding pipe passing through unless noted otherwise.

Ref:	PipeØ	Size (W x H)	Invert Level	Qty.
1	200	550x550	42.714m	7
2	300	650x650	43.135m	1
3	525	900x900	40.360m	1
4	525	900x900	39.900m	1
5	100	POWER	43.800m	7

HAZARDOUS ZONE RATINGS:

GENERAL NOTES:

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Rev	Drn	Ckd	Apd	Date	Description
3	TDD			19.07.07	MODS. TO COVERS
2	TDD	JK	DM	22.06.07	FOR CONSTRUCTION
1	JF	JK	DM	31.05.07	REVISED PER COMMENT
0	TDD	JK	DM	26.02.07	INITIAL ISSUE

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Contract:
NORTH COBH WASTE WATER TREATMENT PLANT

Client:
CORK COUNTY COUNCIL

Client's Representative:
J.B. BARRY & PARTNERS
ADDRESS

Drawing Title:
APPLICATION FORM ATTACHMENT C1 : 07 OPERATIONAL INFORMATION REQUIREMENTS NORTH COBH WWTP PUMPING STATION

Scale: 1:100 Plot: A1 © 1:1

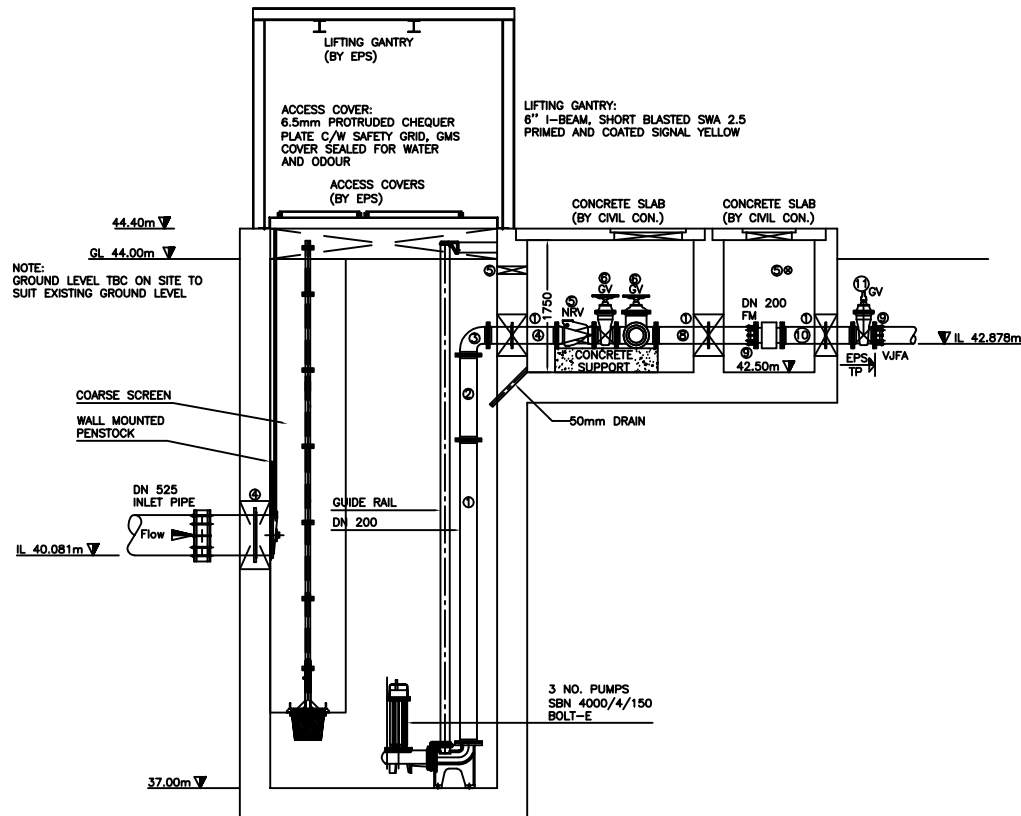
Drawn By: T O' DONOVAN Date: 15.02.07

Revision Suffix: 0 1 2 3

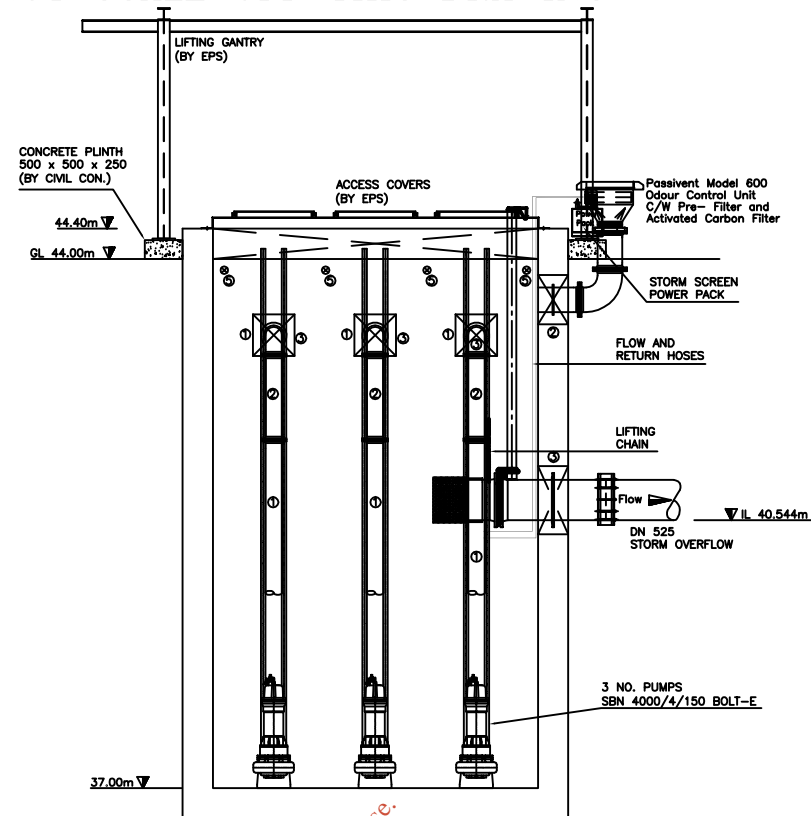
Job No.:

Drng No.: C1:07

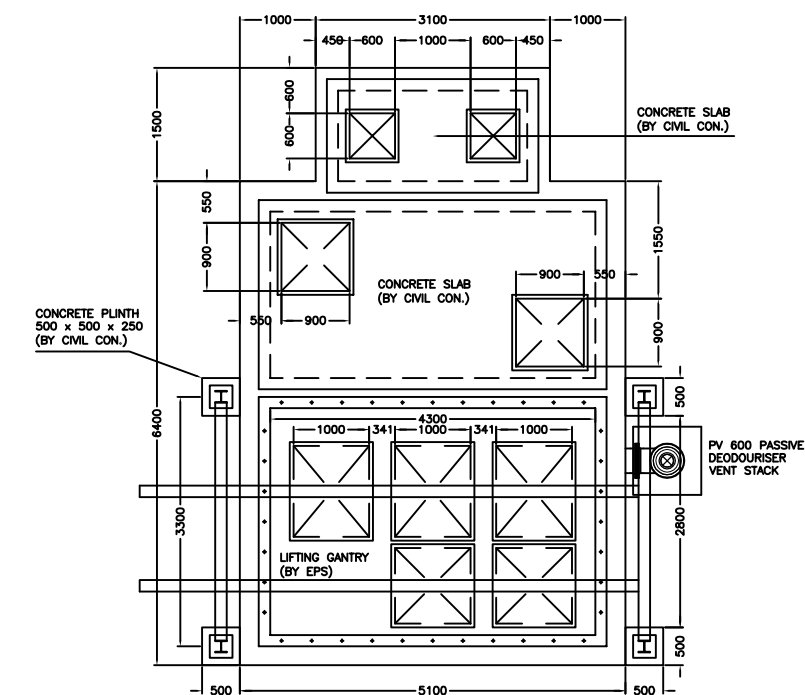
Workshop No.:



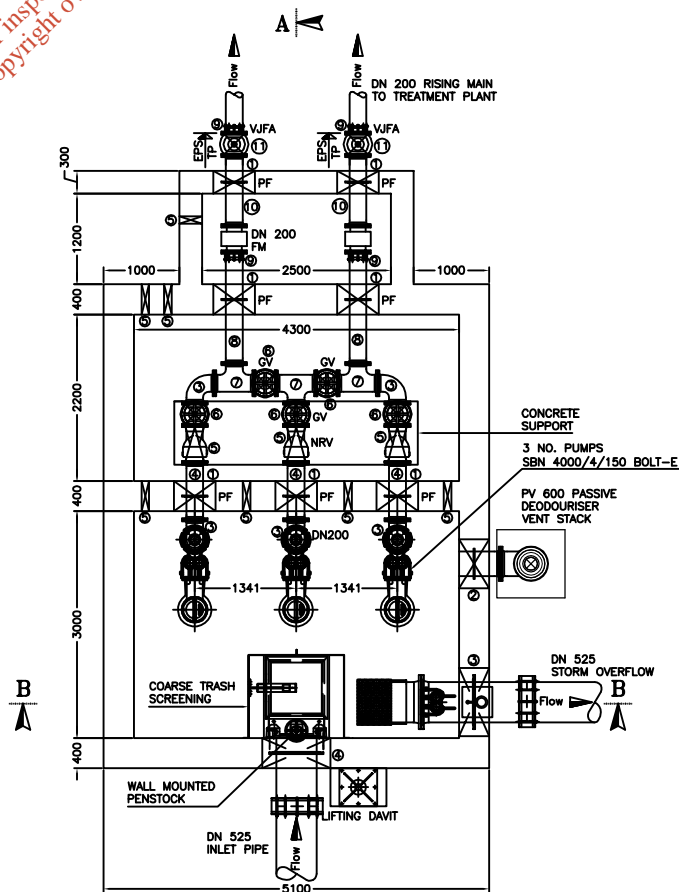
SECTION A-A
SCALE 1:50
(FOR TRUE ORIENTATION SEE PLAN)



SECTION B-B
SCALE 1:50
(FOR TRUE ORIENTATION SEE PLAN)



