

## **D.1 Infrastructure**

- D.1.a** The site is fenced all around. The access side, north side, has 2 m higher fencing and a lockable gate.
- D.1.b** Site roadway running along western boundary, i.e. railway side, is sized and constructed to take fully laden lorries and other heavy vehicles. It consists of gravel, on fines, on hardcore, on prepared stripped base. This site roadway has a number of turning areas in it.
- D.1.c** Hardstanding areas are constructed similar to the roadway. They are located primarily circa the entrance, the control office, and the lorry wash areas.
- D.1.d** The plant normally has on-site are – backacter 1 m<sup>3</sup> and a small dozer. On occasions an additional second backacter is used and a JCB may be used for minor works.
- D.1.e** The wheel wash arrangements consists of an initial wheels wetting area within the site followed by another close to the exit for a complete wetting and pressurizing area, see *Drawing No. 14 Wheel Wash*.
- D.1.f** There are no laboratory facilities on-site as they are not required.
- D.1.g** At present there are no fuel storage areas on-site. Fuel is brought in to the site by mobile tanker as required. In the event of transportation of fuel becoming uneconomical fuel storage with integral bund will be proved on-site. Details of this storage are given on *Drawing No. 15 Fuel Bunding*.
- D.1.h** There is not a specific quarantine area. Waste coming to the site is visually checked by the controller and is again viewed after deposition from the lorry. In the event, which has not occurred to date, of the material showing to be unsuitable then the tipped contents would be barricaded and the supplier would be contacted to take same off-site.
- D.1.i** The waste is inspected at the controller's cabin upon coming onto the site and it is then viewed again after deposition within the site prior to final placement.
- D.1.j** The access to the site is quite open. The principal area of requirement for care and control is the access to the feeding N20 and to a lesser extent at the gateway entrance at Ivyhouse Bridge. This entrance has been in place for approximately two (2) years.
- D.1.k** There is no additional sewerage or surface water outfalls resulting from the operation. Portable toilet is taken off-site for disposal.
- D.1.l** Electrical cable crossing the site is indicated and protected by high post and bar arrangements to meet the requirements of the ESB.
- D.1.m** There is a locked container beside the controller's cabin used for storage of equipment.
- D.1.n** The controller's cabin is a converted container with a toilet area. This has a viewing facility for the in-coming trucks and southwards to the filling area. This has been in place for the last two (2) years.

- D.1.o** There is a pumped water facility in place at the northern stream for filling the lorry wash containers. Water, none-potable, is available from the lorry wash and from the pump at the stream. This water is available if required for fire fighting.
- D.1.p** There are no civic amenity facilities on-site. The site is private property and is not open to the public.
- D.1.q** Incidental rubbish is collected in a bin on-site and taken away at intervals for disposal by Mallow Landfill.
- D.1.r** There is no composting carried out on-site.
- D.1.s** C & D waste is deposited and handled separately on-site. Its points of temporary storage has varied as the filled area progressed southwards over the last two (2) years.
- D.1.t** There is no incineration carried out on-site.
- D.1.u** The existing Peastinagh River and the River Martin on-site are protected from ingress as required in the planning permission.

## **D.2 Facility Operation**

### Method Statement – Mallow Contracts @ Ivyhouse Bridge

- Set up Signage required by Local Authority, including permit specifications:
- Condition 4: Site Access
  - 4.1 Prior to the importation of any waste to the site, the permit holder shall erect warning/safety signs as per the Traffic Signs Manual (DOE) on the approaches to the site entrance. *[This is completed]*
  - 4.3 Within 2 months of the date of the grant of this permit, the Permit Holder shall erect an information board at the entrance to the site. The minimum dimensions of the information board shall be 1200mm by 750mm. The board shall show: (i) The name, address and telephone number of the facility, (ii) the waste permit reference number *[This is completed and a new licence number will replace the permit number]*, (iii) emergency contact number outside of operating hours.
- Construct the entrance gateway and associated fencing. *[This is completed]*
- Construct Wheel Wash. Provide water for wheel wash by pump from R. Peastinagh or R. Martin should supply be short. *[This is completed]*
- Fuel is brought in on mobile and does not remain on site.
- Hardcore to site road at access and throughout most of site.
- Ensure Irish Rail fence line is complete throughout. *[This is completed]*

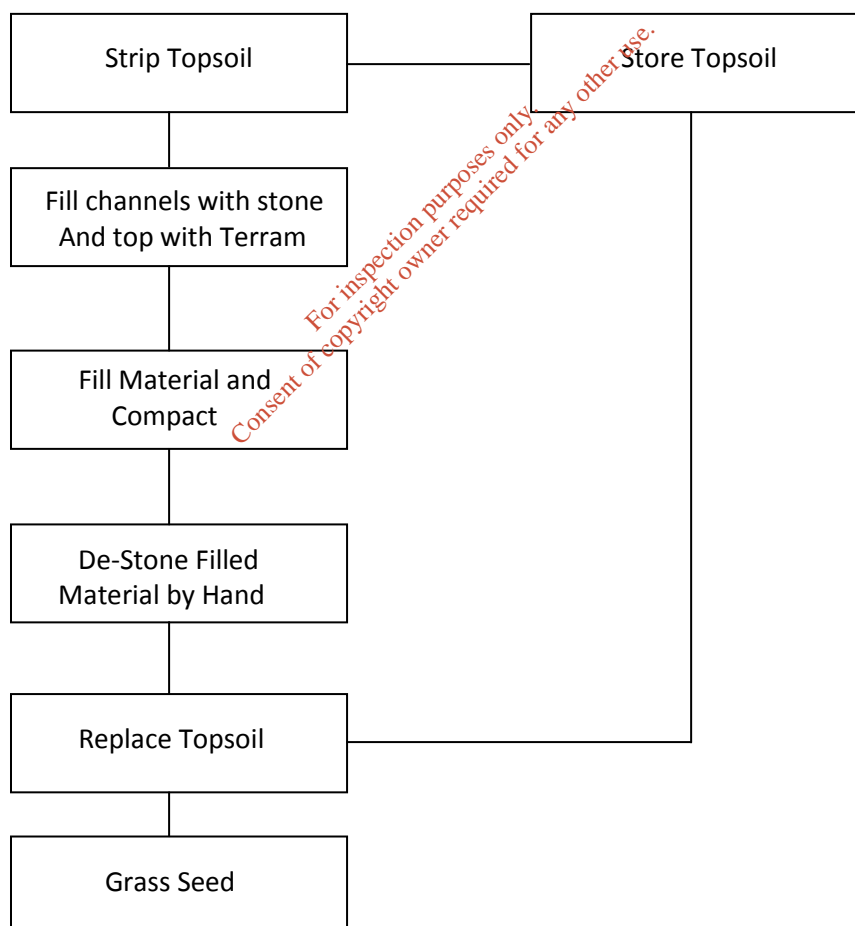
- Complete ESB overhead barriers in vicinity of overhead power line. Refer to *Drawing No. 16 'ESB Power line/Pole'*. *[This is completed]*
- Strip topsoil progressively from the North end in Year 1 area. Strip approximately 1/3 of the area at a time. Store ahead of stripping to allow for local haul back to topsoil. *[This is current procedure]*
- 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 site plant will include tracked backhauler 11/4 yd, bulldozer D4, and jeep (part-time).
- As work is progressing clean out each catch basin on a weekly basis.
- As work progresses replace topsoil after consolidation for typically 2 months. Take up any local subsidence with more topsoil after further period. *[The top is currently awaiting topsoil]*
- As work progresses keep orderly movement of plant on site and neat overnight parking.
- 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.
- Throughout conduct orderly site with consistent and new movement of plant. Throughout maintain a dust nuisance site using water spray dust suppression in summertime if necessary.

