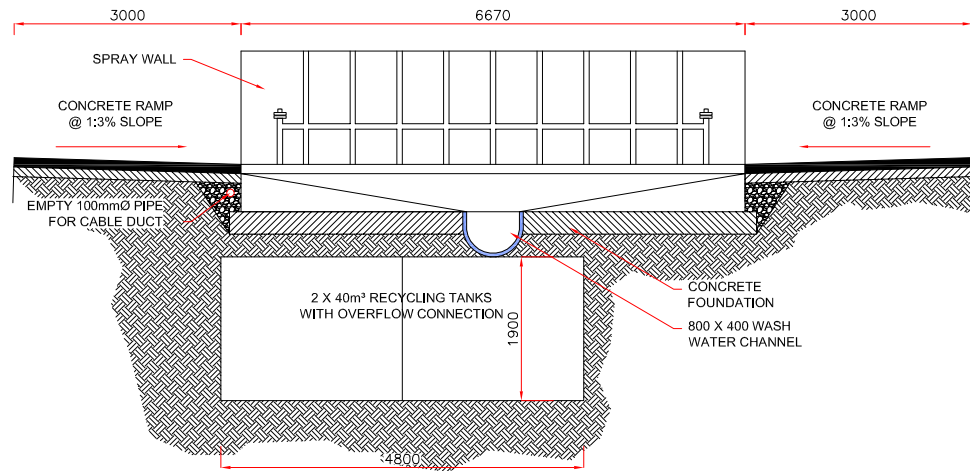
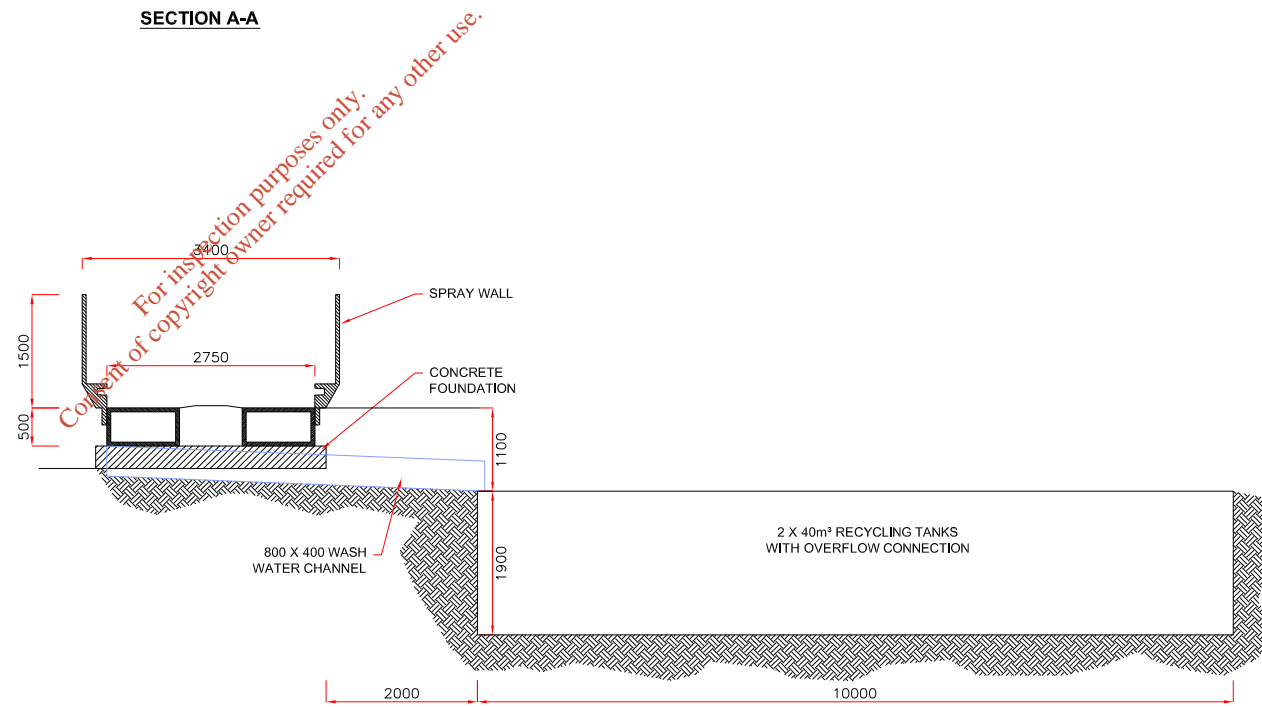


PLAN ON WHEELWASH



SECTION A-A



SECTION B-B

- NOTES
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 2. ALL DRAWINGS TO BE CHECKED BY THE CONTRACTOR ON SITE
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 4. ALL LEVELS SHOWN RELATE TO ORDNANCE SURVEY DATUM AT MALIN HEAD

Issue	Date	Description	By	Chkd.
A	27.06.12	ISSUED FOR WASTE LICENCE	M.N.	D.C.

Client:
BORD NA MÓNA

Project:
DREHID MECHANICAL BIOLOGICAL TREATMENT (MBT) FACILITY

Title:
WHEELWASH STANDARD DETAILS

Scale @ A3: 1:100

Prepared by: M. Nolan Checked: D. Conneran Date: May 2012

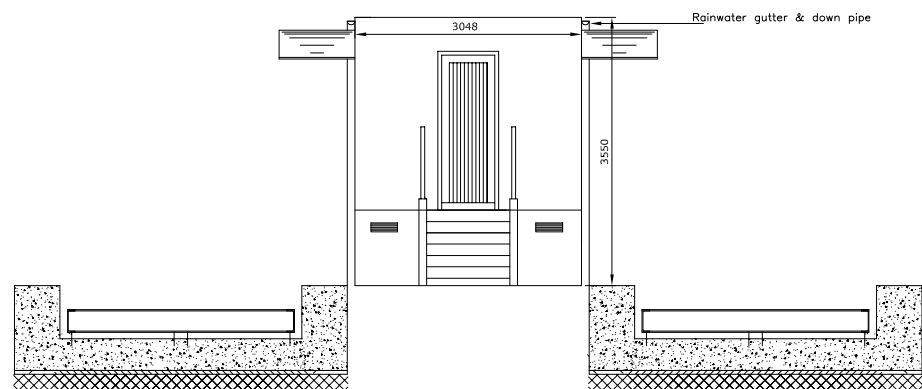
Project Director: D. Grehan

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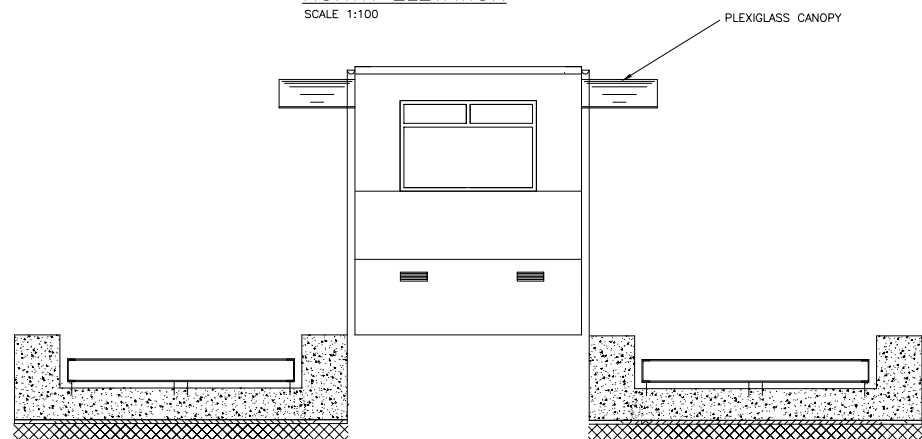
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Drawing No.: **6301-2715** Issue: **A**

