

**Response To Request For
Further Information
(Copy One)**

Waste Licence Application
W0229-01

Applicant

Goff Recycling Ltd
Ballyknockan
Kilrane
Rosslare Harbour
Co. Wexford

Prepared By



Dereen, Durrow, Co. Laois

Date

11th August 2006

11th August 2006

Licensing Unit,
Office of Licensing & Guidance,
Environmental Protection Agency,
Headquarters,
PO Box 3000,
Johnstown Castle Estate,
County Wexford

WO229-01

Re: Response to Letter of 20th June 2006

Dear Sir or Madam:

I refer to your letter of the 20th June 2006 requesting further information in relation to a Waste Licence application for a Waste Facility by Goff Recycling Ltd of Kilrane, Rosslare Harbour, Co. Wexford. Please find enclosed our response to this request in the form of an original and two copies. Also find enclosed two cds with details of the accounts in electronic searchable pdf format.

Should you have any further queries please don't hesitate to contact me at 087-2283771 or at 057-8736262.

Kind Regards,

Criostoir O'Brien
Waste Management Consultant (BSc Environmental Science)
Midland Environmental Services Ltd



Introduction:

The following information is in response to the letter dated 20th June 2006 from the EPA, requesting further information to be submitted regarding the Waste Licence Application by Goff Recycling, reference number W0229-01, for a Waste Facility at Kilrane, Rosslare Harbour, Co. Wexford. A revised non-technical summary based on the information included in this response can be viewed in Attachment 1.

Further Information Response:

1. Indicate the location of the activity on the OS Discovery Series Map.

A copy of the OS Discovery Series Map showing the location of the Goff Recycling Facility at Kilrane, Rosslare Harbour, Co. Wexford is attached in Drawing No. 1 “Map A (rev-A).” This map supersedes Map A submitted with the original application.

A second drawing, “Map B.2.1 - Rev A,” is also included in Drawing No.1. The site boundary is marked out in red and the grid reference E313215 N111026 is also marked out on the map. This map supersedes Map B.2.1 submitted with the original application.

2. Submit a copy of the drawing DWG01 referred to in Attachment F.

The drawing DWG01 referred to in Attachment F.4 “Sewer Discharge Monitoring,” is a textual mistake and should have referred to Drawing No. 2 “Site Layout Map,” (04,56/EPA 01) on the original application, which identified the position and layout of the proposed sewage system. This map has been revised and details of the proposed connection to the local sewage scheme are now outlined in response to Item 6. Drawings 04,56/EPA 05 (Option 1), 04,56/EPA 05 (Option 2), and 04,56/EPA 05 (Option 3) included with this response outline the three options for connection to the local sewage scheme or the installation of the treatment plant on site and its subsequent percolation area.

3. Submit a revised site layout map incorporating the location of the weighbridge office.

A revised Site Layout Map, “04,56/EPA 01 - Rev A,” showing the location of the weighbridge office is included in Drawing No. 2. This map supersedes Map “04,56/EPA 01,” submitted with the original application.

4. Submit a revised floor layout plan incorporating the revised location of the waste acceptance area, the waste quarantine area and the polystyrene compactor.

A revised Floor Layout Plan, “04,56/EPA 02 - Rev A,” showing the revised location of the Waste Acceptance Area, the Waste Quarantine Area, the Picking Line and the Spread Plastic Recycling Machine, is now included in Drawing No. 3. The Polystyrene Compactor previously identified as being located in Unit No. 2 is no longer in use and is being removed from the site. This map supersedes Map “04,56/EPA 02,” submitted with the original application.

Attachment Number	Title
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1	Revised Non-Technical Summary
2	Bunded Storage Units
3	Sewage Connection Letter
4	Spread Plastic Recycling Machine Details

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Attachment No. 1

Revised Non-Technical Summary

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Attachment No. 2

Bunded Storage Units

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Attachment No. 3

Sewage Connection Letter

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Attachment No. 4

Spread Plastic Recycling Machine Details

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5. Provide details of all oil and chemical storage on site and bunding arrangements for same. Include the locations in the revised floor layout plan.

The revised Floor Layout Plan, “04,56/EPA 02 - Rev A,” and the Ramp and Kerbing Plan, “04,56/EPA 04,” (Drawing No. 4) indicates the details for the storage of oil and chemicals on site and the requested bunding arrangements.

The Waste Quarantine Area in Unit No. 3 will hold any hazardous materials either solid or liquid until they can adequately be dealt with by an authorised waste collector. There will be a 150mm high concrete plint around bunded area that will prevent the escape of any liquids from the area. Suitable signage to indicate that it is a quarantine area will be posted at the location and no chemicals will be stored outside of this area. This area will be used to store hazardous items such as Fluorescent Tubes, Batteries, Waste Oil, or any other hazardous wastes identified while waste is being sorted at the facility.

In the workshop area, Unit No. 1, two bunded retention basins are being used to store 200 litre barrels of engine and hydraulic oil prior to them being used in the companies vehicles. The two units being used on site are Type AM-2 and Type AW 1000. Details of these two units can be viewed in Attachment 2 and the location of these units are identified in the Floor Layout Plan, “04,56/EPA 02 - Rev A.”

6. Submit a site drainage plan. Confirm when the proprietary treatment system and percolation area, as indicated in the site layout plan, are to be installed.

Drawings showing the surface water drainage plan for the site are included in Drawings No. 5, “04,56/EPA 01a Rev A,” and 6, “04,56/EPA 03 Rev A.” A new interceptor will be installed on site at the North Western corner of the site in order to accommodate the flow of surface water from this area. Surface Water from the North Western Boundary of the site will be diverted to the interceptors in the Glenfuels Site. Run off from the waste processing buildings, Units Number 2 and 3, will be diverted to the leachate holding tank at the North East End of Unit Number 3. Run off from these areas will be prevented from mixing with external surface water run-off by installing ramps at the entrance doors to Units number 2 and 3 along the north eastern boundary (Refer to Drawing No. 4 Ramp and Kerbing Plan). A gully and drain at the north eastern end of Unit Number 3 will collect run-off from inside the building and divert this to the holding tank outside the building. Run-off from the glass bay area will be diverted via an open drain and gully trap to the same holding tank. Details are included in the revised “Floor Layout Plan,” Drawing No. 3. Potential Run off from the Waste Quarantine Area will be prevented from mixing with leachate run off from the waste processing area as a 150mm high kerb will be placed around this area.

It is the intention of Goff Recycling Ltd not to install the proprietary treatment system and percolation area on site. Instead it is planned to pump the sewage and waste water from the canteen and offices via a sump pump to the local sewage scheme. There are two options which are being considered at present and details of the two options for the proposed layouts of the system to be installed can be viewed in Drawing No. 7. The two options are to pump from the site along the lane at the back and up the road towards Kilrane village, Drawing 04,56/EPA 05 (Option 1), or to pump down into the quarry and to pump up to the housing development next to the quarry, Drawing 04,56/EPA 05 (Option 2).

The pipework for the local sewerage scheme has been laid but the treatment plant has yet to be installed and commissioned, therefore Goff Recycling are awaiting permission to link into this pipe network so confirmation on which option that they will be proceeding with cannot be given as of yet. If Goff Recycling cannot establish a connection into the local sewage scheme due to delays in seeking permission, they will install the treatment plant and percolation area on-site, Drawing 04,56/EPA 05 (Option 3), within the next twelve months. A letter from Goff Recycling Ltd confirming the same is included in Attachment 3.

7. Provide full details of the picking line and the spread plastic recycling machine including the location of each on the revised floor layout plan.

Picking Line:

The picking line is designed to separate material for recycling and disposal from waste material tipped onto the floor of the transfer station. The material is loaded into the Loading Hopper and travels up along the incline conveyor and onto the picking belt. Material is then picked as it passes along the belt and dropped into the bays below the picking line. Bay 1 stores timber, bay 2 stores mixed plastic, bay 3 stores cardboard and paper, bay 4 is for rubbish and bay 5 is for mixed metal. When these bays are full the material is loaded into a skip or ejector trailer and transferred to authorised landfill or recovery facilities for recycling or disposal.

A tipping skip is used to place concrete and stone into and this is located on the floor in front of the storage bays.

The layout of the picking line is shown in Drawing No. 8 and its position on site is shown on the revised Floor Layout Plan, Drawing No. 3.

Spread Plastic Recycling Machine:

The spread plastic recycling machine is designed to accept polystyrene foam in order to reduce its size and make it more compact and economical for transport for recycling.

The layout of the Spread Plastic Recycling Machine is shown in Drawing No. 9 and its position on site is shown on the revised Floor Layout Plan, Drawing No. 3.

**ATTACHMENT A
NON TECHNICAL SUMMARY
REVISION A**

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General Description of the proposed development:

Goff Recycling Ltd. have operated a waste collection and management service at the site since the start of 2004. The site is located in the townland of Ballygillane Big / Ballyknockan, St Helens, Kilrane, Rosslare Harbour, County Wexford approximately 2 km south west of Rosslare Harbour and 5 km south east of Rosslare town. The site is located in an existing business park (Kilrane Business Park). It is proposed by Goff Recycling Ltd to apply to the Environmental Protection Agency (EPA) for a Waste License to operate a waste management facility to handle household waste, similar commercial and industrial wastes (all non hazardous types) and waste electrical and electronic equipment materials (WEEE).

The site comprises of 4 x unit buildings as follows: Unit 1 functions as a garage area and small workshop (for routine maintenance of the waste collection vehicles), Unit 2 is used to store segregated and baled waste materials and Unit 3 acts as transfer station building for acceptance and handling of incoming non hazardous waste. A weighbridge, concrete yard areas with ancillary drainage provisions and an administration building which functions as a reception, record keeping, canteen and toilets building are also located on-site. The surface is a mixture of hardstanding and concrete in places. The waste management site has been in operation for approximately 2 years. The site entrance is appropriate to the nature and scale of operations.

The existing site has planning permission granted since 19th July 2005 for the existing unit buildings. The waste management facility also has a current waste permit issued to it from Wexford County Council (since December 2004). Maps A (Rev A) and A.1 show the location of the site.

12. (1) Subject to sub-article (2), in the case of an application for a waste licence, the application shall -

- (a) Give the name, address and, where applicable, any telephone number and telefax number of the applicant (and, if different, the operator of the facility concerned), the address to which correspondence relating to the application should be sent and, if the applicant or operator is a body corporate, the address of its registered office or principal office,**

This application is been made for Goff Recycling Ltd, Ballygillane Big / Ballyknockan, St Helens, Kilrane, Rosslare Harbour, County Wexford. This facility will be run, owned and operated by Goff Recycling Ltd as a focal point for their waste collection business. Goff Recycling Ltd . is a registered company reference number: 384006 with a company address at same as above. Mr Criostoir O'Brien of Midland Environmental Services Ltd, Dereen, Durrow, Co. Laois in conjunction with Enviroco Management Ltd. O'Moore Street, Tullamore, Co Offaly has carried out this application.

(b) Give the name of the planning authority in whose functional area the relevant activity is or will be carried on,

The existing waste management site is situated in Ballygillane Big / Ballyknockan, St Helens, Kilrane, Rosslare Harbour, County Wexford and is subject to Wexford County Council's authority. Details of the site Planning Permission, site Waste Management Permit and Goff Recycling Ltd's Waste Collection Permit have all been included for inspection in the Appendices.

(c) In the case of a discharge of any trade effluent or other matter (other than domestic sewage or storm water) to a sewer of a sanitary authority, give the name of the sanitary authority in which the sewer is vested or by which it is controlled,

No trade effluent will be discharged to sewer of a sanitary authority or other body for the following reasons.

All domestic effluent generated on-site is proposed to be handled as per one of the following options:

- All domestic sewage and waste water from the canteen and offices will be discharged to the local sewage scheme (once the scheme is in place by Wexford County Council)
- or
- All domestic sewage and waste water from the canteen and offices will be discharged to a waste water treatment plant with percolation area to be provided by the applicant.

The deciding factor on these two options will be the timely provision by Wexford County Council of the sewage scheme facilities. If this does not occur then Goff Recycling Ltd will provide their own system as detailed above.

All surface water run-off from outside yard areas at the existing waste management site will be directed to a silt trap with an interceptor before discharge to a land drain.

Effluent run-off from the truck washing area will flow into the silt trap followed by an interceptor unit before discharge to a land drain.

All water from roofed buildings will be directed to surface water holding tanks before being directed to the land drain separately.

Any liquid run-off generated at Unit 3 (waste acceptance and processing building) will be collected in an underground holding tank. The level of run-off will be manually monitored weekly and when full the tank will be emptied by an authorised liquid waste disposal operator. This waste will be delivered to a local authority wastewater treatment plant or for incineration abroad.

- (d) Give the location or postal address (including, where appropriate, the name of the townland or townlands) and the National Grid reference of the facility or premises to which the application relates,**

The waste management facility will be located in Ballygillane Big / Ballyknockan, St Helens, Kilrane, Rosslare Harbour, County Wexford, this can be found on a 25 inch Ordnance Survey Map at grid reference E313215 N111026, see Figures A and A.1 attached.

- (e) Describe the nature of the facility or premises concerned, including the proposed capacity of the facility or premises and, in the case of an application in respect of the landfill of waste, the requirements specified in Annex 1 of the Landfill Directive,**

The facility currently operates as a Materials Recovery Facility under a Waste Management Permit Ref. No. WP/04/12 issued by Wexford County Council. This facility currently deals with approximately 10,800 tonnes of municipal waste sourced from commercial/industrial/construction and demolition clients and some household skip waste. Collected waste is sorted into recyclable and non-recyclable goods. Recyclable goods are sent off site for final recycling after they have been correctly sorted. Non-recyclable goods are sent to registered landfill, or other licensed facilities for further treatment or disposal. The majority of waste is handled in this way.

As part of future proposed site operations, Goff Recycling Ltd proposes to accept waste electrical and electronic equipment materials (WEEE) at Unit 2 building at the site for storage prior to off-site removal for recovery operations. It is proposed through site improvements and future site operations, that this waste management facility will be able to process 23,000 tonnes per annum of non-hazardous waste and WEEE by 2009.

- (f) Specify the class or classes of activity concerned, in accordance with the Third and Fourth Schedules of the Act and, in the case of an application in respect of the landfill of waste, specify the class of landfill in accordance with Article 4 of the Landfill Directive.**

The principal class of activity to which the licence application relates to is;

Class 13 of the Third Schedule (Waste Disposal Activities) of the Act: 'Storage prior to submission to any activity referred to in this schedule, other than temporary, pending collection, on the premises where the waste concerned is produced'.

Non Technical Description: This relates to the storage of domestic, commercial and industrial residual wastes which will be stored in forty foot ejector trailers on site prior to transfer to other EPA licensed transfer stations or landfill facilities for further recovery or disposal.

Consequently, other activities carried out on site include;

Class 11 of the Third Schedule (Waste Disposal Activities) of the Act: 'Blending or mixture prior to submission to any activity referred to in this schedule'.

Non Technical Description: This relates to the mixing of domestic, commercial and industrial residual wastes on the floor of the transfer station building before being placed into articulated 40 foot ejector trailers to await transfer to other authorised facilities for disposal.

Class 12 of the Third Schedule (Waste Disposal Activities) of the Act: 'Repackaging prior to submission to any activity referred to in a preceding paragraph of this Schedule'.

Non Technical Description: All waste being handled at the facility is delivered to the site in refuse collection vehicles, skips or wheeled bins. This activity relates to the residual waste which remains after the recyclables are picked out and which is then repackaged into ejector trailers for transfer to authorised landfills or waste transfer facilities.

Class 2 of the Fourth Schedule (Waste Recovery Activities) of the Act: 'Recycling or reclamation of organic substances which are not used as solvents'.

