

A.1 Non-Technical Summary

Site Details/Description

The current site at Lissard & Ballyhilloge, Mourneabbey, Co Cork, [W 5822 8864] has been under operation by Mallow Contracts Ltd, Island, Burnfort, Mallow, Co Cork, since 2006. It is a three (3) phased operation with the contractor currently working in the Phase 3 area, 7.00 am to 10.00 pm, except Sundays and Bank Holidays. Prior to principle works, classified in the Forth Schedule: Waste Recovery Activities of the Waste Management Acts 1996 to 2003, identified as No. 10 [*The treatment of any waste on land with a consequential benefit for an agricultural activity or ecological system*], commencing permission was sought for from the Cork County Council Environmental Department, along with the ESB, the Iarnrod Eireann, and the Southern Regional Fisheries Boards. The process over the three phases is summarized below:

- Strip topsoil progressively from the North end in Year 1 area. Strip approximately 1/3 of the area at a time. Store ahead of stripping to allow for local haul back to topsoil.
- Commence filling suitable C&D into low bed of stream from the South end of Year 1 area. Ensure no filling of other material onto this until C&D has been evened off on top, Terram fitted and rounded stone placed over. Work this filling progressively northwards as the suitable C&D comes into site. [*This is being done*]
- As filling becomes complete moving southward cut the new roadside drain linking to the R. Peastinagh. Commence with silt trap and as work progresses provide another every 100m. On completion of stream bed filling for Year 1 commence Year 2 streambed filling working North to South. [*This is being done*]
- Move fill in vicinity of roadside drain/R. Peastinagh ensuring no carry into of solid matter. Similarly move fill in vicinity of central wet channel being prepared for C&D fill to ensure no carry forward of solid matter. This is done by placing material away until central wet channel is topped with Terram with rounded stone. [*This is being done*]
- Progress through Year 1 and Year 2 as per above.
- Construct embankment and catch basin at southern end of Year 3 material after Year 2. This will stop R. Martin from being fouled with carry over. Year 3 stream bed filling is again worked North to South. [*This is being done*]
- On completion remove gateway and complete fence back on original line. Fill in the channels of the wheel wash. Leave wheel wash slab in place. Remove signage as required. Remove ESB overhead barriers.

Refer to *Drawing No. 1 'Annual Work Schedule Outline'*, *Drawing No. 2 'Site Survey'*, *Drawing No. 3 'Proposed Levels'*, and *Drawing No. 4 'Sections'*.

Environmental Emissions and Impacts from the site are listed as follows:

Receiving Surface Waters

- There are no new channels to allow surface water to flow into the existing river beds. There is no flow of surface waters from site to allow polluting of streams.
- Refer to *Drawing No. 5 'Overall Channel Drainage* and *Drawing No. 6 'Sundry Details'*. This drawing gives detail of the following protection measures:
 - 'Details of Soiled Water Containment Measures' – to roadside channel and to R. Martin.
 - 'Proposed Filling of Existing Drain' – this refers to the low 'channel' and to the head of R. Martin.
 - 'Bund at Southern End' – ensuring runoff at the southern end goes to soiled water containment.
 - New Drainage Ditch Linking to Existing Stream (R. Peastinagh) beside N20' – this is the roadside channel above which will have soiled water containment measures.

Sewage Discharge

- There are no emissions to the existing sewage system from the site.

Ground/Groundwater Emissions & Ground and/or Groundwater Contamination

- No contaminated materials are allowed to be deposited on site at any time.
- All materials are subject to inspection procedures before being deposited on-site; refer to A.1 (2) *Operating Instructions & Procedures in Respect to Waste Control*.
- No damaging effects to the groundwater will arise from the materials allowed on site.

Only the following inert materials refer to the European Waste Catalogue and Hazardous Waste List, January 2002, is accepted on the site:

- **17 05 04 Soil and Stone**
- **17 01 07 Mixture of concrete, bricks, tiles and ceramics other than those mentioned in 17 01 06**
- **No other waste types are permitted** to be deposited at this facility.

All material deposited on-site *do not* fall in any categories that would coincide with the Dangerous Substance List I and II of the Council Directive 80/68/EEC of 17 December 1979, specifically Articles 3-7, on the protection of groundwater against pollution by certain dangerous substances is allowed onto site.

Currently the refuelling of equipment is brought on site via an oil tanker. In the unlikely event of on-site oil storage occurs, it has been specified in the current permit that if, it were ever to be installed, a refuelling station will have the appropriate concrete bunding, to ensure that no contamination to the ground or groundwater occurs.

Noise Impact

- The following Noise levels and limits are and will continue to be adhered to.

Noise levels emanating from the proposed development when measured at the site boundaries do not exceed 55 dBa (15 minute L_{eq}) between the hours of 07.00 am and 10.00 pm except Sundays and Bank Holidays. Noise does not exceed 45 dBa (15 minute L_{eq}) at any other time.

Noise from construction activities are as follows:

- Transport to and from the site
- Machinery operating within the site
- Both the above are truck and operational vehicle noises. These levels do not exceed the above stated 55 dBa inclusive of the 5 dBa penalty for tone and impulse.

Ecological Impacts & Mitigation Measures

- When site filling is nearing its completion and appreciable stone is picked out by hand. Topsoil is recovered and relayed on the surface to a depth of approximately 225 mm. Topsoil is then raked and grass seed is planted at a rate of 40 g/m². Grass seed planting is only done during the grass growing season. This will result in a "green field" final product. This final product is consistent with other fields in the area. It will be fully usable for agricultural purposes consistent with the area generally.

Treatment & Abatement System

- To comply with the specific conditions in the current waste permit, the site has installed two wheel washes. They are designed to shake loose and clean the wheels of the Lorries exiting the site after depositing their load. This is to ensure that no waste is deposited outside the designated construction and development area. If such a deposit is made on the approaching roadway (300 meters in each direction), it is stipulated that clean-up via a mechanical sweeper is immediate.
- To ensure that any emissions of surface water runoff do not enter the existing streams, the runoff is being well contained; refer to *Drawing No. 6 'Sundry Details'* for further details on the stated above control systems.

Monitoring/Sampling Points

- To monitor existing watercourse conditions and quality, two sampling points [*Watercourse Monitoring Point #1, {W 58430 89065}, Watercourse Monitoring Point #2, {W 57970 88443}*] have been established on the River Peastinagh and the River Martin, respectively. Monitoring points are both accessible via foot and monitoring frequency is proposed to be once monthly. Refer to *Drawing No. 7 'Watercourse Monitoring Points'*.