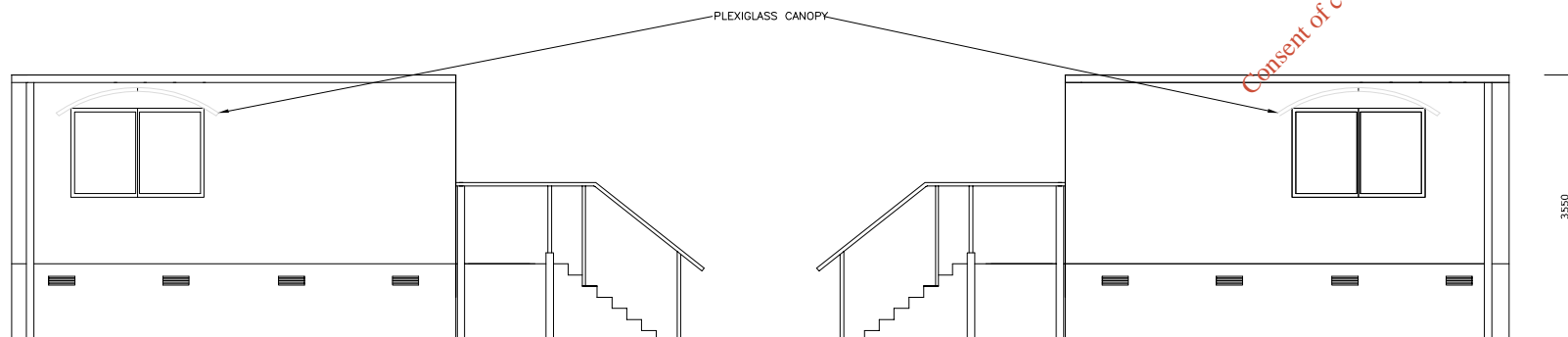
WEIGHBRIDGE OFFICE



NORTH ELEVATION
SCALE 1:100

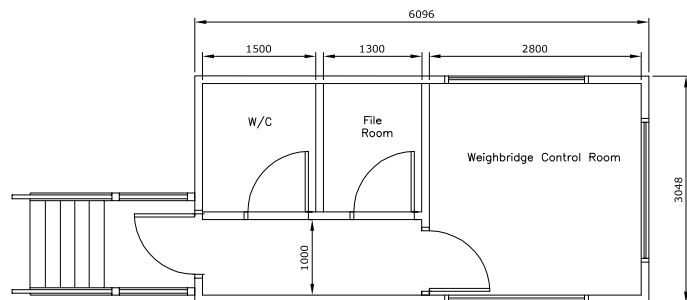


SOUTH ELEVATION
SCALE 1:100

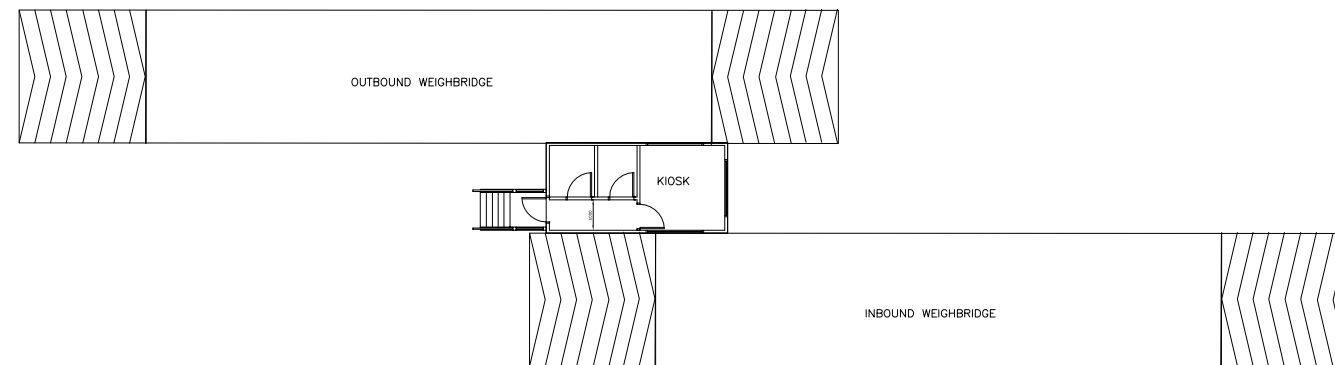


EAST ELEVATION
SCALE 1:100

WEST ELEVATION
SCALE 1:100



PLAN
SCALE 1:100



PLAN
SCALE 1:250

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Issue	Date	Description	By	Chkd.
A	27.06.12	ISSUED FOR WASTE LICENCE	M.N.	D.C.

Client:

BORD NA MÓNA

Project:

DREHID
MECHANICAL BIOLOGICAL
TREATMENT (MBT) FACILITY

Title:

WEIGHBRIDGE
GENERAL ARRANGEMENT
PLAN & ELEVATIONS

Scale @ A3: AS SHOWN

Prepared by: M. Nolan
Checked: D. Conneran
Date: May 2012

Project Director: D. Grehan

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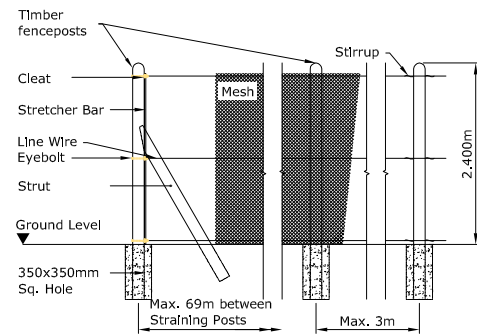
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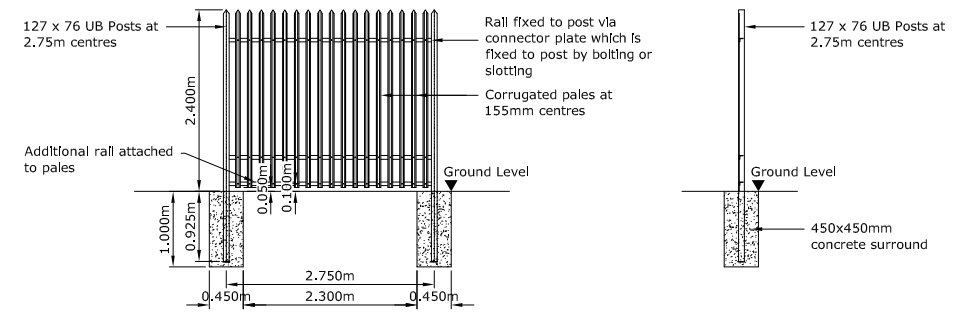
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Issue:

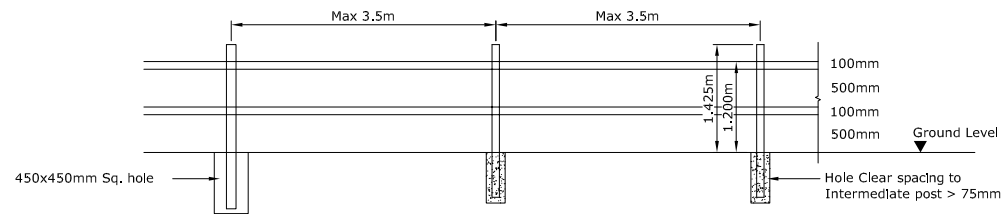
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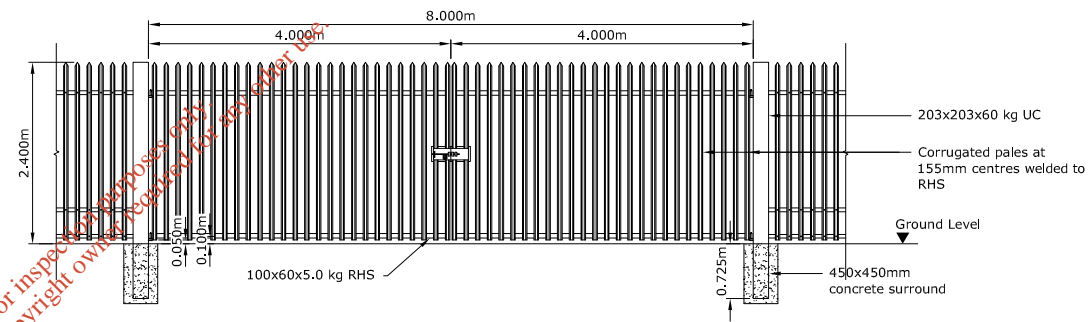
CHAINLINK TIMBER POST FENCE