Non Technical Description: This relates to the segregation and sorting of timber waste and green waste removed from domestic, commercial, industrial and construction and demolition wastes tipped onto the floor of Unit 3 building. This also relates to the removal of cardboard and paper waste from the waste tipped onto the floor of Unit 3 building before being baled for storage prior to transfer to authorised recyclers. Acceptance of soil waste (uncontaminated) so that it can be re-used or recovered off-site is included here.

Class 3 of the Fourth Schedule (Waste Recovery Activities) of the Act: 'Recycling or reclamation of metals or metal compounds'.

Non Technical Description: This relates to the removal of metal from domestic, commercial, industrial and construction & demolition wastes tipped onto the floor of Unit 3 building. This metal waste is then placed into a skip bin prior to removal to authorised metal recyclers. This also related to the acceptance and temporary storage to waste electrical and electronic equipment (WEEE waste) prior to removal to authorised WEEE recyclers.

Class 4 of the Fourth Schedule (Waste Recovery Activities) of the Act: 'Recycling or reclamation of other inorganic materials'.

Non Technical Description:

This relates to the acceptance and segregation of plastic film and polystyrene from domestic, commercial, industrial and construction & demolition wastes tipped onto the floor of Unit 3 building before being baled for storage prior to transfer to authorised recyclers.

This also relates to the segregation of mixed construction and demolition wastes into its constituents parts i.e. metal, timber, cardboard, soil and stones. These waste streams are then stored before transfer to authorised recyclers or facilities for recovery.

Glass bottles are also removed from domestic, commercial, industrial and construction & demolition wastes tipped onto the floor of the transfer station. This glass is then stored in concrete bays outside Unit 3 and when sufficient volumes are available the glass is loaded into skips for transfer to authorised glass recyclers.

Finally, this activity relates to the acceptance of waste electrical and electronic materials (WEEE waste) and temporary storage prior to off-site removal to authorised facilities.

Class 13 of the Fourth Schedule (Waste Recovery Activities) of the Act: 'Storage prior to submission to any activity referred to in this schedule, other than temporary, pending collection, on the premises where the waste concerned is produced'.

Non Technical Description: This relates to the storage of segregated and recovered waste streams i.e. cardboard, metal, timber, plastic, glass, soil and stones and WEEE waste before transfer to authorised facilities for recycling.

- (g) Specify, by reference to the relevant European Waste Catalogue codes as presented by Commission Decision 2000/532/EC of 3 May 2000, the quantity and nature of the waste or wastes which will be treated, recovered or disposed of,**

Goff Recycling Ltd, currently accepts Mixed Construction & Demolition Waste, Commercial & Industrial Waste (Skips) and Household Skips are accepted at the facility.

Proposed future operations include the acceptance of commercial wheelie bins and domestic wheelie bins waste being collected in refuse trucks and bulking this waste in trailers for off-site recovery and/or landfill. Goff Recycling Ltd also proposed to accept and store WEEE materials at Unit 2 building at the site prior to off-site removal for recovery operations.

Waste Type (all non hazardous wastes)	EWC Code	Quantity
Municipal Domestic	20 03 01	5,000
Commercial/ Industrial	20 01 00	4,000
Commercial/ Industrial packaging waste	15 00 00	4,000
Construction and Demolition (including Soil/Stone/ Rubble)	17 00 00	4,000
Industrial Non-hazardous	20 01 00	4,000
WEEE materials	20 01 00 / 16 02 00	2,000

After arrival these wastes are sorted into constituent fractions ready for recycling, recovery or disposal.

From time to time other EWC codes may be used to describe each of the four main waste types accepted at the facility. A full list of possible EWC codes to be accepted at the facility is included in Appendix 8 to this application.

(h) Specify the raw and ancillary materials, substances, preparations, fuels and energy which will be utilised in or produced by the activity,

The raw material for the facility is the waste generated from off site domestic, industrial, commercial and construction/demolition operations.

Bulk waste arrives onto the site and separated waste fractions are achieved on site, these separated fractions, where recovery cannot be achieved, are sent for further disposal or treatment at other licensed facilities.

White and green diesel fuel will be required on the site for the operation of the machinery and to fuel waste collection vehicles (skip trucks). Hydraulic oil, grease and gear oil will be used to power hydraulic rams, lubricate mechanical moving parts and general maintenance of site equipment and waste collection vehicles. Antifreeze will be used to prevent cooling waters in machinery and waste collection vehicles from freezing.

Paint and thinners will be used off-site only for painting of skips, plant equipment and waste collection vehicles.

Rat poison will be on site to control vermin.

Acetylene and oxygen gas will be used in the cutting and heating of metal on site (inside the garage/workshop area).

Over 85% of the material usage to be utilised by Goff Recycling Ltd will occur in the use of the haulage vehicles. This will be minimised by the regular maintenance of the vehicles and updating of the fleet with modern equipment when possible, to utilise less material.

Site material usage will be minimised through regular maintenance, activation of heavy equipment (balers) only when sufficient volumes of material are available to process. This will further reduce the volume of material used site and thus reduce energy consumption. Three phase power generators will only be used when the plant on site is required to process waste materials.

(i) Describe the plant, methods, processes, ancillary processes, abatement, recovery and treatment systems and operating procedures for the activity,

All incoming municipal waste loads (skip waste) are weighed-in then tipped inside the Unit 3 building for visual inspection. Any potential hazardous materials are identified and quarantined for specialised hazardous waste contractors. A mixture of mechanical equipment and manual handling achieves segregation of the waste. Waste material is first subjected to mechanical separation by a grab. The manual sorters on the floor of the building then pick out recoverable fractions that are not separated by these methods. All recovered materials are sent off-site for further recycling to various contractors and recycling industries. Unredeemable material is removed from the facility and sent to landfill or other licensed disposal.

Future operations;

- All domestic waste and similar commercial wheellie bin waste will be accepted in Unit 3 building. This waste will be tipped on the floor and visually inspected for any unauthorized waste. This waste will then be bulked into a trailer for off-site removal to further recovery operations or landfill disposal.
- A mechanical 'picking line' waste separation system will be used for commercial and industrial waste for sorting recyclable from disposal waste. In this instance, the waste is loaded into a hopper and moved by conveyor belts along a picking line. Sorters then separate plastic, cardboard, paper, timber and metals from the waste into bays for storage prior to recycling off-site. All other materials are placed in a bay for disposal off-site.
- WEEE materials are to be accepted at Unit 2 building for storage prior to off-site recovery.

-
- (j) Provide information for the purpose of enabling the Agency to make a determination in relation to the matters specified in paragraphs (a) to (i) of section 40(4) of the Act,**
- (a) Emissions (noise, dust, water, odour) from the operation of this facility by Goff Recycling Ltd will not result in the contravention of any relevant standard. Controls will be put in place to limit or eliminate the emissions and regular monitoring carried out to ensure that these control measures are working effectively.
- (b) Environmental pollution will not occur for the following reasons:
- All municipal waste tipping will occur within Unit 3 building under controlled conditions
 - There will be no fuel and oil storage within the facility
 - All on-site domestic effluent will be either directed to the proposed County Council sewer network or pass through a waste water treatment system before discharge to percolation.
 - All surface water run-off from outside yard areas will be treated by an interceptor with silt trap before entering a holding tank and eventual discharge to land drain.
 - Noise, dust and odours will be controlled and monitored accordingly.
- (c) The Best Available Technology Not Entailing Excessive Cost (BATNEEC) will be used to prevent, eliminate and control emissions from the activity concerned. The activity is consistent with the objectives of the relevant waste management plan.
- (d) Goff Recycling Ltd are fit and proper to hold a waste licence as defined by the EPA
- (e) In the event of decommissioning the facility, Goff Recycling Ltd will follow the procedures as defined under the granted licence. A financial bond will be entered to ensure funds will be available to carry out such works as are needed.
- (f) Energy consumption is estimated at 85% for vehicles and 15% for the plant. Vehicles and machinery will be regularly maintained to prevent wear and tear that can lead to increased energy consumption.
- (g) Noise emissions from the site are not deemed to have a nuisance effect on the surrounding environment. The future developments of this facility are not deemed to pose any notable increase in noise emissions at Noise Sensitive Locations.
- (h) There are a number of structures on site to prevent accidents occurring which will have an effect on the environment. In the event of an accident, procedures have been put in place to limit the consequences to the environment. Details of these procedures are contained in Attachment J.1.a “*Accident Prevention*” and J.1.b “*Emergency Response*”
- There are 4 contingencies that must be allowed for when operating a Solid Waste Transfer Facility:
1. Operational failure of plant and equipment
 2. Breakdown of transfer/transport system
 3. Industrial action by operational staff
 4. Fire in the Facility

Details of each contingency are dealt with in more detail in Attachment J.1.c “Contingency Arrangements”

- (i) Measures to decommission the site in the event of the cessation of all or part of the activity are described in Attachment K.1 “Remediation, Decommissioning, Restoration and Aftercare”
- (k) Give particulars of the source, location, nature, composition, quantity, level and rate of emissions arising from the activity and, where relevant, the period or periods during which such emissions are made or are to be made,**

There are no direct discharges associated with the operation of this facility. Some air emissions will occur from the combustion engines of items of plant and equipment as will associated noise from machinery operations.

Water and wastewater stream flows are outlined in section 12.(1).c

Noise emissions will occur with the movement of vehicles on site and vehicles entering and leaving the site. The operation of the balers and associated equipment will also increase ambient noise levels. This equipment is to be stored and used in Unit 2/3 buildings and only to be used when sufficient material is present to continually operate the machinery. Noise monitoring carried out did not find excessive noise levels at the nearest noise sensitive locations.

Odours may arise due to the decomposition of organic material, Goff Recycling Ltd will accept such wastes as part of the mixed municipal waste, though this waste will only be stored on site for short period before transportation to licensed facilities off-site, this will reduce potential odour arisings. No odours are expected from the acceptance of WEEE materials at the site.

- (l) give details, and an assessment of the effects, of any existing or proposed emissions on the environment, including any environmental medium other than that into which the emissions are, or are to be, made, and of proposed measures to prevent or eliminate or, where that is not practicable, to limit or abate such emissions,**

Air emissions will be minimised by maintaining machinery to a good and proper standard; installation of a dust control schedule will be initiated to prohibit any potential dust emissions.

Emissions to surface water will occur as follows:

Surface water run-off from the concrete yard area at the front of Units 1, 2 and some from Unit 3 will be diverted by the existing drainage channel and road gullies to the Glenfuels site (located off-site).

Surface water run-off from outside areas north of Unit 3 will be diverted via open drainage channels to an interceptor unit on-site (north-east corner) before discharge to land drain.

Rain run-off from all building roofs will enter the same land drain directly.

Waste water run-off from the proposed truck wash area will enter a silt trap prior to being discharged off-site to the Glenfuels interceptors system.

Domestic sewage (from site toilets) and canteen waste water will be passed either through a wastewater treatment unit before entering a percolation area at the site or to sewer (provided Wexford County Council sewer facilities are in place)

It is not seen as likely that the Goff Recycling Ltd site will have any significant impact on the quality of the surface water or groundwater in the region.

To further protect the groundwater in the locality the following considerations have been put in place:

- Storm water drainage system is been improved and further concrete areas will be put in place,
- On-site collection of leachate and washings from within Units 2&3 in an underground holding tank.
- All surface water drainage from the outside glass storage area will be collected in the same holding tank for appropriate storage.
- No liquid or hazardous wastes will be accepted at the facility.
- No heating oil or diesel storage will occur at the facility.
- All waste streams will be stored inside buildings with the exception of a skip for non hazardous metals storage.

No list I or II substances have been discovered in the groundwater and there is no indication of industrial pollution in the local groundwater environment.

Dust, odour and noise emissions from the loading, unloading and storage of waste. Dust will be minimised by:

- Waste acceptance and handling inside the building units
- Dampening dusty waste during unloading
- Covering of external dusty wastes stock piles

-
- Sweeping and washing of the building units regularly
 - Washing of waste collection vehicles
 - Use of road sweeper on the facility yard during dry conditions
 - Incorporation of mitigation measures as recommended by the EPA or Planning Authority.

As no waste is disposed of on-site and only temporary storage will be occurring of domestic waste, odour is not seen as a likely issue.

From noise monitoring carried out in and around the locality of the Goff Recycling Ltd site, it is not deemed that on-site noise is a cause of nuisance to the local environment or at noise sensitive locations. Waste operations will occur inside the various unit buildings to minimise possible noise pollution from site operations.

Any spills / dirty water that may occur inside Unit 3 will be directed to an underground storage tank on-site. This will be pumped out at regular intervals and sent off-site to a licensed facility for proper treatment.

(m) Identify monitoring and sampling points and indicate proposed arrangements for the monitoring of emissions and the environmental consequences of any such emissions,

A full range of parameters will be sampled for as regarding surface water emissions on the site. Surface waters will be sampled every 3 months. To ensure the efficiency of the on-site interceptor unit.

No groundwater monitoring will occur at the site.

The emissions to land drains will be treated prior to discharge and are not deemed to pose any risk to the local environment. If emission levels become a concern further abatement measures will be considered.

(n) Describe any proposed arrangements for the prevention, minimisation and recovery of waste arising from the activity concerned,

This site operates as a waste management facility. The main wastes arising from this activity is that of the imported material for sorting and transfer to relevant recycling/disposal facilities. This is detailed in section 12.1.o. All recyclable waste arriving at the facility will be segregated as much as is possible for off site recovery. The waste management facility will operate in an efficient and productive manner.

All internal waste arising from the operation of the facility such as canteen waste of workers and packing waste from materials being used (e.g. plastics, metals, cardboard etc) will be recovered as much as is possible and/or disposed of off-site in conjunction with other wastes.

(o) Describe any proposed arrangements for the off-site treatment or disposal of solid or liquid wastes,

Solid waste (sludge) collected from the on-site domestic wastewater treatment system is to be sent to the nearest Local Authority Waste Water Treatment Plant.

Collected liquid in the underground storage tank outside Unit 3 will be taken at regular intervals during the year by a licensed hazardous waste collector.

Licensed operators will collect waste water and oil mixtures collected in the interceptor unit and the silt traps regularly to ensure prime effectiveness of the units.

After sorting, mixed wastes will be dealt with accordingly:

- Timber that is collected, after sorting on site, will be transported to either Kiawah Ltd, Old Turf Yard, Ballybeg, Littleton, Co Tipperary or O'Donnell Recycling, Clonmel, Co Tipperary for recovery
- Metal will be placed in a skip bin and transported to M.S.M Recycling, Harbour street, Mountmellick, Co Laois for recycling.
- Cardboard and plastics are baled separately on site and exported to Alternative Waste Solutions Ltd, England and CWS Recycling, Mountmorris, Co Armagh for recycling.
- Newsprint is collected, sorted and exported to Sudbrook Mill, UK for recycling.
- Glass (bottles) are sorted on-site according to colour in concrete storage bays (green, brown and clear) sent to Glassco Recycling, 22 South William Street, Dublin 2 for recycling.
- Mixed municipal waste (non-recyclable materials) and domestic refuse that may arrive on-site as part of future operations will be bulked into ejector trailers and transported to some of the following locations for further processing:

Greenstar Recycling Ltd sites at;

KTK, Kilcullen, Co Kildare,
Fassaroe, Bray, Co Wicklow.

Ballyogan Recycling Park, Ballyogan Road, Carrickmines, Dublin 18

Greyhound Waste site at Reduce, Re-Use & Recycling Ltd, Waste Management Centre, Knockmitten Lane, Western Industrial Estate, Dublin 12.

- WEEE materials will be sent for further recovery to authorized facilities.
- Hazardous waste (batteries, paints, fluorescent tubes, oil, fridge's, freezers, washing machines, tyres, and gas bottles) that may arrive on site from time to time as an abnormal occurrence, will be quarantined and transferred to authorised facilities for recycling and disposal.