Waste Acceptance/Handling

- The permit holder ensures that the permit holder, or his staff, employees, lessees or agents subject all waste on arrival at the facility to a visual inspection.

- The permit holder has prepared comprehensive written operating instructions and procedures in respect to waste control to assist personnel with responsibility in this area. Refer to A.1 (2) *Operating Instructions & Procedures in Respect to Waste Control*.
- The permit holder ensures that adequate steps are taken to prevent unauthorised entry of wastes to the site, refer to A.1 (3) *Register of Incoming Waste & Outgoing Waste*. The permit holder makes provisions to control access to the site, and to prevent the fly tipping of waste.
- The permit holder ensures that employees with responsibilities in the waste control area have received training to enable them to execute their tasks in relation to pollution control. Refer to A.1 (4) *Register of Employee Training*.
- The permit holder ensures that any access point from an accessible roadway is gated and locked when there is no site supervisor present at the facility. Drivers of waste delivery vehicles are not deemed site supervisory staff.
- Sediment waste from the trap off the lorry wash is cleaned out regularly and spread again throughout the site.
- Refuse found on-site is gathered and taken off site by Mallow Landfill and disposed of via the normal disposal for recyclable or rubbish in the area.

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OPERATING INSTRUCTIONS AND PROCEDURES IN RESPECT TO WASTE CONTROL

- 1** Site supervisor to inspect each load on arrival at site.
Should load contain material not authorised he is not to permit driver to deposit on site and he is to instruct driver to exit the site.
- 2** Site supervisor to inspect that the drivers paperwork is in order.
If not in order he is to require paperwork be correct before accepting the load.
- 3** Site supervisor to inspect that the drivers truck permit identification markings are in order.
If not in order he is to require identification be in place before accepting the load.
- 4** Site supervisor is to ensure he obtains all of the information required for filling out Template 3 record. This includes Source , Description , EWC Code , Tonnage or m3 , Destination in Landfill , Waste Collector , Vehicle No , Permit No , Vehicle Reg No, Name of Who Checked Load at this site, Initial of Supervisor.
- 5** Upon completion of clearance of material , paperwork, truck permit marking and obtaining all aforesaid details the site supervisor is to direct the driver where to go to and where to deposit his material.
- 6** Upon depositing the material the site supervisor is to ensure that the truck exits the site via the truck wash. Therein he is to ensure the truck is adequately washed prior to re entry onto the public road.
- 7** The site supervisor is to ensure the public road condition throughout the day for cleanliness. He is to ensure that it is cleaned if required.
- 8** Site supervisor is to ensure completion of the record for each load in the Template 3 Record Book daily.

ENSURE THAT ALL PEOPLE INVOLVED IN WASTE CONTROL ARE FAMILIAR WITH THE ABOVE PROCEDURE.

Template 3: Condition 3.2: Register of Incoming Waste and Outgoing Waste

Date	Time	Source	Waste Description	EWC Code	Tonnage In	Tonnage Out	Destination Facility	Waste Collector	Collection Permit No	Vehicle Registration	Name of Load Checker	Initials

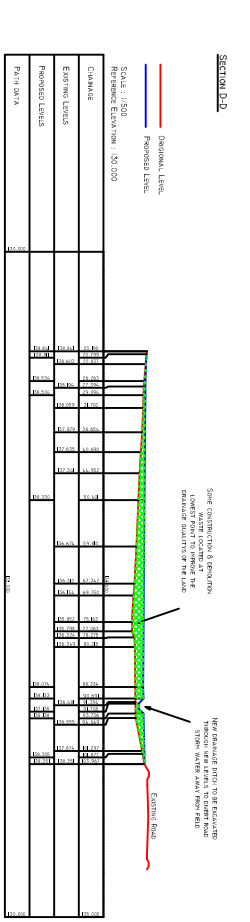
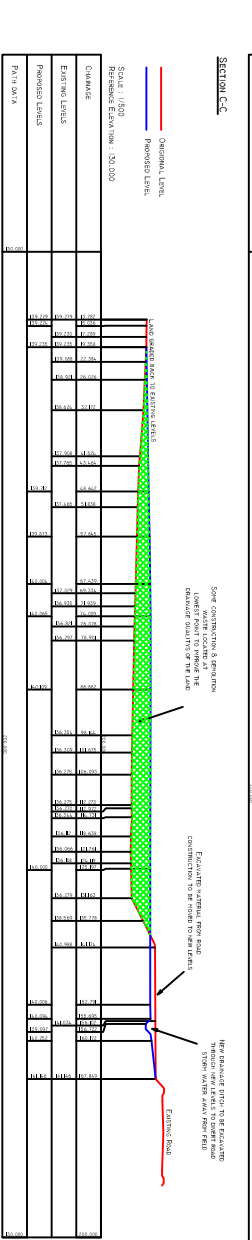
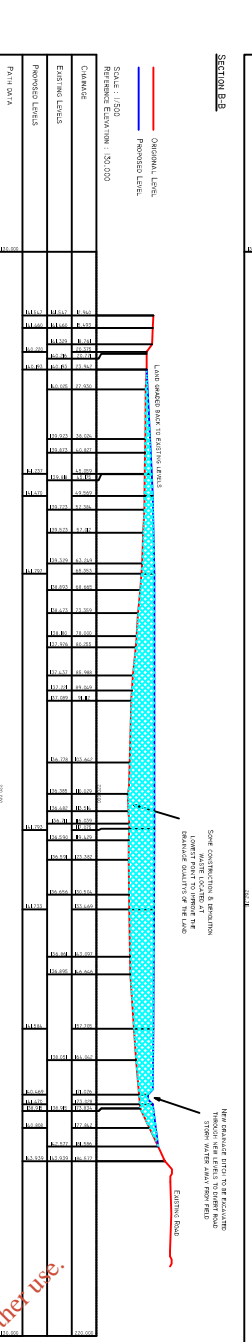
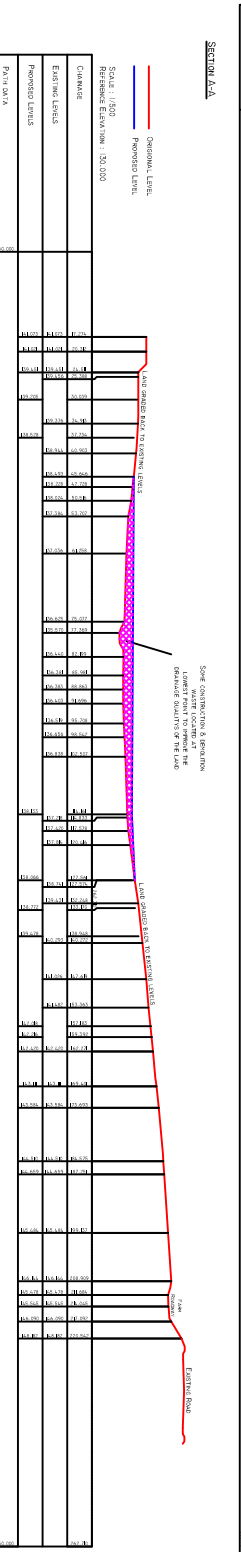
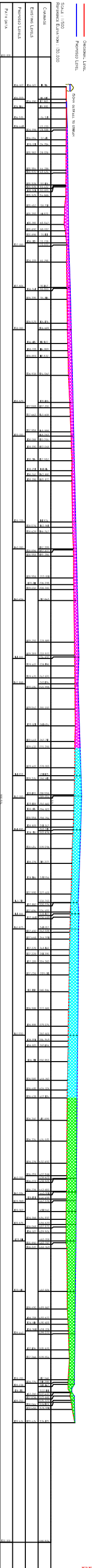
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Template 6 Condition 5.6: Register of Employee Training