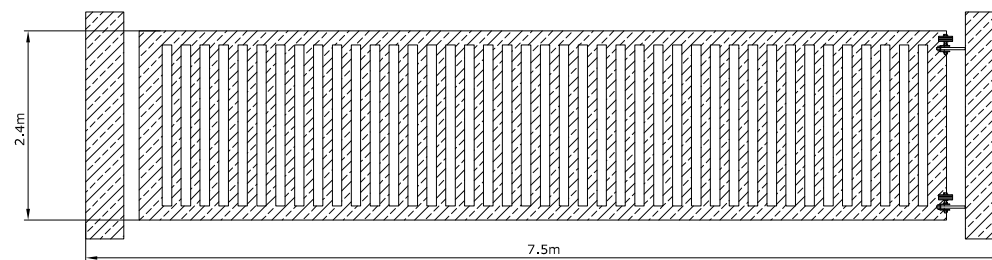
TYPICAL ARRANGEMENT FOR STEEL PALISADE/PALLIDINE FENCE



TIMBER POST & RAIL FENCE



TYPICAL ARRANGEMENT FOR STEEL PALISADE/PALLIDINE GATE



TYPICAL ARRANGEMENT FOR CANTILEVER GATE

NOTES

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- FOR FENCING LOCATION REFER TO DRG. NO: 3369-2702

Issue	Date	Description	By	Chkd.
A	27.06.12	ISSUED FOR WASTE LICENCE	M.N.	D.C.

Client:
BORD NA MÓNA

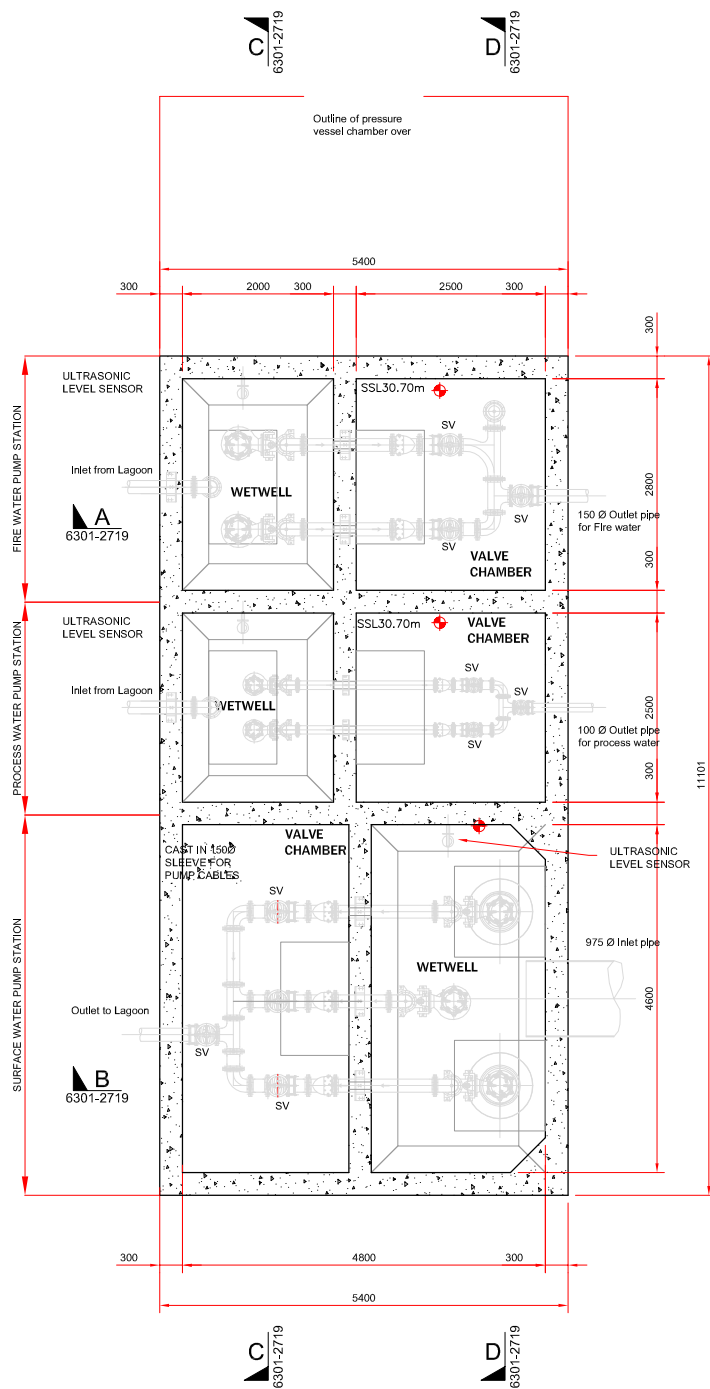
Project:
DREHID MECHANICAL BIOLOGICAL TREATMENT (MBT) FACILITY

Title:
TYPICAL FENCING DETAILS

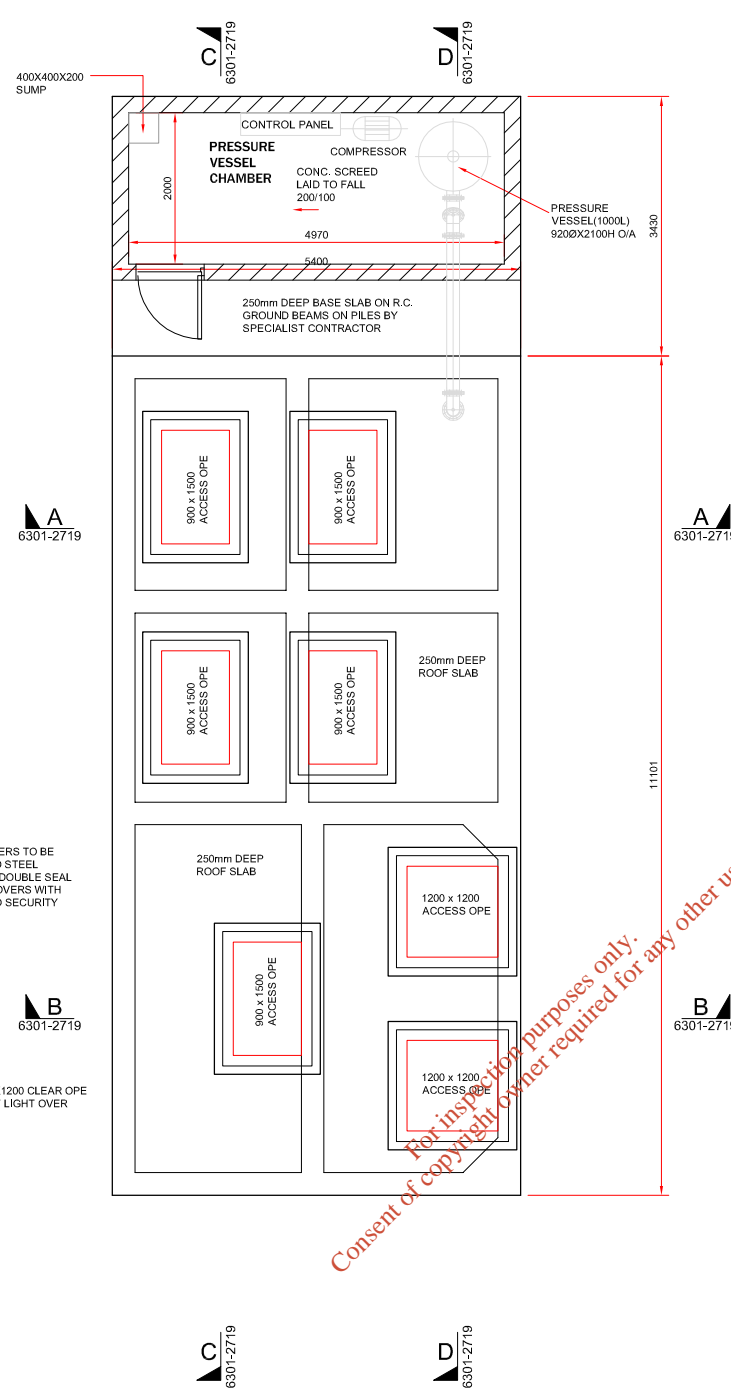
Scale @ A3:	1:100
Prepared by:	M. Nolan
Checked:	D. Conneran
Date:	May 2012
Project Director:	D. Grehan