- (p) Describe the existing or proposed measures, including emergency procedures, to prevent unauthorised or unexpected emissions and minimise the impact on the environment of any such emissions,**

All waste will go through a waste inspection process to ensure proper inspection of all incoming wastes. Any unauthorised or hazardous materials that arrive on the site are directed to a quarantine area, where they are securely kept until licensed contractors can remove them. Any liquid run-off occurring during tipping of skips is stored in the 3,000 litre underground holding tank outside Unit 3 building.

All areas where waste is accepted and handled is covered in concrete to prevent any spills entering the ground. Such spills are directed to the underground holding tank where they can be safely collected and licensed contractors can collect and remove the liquid.

Regular monitoring of site nuisances such as litter, vermin, and odour are carried out to ensure levels are not problematic and to instigate remediation measures where monitoring acknowledges trigger levels.

An Environmental Management System (EMS) will be installed at the facility upon granting of the waste license to organise and further update and expand present environmental procedures.

No fuel tanks or heating oil tanks are stored or proposed for the facility. All heating inside buildings is powered by electricity.

All domestic sewage from the on-site offices and staff amenities will pass through a proprietary treatment system for treatment and then to percolation or to a County Council sewer network depending on provision of such facilities by the Council.

All surface water run-off from outside concreted areas will be treated as follows;

Surface water run-off from the concrete yard area at the front of Units 1, 2 and some from Unit 3 will be diverted by the existing drainage channel and road gullies to the Glenfuels site (located off-site).

Surface water run-off from outside areas north of Unit 3 will be diverted via open drainage channels to an interceptor unit on-site (north-east corner) before discharge to land drain.

Rain run-off from all building roofs will enter the same land drain directly.

Waste water run-off from the proposed truck wash area will enter a silt trap prior to being discharged off-site to the Glenfuels interceptors system.

Emergency Spill Response Procedure

- If a spill occurs quickly mop it up using available rags or absorbent from the spill kit situated in the transfer station building
- Inform the immediate workers in the area of the spill to ensure no further accidents by slipping
- In the event of a significant spill of material, the Facility Manager is informed immediately.

Due to the nature of materials handled at the facility, potential spills are a rare occurrence;

- No liquid waste are to be accepted at the facility.
- No fuel or heating oil is stored at the facility.

Contingency Arrangements

There are four contingencies that must be allowed for in the operation of a Waste Transfer Facility

- 1 Operational failure of plant and equipment
- 2 Breakdown of transfer/transport system
- 3 Industrial action by operational staff
- 4 Fire in the facility

Contingencies 1 to 3

Immediate diversion of waste directly to landfill (if no other choices are available) will occur to minimise possible environmental damage. Under no circumstances will a situation arise whereby waste will be accepted into the facility when the means to transfer the waste after a period not exceeding 60hrs is not available.

In the situation whereby the facility is not operational, and therefore ceases to act as the waste acceptance point for the landfill, the procedures for applying waste acceptance criteria will be undertaken at the landfill itself.

Operational Failure of Plant and Equipment

It is the responsibility of the Facility Supervisor to inspect the plant and equipment each day and ensure it is operational. In the event of operational failure the Managing Director will be informed of the status of the plant and equipment and they shall arrange for immediate repair or replacement of the equipment.

The 'Boa Baler' plant will affect cardboard and paper waste only, most of this waste can be stored on the floor of Unit 2 building until equipment is again operational.

The polystyrene shredder and baler combo plant is used only for polystyrene shredding and baling. Polystyrene materials can be temporarily stored inside Unit 3 building until the equipment is again fully operational. Only small amounts of polystyrene are accepted at the facility and the shredder/baling plant is not in constant use at the facility.

Teleporters and various mobile plant for waste handling and moving will be replaced immediately by rentals or back-up plant should equipment failure occur.

In addition there is adequate space for waste materials storage inside Unit 2 building and also inside Unit 3 building should short term overflow space be required.

Breakdown of Transfer/Transport System

Should site teleporters malfunction then rentals can be used in the short term or a back-up of such plant. Goff Recycling Ltd have two ejector trailers of their own which are used frequently. Should these items of plant malfunction then an outside haulage company (fully permitted as appropriate) may be used for short term waste movements off-site.

Industrial Action by Operational Staff

In the event of industrial action by operational staff at the facility, waste will be diverted direct to landfill and will not be accepted into the facility when the means to transfer the waste is not available.

Contingency 4

The main fire risks associated with the operation of the facility are:

Within haulage truck

In the waste inspection area

In the waste in the waste processing machinery

Due to electrical fire within the waste processing machinery.

In the event of a localised fire on-site the fire will be controlled as per the Fire Requirements in the Fire Regulations. For a major fire on-site the local fire-fighting emergency service will be called to control the fire. The Waste Transfer Facility will remain closed after such an event until it has been deemed safe to resume operations again. Fire water used in fighting a fire will be contained inside the buildings which will be controlled by localized bunding measures and ensured by staff training.

(q) Describe the proposed measures for the closure, restoration, remediation or aftercare of the facility concerned, after the cessation of the activity in question,

This site will not require remediation. The concrete yard and flooring system will inhibit the entrance of contaminants into the underlying soil and groundwater. Interceptor units and drainage gullies will collect pollutants before they can reach land drains in the area.

At present it is the intention of the Goff Recycling Ltd to operate this facility for the foreseeable future. Should part of the activity cease to operate a review of the licence with the EPA to reflect the change will be arranged. Decommissioned equipment will be removed be removed from the site to an appropriate disposal or recovery facility.

Should all activities cease to be at the Facility, Goff Recycling Ltd will enter into a review of the waste licence with the EPA in order to surrender the waste licence. The following actions will be carried out to ensure the site is free of contamination and of continuing emissions:

- All recovered soil as a result of site activities will be removed and deposited in permitted land reclamation activities.
- All recovered stone and rubble will be crushed and removed from the site and transferred to permitted land reclamation activities.
- All timber will be bulked into containers and transferred to permitted or licensed wood recyclers.
- All glass packaging stored in bays and skips on site will be removed to permitted or licensed glass recycling facilities.
- All scrap metal will be removed from the site to permitted metal recyclers.
- All baled cardboard, mixed paper and plastic will be loaded onto a 40 foot curtain side trailer and transferred to an authorised recycler.
- All quarantined materials i.e. batteries, fluorescent tubes, gas bottles, drummed liquids and tyres will be removed from the site by authorised companies for appropriate disposal/further treatment.
- All waste receptacles i.e. skips, wheeled bins, refuse collection vehicles, skip eaters and trailers will be examined for any remaining residual wastes which will be removed and placed into the 40 foot ejector trailers along with any remaining residual waste left on site. This will then be delivered to licensed landfills for disposal or Transfer Facilities for further processing.
- All Waste Handling and storage equipment and vehicles will be removed from the site either by selling them and or dismantling them and recovering them by an approved metal recycler.
- No fuels are stored at the facility, therefore no fuel tanks and bunds will need to be decommissioned.
- The silt trap, interceptor and retention tank will be examined and cleaned out by approved contractors.
- The gates to the facility will be locked and security measures implemented to prevent scavenging on site after it is decommissioned.

This decommissioning process will make the site a safe, usable Brownfield site appropriate for any commercial activity within the confines of the existing business park.

Any decommissioning procedures will be agreed with the EPA in advance should all or part of the activity cease to operate.

To financially underwrite the decommissioning of the activities on the site an appropriate bond will be set by Goff Recycling Ltd with an approved insurance company or banking facility. The details and value of the bond will be agreed with the EPA in advance of the waste licence being issued.

- (r) In the case of an application in respect of the landfilling of waste, give particulars of -**

No waste disposal will be occurring on site.

- (i) Such financial provision as is proposed to be made by the applicant, having regard to the provisions of Articles (7)(i) and (8)(a)(iv) of the Landfill Directive and section 53(1) of the Act, and**

No disposal of waste is to occur on site.

- (ii) Such charges as are proposed or made, having regard to the requirements of section 53A of the Act,**

No disposal of waste is to occur on site.

- (s) State whether the activity is for the purposes of an establishment to which the European Communities (Control of Major Accident Hazards Involving Dangerous Substances) Regulations 2000 (S.I. No. 476 of 2000) apply,**

No dangerous substances are to be collected, treated or stored for long periods on site. Some hazardous wastes may be found during normal operations as part of municipal waste loads being accepted, such wastes will be quarantined and licensed waste contractors will be brought in to take such wastes on regular bases. The European Communities (Control of Major Accident Hazards Involving Dangerous Substances) Regulations 2000 do not apply to such facilities.

- (t) In the case of an activity which gives rise or could give rise to an emission into an aquifer containing the List I and II substances specified in the Annex to Council Directive 80/68/EEC of 17 December 1979, describe the existing or proposed arrangements necessary to give effect to Articles 3, 4, 5, 6, 7, 8, 9 and 10 of the aforementioned Council Directive,**

No list I or list II substances are to be accepted or treated on site.

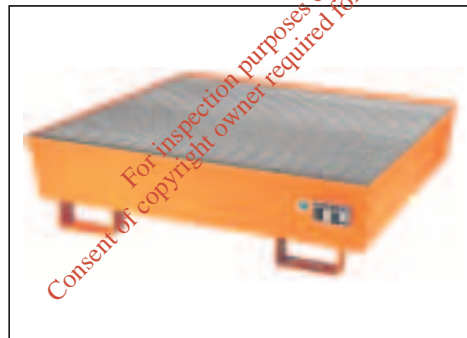
RETENTION BASINS TYPE AM



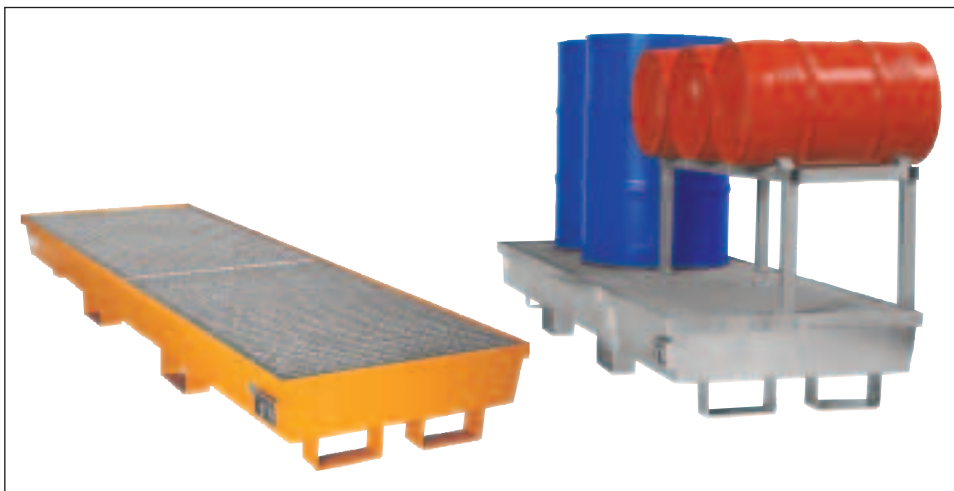
Type AM-2



Type AM-1



Type AM-4/A



Type AM-4/B

Type AM-4/B galvanized, with drum stand type FA 60-3

Type	No. of drums	Dimensions in mm (l x w x h)	Retention capacity in l	Weight painted in kg
AM-1	1	800 x 800 x 545	229	66
AM-2	2	1200 x 800 x 415	246	76
AM-4/A	4	1200 x 1200 x 335	280	99
AM-4/B	4	2400 x 800 x 285	280	122

Use

- storage of 1-4 x 200 litre drums

Design

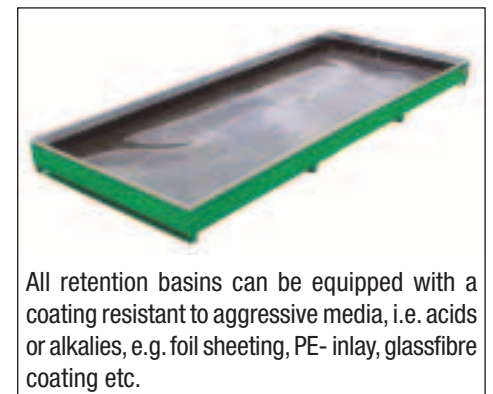
- conical construction
- can be stacked in one another
- strengthened by reinforced edging on both sides
- galvanized grid
- stirrups, 100 mm ground leeway
- for use with a pallet- or fork-lift truck

Finish

- spray painted:
 - orange RAL 2000
 - red RAL 3000
 - blue RAL 5012
 - green RAL 6011
 - grey RAL 7005
- hot-dip galvanized (EN ISO 1461)

Accessories

- PE inlay
- foil sheeting
- fibreglass coating
- stainless steel grid
- synthetic grid
- drum stand, type FA for 60 or 200 litre drums



All retention basins can be equipped with a coating resistant to aggressive media, i.e. acids or alkalies, e.g. foil sheeting, PE- inlay, glassfibre coating etc.

Individual construction on request



- for flammable liquids carrying the symbols F / F+
- liquids classified as 1-3 "WGK"

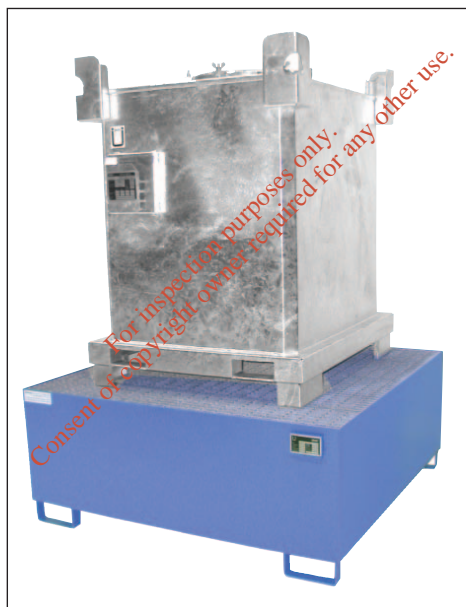
RETENTION BASINS TYPE AW



Type AW 1000-2, for 2 x 1000 litre IBCs



Type AWA 1000, for 1 x 1000 litre IBC



Type AW 1000, for 1 x 1000 litre IBC



Type AWA 1000-2, for 2 x 1000 litre IBCs

Use

- storage of drums or containers (IBC)

Design

- made of 3 mm steel sheeting
- hot-dip galvanized grid
- stirrups, 100 mm ground leeway

Finish

- spray painted:
 - orange RAL 2000
 - red RAL 3000
 - blue RAL 5012
 - green RAL 6011
 - grey RAL 7005
- hot-dip galvanized (EN ISO 1461)

Accessories

- PE inlay
- raised platform with grid

Individual construction on request

- e.g. stainless steel



Type AW 800, for 4 x 200 litre drums

Type	Dimensions in mm (l x w x h)	Retention capacity in l	Load capacity in kg	Weight painted in kg
AW 450	1460 x 1460 x 355	450	855	144
AW 800	1460 x 1460 x 525	800	1520	165
AW 1000	1460 x 1460 x 620	1092	1900	180
AW 1000-2	2650 x 1300 x 435	1135	3800	236
AWA 1000	1460 x 1460 x 1083	1000	1900	199
AWA 1000-2	2650 x 1460 x 883	1000	3800	283

U

StawaR
RWTÜV

- for flammable liquids carrying the symbols F / F+
- liquids classified as 1-3 "WGK"



Goff Recycling Ltd

Kilrane • Rosslare Harbour • Co. Wexford
Tel: 053 61663/61667 Fax: 053 33818
Email: info@goffrecycling.ie

11th August 2006

Dr. Karen Creed,
Inspector,
Office of Licencing and Guidance
Environmental Protection Agency,
Headquarters, PO Box 3000,
Johnstown Castle Estate,
Co. Wexford

Re: Waste Licence Application W0229-01

Dear Ms. Creed,

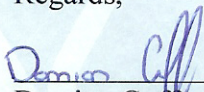
Regarding our application for a Waste Licence for a Facility at Kilrane, Rosslare Harbour, Co. Wexford, I would like to confirm the following in relation to the treatment of canteen and office wastewater from our site.