The total quantity of material to be recovered onto site is 110,000 m<sup>3</sup>. This material will be made up of topsoil, subsoil, rock fill and minor quantities of construction and demolition waste. The latter will not exceed 5% of the total material. The breakdown of topsoil, subsoil, and rock fill is not possible to accurately estimate because it is largely depend on the supply source which is not yet determined. There will presumably be many of them. Due care will be taken to ensure that they are used in the fill area to leave a workable and good agricultural ground.

Refer to *Drawing No. 17 'Annual Work Schedule Outline'*.

During any normal operations of the facility that may cause emissions to the environment are as follows, dust in the river flows and noise levels. To prevent emissions to the river flows silt traps have been installed along the N20 open ditch which are cleaned out and re-deposited around the working site at regular intervals. Restricted noise levels as specified in the current waste permit at do not exceed 55 dBa (15 minute  $L_{eq}$ ) between the hours of 08.00 am and 06.00 pm Monday to Friday and between the hours of 08.00 am and 02.00 pm on Saturdays. Noise does not exceed 45 dBa (15 minute  $L_{eq}$ ) at any other time at the site boundaries, ensures that there is little audible disturbance to the surrounding area.

Flow Diagram of Works – Mallow Contracts @ Ivyhouse Bridge

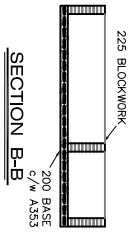
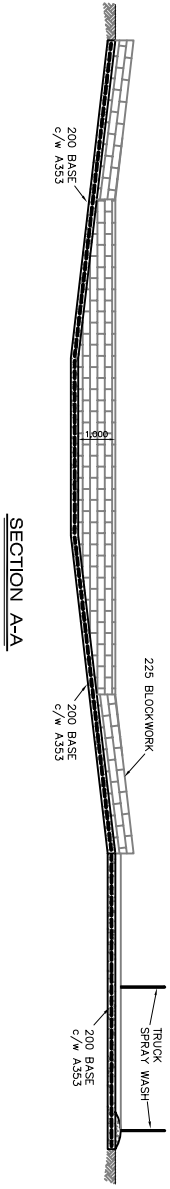
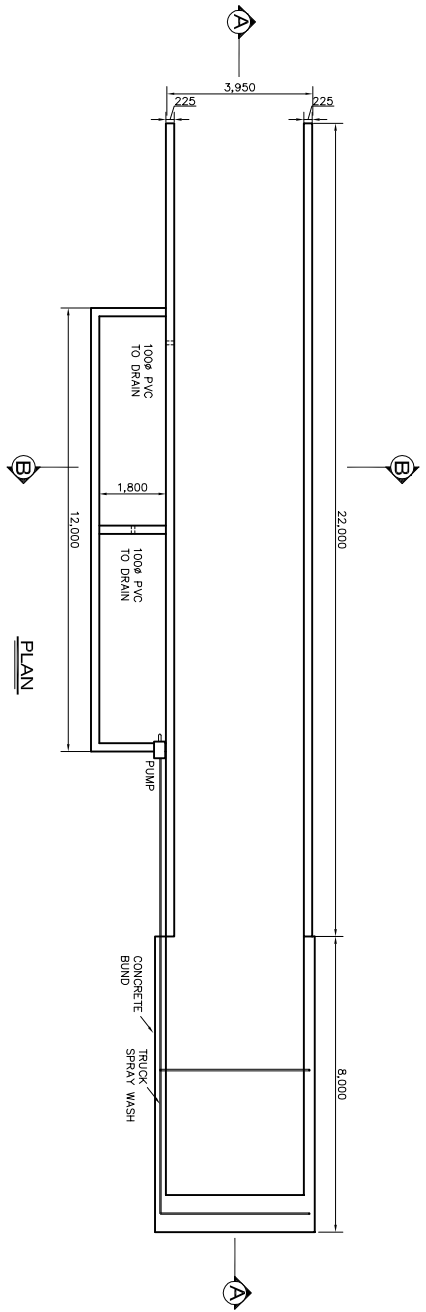