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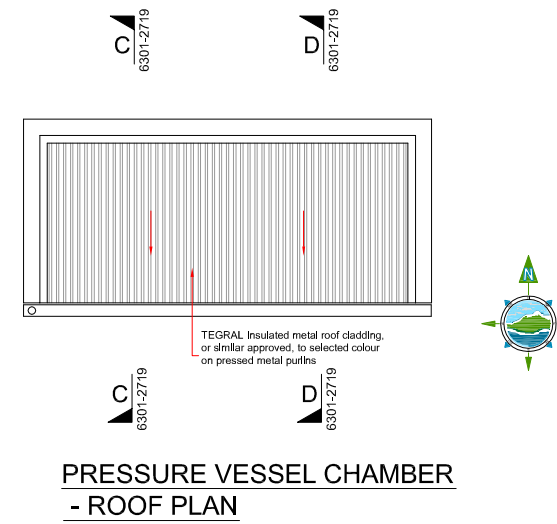
Drawing No.:	6301-2717	Issue:	A
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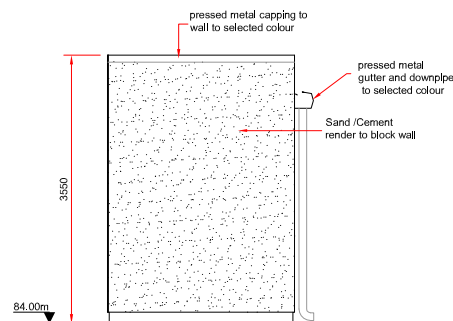
PUMPING STATION (underground) - PLAN



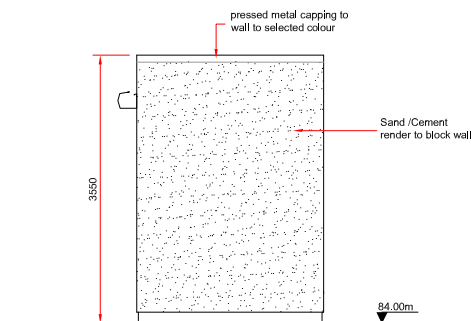
PLAN ON PRESSURE VESSEL CHAMBER & PUMPING STATION ROOF



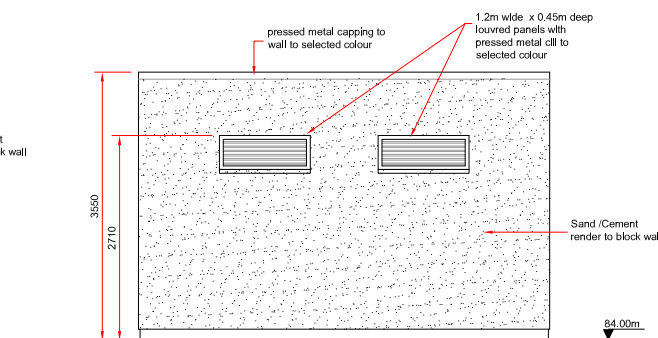
PRESSURE VESSEL CHAMBER - ROOF PLAN



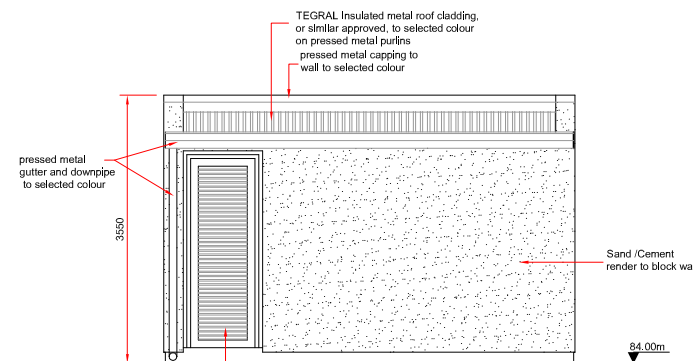
PRESSURE VESSEL CHAMBER - WEST ELEVATION



PRESSURE VESSEL CHAMBER - EAST ELEVATION



PRESSURE VESSEL CHAMBER - NORTH ELEVATION



PRESSURE VESSEL CHAMBER - SOUTH ELEVATION

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Rev	Date	Description	By	Chkd.
A	27.06.12	ISSUED FOR WASTE LICENCE	MN	DC

Client:
BORD NA MÓNA

Project:
DREHID MBT FACILITY

Title:
GENERAL ARRANGEMENT
SURFACE, PROCESS &
FIRE WATER
PUMPING STATIONS - Sht. 1 of 2

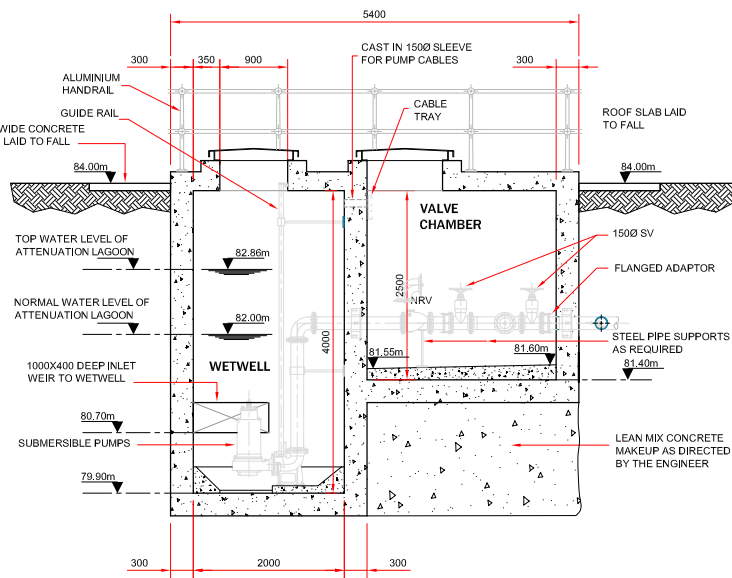
Scale @ A3: 1:100

Prepared by:	Checked:
MK	DC
Project Director:	Damien Grehan
Drawing Status:	Waste Licence