At present the pipe work for the local sewage scheme in Kilrane village has been put in place but the treatment plant is not yet operational. This may lead to a delay in receiving permission to establish a connection to this scheme. We have outlined two options to connect into this scheme in our response to your query for further information, as well as detailing the initial proposal to install a treatment unit on site.

If permission is not granted to connect into the local sewage scheme in Kilrane village within the next twelve months, we will undertake to install the Klargester Treatment Unit and percolation area on site within this twelve month period.

Trusting that the above is in order,

Regards,


Damien Goff
Managing Director

SPECIFICATIONS

MODEL	CH-800
DELIVERY TO	APPOINTED DELIVERY POINT
APPLICATION	EXPANDED PLASTIC MATERIAL PROCESSING

1. MAIN SPECIFICATIONS

- (1) COMPACTION METHOD: HEAT MELTING EXTRUSION
- (2) MACHINE TYPE: EXTRUDER
- (3) INSTALLATION: INDOOR
- (4) CAPACITY: MAXIMUM **100kgs/H** (FORMING 20× ~60×)
- (5) INTAKING OF MATERIALS: MANUALLY FROM THE MAIN OPENING
- (6) SHAPE OF PROCESSED MATERIAL (S): BLOCK (S) SIZE OF RECEIVING TRAYS : (LARGE): 1000×240×200 (mm)
(SMALL) : 590×440×150 (mm)
- (7) MOULDING OF BLOCK (S): COOLED NATURALLY IN THE TRAYS
- (8) CHANGING OF THE TRAYS: MANUALLY
- (9) CONTROL OF THE MACHINE: CONTROL PANEL
- (10) WARMING UP TIME: APPROXIMATELY 45~60MINUTES
- (11) APPROXIMATE WEIGHT: **1,900KGS**

2. MATERIAL CAN BE PROCESSED

MATERIALS: EPS / EPP / EPE / XPS / XPE / XPP

SIZE OF MATERIALS ACCEPTED: ANY SIZES SMALLER THAN 400mm×400mm

MATERIALS CANNOT BE PROCESSED: METALS, WOOD, PAPERS, PVC, PET ETC'
AND OTHER FOREIGN MATERIALS,
WHICH DO NOT MELT BY HEAT.

3. UTILITIES

POWER INPUT: ACCORDINGLY TO REQUIREMENT (WITHIN TERRITORY)

POWER CONSUMPTION: **41kw** (**37kw** in operation)

COOLANT: **100~160** L/h

4. INDIVIDUAL SPECIFICATIONS

(1) SHREDDER

MODEL	EPSC100-1000 (SEPARATED INSTALLATION)
POWER	GEARED MOTOR 5.5kw
SIZE OF CRUSHED MATERIALS	SMALLER THAN 35mm <input type="checkbox"/>
SIZE OF THE MAIN OPENING	600mm × 1000mm
CONTROL	POWER SWITCH, REVERSE SWITCH, BALANCE CONTROL UNIT (WITH MELTER / AUTOMATIC ON/OFF SWITCH)
SAFETY DEVICE	EMERGENCY STOP SWITCH

(2) SCREW FEEDER

MODEL	φ 200 SCREW FEEDER
SCREW	PA (NYLON)
MOTOR	GEARED MOTOR 1.5kw

(3) COMPULSION FEEDING UNIT

MODEL	COMPULSION FEEDING BY SCREW
SCREW	GEARED MOTOR 2.2kw

(4) MELTER

MODEL	CH-800
TYPE	HEAT MELTING EXTRUDER
SCREW	SCM430 HARD CHROMIUM PLATING
SYLINDER	NITRIDING STEEL
POWER	GEARED MOTOR 15kw
HEATER	STAINLESS BAN HEATER 16.8kw
TEMPERATURE CONTROL	DEGITAL THREE POINT CONTROL
CONTROL	LOCATED AT SIDE OF THE MACHINE
SAFETY DEVICE	EMERGENCY STOP SWITCH

5. PAINT

- (1) MACHINES: STANDARD COLOR / ANTI-RUST PAINT 2 LAYERS
- (2) CONTROL PANEL, CONSOLE PANEL: STANDARD COLOR
- (3) PARTS PURCHASED: STANDARD COLOR OF THE MANUFACTURER

6. SIGN OFF

PLASTIC PACKAGING RECOVERY EUROPE LIMITED IS TO UNDERSTAND THE MACHINE IS SIGNED OFF AND ACCEPTED WHEN THE MACHINE IS OPERATED WITHOUT PROBLEM (S) AT ITS INSTALLATION (S).

THE MACHINE IS TO BE IN GENERAL OPERATION WITHIN ONE MONTH AFTER ITS INSTALLATION (S).

7. ENGINEERING WORKS OUT SIDE QUOTATION

- 1)
- 2)
- 3)
- 4)
- 5)

8. WARRANTY

1 YEAR AFTER THE DELIVERY. IT DOES NOT APPLY ALTHOUGH IT IS STILL IN WARRANTY SERVICE PERIOD IF THE BELOW ARE THE CASES.

1. ANY DAMAGES, MALFUNCTIONS, FIRE, OR ACCIDENTS DUE BY OPERATION OUTSIDE RANGE OF THE OPERATION MANUAL.
2. ANY DAMAGES, MALFUNCTIONS, FIRE, OR ACCIDENTS DUE TO MIS-OPERATION BY THE OPERATORS.
3. ANY DAMAGES, MALFUNCTIONS, FIRE, OR ACCIDENTS CAUSED BY PROCESSING ANY MATERIALS WITH ADDITIVES (e.g: FR grade materials)
4. ANY DAMAGES, MALFUNCTIONS, FIRE, OR ACCIDENTS CAUSED BY PROCESSING ANY OTHER PLASTIC MATERIALS.
5. ANY DAMAGES, MALFUNCTIONS, FIRE, OR ACCIDENTS CAUSED BY PROCESSING ANY FOREIGN ARTICLES (e.g: SAND, METAL, PAPERS, CLOTHS, ETC')

END OF SPECIFICATIONS

Drawing Title

Number

1	Site Location Maps (Map A (rev-A) and Map B.2.1 - Rev. 1)
2	Site Layout Map (04,56/EPA 01 - Rev A)
3	Floor Layout Plan (04,56/EPA 02 - Rev A)
4	Ramp & Kerbing Plan (04,56/EPA 04)
5	Surface Water Drainage Plan (04,56/EPA 01a Rev A)
6	Surface Water Layout on Glenfuels Site (04,56/EPA 03 Rev A)
7	Proposed Sewage Connections
8	Picking Line
9	Spread Plastic Recycling Machine

Consent of copyright owner required for any other use.

Drawing No. 1

Site Location Maps

(Map A (rev-A) and

Map B.2.1 - Rev. 1)

Drawing No. 2
Site Layout Map
(04,56/EPA 01 - Rev A)

For inspection purposes only.
Consent of copyright owner required for any other use.

Drawing No. 3
Floor Layout Plan
(04,56/EPA 02 - Rev A)

For inspection purposes only.
Consent of copyright owner required for any other use.

Drawing No. 4
Ramp & Kerbing Plan
(04,56/EPA 04)

Consent of copyholder
For inspection purposes only.
Owner required for any other use.

Drawing No. 5
Surface Water Drainage Plan
(04,56/EPA 01a Rev A)

For inspection purposes only.
Consent of copyright owner required for any other use.

Drawing No. 6
Surface Water Layout on
Glenfuels Site
(04,56/EPA 03 Rev A)

Drawing No. 7

Proposed Sewage Connections

For inspection purposes only.
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Drawing No. 8

Picking Line

For inspection purposes only.
Consent of copyright owner required for any other use.

Drawing No. 9

Spread Plastic Recycling Machine

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Map A (rev-A) Discovery Series No 77 location map of the Goff Recycling Ltd site Kilrane, Rosslare Harbour



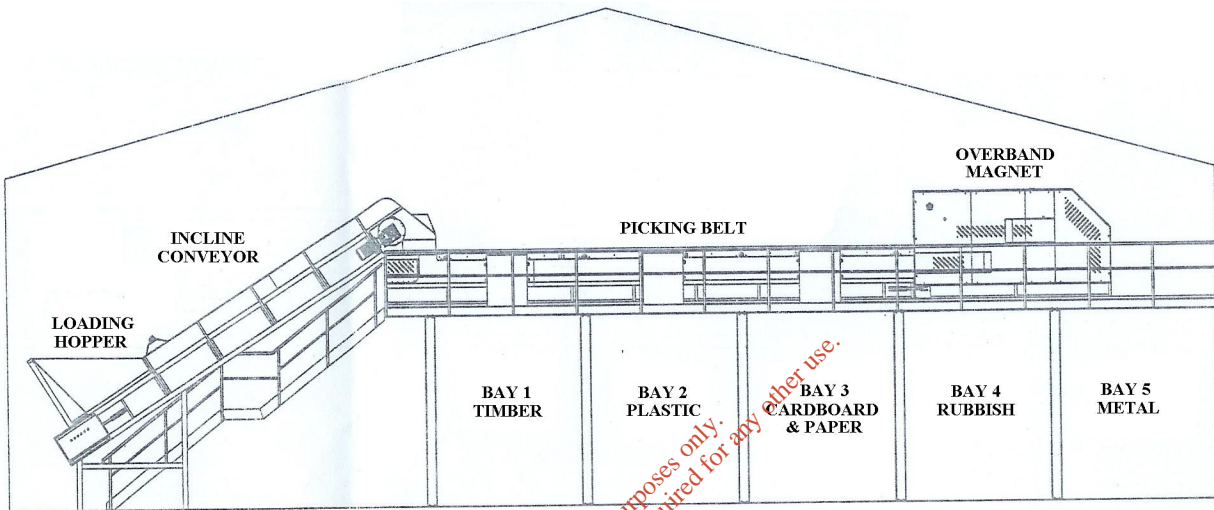
ENVIROCO Management Ltd.
 Ordnance Survey Ireland Licence No EN 0039406
 (C) Ordnance Survey Ireland Government of Ireland

Goff Recycling Ltd

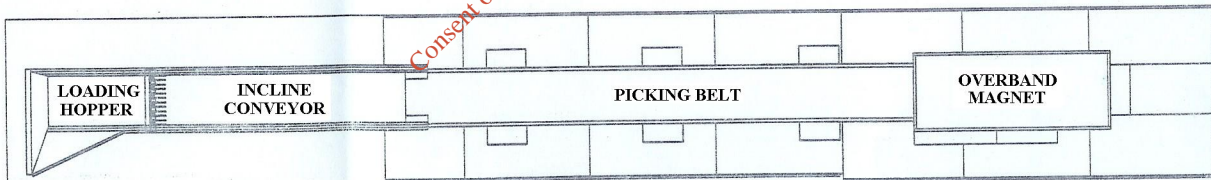
Discovery series location map
 Date: 10th August 2006 Scale 1:50,000

ENVIROCO Management LTD
 Environmental Consultants

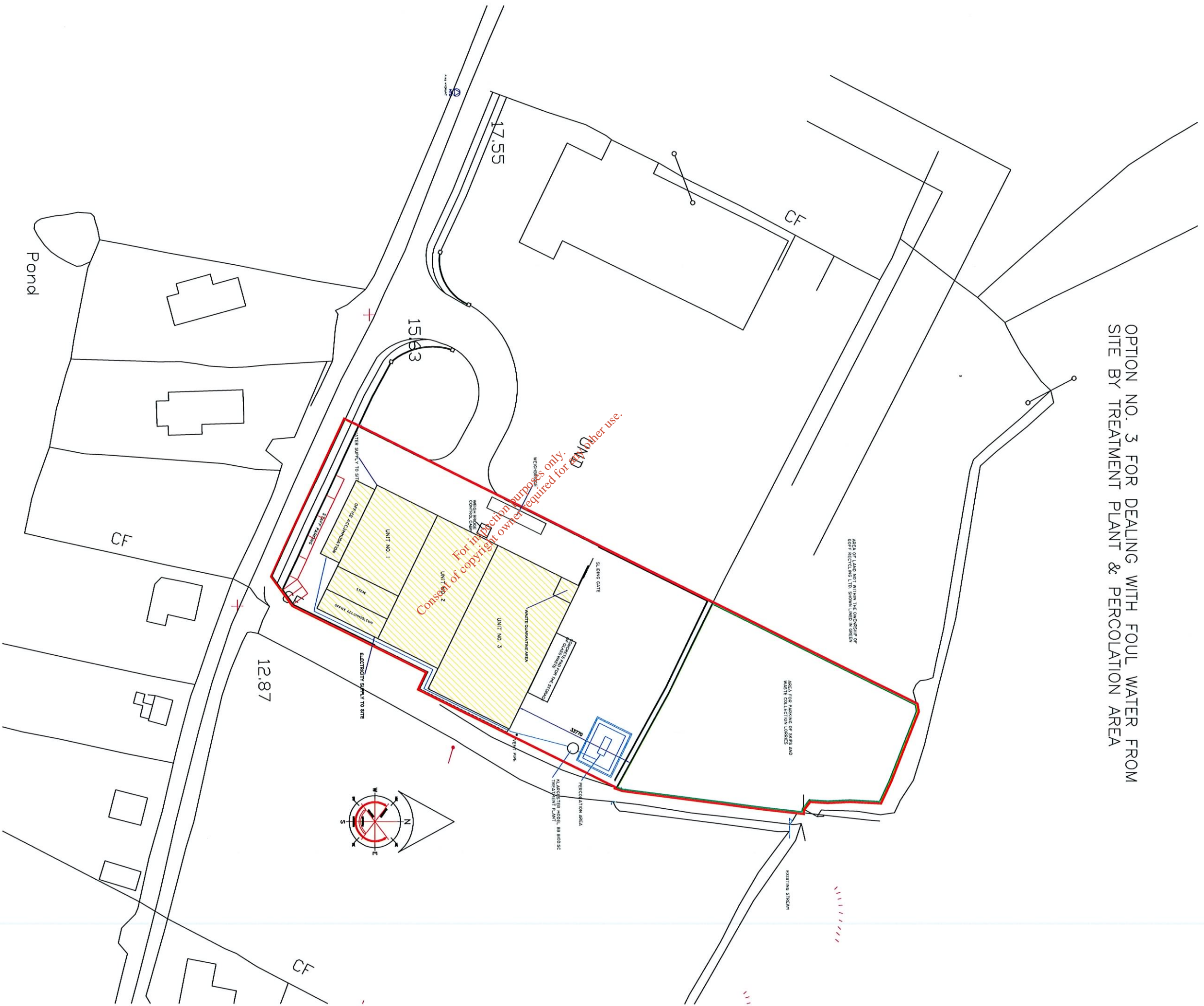




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OPTION NO. 3 FOR DEALING WITH FOUL WATER FROM
SITE BY TREATMENT PLANT & PERCOLATION AREA