PLAN VIEW
SCALE 1:50

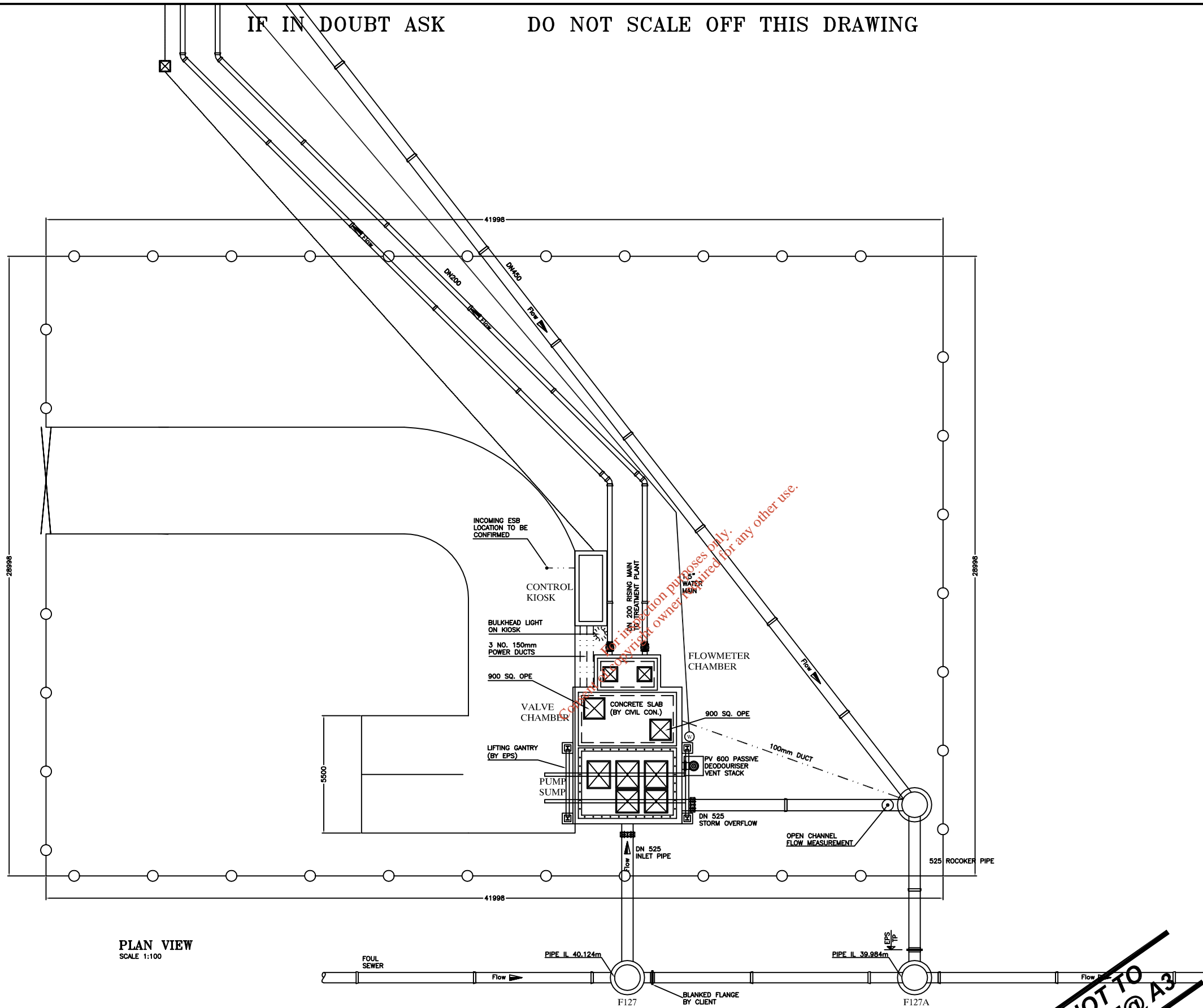


PLAN VIEW
SCALE 1:50

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NOT TO SCALE @ A3

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PLAN VIEW
SCALE 1:100

NOT TO SCALE @ A3

REFERENCE DRAWINGS

DRAWING NUMBER:	REV.

SCHEDULE OF BUILDERSWORK OPES & LEVELS

Centerline of ope on plan equals centerline of corresponding pipe passing through unless noted otherwise.

Ref:	PipeØ	Size (W x H)	Invert Level	Qty.

HAZARDOUS ZONE RATINGS:

GENERAL NOTES:

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Rev	Drn	Ckd	Apd	Date	Description
3	TDD			19.07.07	MODS. TO COVERS
2	TDD	JK	DM	22.06.07	FOR CONSTRUCTION
1	J.F	JK	DM	31.05.07	REVISED PER COMMENT
0	TDD	JK	DM	26.02.07	INITIAL ISSUE

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NORTH COBH
WASTE WATER
TREATMENT PLANT

CORK COUNTY COUNCIL

Client's Representative:
J.B. BARRY & PARTNERS
ADDRESS

Drawing Title:
**APPLICATION FORM ATTACHMENT
C1 : 08
OPERATIONAL INFORMATION REQUIREMENTS
NORTH COBH WWTP
PUMPING STATION**