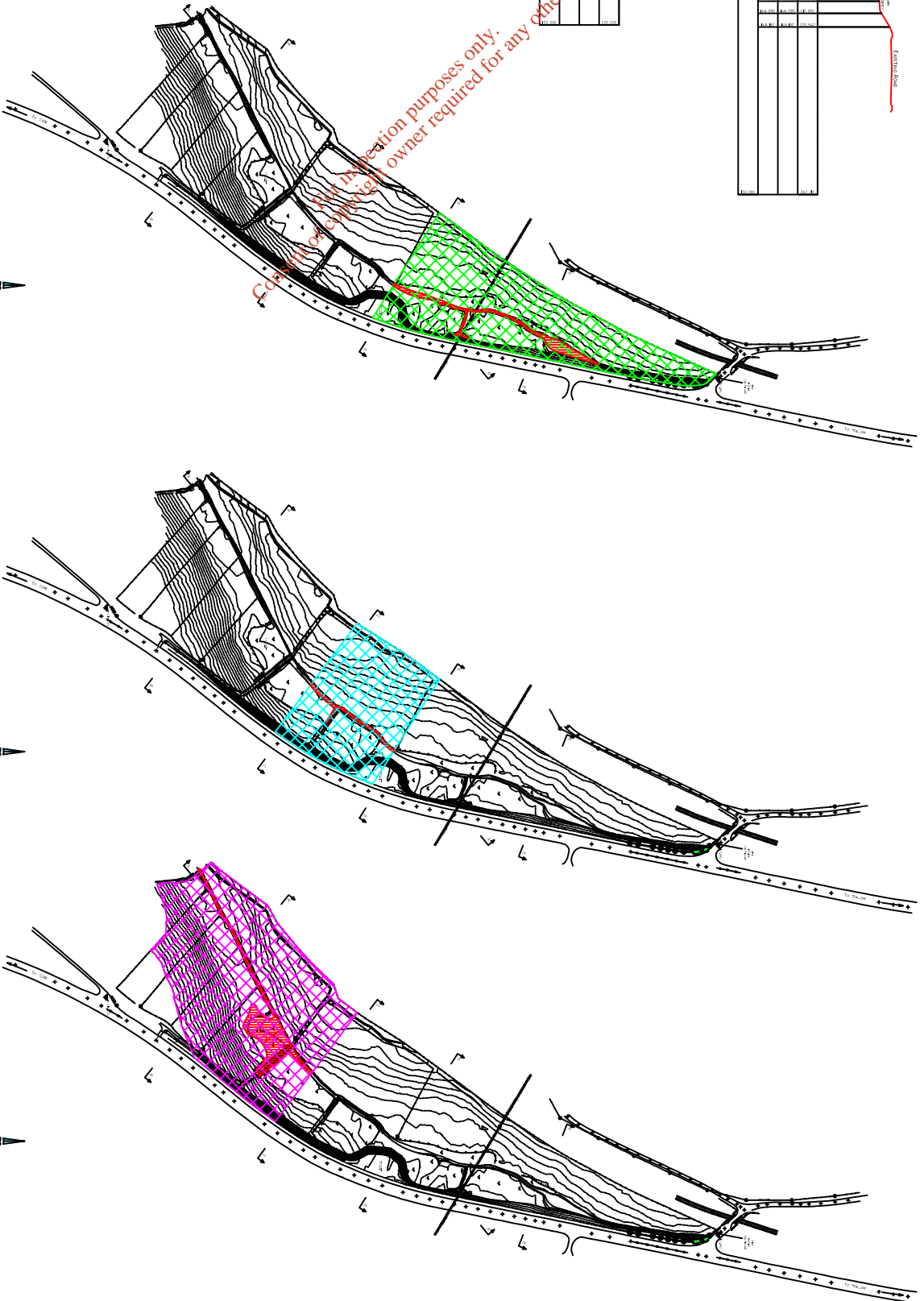
Name of Employee	Training Course	Date of Course

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CONSTRUCTION OF ROAD AT LATEST POINT TO BE DETERMINED BY ELEVATION OF FILLING AND EXISTING ROAD SURFACE. ORIGINAL NUMBER LEVELS INDICATED BY RED DOTTED LINE.