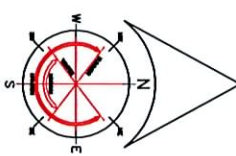
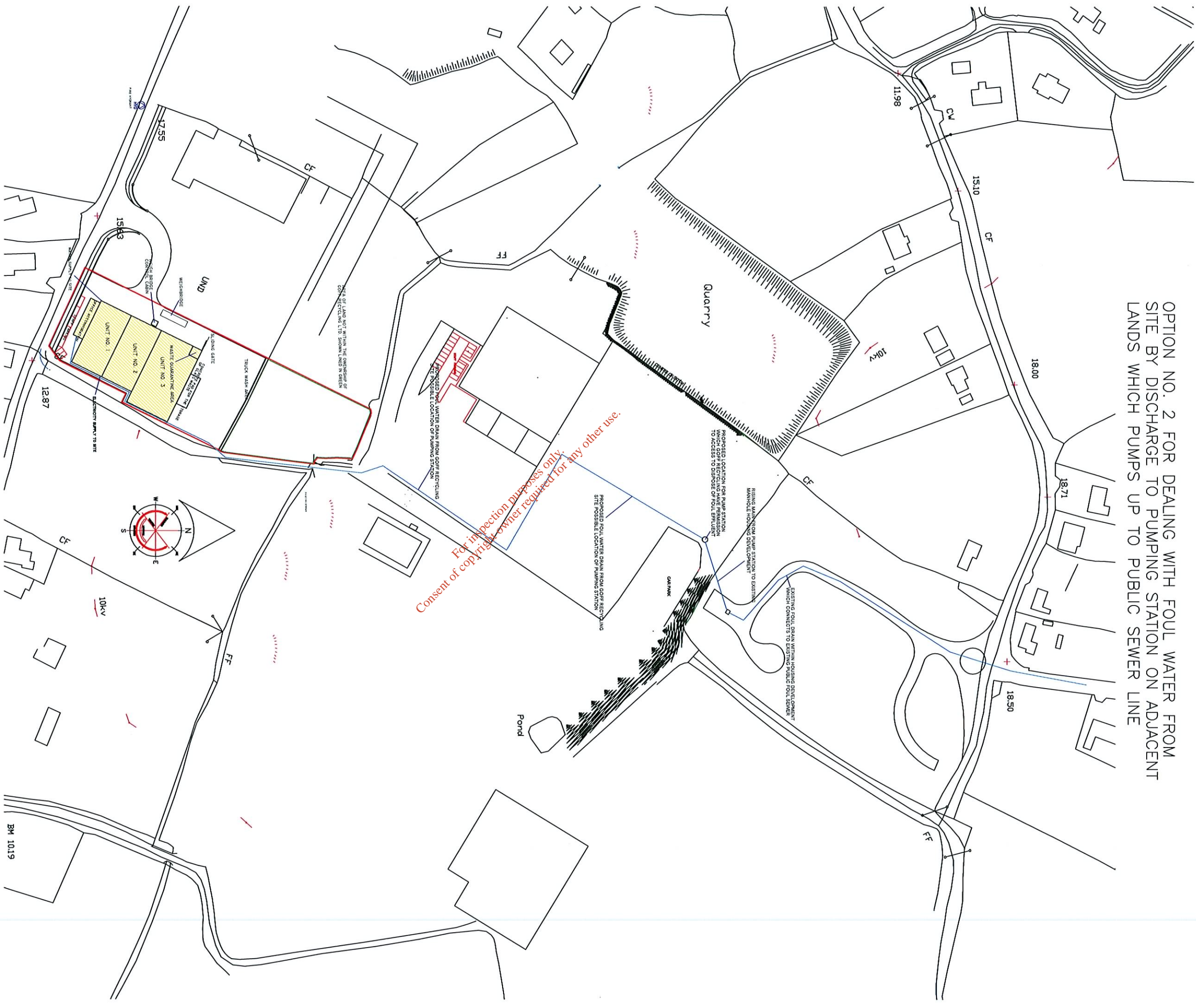


- NOTE:
- USE FIGURED DIMENSIONS ONLY.
 - DO NOT SCALE DRAWINGS.
 - READ IN CONJUNCTION WITH SPECIFICATION AND CONSULTANTS DRAWINGS.
 - REPORT ANY DISCREPANCIES IN DRAWINGS TO ARCHITECT AND OBTAIN INSTRUCTIONS BEFORE PUTTING WORK IN HANDS.
 - CHECK ALL DIMENSIONS ON SITE.
 - THIS DRAWING IS COPYRIGHT ©2004 OF THE ARCHITECTS AND MAY NOT BE REPRODUCED, WHOLE OR PART, WITHOUT THEIR PRIOR CONSENT.

M A H O N & F O X
ARCHITECTURAL PLANNING & ENGINEERING CONSULTANTS

THE BULL RING, WEXFORD	TEL: (053) 22000/22601	FAX: (053) 46893	E-MAIL: info@mahonfox.com
PROJECT TITLE: WASTE RECYCLING CENTRE AND OFFICES AT BALLYKNOCKAN, KILRANE, CO. WEXFORD			
CLIENT: GOFF RECYCLING LTD			
DRAWING TITLE: FOUL WATER DRAINAGE PLAN (OPTION NO. 3)			
DATE : MARCH 2006	SCALE: 1:500	DRAWN BY: KEVIN TYRRELL	
		PROJECT REF. NO.: 04.56/EPA 05 (OPTION 3)	

OPTION NO. 2 FOR DEALING WITH FOUL WATER FROM SITE BY DISCHARGE TO PUMPING STATION ON ADJACENT LANDS WHICH PUMPS UP TO PUBLIC SEWER LINE

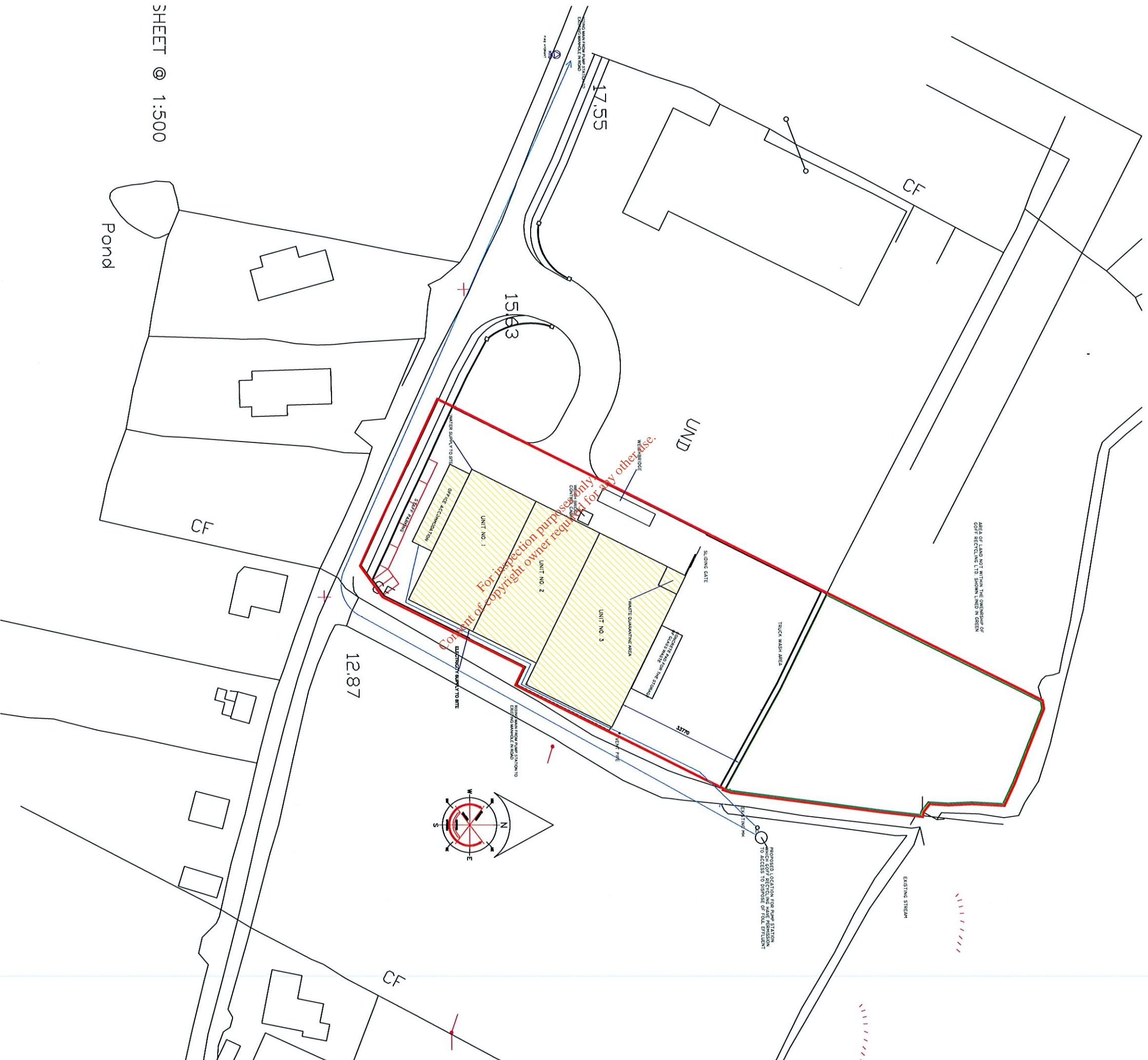


M A H O N & F O X
ARCHITECTURAL PLANNING & ENGINEERING CONSULTANTS

THE BULL RING, WEXFORD	TEL: (053) 22000/22601	FAX: (053) 46993	E-MAIL: info@mahonfox.com
PROJECT TITLE: WASTE RECYCLING CENTRE AND OFFICES AT BALLYNACKAN, KILRANE, CO. WEXFORD			
CLIENT: GOFF RECYCLING LTD			
DRAWING TITLE: FOUL WATER DRAINAGE PLAN (OPTION NO. 3)			
DATE: MARCH 2006	SCALE: 1:2000	DRAWN BY: KEVIN TYRRELL	
		PROJECT REF. NO.: 04.56/EPA 05 (OPTION 2)	

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OPTION NO. 1 FOR DEALING WITH FOUL WATER FROM
SITE BY DISCHARGE TO PUMPING STATION ON ADJACENT
LANDS WHICH PUMPS UP TO PUBLIC SEWER LINE



SHEET @ 1:500

Pond

M A H O N & F O X

ARCHITECTURAL PLANNING & ENGINEERING CONSULTANTS

NOTE:

- USE FIGURED DIMENSIONS ONLY.
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PROJECT TITLE: WASTE RECYCLING CENTRE AND OFFICES AT BALLYNOCKAN, KILRANE, CO. WEXFORD			
CLIENT: GOFF RECYCLING LTD			
DRAWING TITLE: FOUL WATER DRAINAGE PLAN (OPTION NO. 1)			
DATE: MARCH 2006	SCALE: 1:500	PROJECT REF. NO.: 04,56/EPA 05 (OPTION 1)	
		DRAWN BY: KEVIN TYRRELL	

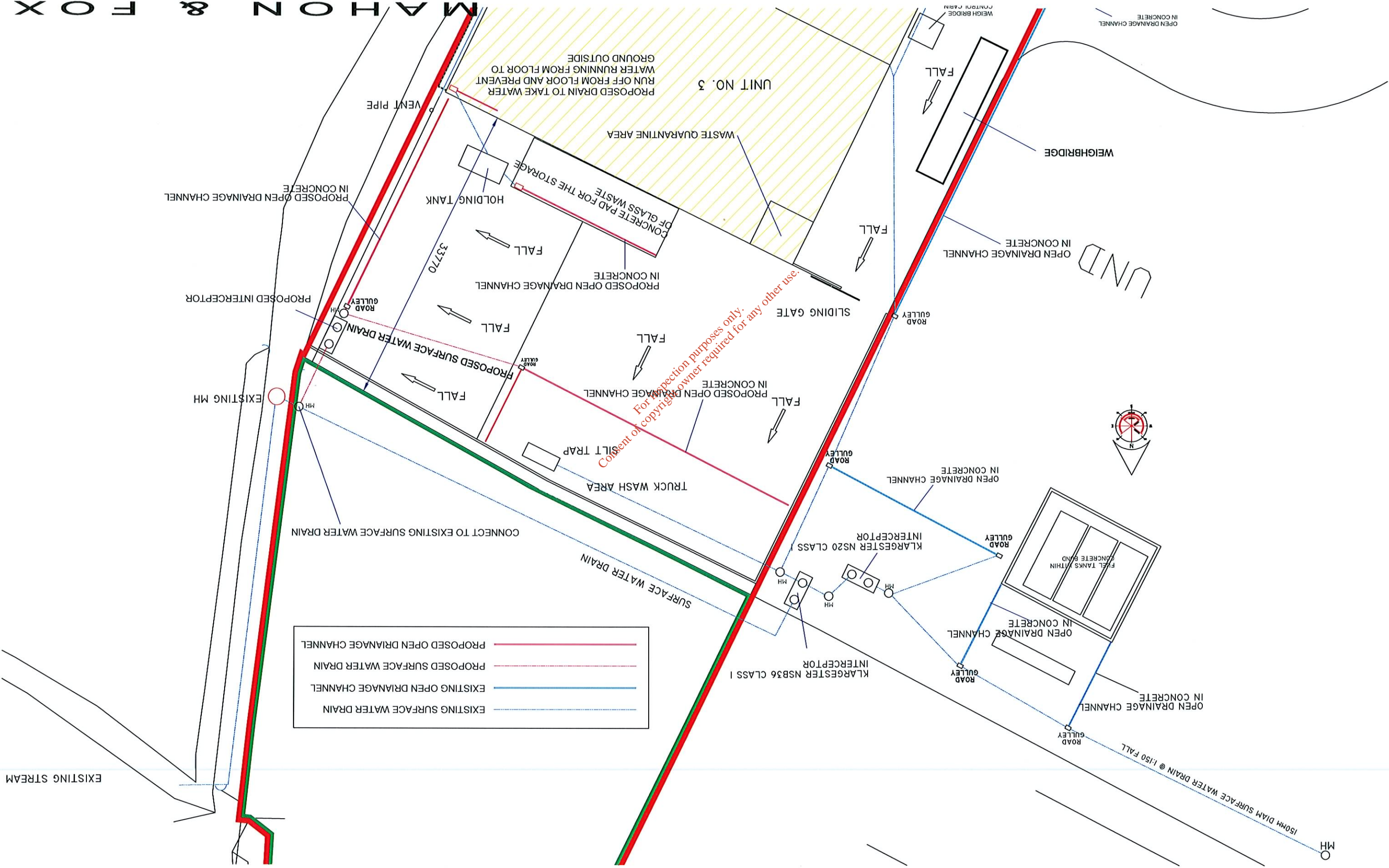
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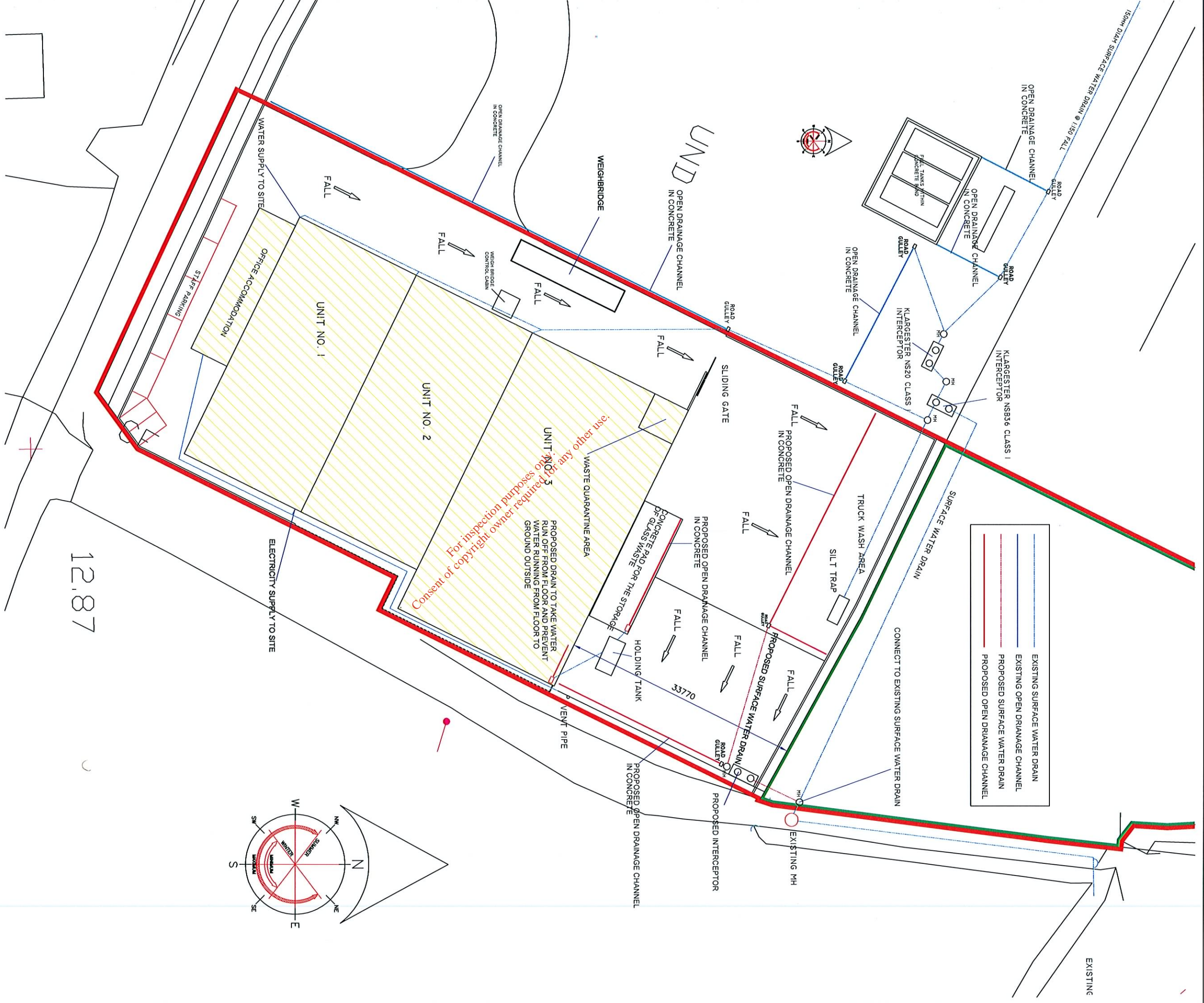
ADDITIONAL SURFACE WATER DRAINAGE ADDED TO YARD