Scale: 1:100 Plot: A1 © 1:1

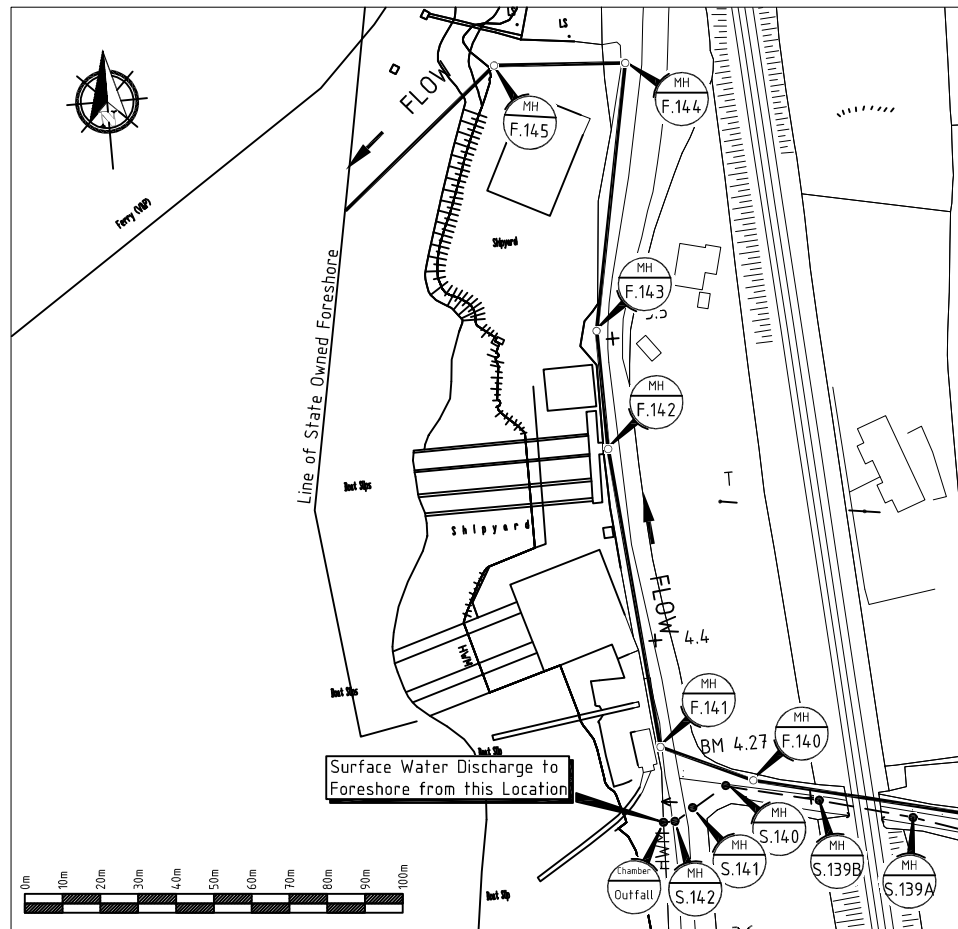
Drawn By: T O' DONOVAN Date: 15.02.07

Revision Suffix: 0 1 2 3

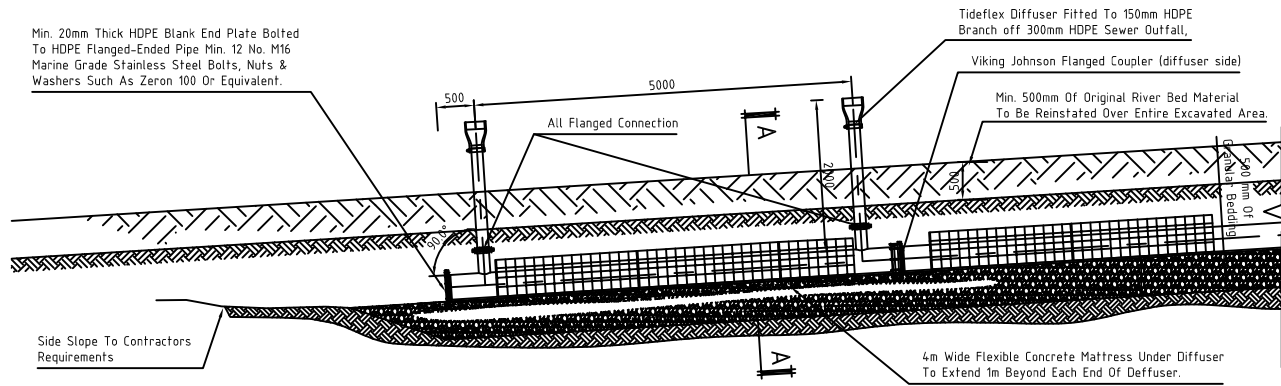
Job No.:

Drg No.: **C1:08**

Workshop No.:



1:1000 LAYOUT PLAN



ELEVATION OF DIFFUSER
Scale 1:50

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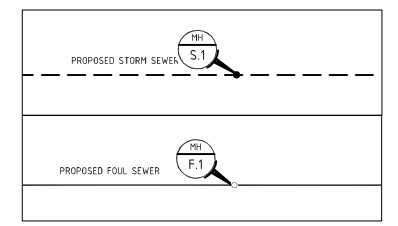
- Notes:
1. Granular Material For Bedding & Surround To Be A Well Graded Gravel With Rounded Aggregate, Maximim Aggregate Size 100mm Diameter, Mixed With A Coarse Sand.
 2. Navigation aids will be installed in accordance with the requirements of the Commissioner of Irish Lights and the Port of Cork.