## **D.4 Leachate Management Plan**

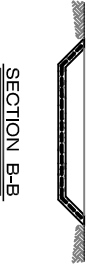
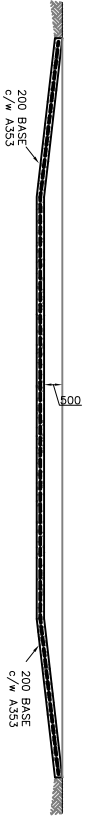
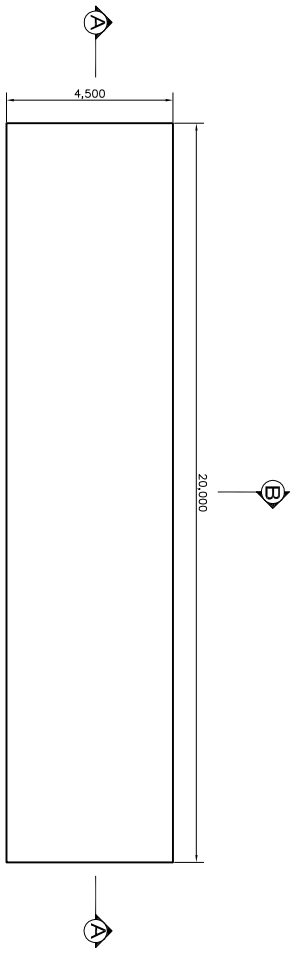
**D.4.a** To prevent any Leachate, two (2) soiled water containment areas have been installed to protect the Peastinagh River and the River Martin. The locations of these containment areas are in *Drawing No. 18 'Overall Channel Drainage'* and details of the same are in *Drawing No. 19 'Sundry Details'*. 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.

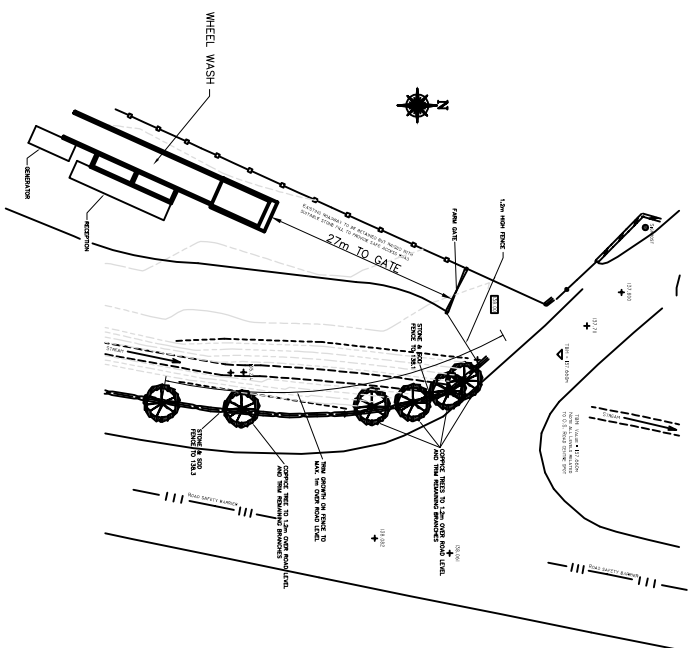
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**MAIN WHEEL WASH**  
1/100

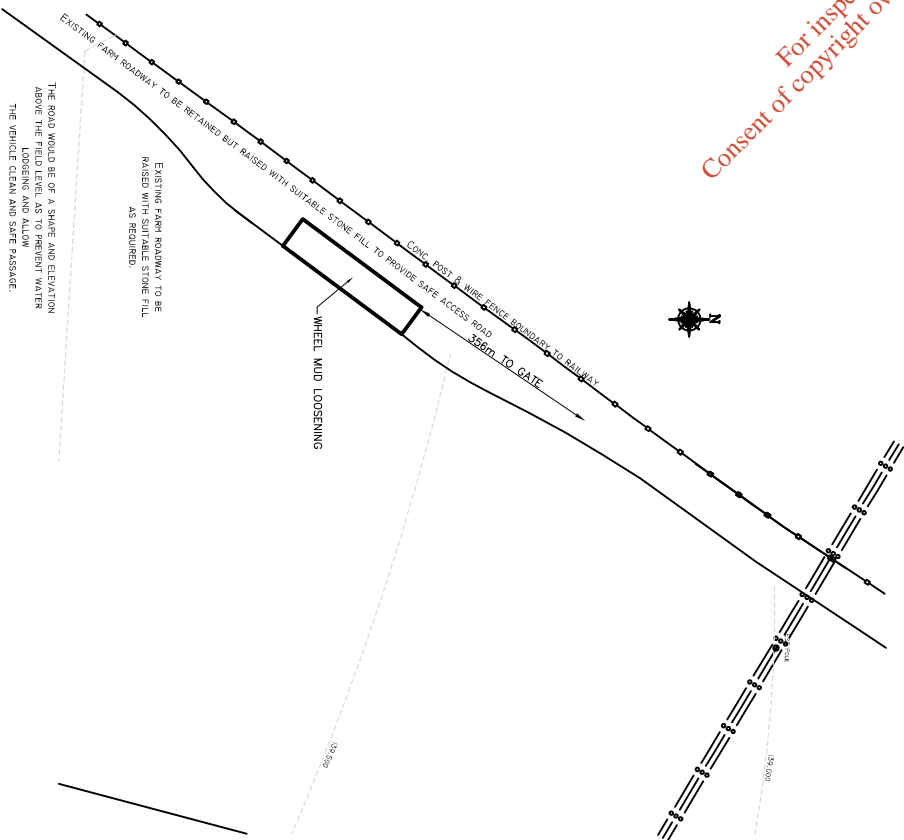


**WHEEL MUD LOOSENING**  
1/100



**LOCATION - MAIN WHEEL WASH**  
1/200

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**LOCATION - WHEEL MUD LOOSENING**  
1/200