DATE : MARCH 2006
 SCALE: NOT TO SCALE
 DRAWING TITLE: SURFACE WATER LAYOUT ON GLENFUELS SITE
 CLIENT: GOFF RECYCLING LTD
 PROJECT TITLE: GOFF RECYCLING CENTRE AND OFFICES AT BALLYNKNOCKAN, KILRANE, CO. WEXFORD
 THE BULL RING, WEXFORD TEL: (053) 2200/22601 FAX: (053) 46893 E-MAIL: info@mahonfox.com
 DRAWN BY: KEVIN TYRRELL
 PROJECT REF. NO.: 04,56/EPA 03 REV A

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PROPOSED OPEN DRAINAGE CHANNEL	— (Solid Red Line) —
PROPOSED SURFACE WATER DRAIN	- - - (Dashed Red Line) - - -
EXISTING OPEN DRAINAGE CHANNEL	— (Solid Blue Line) —
EXISTING SURFACE WATER DRAIN	- - - (Dashed Blue Line) - - -



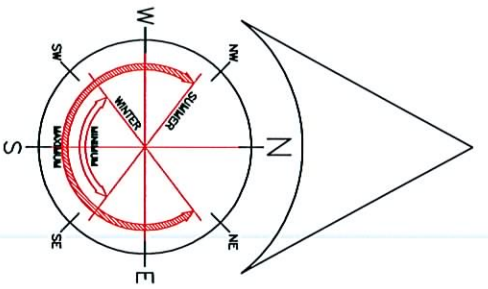
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NOTE:

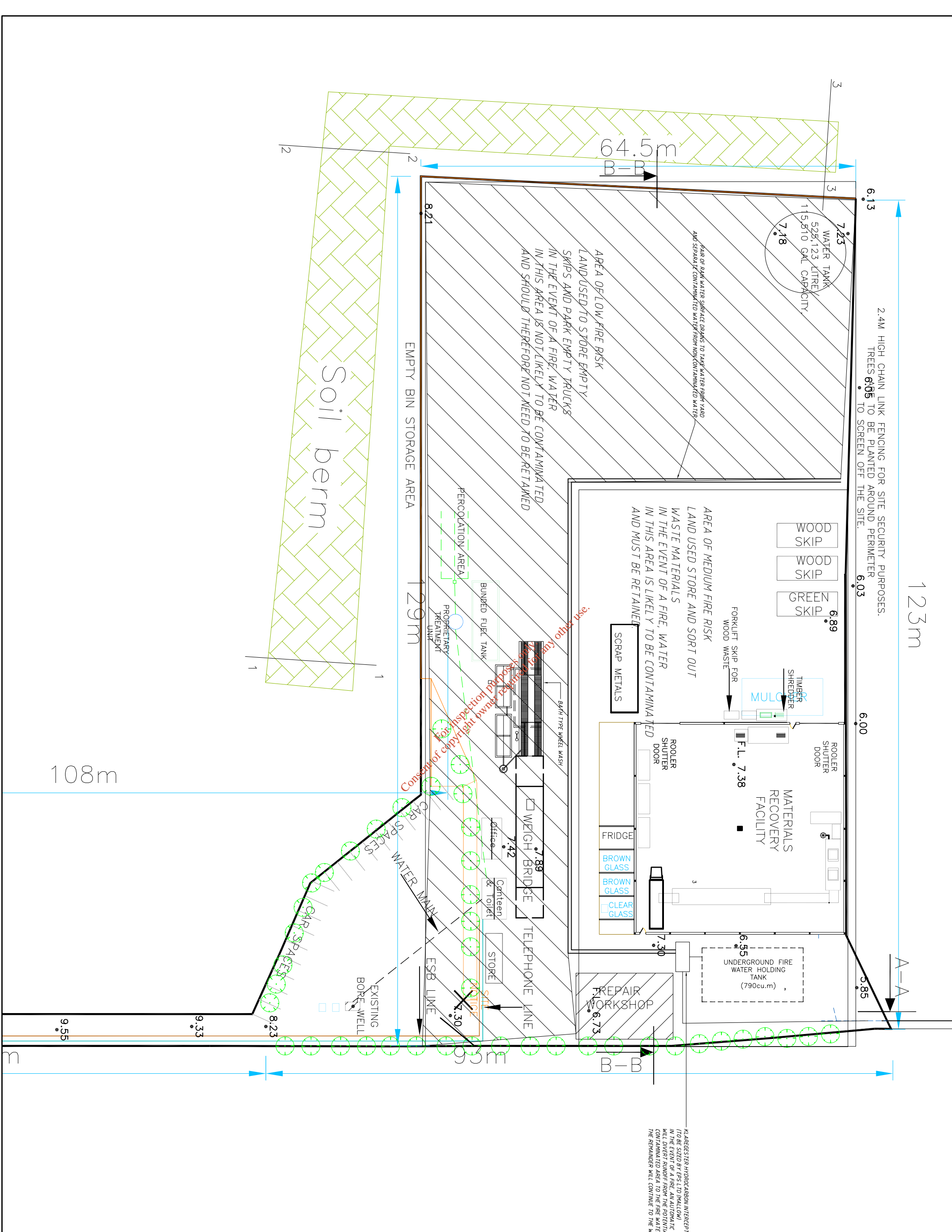
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CLIENT: GOFF RECYCLING LTD			
DRAWING TITLE: SURFACE WATER DRAINAGE PLAN			
DATE: MARCH 2006	SCALE: 1:500	DRAWN BY: KEVIN TYRRELL	
		PROJECT REF. NO.: 04.56/EPA 01A REV A	



12.87

Notes:
All dimensions are in mm.



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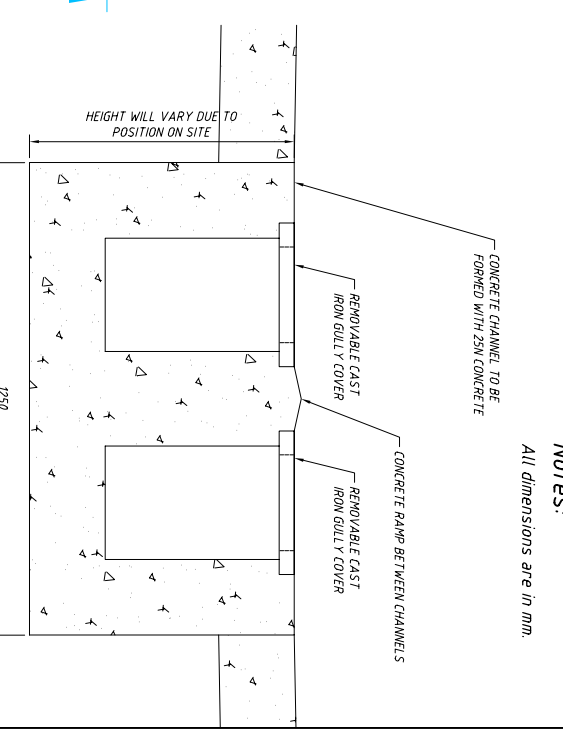
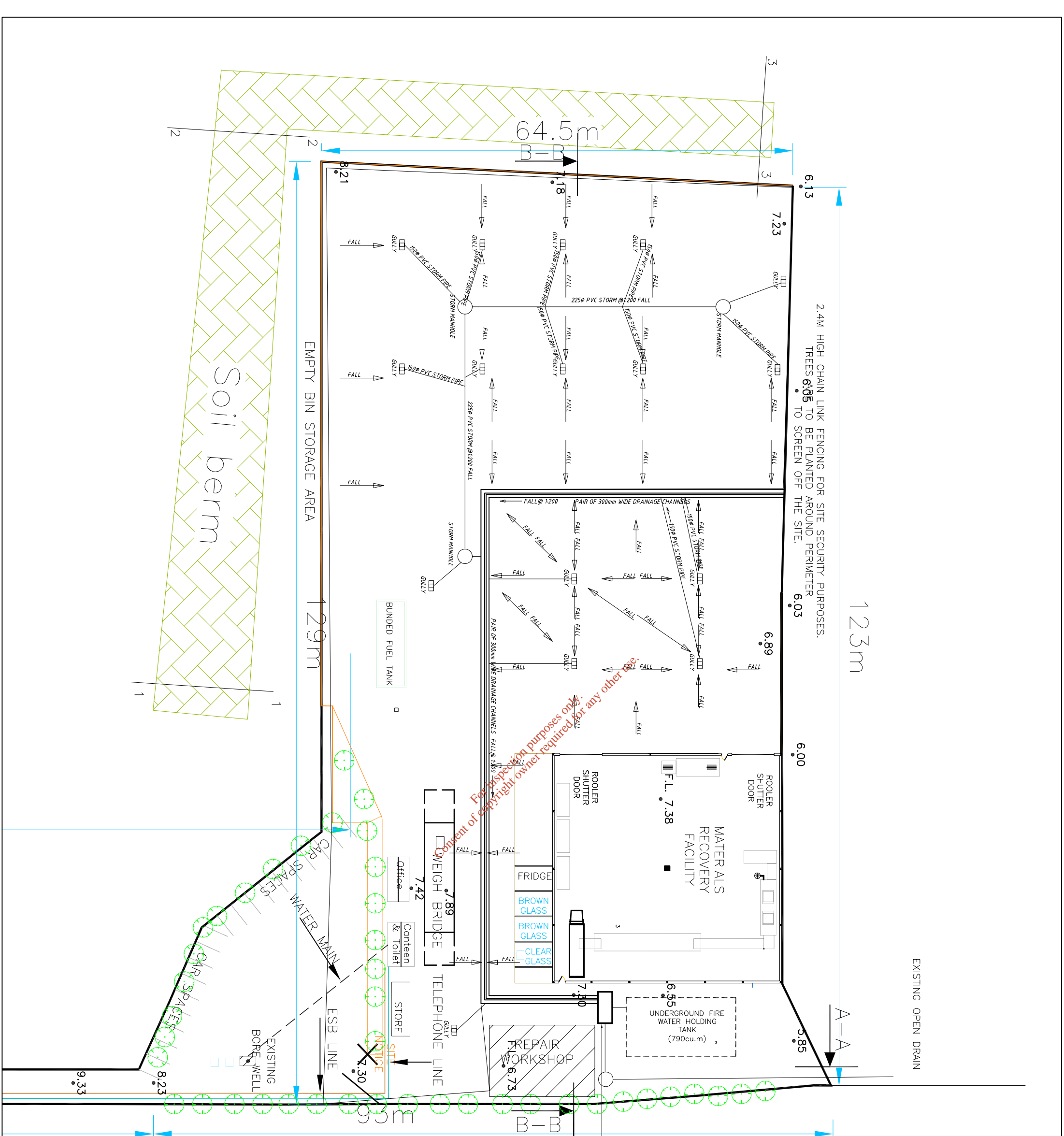
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OSL

Author: Ted O'Donoghue
Waterfall, Cork

Checked: ac Date: 15/05/05
Scale: 1:250

Project: 05-050-01
Revision: A



Notes:
All dimensions are in mm.

TYPICAL CROSS SECTION THROUGH DOUBLE DRAINAGE CHANNEL
1:10

KLARGESTER HYDROCARBON INTERCEPTER (TO BE SIZED BY EPS LTD (MALLOW) IN THE EVENT OF A FIRE, AN AUTOMATIC VALVE WILL DIVERT RUNOFF FROM THE POTENTIALLY CONTAMINATED AREA TO THE FIRE WATER RUNOFF TANK THE REMAINDER WILL CONTINUE TO THE WATER COURSE