Tidal Conditions Note :
The Contractors Attention Is Drawn To The Fact That Works In The Vicinity Of The Surface Water And Fouls Outfalls Will Be Subject To Tidal Influence

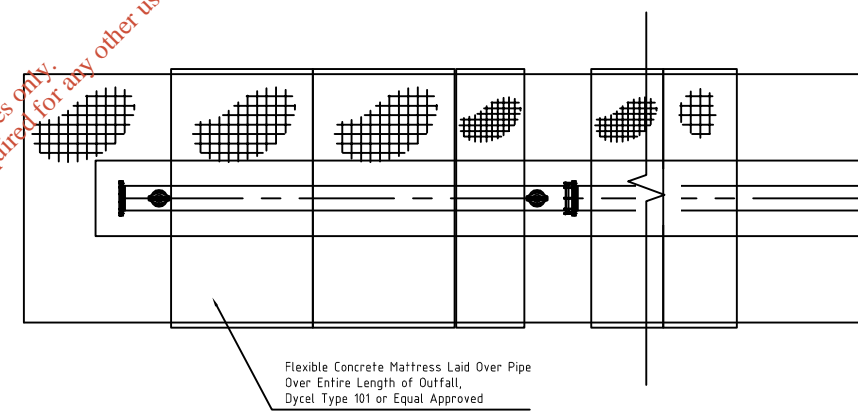


KEY PLAN

SEE BLOW UP OVER



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PLAN OF DIFFUSER
Scale 1:50

NOT TO SCALE @ A3

1 24.05.07 LONG. SECTION REVISED

0 27.03.07 ISSUE FOR CONSTRUCTION

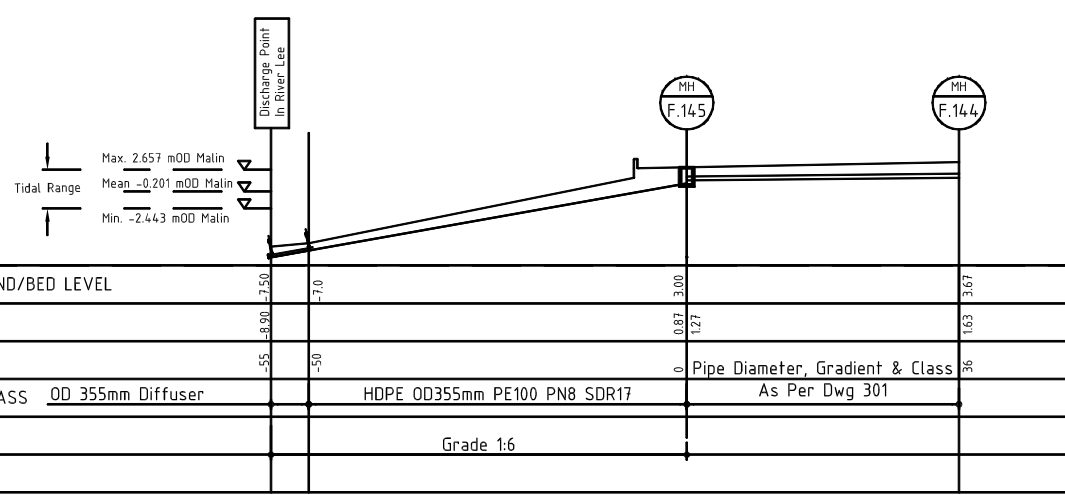
Rev.	Drawn	Chk'd	App'd	Date	Description

Name of Client
CORK COUNTY COUNCIL

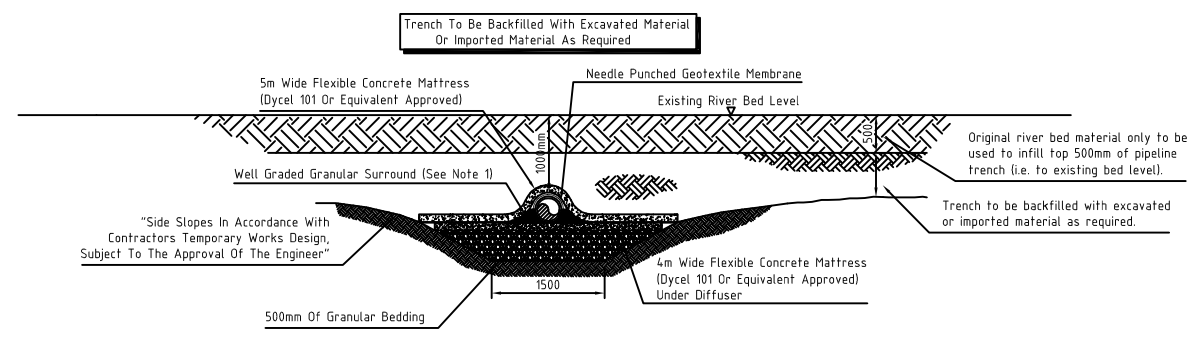
Name of Job
NORTH COBH SEWERS SLI

Title of Drawing
APPLICATION FORM ATTACHMENT
C2: 09
PROPOSED FOUL SEWER OUTFALL
LONG. SECTION, LAYOUT PLAN

Scales Used
As Shown
Dwg. No.
C2: 09
C:\Asst\2009\004\07\see-see_308



LONGITUDINAL SECTION
Scale 1:500 Horiz., 1:500 Vert.



SECTION A-A
Scale 1:50

**TABLE D.1(i)(a): EMISSIONS TO SURFACE/GROUND WATERS
(Primary Discharge Point)**

Discharge Point Code: SW01NCOB

Source of Emission:	North Cobh Wastewater Treatment Plant and Emergency Overflow from Pumping Station
Location:	Carrigaloe, Cobh, Co. Cork
Grid Ref. (12 digit, 6E, 6N):	E177535 N067632
Name of receiving waters:	River Lee Estuary, Cork Harbour West Passage
River Basin District:	Lee Estuary
Designation of receiving waters:	RPA Nutrient Sensitive Estuary
Flow rate in receiving waters:	<p>_____ Not Applicable _____ m³.sec⁻¹ Dry Weather Flow</p> <p>_____ Not Applicable _____ m³.sec⁻¹ 95%ile flow</p>

Emission Details:

(i) Volume emitted			
Normal/day *	159.7m ³ (average)	Maximum/day	Not Available m ³
Maximum rate/hour	Not Available m ³	Period of emission (avg)	_____min/hr _____hr/day _____365_____day/yr
Dry Weather Flow	Not Applicable m ³ /sec		

* Normal Daily Volume is from the Waste Water Treatment Plant as currently since commissioning there has been no discharge down the emergency overflow as no mechanical breakdowns have occurred.

**TABLE D.1(i)(b): EMISSIONS TO SURFACE/GROUND WATERS - Characteristics of the emission
(Primary Discharge Point)**

Discharge Point Code: SW01NCOB

Number	Substance	As discharged	
		Max. daily average	
1	pH	7.7	
2	Temperature	Not Available	
3	Electrical Conductivity(@25°C)	417	
		Max. daily average (mg/l)	kg/day
4	Suspended Solids	8	1.277
5	Ammonia (as N)	<0.1	0.011179
6	Biochemical Oxygen Demand	4.8	0.12776
7	Chemical Oxygen Demand	29	0.0771883
8	Total Nitrogen (as N)	2.4	0.06388
9	Nitrite (as N)	Not Available	Not Available
10	Nitrate (as N)	Not Available	Not Available
11	Total Phosphorus (as P)	2.5	0.066542
12	Orthophosphate (as P) ^{Note 1}	1.92	0.051104
13	Sulphate (SO ₄)	52	4.1522
14	Phenols (sum) ^{Note 2} (ug/l)	<0.1	0.007993

Note 1: For waste water samples this monitoring should be undertaken on a sample filtered on 0.45µm filter paper.

Note 2: USEPA Method 604, AWWA Standard Method 6240, or equivalent.

TABLE D.1(i)(c): DANGEROUS SUBSTANCE EMISSIONS TO SURFACE/GROUND WATERS**Primary Discharge Point - Characteristics of the emission****Discharge Point Code:** SW01NCOB