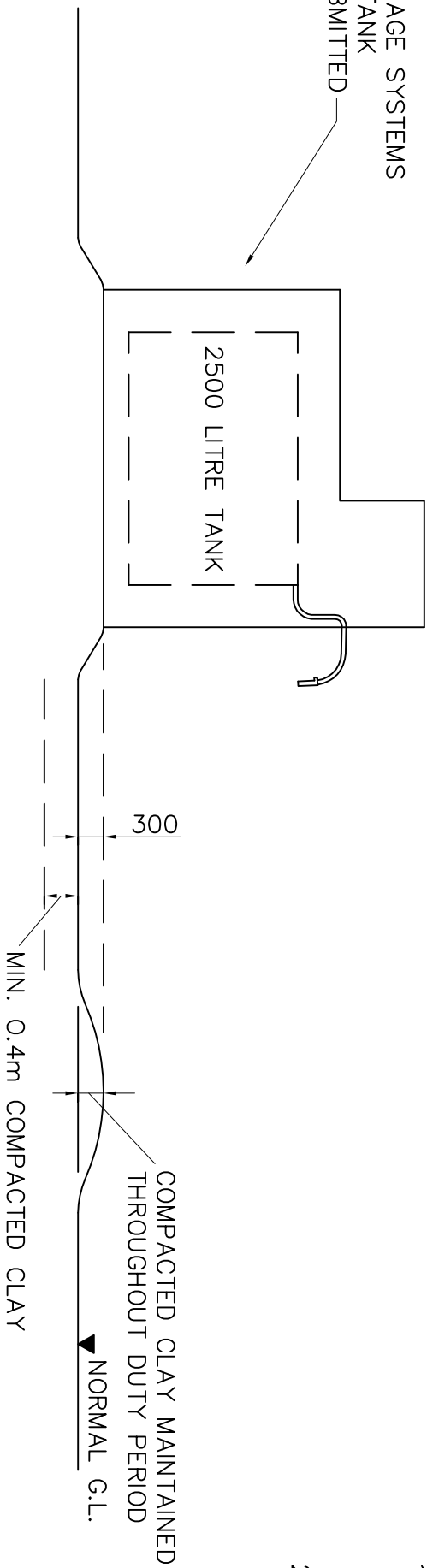
2	FOR PVC APPLICATION	12/01/09
1	BARrier ADDED	14/12/06
0	INITIAL ISSUE	09/11/06
NO	REVISION	DATE

client	MALLOW CONTRACTS LTD.
project	APPLICATION OF WASTE MANAGEMENT PERMIT
drawing	WHEEL WASH

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Gerrifore Park Road, Cork, Ireland.  
tel 021-4314398  
fax 021-4314395  
scale As Shown  
job no  
date NOVEMBER 2008  
drg no 14

BUNDED FUEL TANK

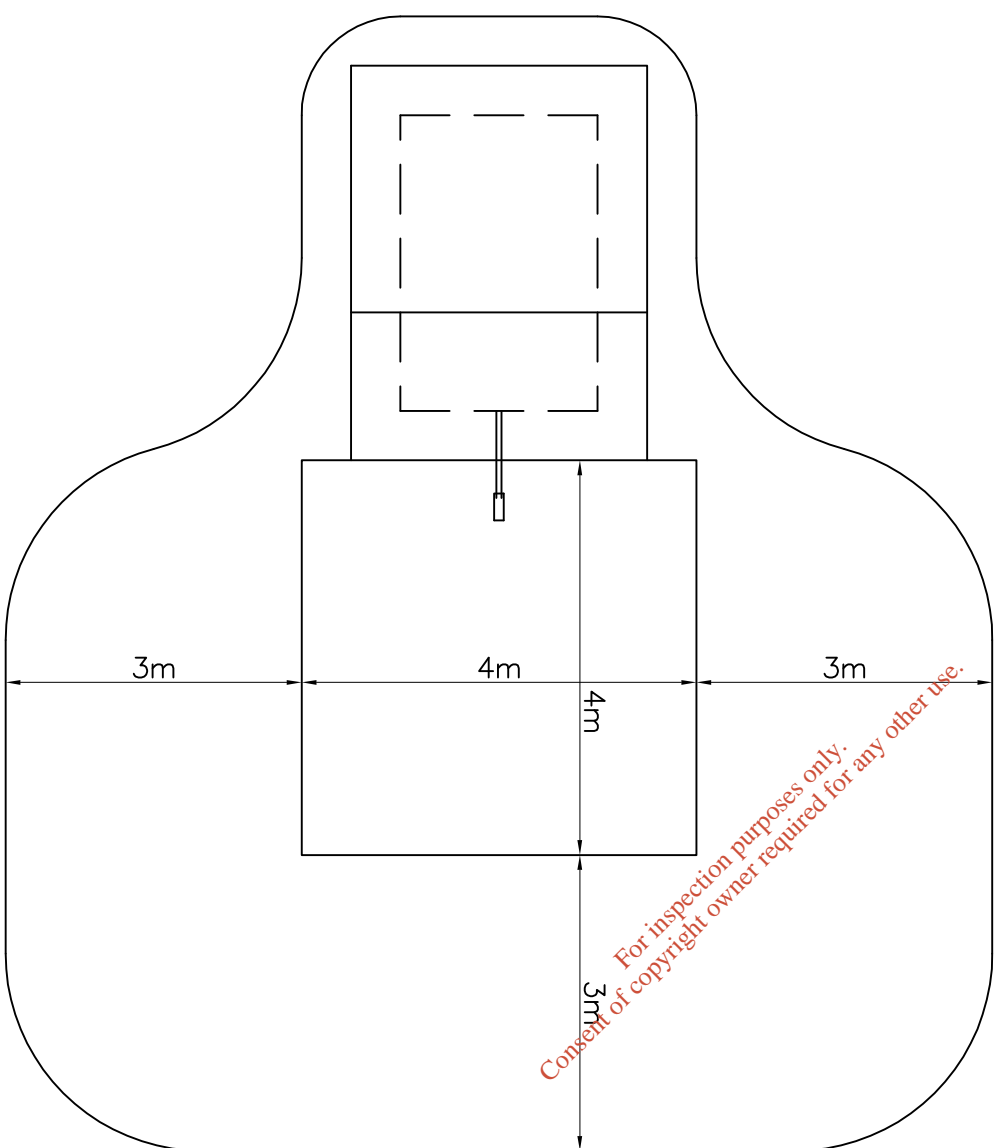
SEE: SAFETY STORAGE SYSTEMS  
2500 LITRE TANK  
ALREADY SUBMITTED



### SECTION

NOTES: -

1. LOCATION OF REFUELLING WILL BE RELOCATED SEVERAL TIMES AS THE WORKS PROCEED OVER 3 YEAR PERIOD
2. PROCEDURE FOR ANY MOTOR REQUIRING FUEL TO LOCATE FUEL TANK ACCESS WITHIN BUNDED AREA PRIOR TO FILLING