Scale: 1:500
Horizontal Scale: 1:500
Vertical Scale: 1:100



PLAN - YEAR 1
Scale: 1:500

PLAN - YEAR 2
Scale: 1:500

PLAN - YEAR 3
Scale: 1:500

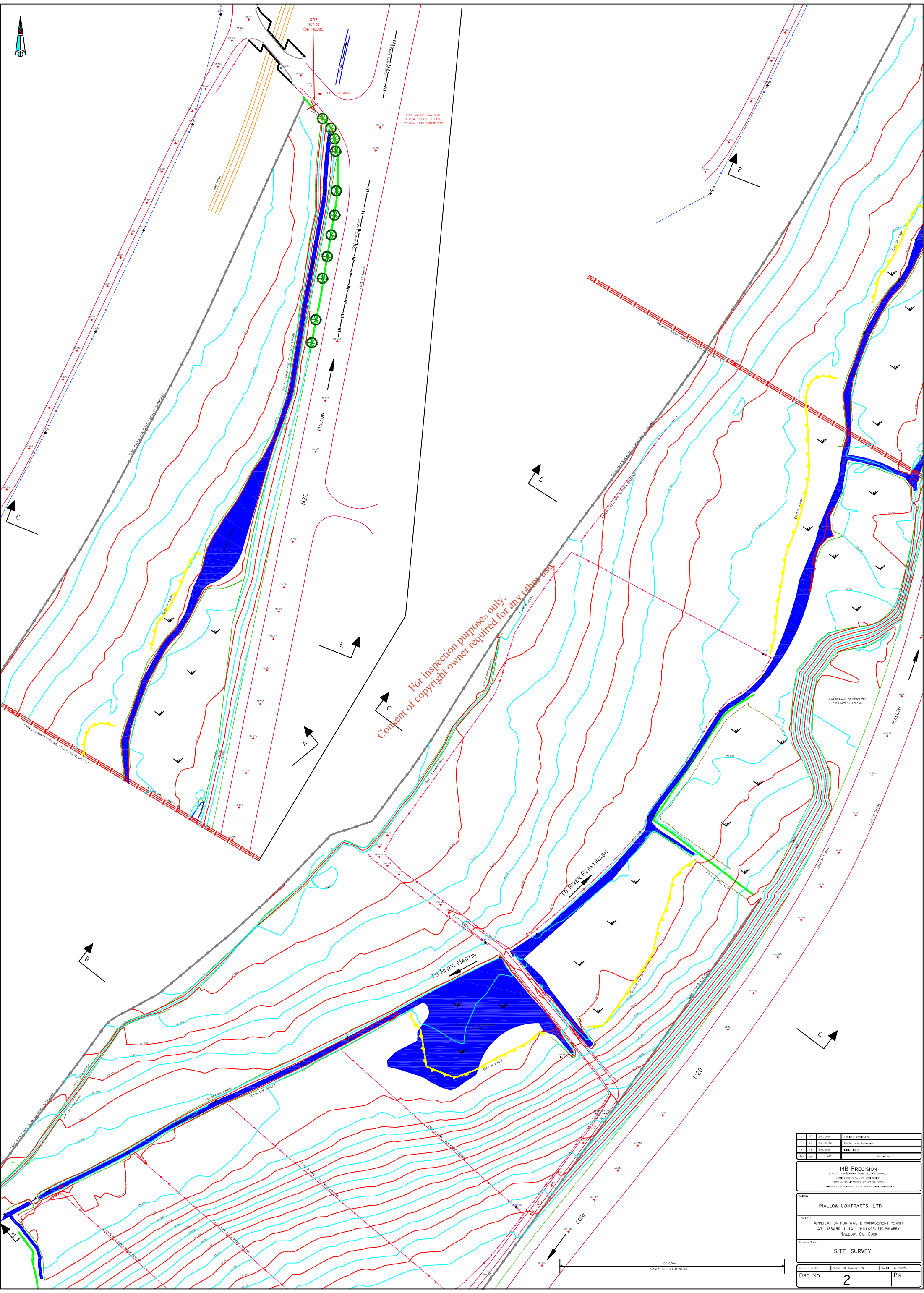
- YEAR ONE - APPX. 37,000 M³
- YEAR TWO - APPX. 37,000 M³
- YEAR THREE - APPX. 37,000 M³
- C & D CHANNEL WORK

NOTE :- EXISTING TOPSOIL STRIPPED IN ADVANCE OF FILLING AND REPLACED AFTER CONSOLIDATION OF FILL AT NEW ELEVATION

1	FOR PPC APPLICATION	12/01/06
0	INITIAL ISSUE	16/10/06
NO	REVISION	

client	MALLOU CONTRACTS LTD.
project	APPLICATION FOR WASTE MANAGEMENT PERMIT
drawing	ANNUAL WORK SCHEDULE OUTLINE

CONSULTING ENGINEERS	mescal & associates
Enterprise House, Centre Park Road, Cork, Ireland.	tel 021-4314388 fax 021-4314395
scale	As Shown
date	OCTOBER 2006
job no	
dra no	1



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1	01/10/2010	Final Approval
2	25/08/2008	Final Planning Permission
3	01/10/2005	Initial Plan
4	01/10/2005	Site Plan

MB PRECISION
 Local Site & Building Services, 3811 Control,
 37 Years Old, 375, Elm, Enniscorthy,
 County Wick, Ireland. Tel: 051 870000. www.mbprecision.com

Client:
MALLOW CONTRACTS LTD

Job Title:
 APPLICATION FOR WASTE MANAGEMENT PERMIT
 AT LISSARD & BALLYHILLOE, MOURNBABY
 MALLOW, CO. CORK.