Number	Substance	As discharged		
		Max. daily average ($\mu\text{g/l}$)	kg/day	kg/year
1	Atrazine	<0.01	<0.000002	<0.000583
2	Dichloromethane	<1.0	<0.000160	<0.058291
3	Simazine	<0.01	<0.000002	<0.000583
4	Toluene	<1.0	<0.000160	<0.058291
5	Tributyltin	Not Available	Not Available	Not Available
6	Xylenes	<1.0	0.000160	<0.058291
7	Arsenic	1	0.000160	0.058291
8	Chromium	Not Available	Not Available	0
9	Copper	Not Available	Not Available	0
10	Cyanide	7	0.001118	0.408034
11	Fluoride	Not Available	Not Available	Not Available
12	Lead	Not Available	Not Available	Not Available
13	Nickel	Not Available	Not Available	Not Available
14	Zinc	Not Available	Not Available	Not Available
15	Boron	Not Available	Not Available	Not Available
16	Cadmium	Not Available	Not Available	Not Available
17	Mercury	<0.2	<0.000032	<0.011658
18	Selenium	2	0.000319	0.116581
19	Barium	Not Available	Not Available	Not Available

**TABLE D.1(ii)(a): EMISSIONS TO SURFACE/GROUND WATERS
(Secondary Discharge Point) (1 table per discharge point)**

Discharge Point Code: NOT APPLICABLE

Source of Emission:	
Location:	
Grid Ref. (12 digit, 6E, 6N):	
Name of receiving waters:	
River Basin District:	
Designation of receiving waters:	
Flow rate in receiving waters:	_____ m ³ .sec ⁻¹ Dry Weather Flow _____ m ³ .sec ⁻¹ 95%ile flow

Emission Details:

(i) Volume emitted			
Normal/day	m ³	Maximum/day*	0 m ³
Maximum rate/hour	m ³	Period of emission (avg)	_____min/hr _____hr/day _____day/yr
Dry Weather Flow			

**TABLE D.1(ii)(b): EMISSIONS TO SURFACE/GROUND WATERS - Characteristics of the emission (1 table per discharge point)
(Secondary Discharge Point)**

Discharge Point Code: _____ **Not Applicable** _____

Number	Substance	As discharged	
		Max. daily average	
1	pH		
2	Temperature		
3	Electrical Conductivity (@25°C)		
		Max. daily average (mg/l)	kg/day
4	Suspended Solids		
5	Ammonia (as N)		
6	Biochemical Oxygen Demand		
7	Chemical Oxygen Demand		
8	Total Nitrogen (as N)		
9	Nitrite (as N)		
10	Nitrate (as N)		
11	Total Phosphorus (as P) ^{Note 1}		
12	Orthophosphate (as P)		
13	Sulphate (SO ₄)		
14	Phenols (sum) ^{Note 2} (ug/l)		

Note 1: For waste water samples this monitoring should be undertaken on a sample filtered on 0.45µm filter paper.

Note 2: USEPA Method 604, AWWA Standard Method 6240, or equivalent.

TABLE D.1(ii)(c): DANGEROUS SUBSTANCE EMISSIONS TO SURFACE/GROUND WATERS

Secondary Discharge Point - Characteristics of the emission (1 table per discharge point)

Discharge Point Code: Not Applicable

Number	Substance	As discharged		
		Max. daily average (µg/l)	kg/day	kg/year
1	Atrazine			
2	Dichloromethane			
3	Simazine			
4	Toluene			
5	Tributyltin			
6	Xylenes			
7	Arsenic			
8	Chromium			
9	Copper			
10	Cyanide			
11	Fluoride			
12	Lead			
13	Nickel			
14	Zinc			
15	Boron			
16	Cadmium			
17	Mercury			
18	Selenium			
19	Barium			

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**TABLE D.1(iii)(a): EMISSIONS TO SURFACE/GROUND WATERS
(Storm Water Overflow) (1 table per discharge point)**

Discharge Point Code: **NOT APPLICABLE**

Source of Emission:	
Location:	
Grid Ref. (12 digit, 6E, 6N):	
Name of receiving waters:	
River Basin District:	
Designation of receiving waters:	
Flow rate in receiving waters:	<p>_____ m³.sec⁻¹ Dry Weather Flow</p> <p>_____ m³.sec⁻¹ 95%ile flow</p>

Emission Details:

(i) Volume emitted			
Normal/day	m ³	Maximum/day	m ³
Maximum rate/hour	m ³	Period of emission (avg)	_____min/hr _____hr/day _____day/yr

PT_CD	PT_TYPE	LA_NAME	RWB_TYPE	RWB_NAME	Designation	EASTING	NORTHING
SW01NCOB	Primary / Emeraency	Cork County Council	Transitional	Lee	RPA Species SPA & Nutrient Sensitive Waters	177535	67632

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