### PLAN

## FUEL BUNDING

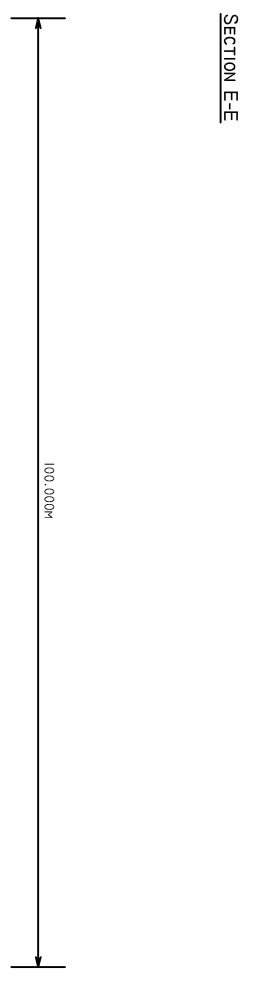
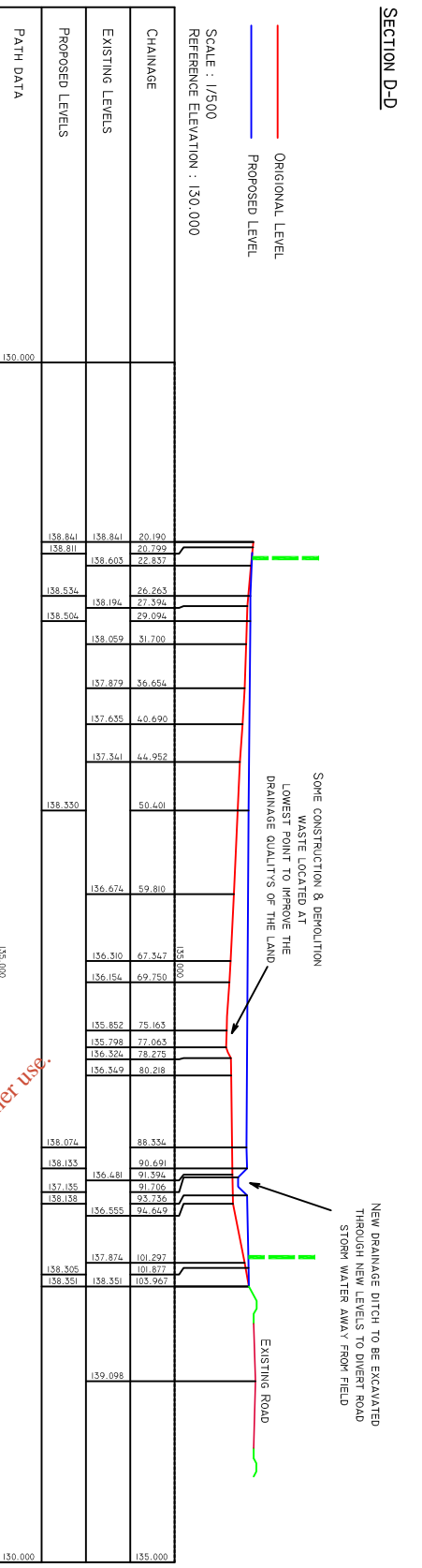
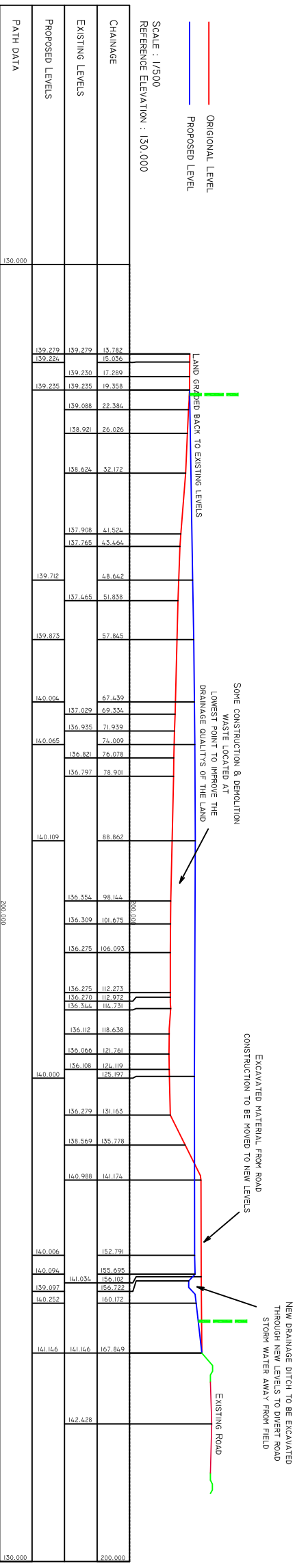
1	FOR IPPC APPLICATION	12/01/09
0	INITIAL ISSUE	18/12/06
no	revision	date

client	MALLOW CONTRACTS LTD
project	APPLICATION FOR WASTE MANAGEMENT PERMIT
drawing	FUEL BUNDING