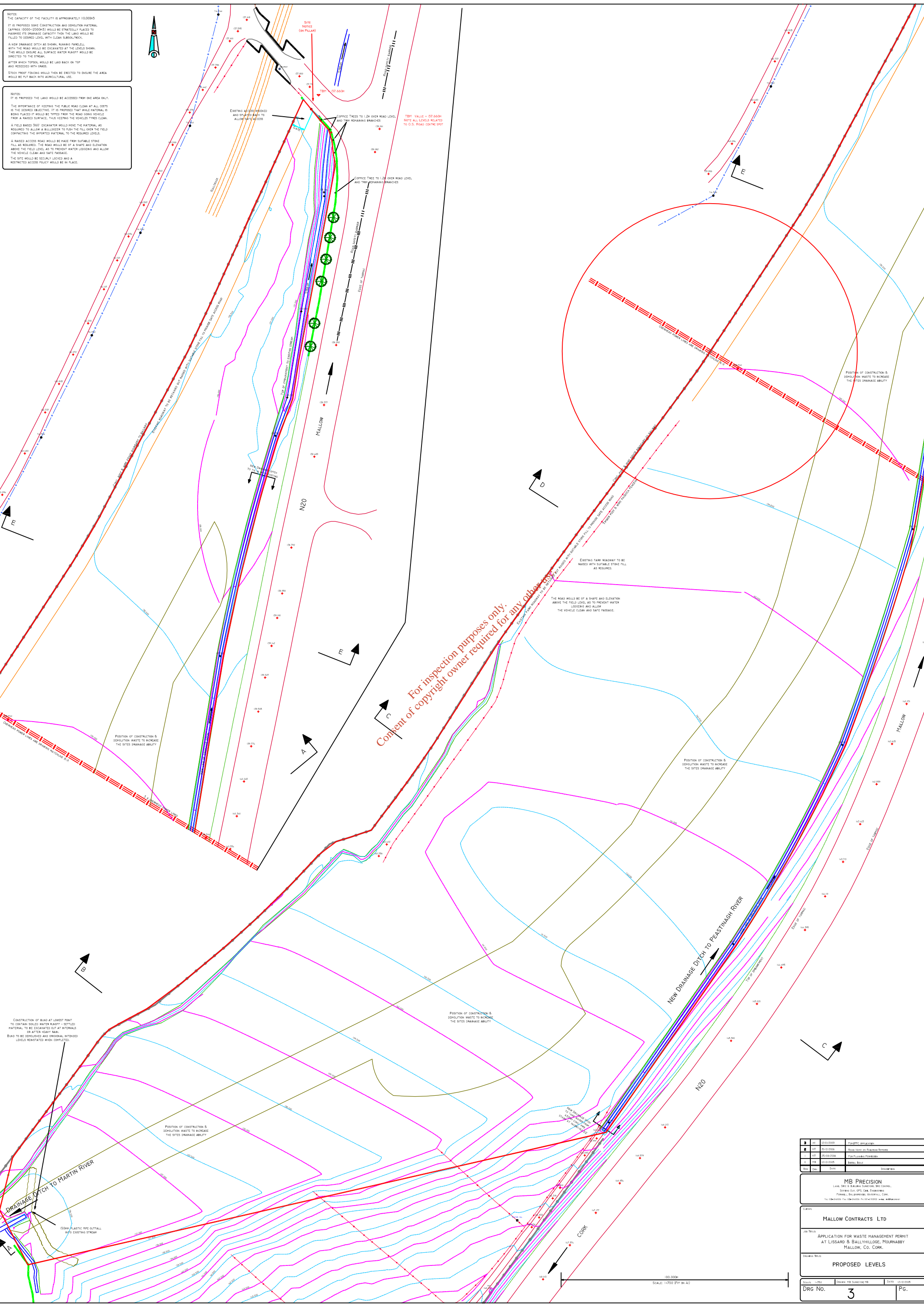
Drawing Title:
SITE SURVEY

Scale: 1:250
 Date: 26/07/2013
 Drawn: J.B. Sullivan
 Checked: J.B. Sullivan

DRG No.: **2** Pg.

NOTES:
 THE CAPACITY OF THE FACILITY IS APPROXIMATELY 10,000m³.
 IT IS PROPOSED SOME CONSTRUCTION AND DEMOLITION MATERIAL (APPROX 5000-2000m³) WOULD BE STRATEGICALLY PLACED TO INCREASE ITS DRAINAGE CAPACITY THAN THE LAND WOULD BE FILLED TO DESIRED LEVEL WITH CLEAN SILVER SAND.
 A NEW DRAINAGE DITCH AS SHOWN, RUNNING PARALLEL WITH THE ROAD WOULD BE EXCAVATED AT THE LEVELS SHOWN. THIS WOULD ENSURE ALL SURFACE WATER RUNOFF WOULD BE DIRECTED TO THE STRIPWAY.
 AFTER WHICH TOPSOIL WOULD BE LAD BACK ON TOP AND ACCESSIBLE WITH TRAKS.
 STOCK PROOF FENCINGS WOULD THEN BE ERRECTED TO ENSURE THE AREA WOULD BE PUT BACK INTO AGRICULTURAL USE.

NOTES:
 IT IS PROPOSED THE LAND WOULD BE ACCESSIBLE FROM ONE AREA ONLY. THE IMPORTANCE OF KEEPING THE PUBLIC ROAD CLEAR AT ALL COSTS IS THE DESIRED OBJECTIVE. IT IS PROPOSED THAT WHEEL PATTERNS BE BUILT PLACED IF WOULD BE TIPPED FROM THE ROAD GOING VEHICLES FROM A RAISED SURFACE. THIS KEEPING THE VEHICLES TIRMS CLEAN.
 A FIELD BARRIAD 340' EXCAVATOR WOULD MOVE THE MATERIAL AS REQUIRED TO ALLOW A BULLDOZER TO PUSH THE FILL OVER THE FIELD CONTACTING THE IMPROVED MATERIAL TO THE REQUIRED LEVELS.
 A RAISED ACCESS ROAD WOULD BE MADE FROM SUITABLE STONE FILL AS REQUIRED. THE ROAD WOULD BE OF A SHAPE AND ELEVATION ABOVE THE FIELD LEVELS AS TO PREVENT WATER LOGGING AND ALLOW THE VEHICLE CLEAN AND SAFE PASSAGE.
 THE SITE WOULD BE SECURELY LOCKED AND A RESTRICTED ACCESS POLICY WOULD BE IN PLACE.



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1	20/03/2014	Engineering Approval
2	20/03/2014	Issue for public comment
3	25/08/2014	Final Planning Permission
4	20/03/2015	Issue for
5	20/03/2015	Submission

MB PRECISION
 Local, State & National Government Consultants
 100/101 St. James Street, Dublin 8, Co. Dublin
 Tel: 01 454 4444 Fax: 01 454 4445 www.mbprecision.com