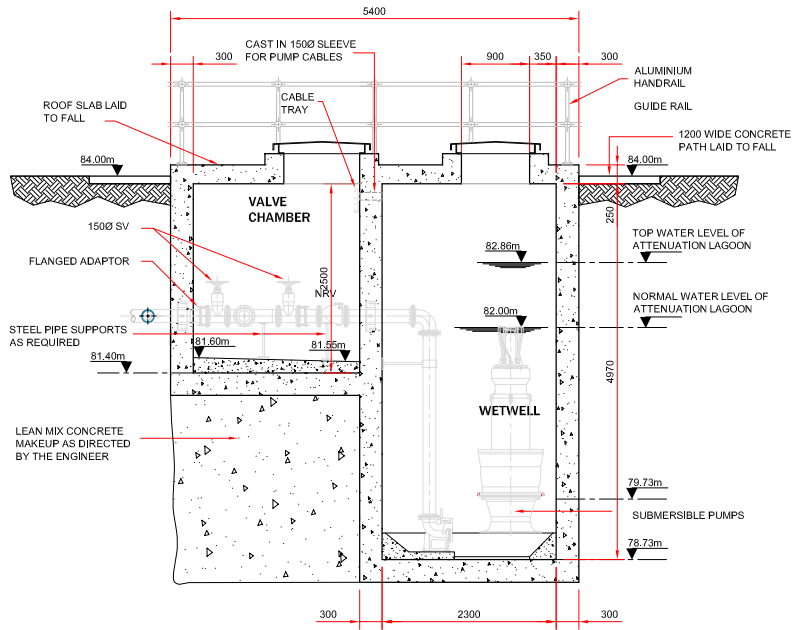
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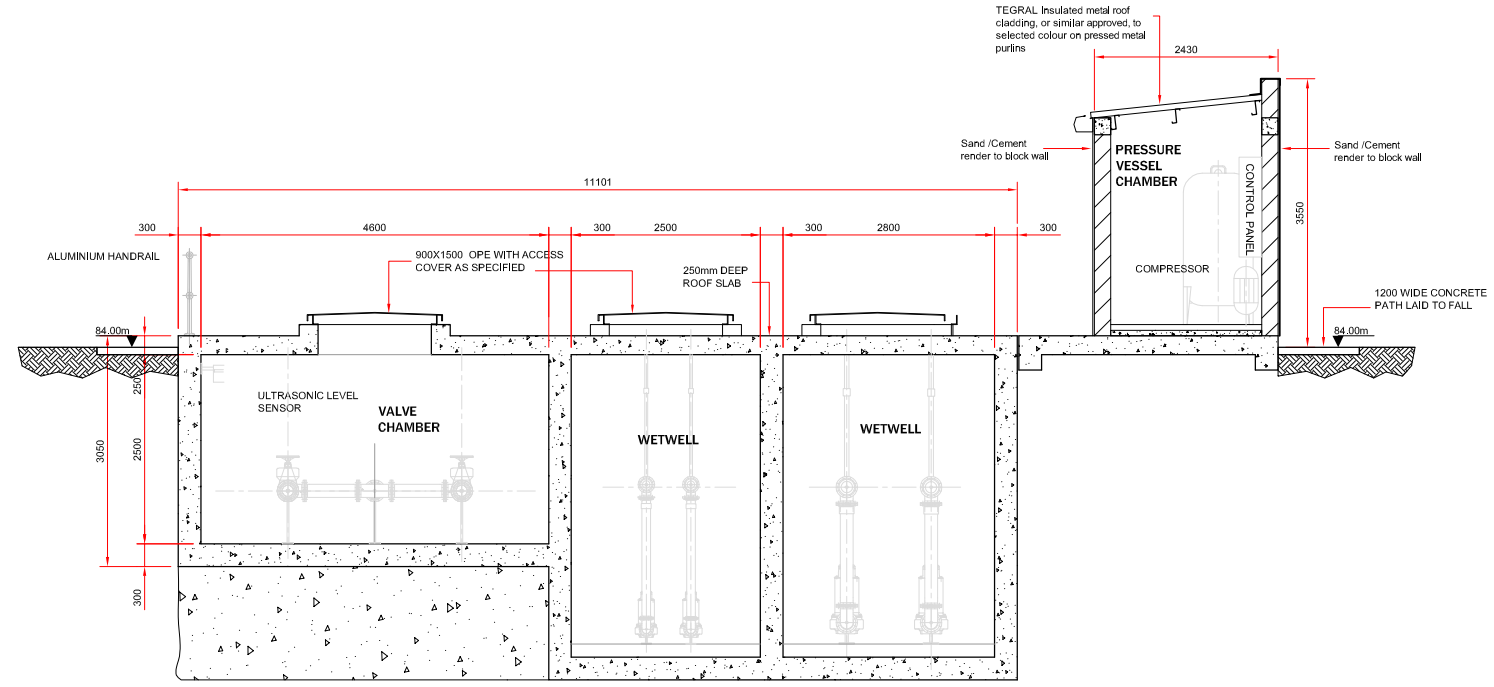
Drawing No.: **6301-2718** Revision: **A**



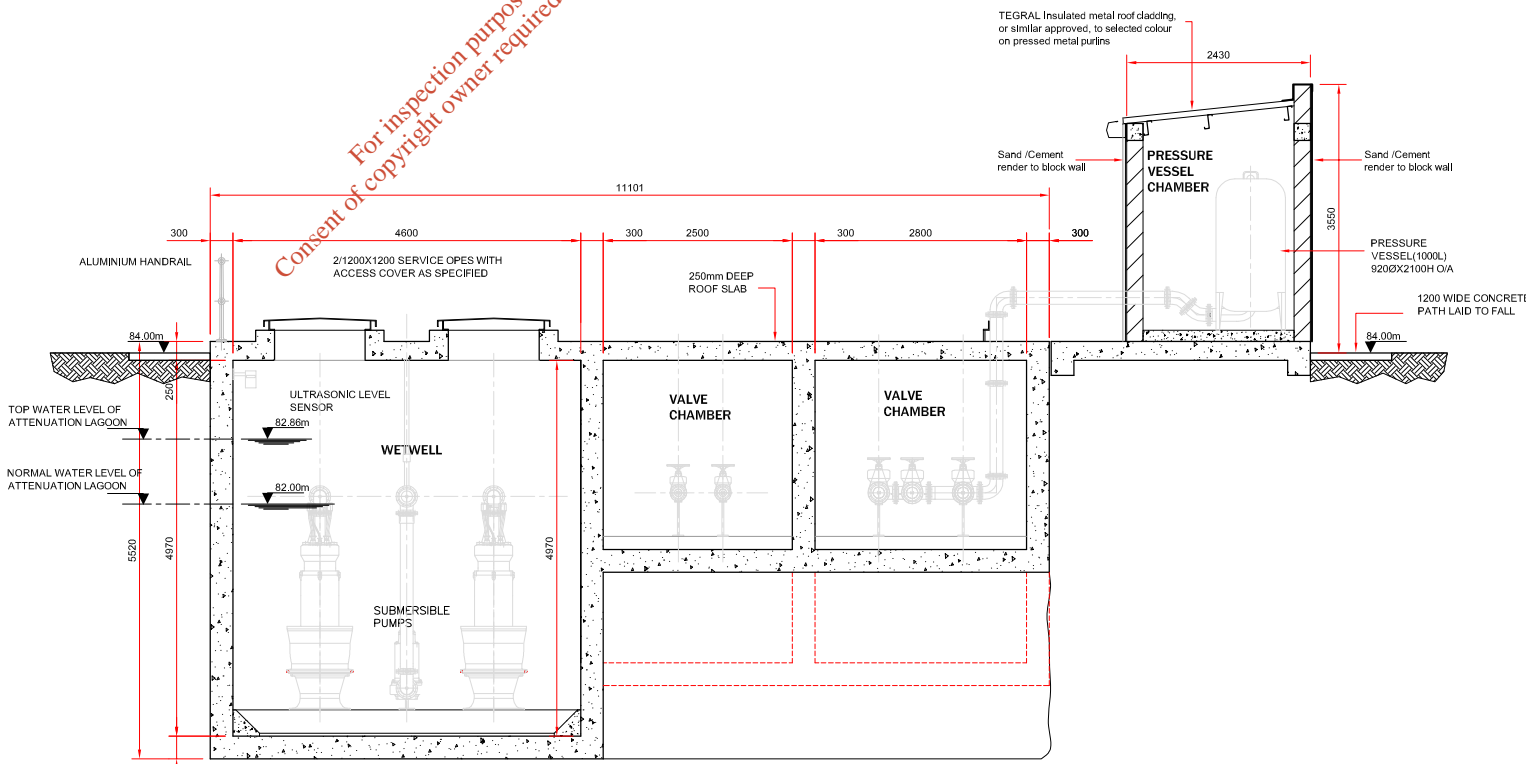
SECTION A-A



SECTION B-B



SECTION C-C



SECTION D-D

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Rev	Date	Description	By	Chkd.
A	27.06.12	ISSUED FOR WASTE LICENCE	MN	DC

Client:
BORD NA MÓNA

Project:
DREHID MBT FACILITY

Title:
**GENERAL ARRANGEMENT
SURFACE, PROCESS &
FIRE WATER
PUMPING STATIONS - Sht. 2 of 2**

Scale @ A3: 1:100

Prepared by:	Checked:
MK	DC
Project Director:	May 2012
Damien Grehan	
Drawing Status:	Waste Licence