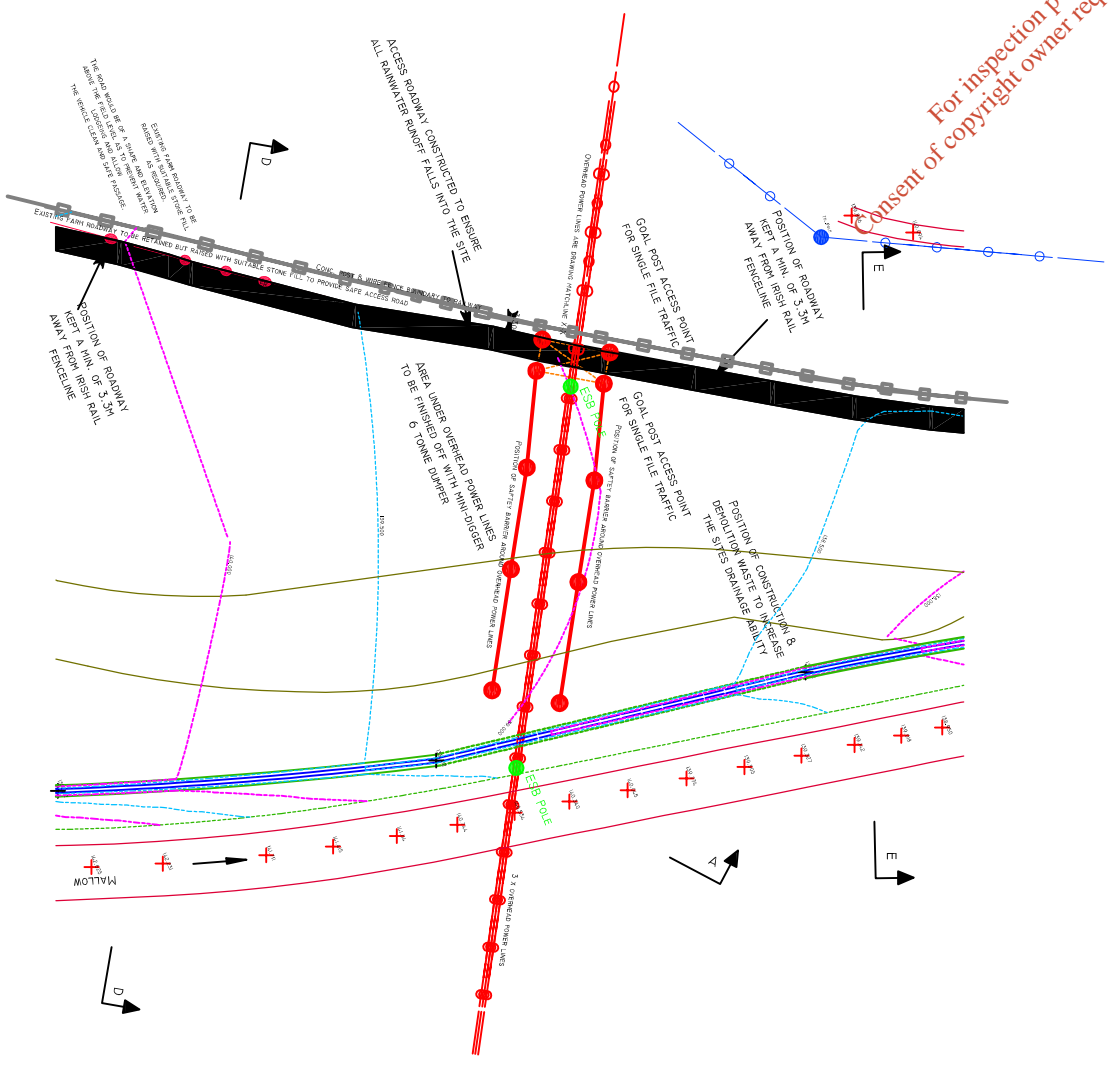
CONSULTING ENGINEERS

**m** **mescal & associates**

Enterprise House, Centre Park Road, Cork, Ireland.	tel 021-4314388		
Scale NTS	date DECEMBER 2006	job no	drg no 15



ESB POWER LINE CROSSES MIDWAY BETWEEN SECTION D-D AND SECTION E-E ABOVE.  
 RELATIVE ESB POWER POLE LOCATIONS INDICATED ABOVE.  
 NOTE PRACTICALLY ZERO CHANGE TO GROUND LEVEL AT POLE LOCATIONS ON THE ESB LINES.  
 NOTE ALSO LINE OF EXISTING ROADWAY WHICH IS CONSIDERABLY ABOVE LEVEL ADJACENT.



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1	AE	12/01/2009	724 PRC APPLICATION
0	NB	12/11/2008	INITIAL ISSUE
Rev	Chg	DATE	DESCRIPTION

**MB PRECISION**  
 LAND SURVEYING & ENGINEERING  
 SETTING OUT, GPS, CIVIL ENGINEERING  
 FARNELL, BALWARRINA, WATERLOO, CO. WA.  
 Tel: 081838484 Fax: 081838485 Email: info@mbprecision.com.au

**CLIENT**  
**MALLOW CONTRACTS LTD.**

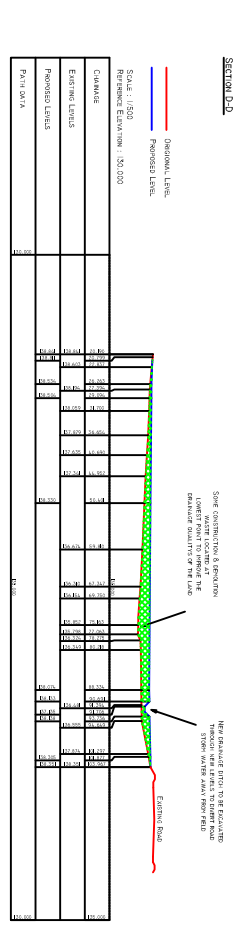
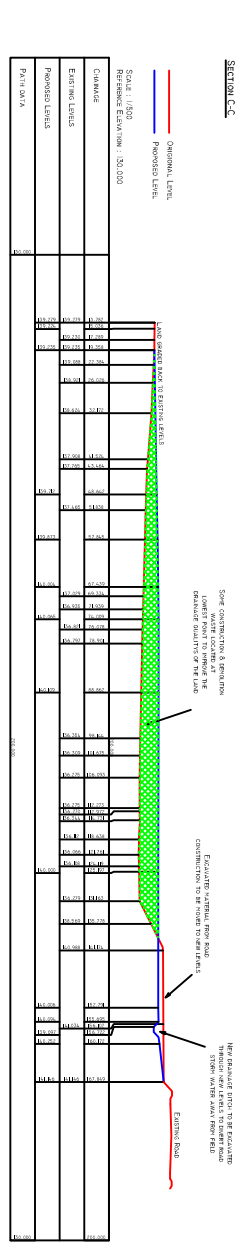
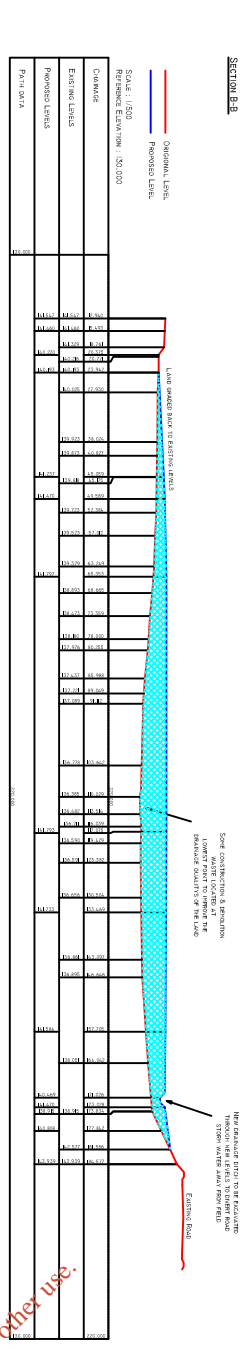
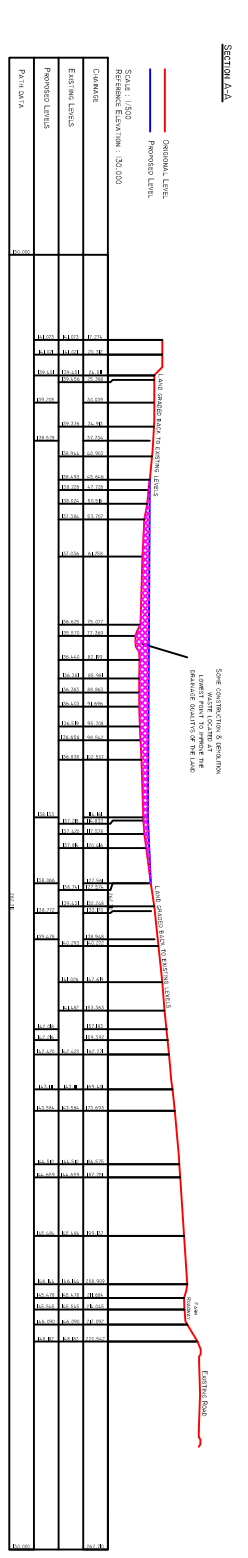
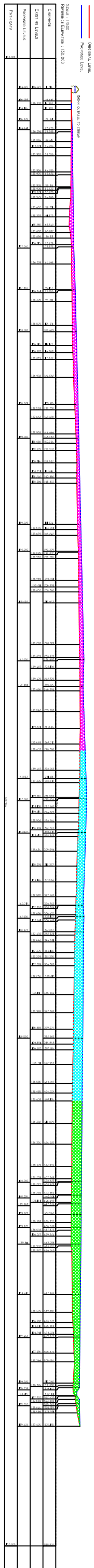
**JOB TITLE**  
 APPLICATION FOR WASTE MANAGEMENT PERMIT  
 AT LISSARD & BALLPHILOE, MOURMABRY  
 MALLOW, CO. CORK.