1	05/05	Issued for EPA approval
Rev	Date	By
1	05/05	05/05

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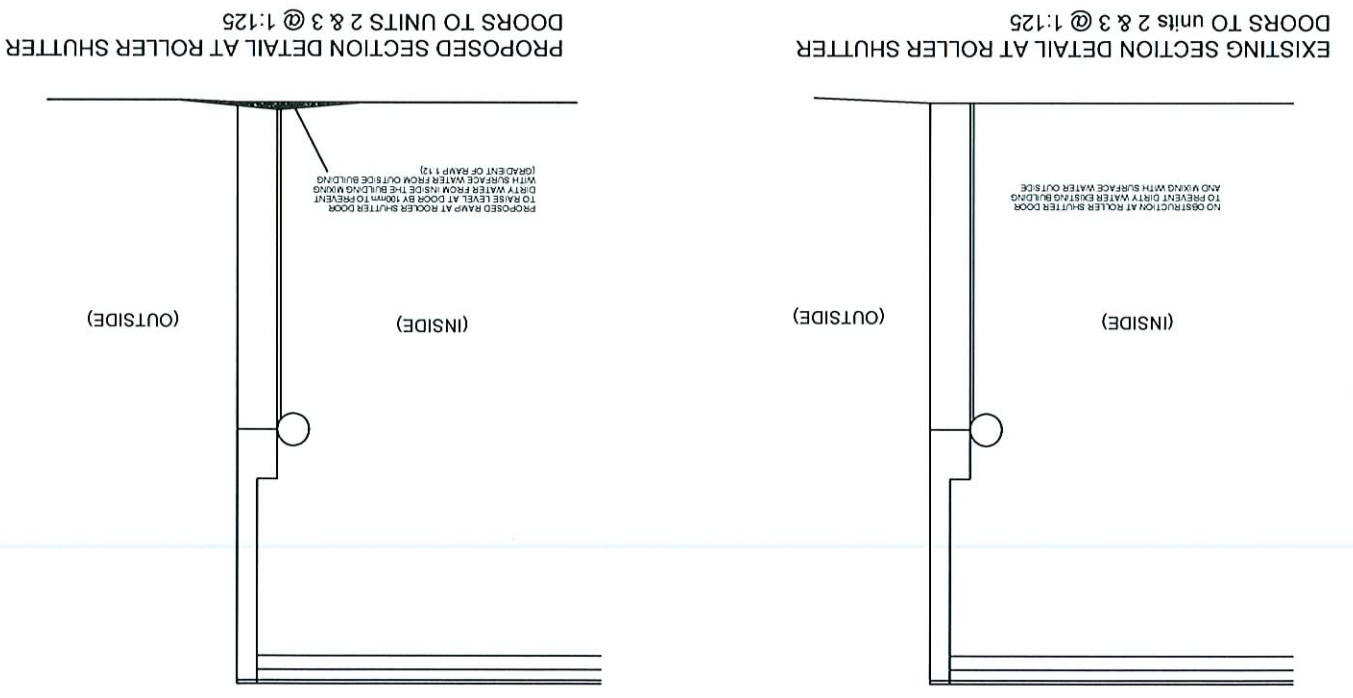
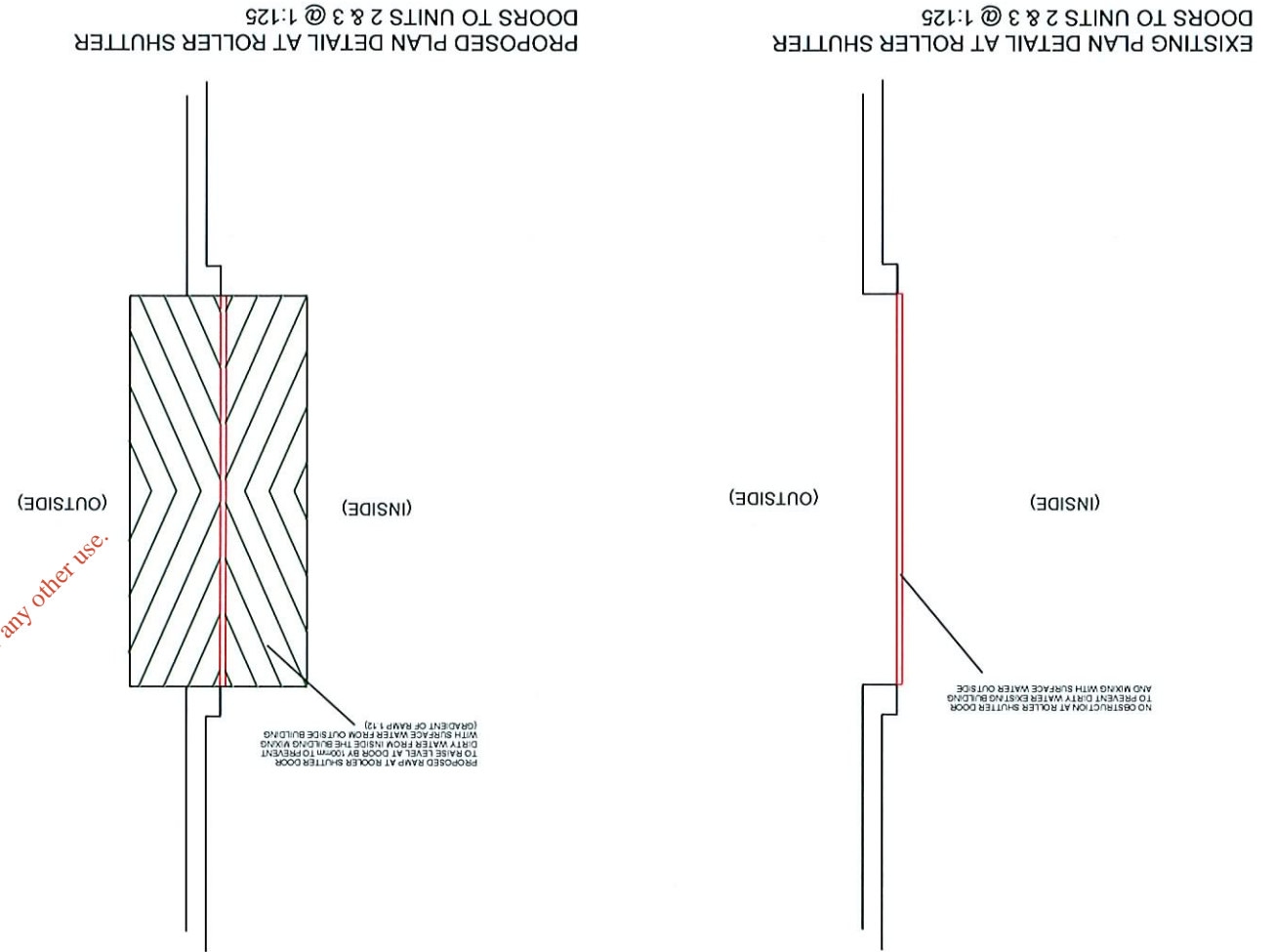
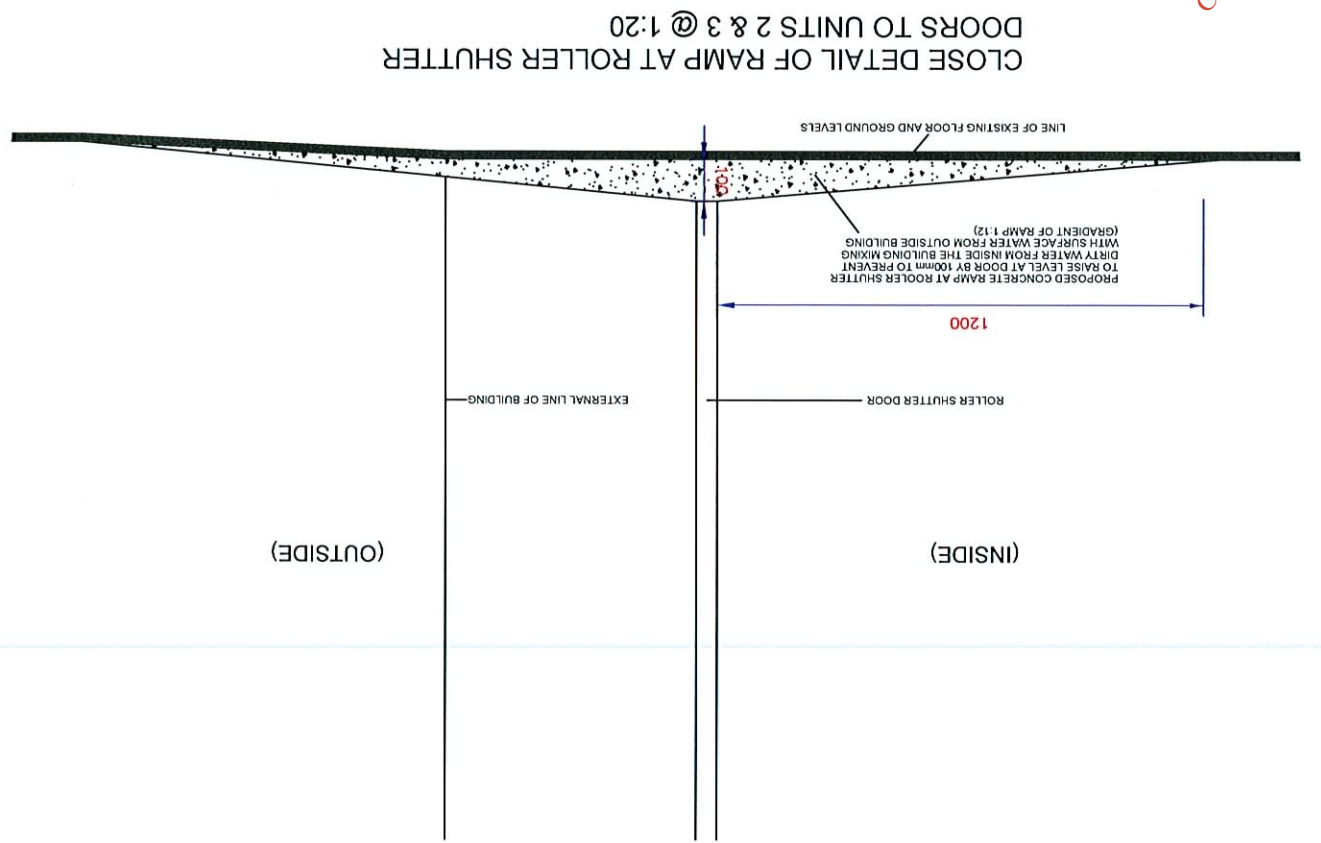
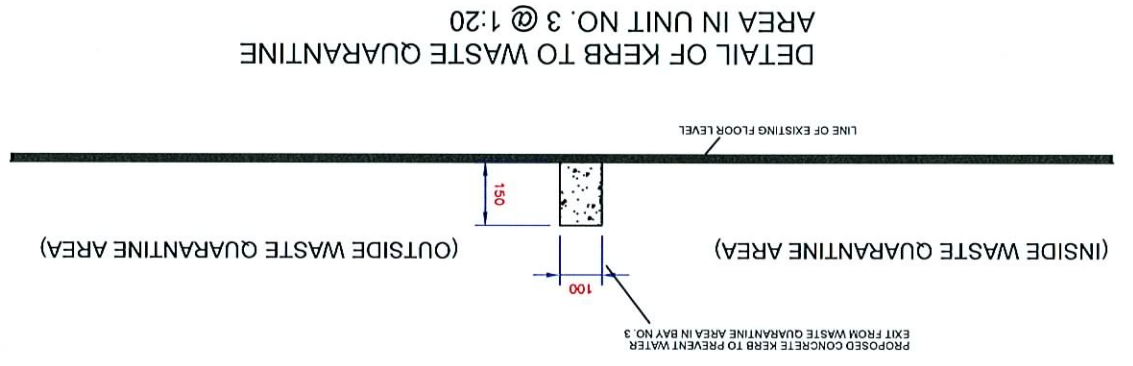
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Author	Ted O'Donoghue Waterfall, Cork		
Drawn	Site Layout with drainage		
By	AC	Date	30/05/05
Checked		Scale	1:250
Number	05-050-02		Revision
			A

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DRAWING TITLE: RAMP AND KERBING DETAILS		
PROJECT REF. NO.: 04,56/EPA 04		
CLIENT: GOFF RECYCLING LTD	DRAWN BY: KEVIN TYRRELL	
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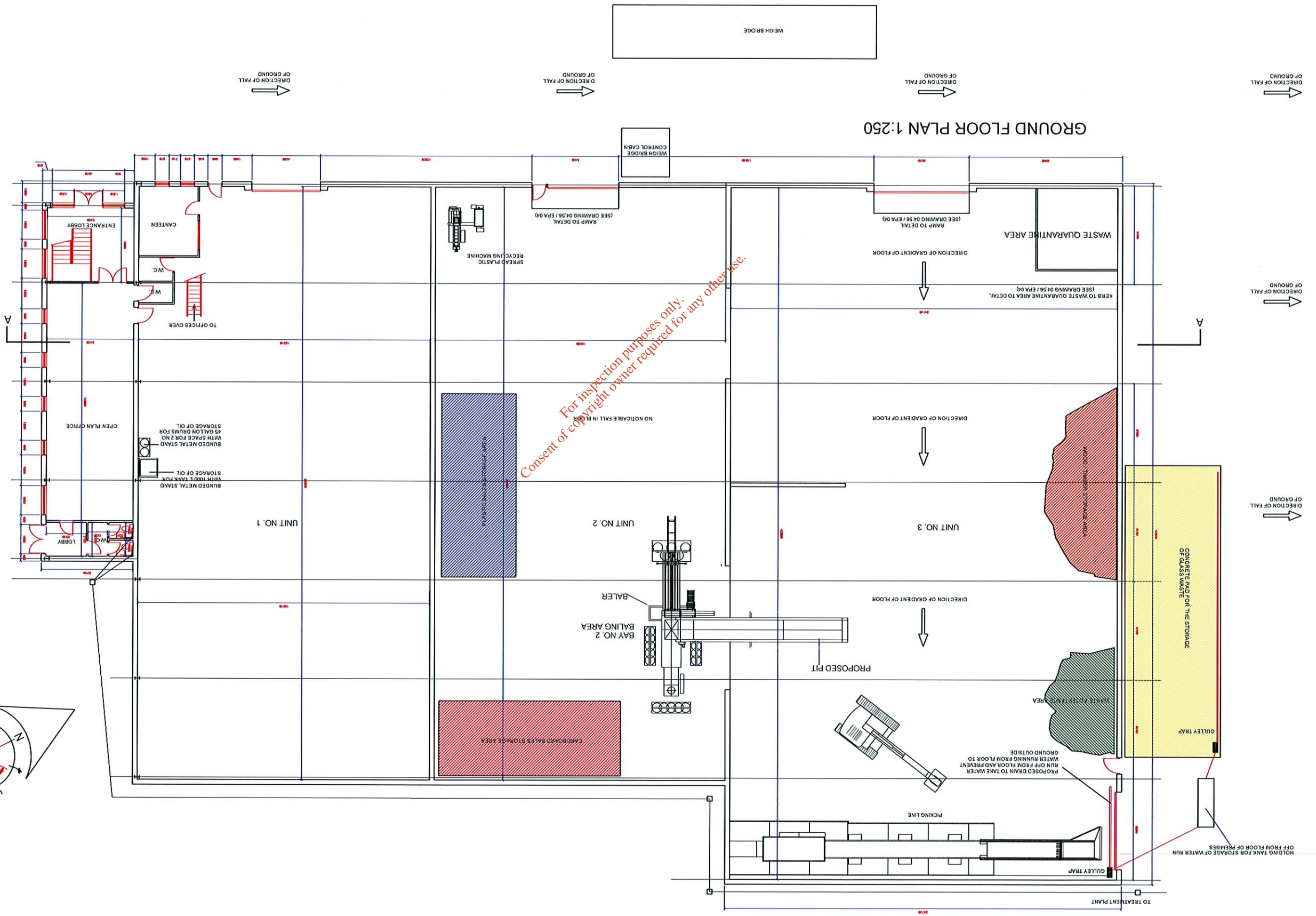
DATE : MARCH 2006	SCALE: 1:250
DRAWING TITLE: FLOOR LAYOUT PLAN	PROJECT REF. NO.: 04,56/EPA 02 REV A
CLIENT: GOFF RECYCLING LTD	DRAWN BY: KEVIN TYRRELL
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ADDITIONAL SURFACE WATER DRAINAGE ADDED AND LOCATION OF ADDITIONAL MECHANICAL EQUIPMENT ADDED