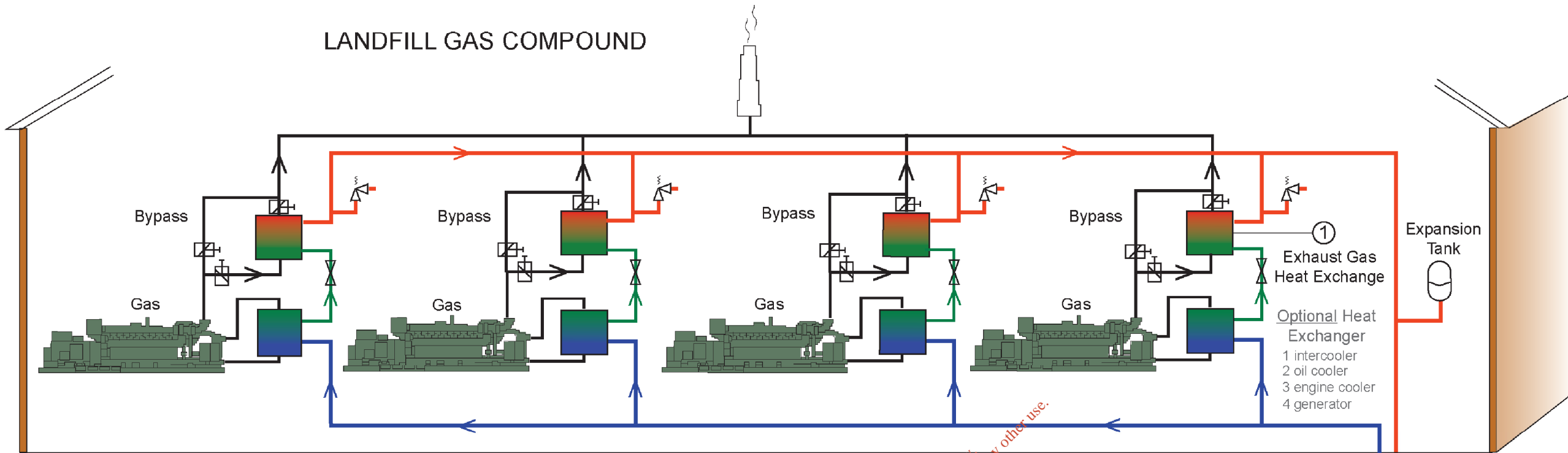
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Drawing No.: **6301-2719** Revision: **A**

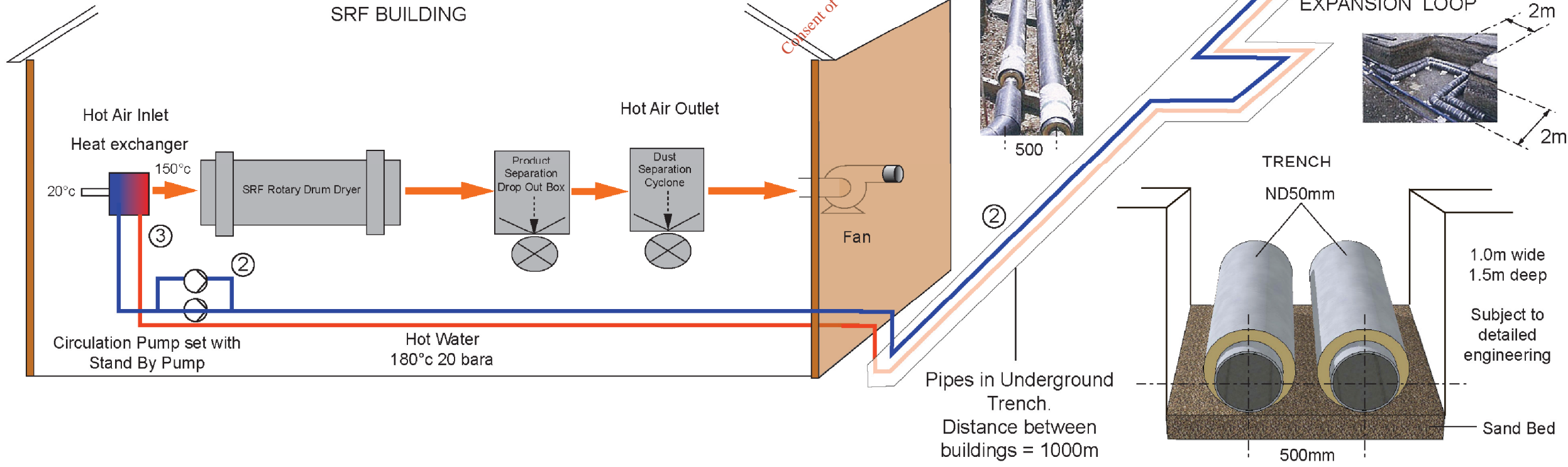
LANDFILL GAS COMPOUND



- NOTES**
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Issue	Date	Description	By	Chkd.
A	27.06.12	ISSUED FOR WASTE LICENCE	M.N.	D.C.

MBT FACILITIES SRF BUILDING



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Client:
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Project:
DREHID
MECHANICAL BIOLOGICAL
TREATMENT (MBT) FACILITY

Title:
SCHEMATIC & DETAILS
OF HEAT TRANSFER PIPES

Scale @ A3: NTS

Prepared by: M. Nolan	Checked by: D. Conneran	Date: May 2012
Project Director: D. Grehan		

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Drawing No.: **6301-2720** Issue: **A**

THIS DRAWING MAY BE USED FOR THE PURPOSE INTENDED AND ONLY WRITTEN DIMENSIONS SHALL BE USED

KEY

- Site boundary
- Retention and protection of existing trees and scrub for a minimum of 15m strip along the site boundary in accordance with BS 5837:2005. Gaps to be planted with Native Woodland Planting Mix as per schedule.
- Proposed native tree planting - feathered trees, as per schedule
- Proposed native tree planting - bare root transplants, as per schedule
- Proposed shrub planting, as per schedule
- Proposed Meadow Mixture
- Area to be left to regenerate naturally
- Proposed fence
- Proposed wetland/pond edge planting
- Proposed mounds, minimum slope 1:3 and maximum height 1.5m

NOTE: IF THE FULL EXTENT OF AREAS OF VEGETATION TO BE RETAINED AND PROTECTED CANNOT BE MET, THESE AREAS ARE TO BE PLANTED WITH NATIVE WOODLAND PLANTING MIX, AS PER SCHEDULE.

NOTES

All trees within the site to be protected in accordance with BS 5837:2005 'Trees in relation to construction - Recommendations.'

- The fencing to tree protection area should be constructed in accordance with Figure 1, comprising of:
- Scaffold tube uprights (set at 3m intervals with diagonal braces driven securely into the ground)
 - Horizontal framework, well braced to resist impacts
 - Framework to be faced with wellmesh panel fencing attached to uprights with steel strapping or scaffold clamps

Wellmesh panels on rubber or concrete feet are not resistant to impact and should not be used.

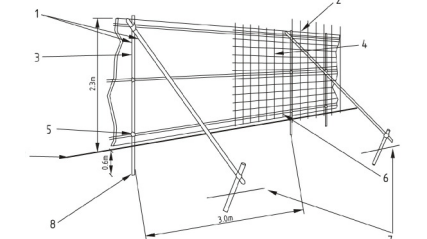


Figure 1: Fencing complying with British Standard 5837:2005 'Trees in Relation to Construction'

Avoidance and remediation of compaction

In order to avoid compaction, there should be no vehicle or plant access within the root protection area. Where compaction has occurred, advice should be sought from an arboriculturist on de-compaction measures, such as forking, spiking, subsoil replacement by hand-dug radial trenching or subsoil aeration using compressed air injection equipment.

For further details please refer to British Standard 5837:2005

Construction process

The fencing shall completely exclude access during the demolition and construction process. The construction exclusion zone (CEZ) shall not be used either for the storage of materials or spoil nor for the mixing of substances or the disposal of any residues nor shall be allowed to be contaminated by run off from activities beyond the protection zones.

Once erected, barriers and ground protection should be regarded as sacrosanct, and should not be removed or altered without prior recommendation by an arboriculturist and approval of the local planning authority.

Works after completion of construction

On completion of all site works but before landscaping, the above fencing should be removed and the areas formerly beneath them either hand cultivated or de-compacted as described above.