**DRAWING TITLE**  
 ESB POWER LINE / POLES

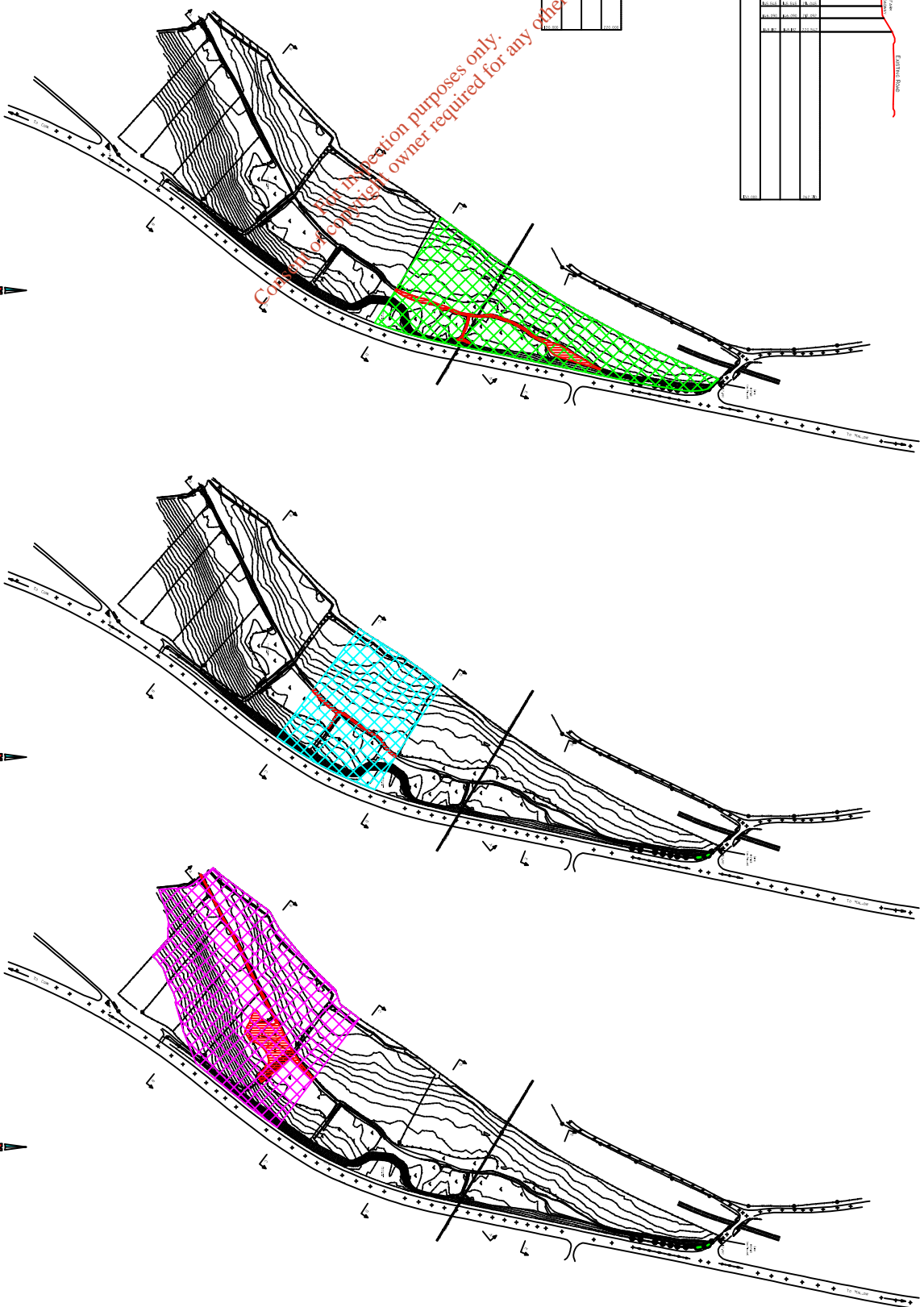
SCALE: 1:200 DRAWN: NB DATE: 10/02/2009  
**DRG NO. 16** Pg.