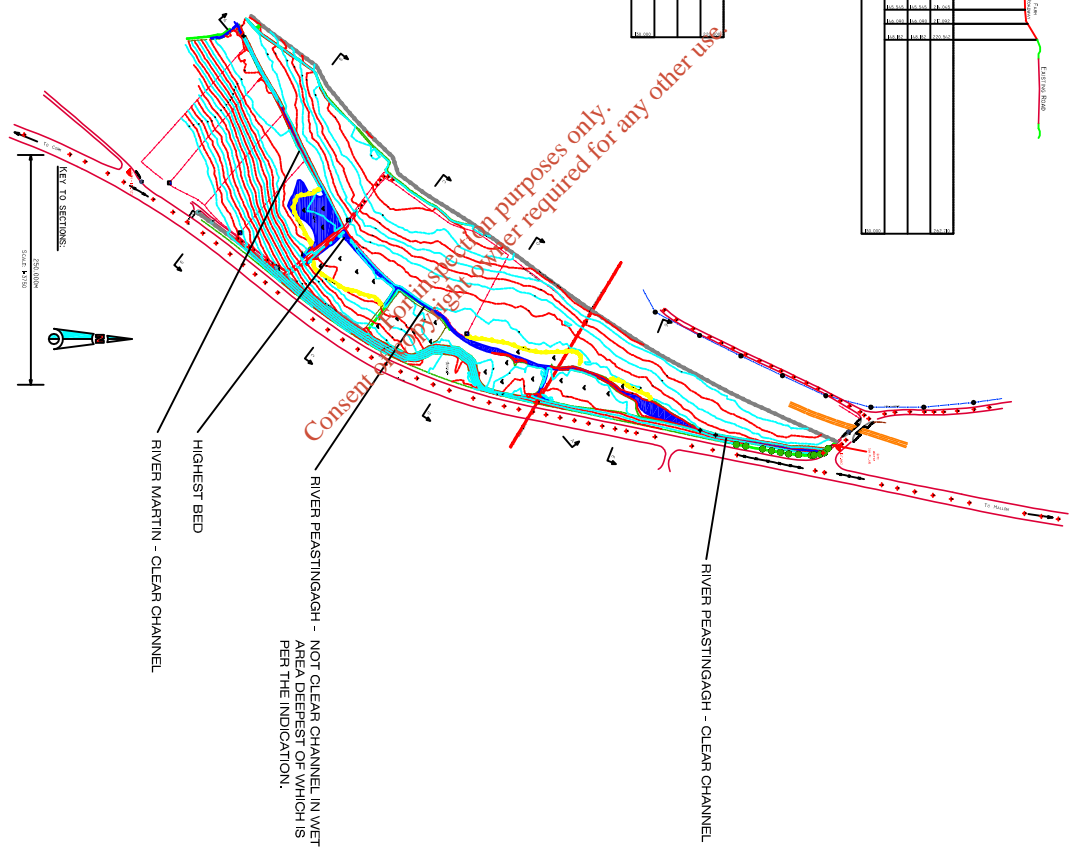
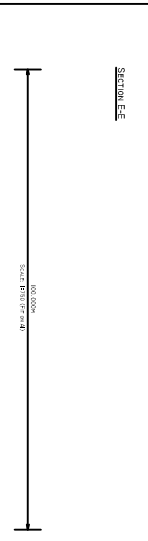
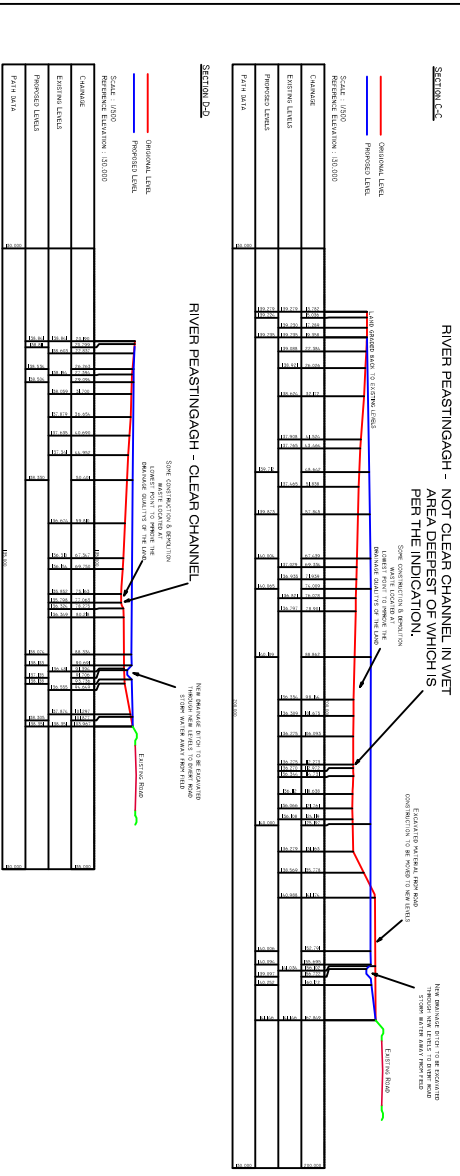
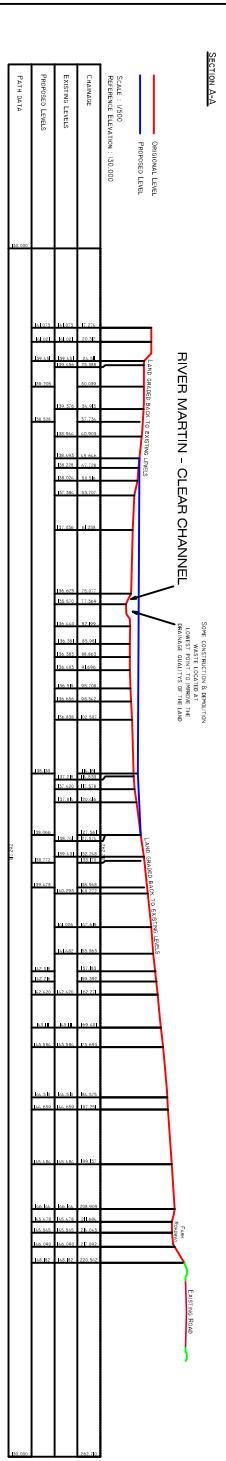
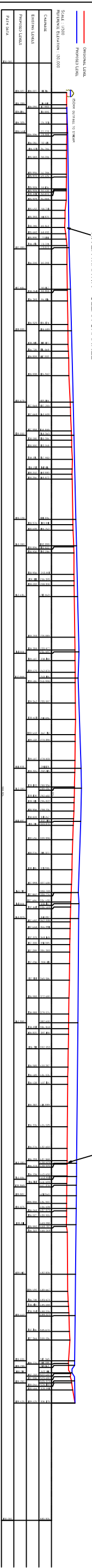
MALLOW CONTRACTS LTD

APPLICATION FOR WASTE MANAGEMENT PERMIT
 AT LISSARD & BALLYHILLOE, MOURNABBY
 MALLOW, CO. CORK.

PROPOSED LEVELS

Scale: 1:250
 Date: 20/03/2014
 DRG No. **3** Pg.

CONSTRUCTION OF RIVER PEASTINGAGH
 TO COMPLY WITH THE WASTE PERMIT
 CONDITIONS AND TO PROVIDE A CLEAR
 CHANNEL FOR THE RIVER TO FLOW
 THROUGH THE WASTE TREATMENT
 PLANT AND TO BE RE-RELEASED
 INTO THE RIVER AT THE TREATMENT
 PLANT EFFLUENT TREATMENT
 PLANT.