Planting works

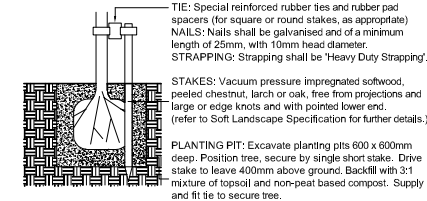
- Existing topsoil to be removed from site (depth depending on site conditions) before construction works commence and stored elsewhere to standard methods. Topsoil to be re-used on site in future planting areas.
- All planting areas to be covered with 300mm topsoil. New high quality topsoil brought on site, if required, should fulfill the following standards: Texture: medium, Soil Reaction: 6.0 to 7.5 pH, reasonably free of stones, maximum size of stones in any one direction: 50mm, free of weed seeds, roots of perennial weeds, sticks, subsoil, large stones, clay and foreign matter, good crumb structure, from an approved source, fertile with a humus and fibre content of equal and approved.
- All proposed plant species which are native are to be of Irish provenance.
- All planting to be carried out as described above, as per planting schedules, Detail 1, 2 and 3 and in locations indicated on the plan and as per Soft Landscape Specification (to be prepared at construction stage).
- All new planting to be maintained by a qualified landscape contractor for a minimum of 18 months in order to maximise the chances of survival.

Native Woodland Planting Mix

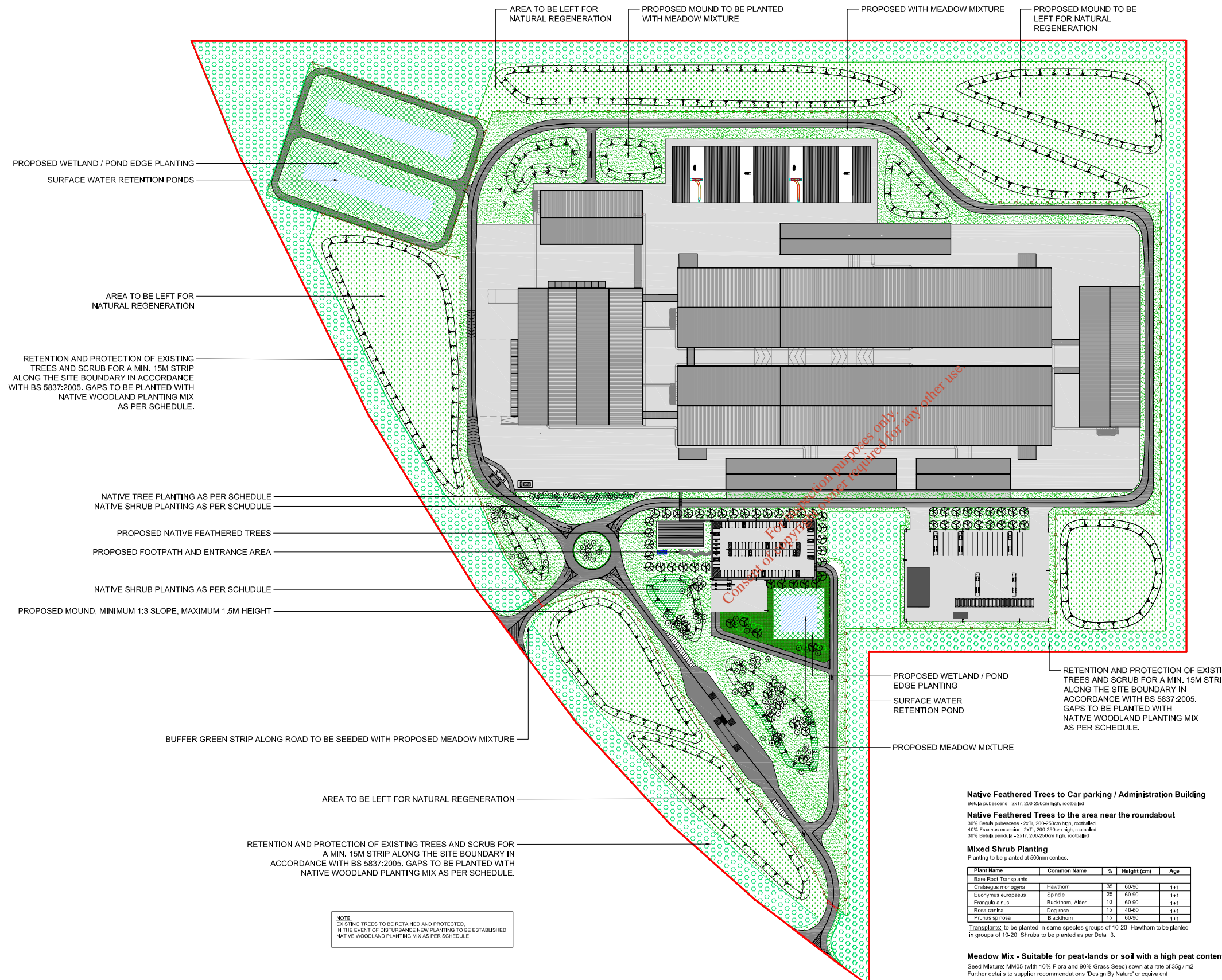
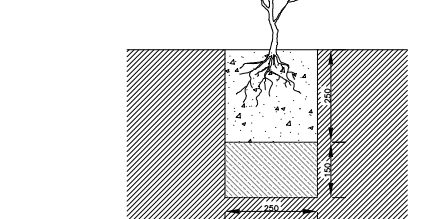
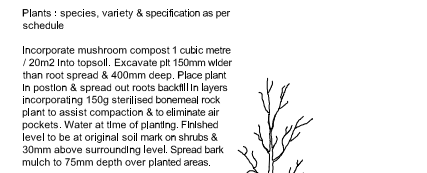
Plant Name	Common Name	%	Height (cm)	Age/Plt size
Tall Feathered Trees				
<i>Alnus glutinosa</i>	Alder	10	200-250	2xTr
<i>Betula pubescens</i>	Birch	10	200-250	2xTr
<i>Quercus petraea</i>	Oak	10	200-250	2xTr
Bare Root Transplants				
<i>Pinus spiroea</i>	Blackthorn	10	60-90	1x1
<i>Salix caprea</i>	Goat Willow	10	60-90	1x1
<i>Pinus sylvestris</i>	Scots Pine	10	60-90	1x0
<i>Betula pubescens</i>	Birch	15	90-120	2x0
<i>Fraxinus excelsior</i>	Ash	10	90-120	2x0
<i>Alnus glutinosa</i>	Alder	15	90-120	2x0

Tall Feathered Trees: to be planted randomly every 10 metres throughout the area as indicated on plan. Tall Feathered Trees to be staked as per Detail 1.
Bare root transplants/Container grown plants: Transplants to be planted at 500mm centres in groups of 10-20 plants of same species. To be planted as per Detail 2.

DETAIL 1: PLANTING AND STAKING OF FEATHERED TREES (not to scale)



DETAIL 2 - SHRUB PLANTING, SECTION (not to scale)



Native Feathered Trees to Car parking / Administration Building

Betula pubescens - 2xTr, 200-250cm high, rootballed

Native Feathered Trees to the area near the roundabout

30% *Betula pubescens* - 2xTr, 200-250cm high, rootballed
40% *Fraxinus excelsior* - 2xTr, 200-250cm high, rootballed
30% *Betula pendula* - 2xTr, 200-250cm high, rootballed

Mixed Shrub Planting

Planting to be planted at 500mm centres.

Plant Name	Common Name	%	Height (cm)	Age
Bare Root Transplants				
<i>Castanea monogyna</i>	Hawthorn	35	60-90	1x1
<i>Euonymus europaeus</i>	Spindle	25	60-90	1x1
<i>Frangula alnus</i>	Buckthorn, Alder	10	60-90	1x1
<i>Rosa canina</i>	Dog-rose	15	40-60	1x1
<i>Pinus spiroea</i>	Blackthorn	15	60-90	1x1

Transplants: to be planted in same species groups of 10-20. Hawthorn to be planted in groups of 10-20. Shrubs to be planted as per Detail 3.