CONSTRUCTION OF ROAD AT LARGEST POINT TO BE COMPLETED IN ADVANCE OF PERMITTING OF WASTE MANAGEMENT PERMIT. ROAD TO BE CONSTRUCTED AT ORIGINAL ELEVATION WITH ORIGINAL ANCHORS. LEVELS INDICATED ARE CORRECT.



Scale: 1:500  
200.00m  
Scale: 1:500 of 100m



PLAN - YEAR 1  
Scale: 1:500  
200.00m  
Scale: 1:500 of 100m

PLAN - YEAR 2  
Scale: 1:500  
200.00m  
Scale: 1:500 of 100m

PLAN - YEAR 3  
Scale: 1:500  
200.00m  
Scale: 1:500 of 100m

- YEAR ONE - APPX. 37,000 m<sup>3</sup>
- YEAR TWO - APPX. 37,000 m<sup>3</sup>
- YEAR THREE - APPX. 37,000 m<sup>3</sup>
- C & D CHANNEL WORK

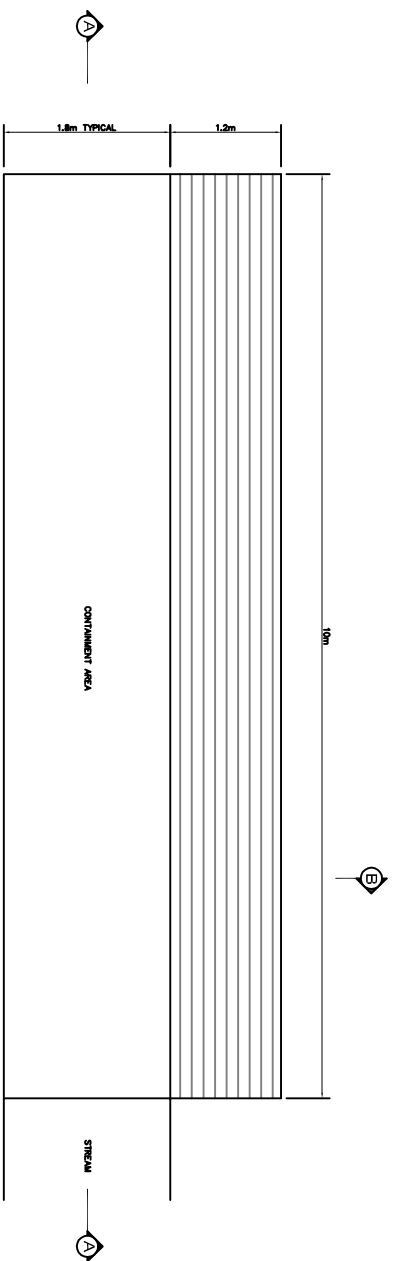
NOTE :- EXISTING TOPSOIL STRIPPED IN ADVANCE OF FILLING AND REPLACED AFTER CONSOLIDATION OF FILL AT NEW ELEVATION

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

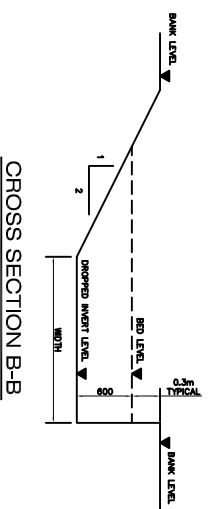
client	MALLOWS CONTRACTS LTD.
project	APPLICATION FOR WASTE MANAGEMENT PERMIT
drawing	ANNUAL WORK SCHEDULE OUTLINE

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 scale As Shown  
 date OCTOBER 2006  
 job no 17  
 dng no 17





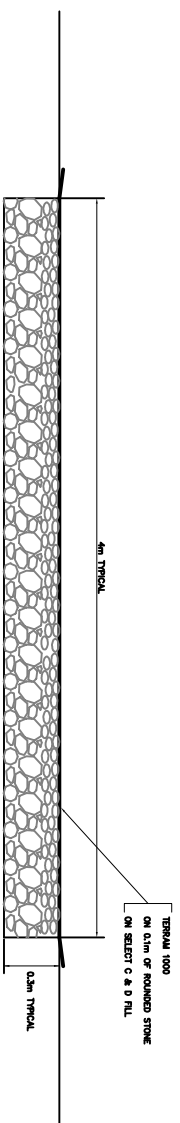
LONG SECTION A-A



CROSS SECTION B-B

NOTE:-  
 \* 1 No. AT OUTFALL TO RIVER QUANTIL  
 \* 1 No. AT OUTFALL TO RIVER PEASTINGGAGH  
 \* 1 No. AT OUTFALL TO RIVER PEASTINGGAGH

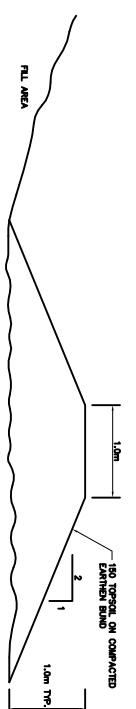
DETAILS OF SOILED WATER CONTAINMENT MEASURES



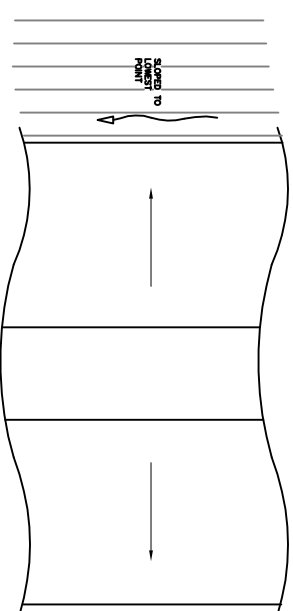
NOTE:- "POUR" AT CENTRE POINT SHOWN PART YEAR, PART YEAR 3 TO BE TREATED AS ABOVE OVER WIDTH OF "POUR".

PROPOSED FILLING OF EXISTING DRAIN

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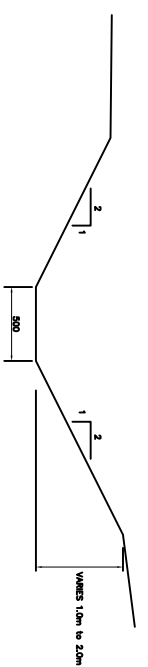


SECTION



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	18/10/08

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

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