1	22	20/10/2008	7 PM APT. CONSTRUCTION
2	17	14/10/2008	WORK ON CHANNEL CLEAR
3	16	14/10/2008	FOR MAINTENANCE PERMITS
4	15	10/10/2008	FINAL BID
5	14	08/10/08	DESIGNING

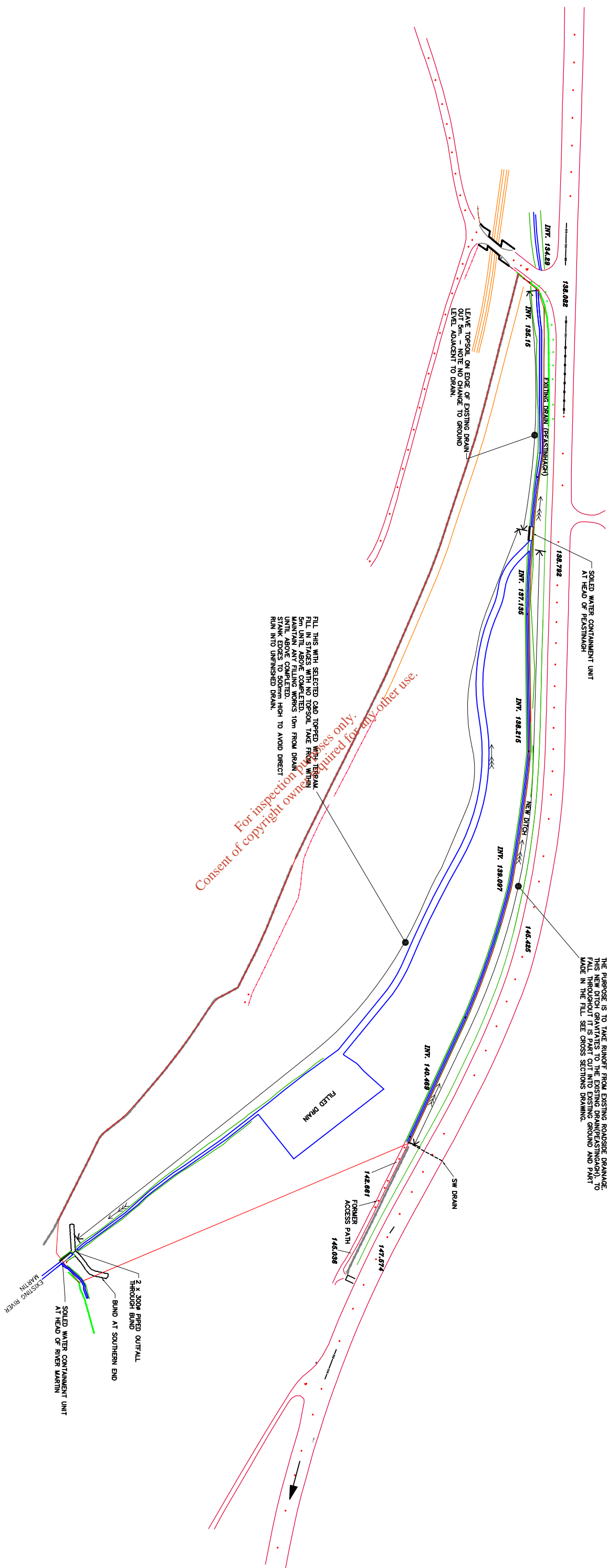
MB PRECISION
 LAMB, SINE & BULLOCK SHAPING SERVICES
 DESIGNING, CONSTRUCTION, CONTRACTING
 10, CHANTRY ROAD, BALLYVAUGHAN, DUBLIN 14, IRELAND

CLIENT
 MALLOW CONTRACTS LTD

PROJECT
 APPLICATION FOR WASTE MANAGEMENT PERMIT
 AT LISSARD & BALLYVAUGHAN, MOURNABBY
 MALLOW, CO. CORR.

SECTIONS

DATE: 20/10/2008
 TIME: 08:50 AM
 DATE: 20/10/2008
 DRAW NO.: 4
 PG.

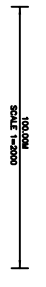


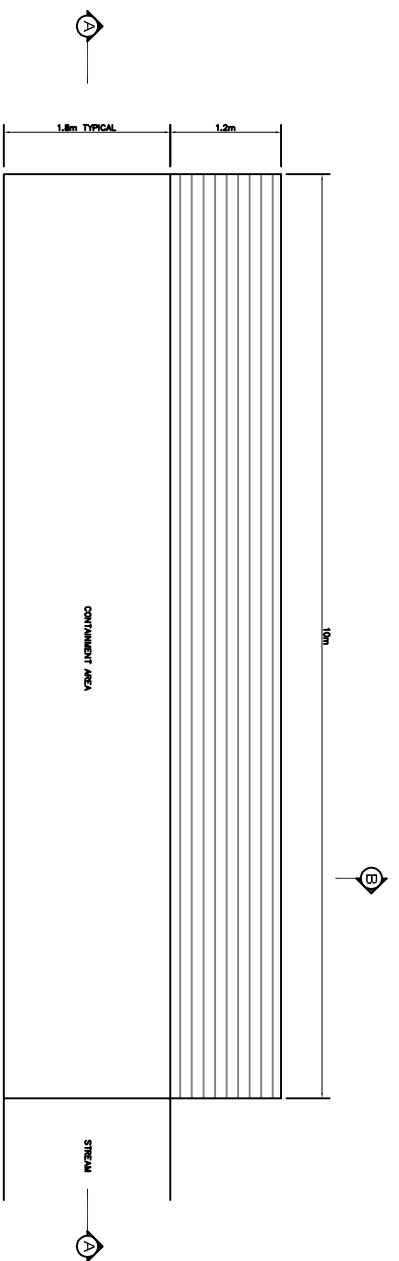
1	FOR PPC APPLICATION	12/01/09
0	INITIAL ISSUE	18/12/08
NO	REVISION	ditb

client MALLOW CONTRACTS LTD.
 project APPLICATION FOR WASTE MANAGEMENT PERMIT
 drawing OVERALL CHANNEL DRAINAGE

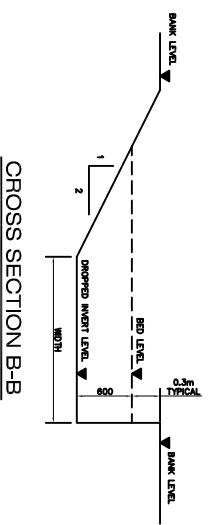
mesccal & associates
 CONSULTING ENGINEERS

Enterprise House,
 Centre Park Road, Cork, Ireland.
 tel 021-4314388
 fax 021-4314369
 scale As Shown
 date DECEMBER 2008
 job no
 dfg no 5





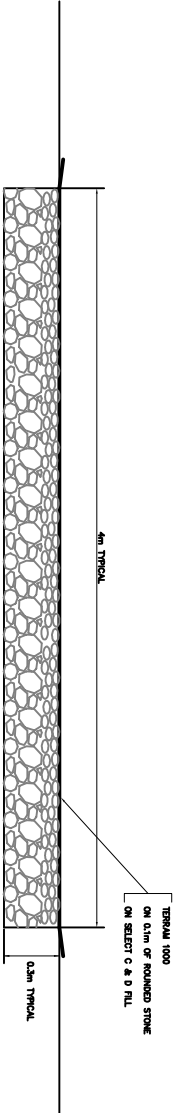
LONG SECTION A-A



CROSS SECTION B-B

- NOTE:-
- 1 No. AT INVERT, TO BE CONSTRUCTED IN FULL AREA.
 - EXCAVATION AT INVERTS.
 - 1 No. AT OUTFALL TO RIVER QUANTIL.
 - 1 No. AT OUTFALL TO RIVER PEASTINGGAGH.