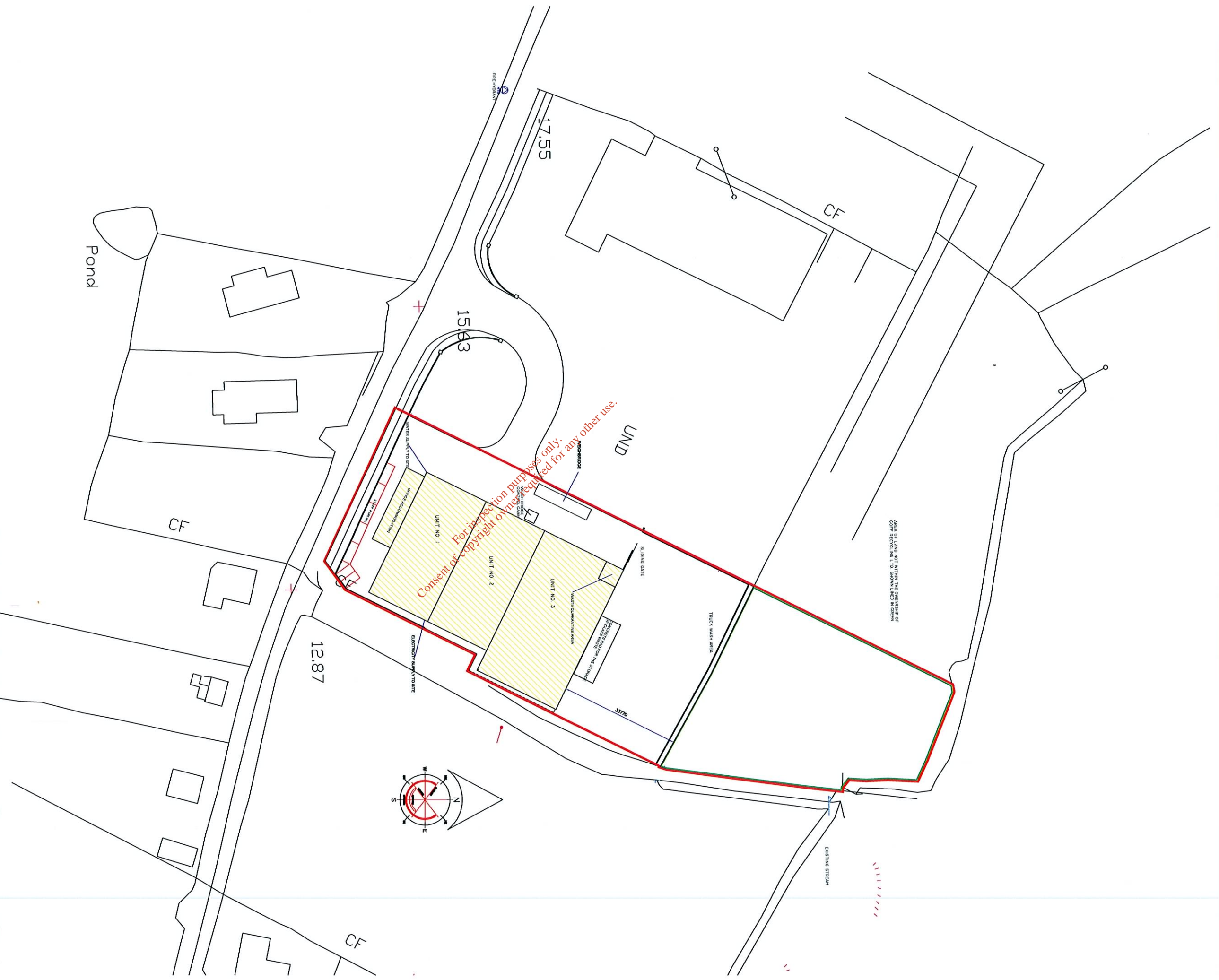
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CLIENT: GOLF RECYCLING LTD

DRAWING TITLE: SITE LAYOUT PLAN
DATE : MARCH 2006

SCALE: 1:1000

DRAWN BY: KEVIN TYRRELL
PROJECT REF. NO.: 04,56/EPA 01 REV A

Surveyed 1996
Revised 2005
Levelled 1992

Rural PLACE Map

Map B.2.1 - Rev.A - Location of the Goff Recycling Ltd Site at Kilrane, Rosslare Harbour, Co. Wexford



ITM CENTRE PT. COORDS:
713105,611030

DESCRIPTION

MAP SHEETS

1:2500
5715-A

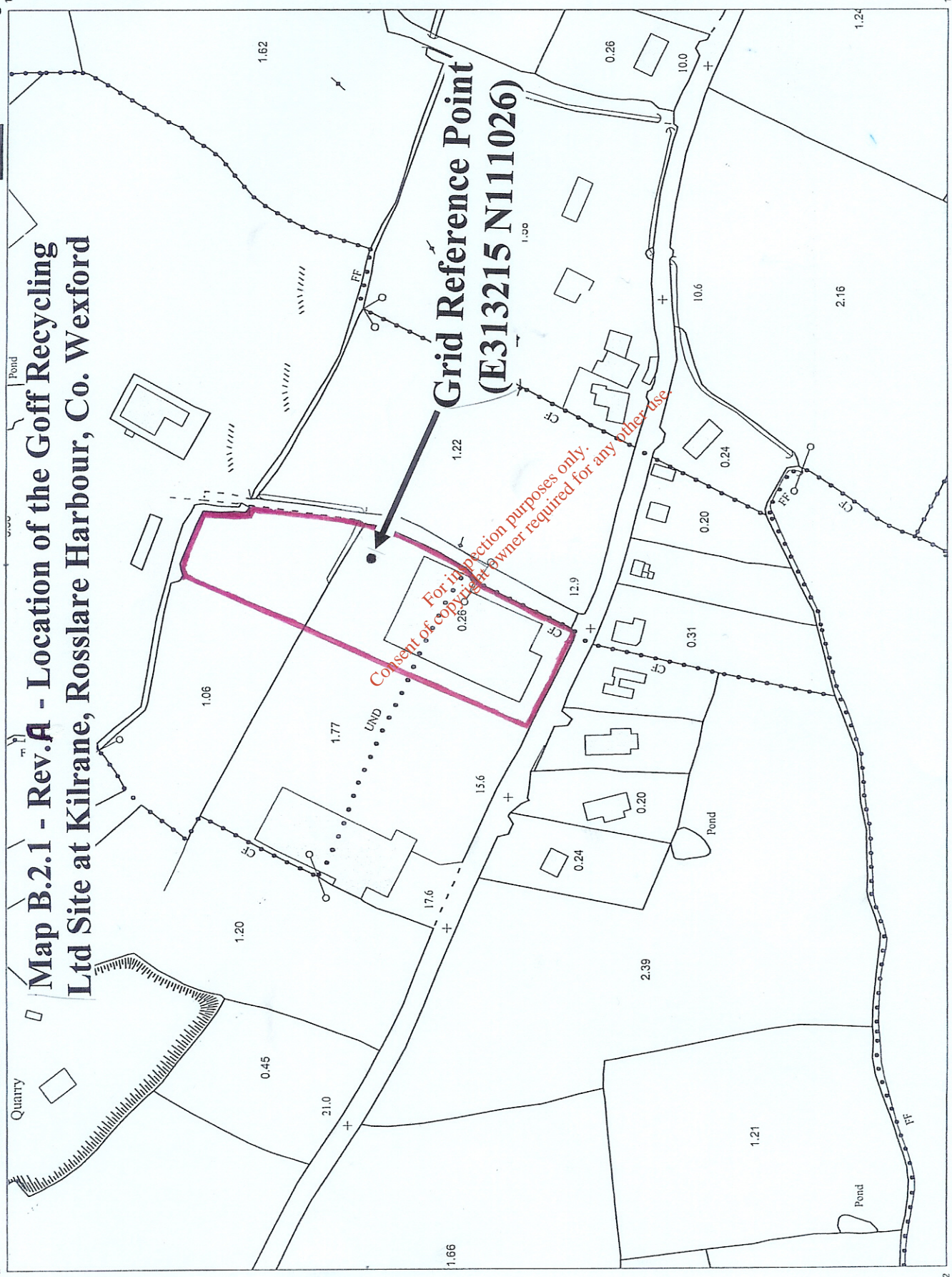


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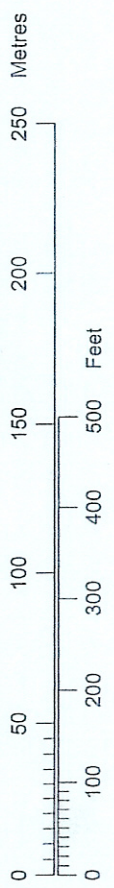
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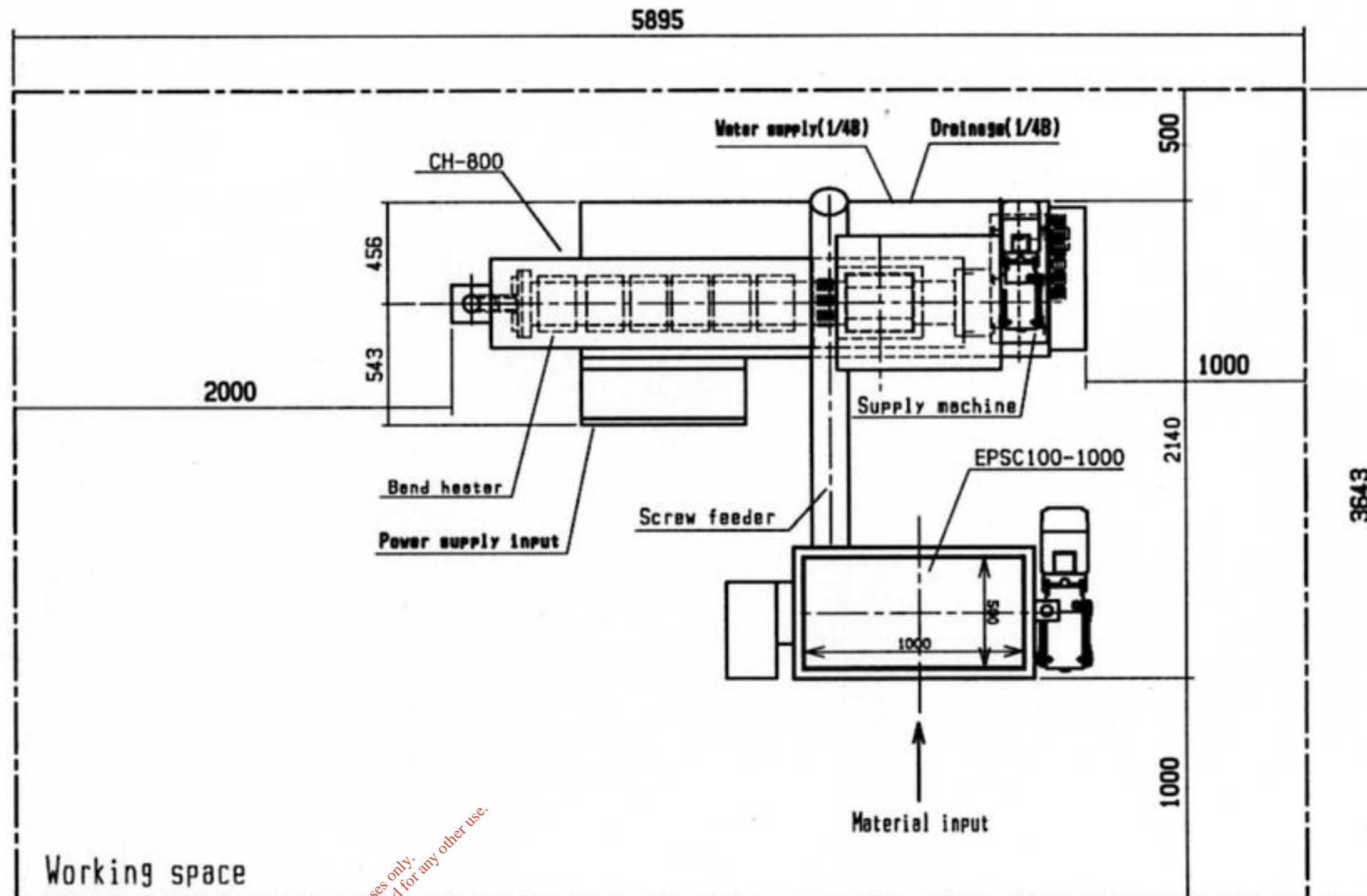


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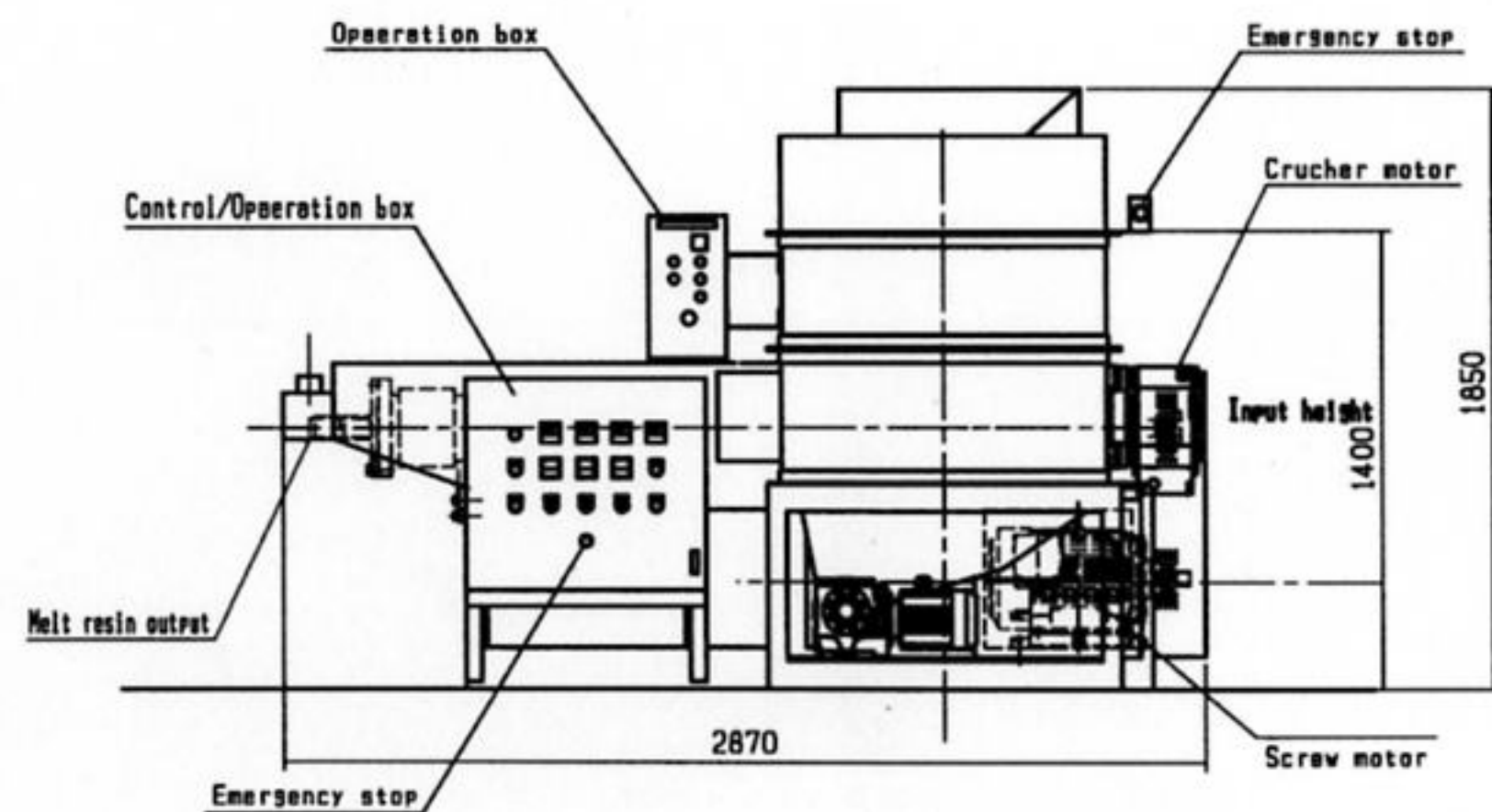
Plot Ref. No. 1130543_1_1
Plot Date 24-JUL-2006



Specification

Max melted ability	EPS/PSP/EPP 100Kg/h
Power supply	Production by the power supply of the use country
Power consumption	41Kw (37Kw:At the time of operation)
Necessary cooling water	100~160L/h(Cooling of Cylinder)

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名称 TITLE	
CH-800+EPSC100-1000	
日本リフ・ロマシン工業株式会社 JAPAN REPRO-MACHINE INDUSTRIES Co.,LTD	図番 DWG. No. JR004-04-00776