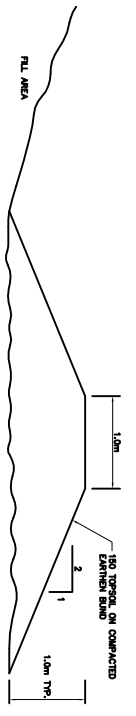
DETAILS OF SOILED WATER CONTAINMENT MEASURES



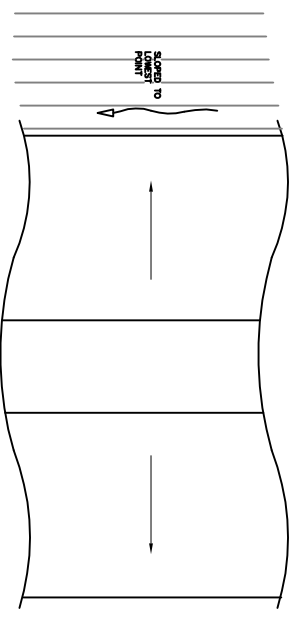
NOTE:- "TOWER" AT CENTRE POINT SHOWN PART YEAR, PART YEAR 3 TO BE TREATED AS ABOVE OVER WIDTH OF "TOWER".

PROPOSED FILLING OF EXISTING DRAIN

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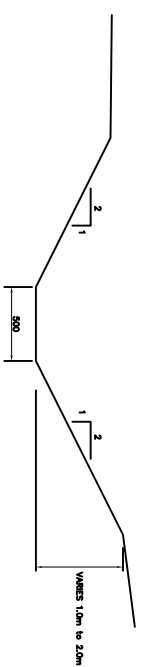


SECTION



PLAN

BUND AT SOUTHERN END



NEW DRAINAGE DITCH LINKING TO EXISTING STREAM (HEAD OF PEASTINGGAGH RIVER) BESIDE N20

NO	REVISION	DATE
3	FOR RFP APPLICATION	12/01/09
2	MINOR CLARIFICATIONS TO DIMENSIONS	14/12/08
1	NEW DITCH BESIDE N20 SHOWN	09/11/08
0	INITIAL ISSUE	19/10/08

client	MALLOW CONTRACTS LTD.
project	APPLICATION OF WASTE MANAGEMENT PERMIT
drawing	SANITARY DETAILS

CONSULTING ENGINEERS

mescal & associates

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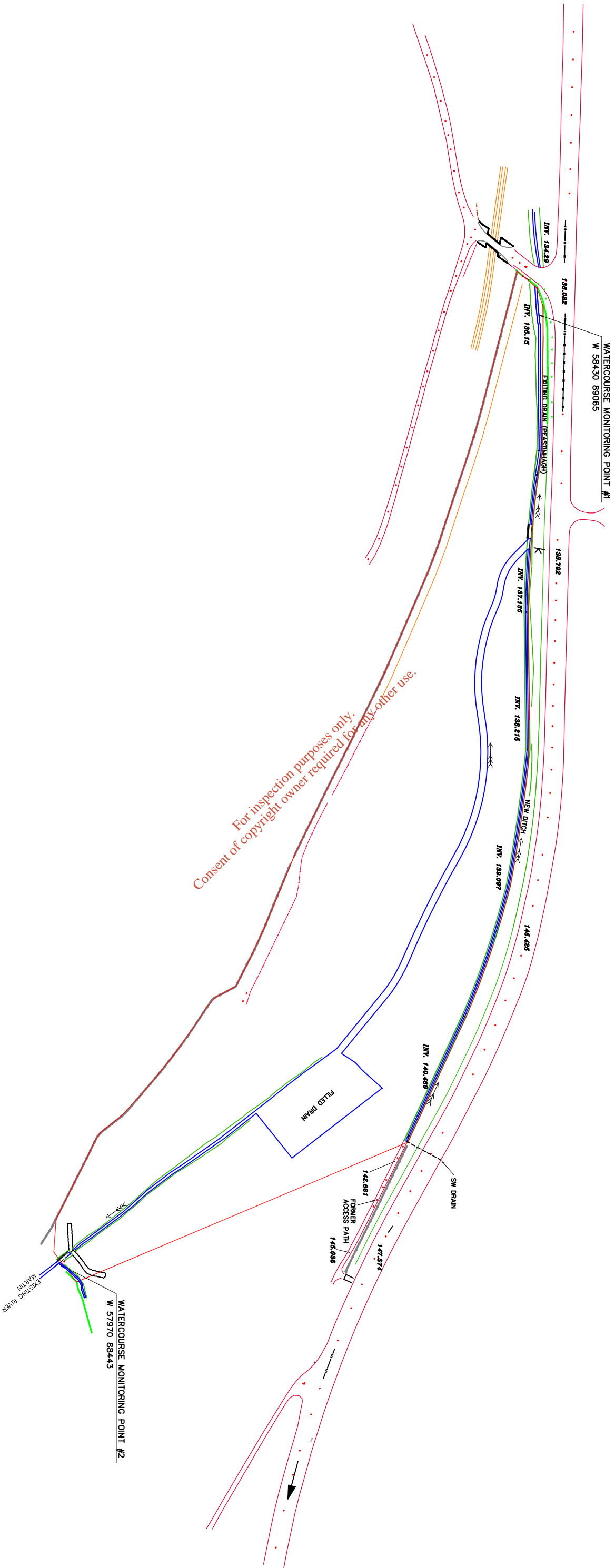
tel 021-4314388
fax 021-4314389

scale As Shown

date OCTOBER 2008

job no

drwg no 6



no	revision	date
1	FOR PPC APPLICATION	12/01/09
0	INITIAL ISSUE	08/12/08

client	MALLOW CONTRACTS LTD.
project	APPLICATION FOR WASTE LICENCE
drawing	WATERCOURSE MONITORING POINTS

CONSULTING ENGINEERS

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fax 021-4314369
scale As Shown
job no
drg no 7
date DECEMBER 2008

SCALE 1:500