Meadow Mix - Suitable for peat-lands or soil with a high peat content

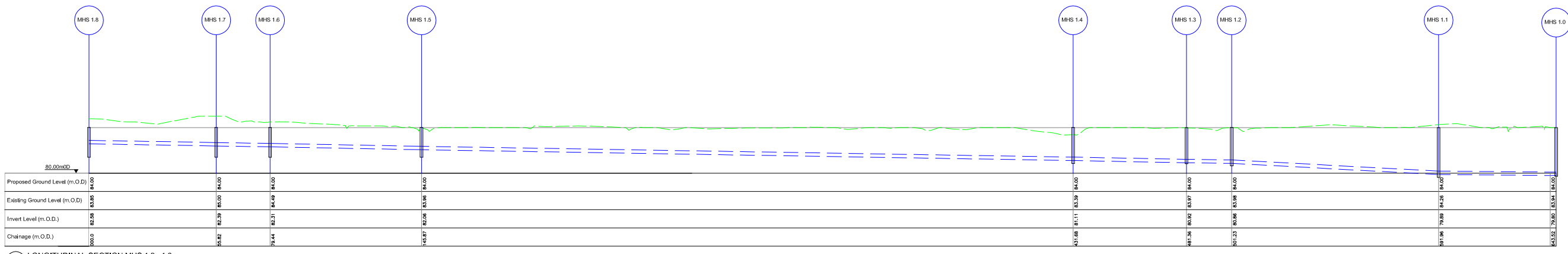
Seed Mixture: MM05 (with 10% Flora and 90% Grass Seed) sown at a rate of 35g / m2. Further details to supplier recommendations 'Design By Nature' or equivalent

Wetland / Pond Edge Planting

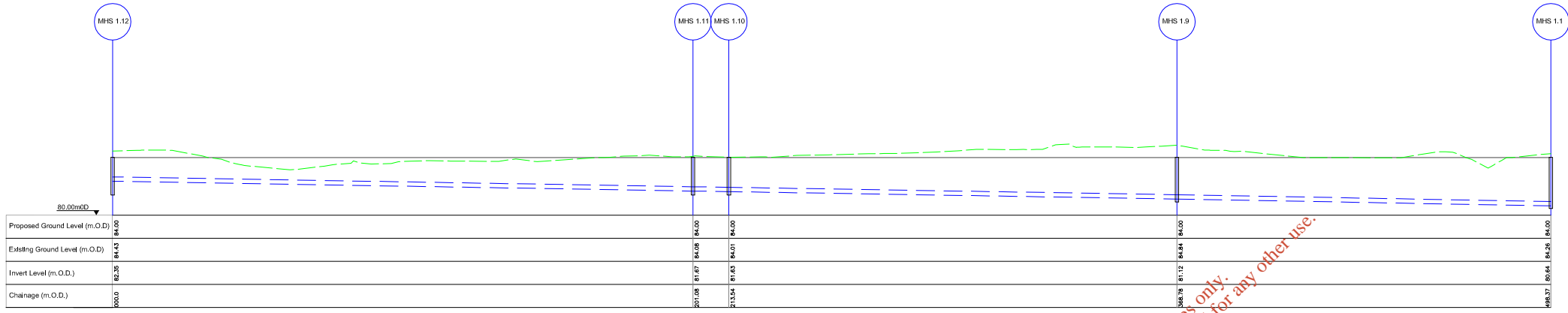
Seed Mixture: EC05 (with 20% Flora and 80% Grass Seed) sown at a rate of 35g / m2. Further details to supplier recommendations 'Design By Nature' or equivalent

NOTE: EXISTING TREES TO BE RETAINED AND PROTECTED. IN THE EVENT OF DISTURBANCE NEW PLANTING TO BE ESTABLISHED: NATIVE WOODLAND PLANTING MIX AS PER SCHEDULE.

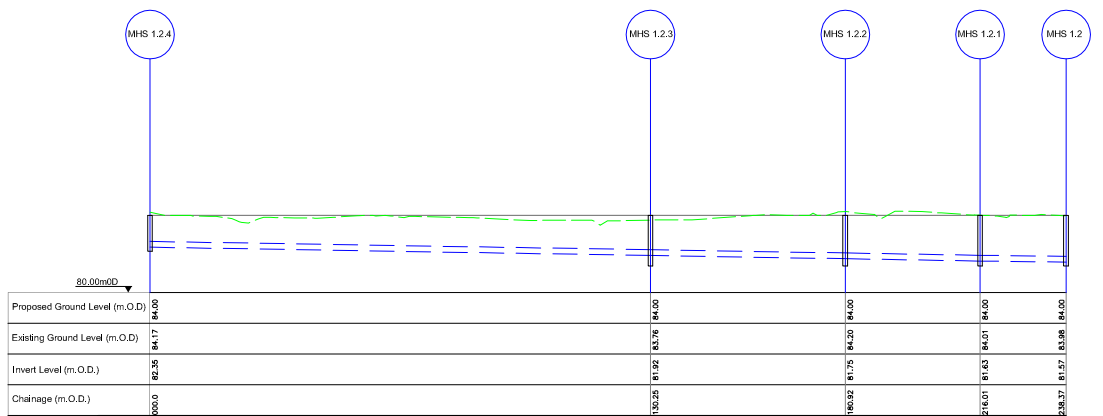
Revision Details	By	Date	Suffix
Drawing Status			
WASTE LICENCE			
Job Title			
DREHID MBT FACILITY			
Drawing Title			
LANDSCAPE PLAN			
Scale at A3			
1:3000			
Drawn	MS, JS	Approved	DB
Stage 1 check	Stage 2 check	Originated	Date
			01-05-2012
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Drawing Number		Rev	
6301-2721			



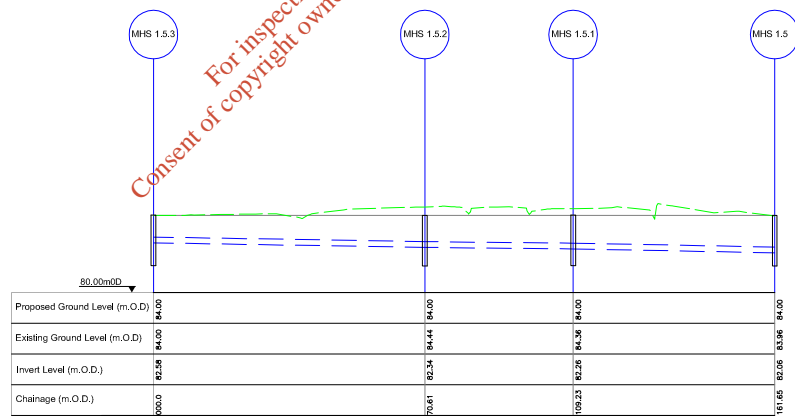
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Scale: Horiz 1:2,000, Vert 1:400



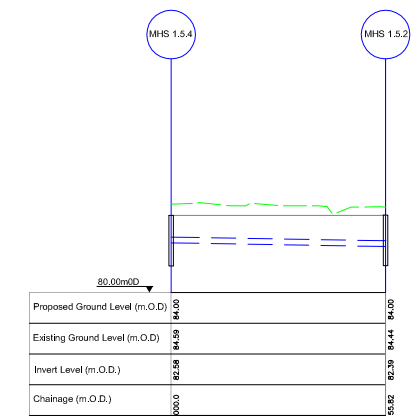
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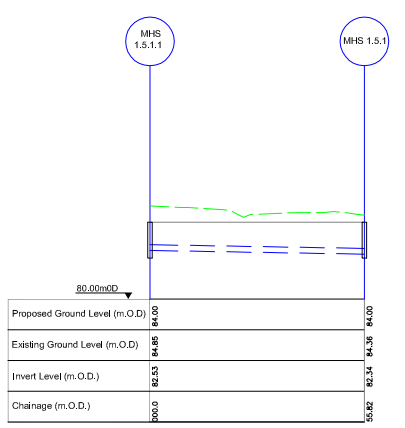
C LONGITUDINAL SECTION MHS 1.2.4 - 1.2
Scale: Horiz 1:2,000, Vert 1:400



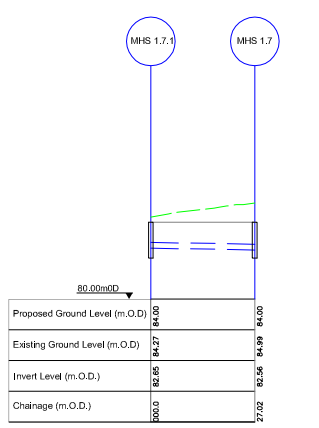
D LONGITUDINAL SECTION MHS 1.5.3 - 1.5
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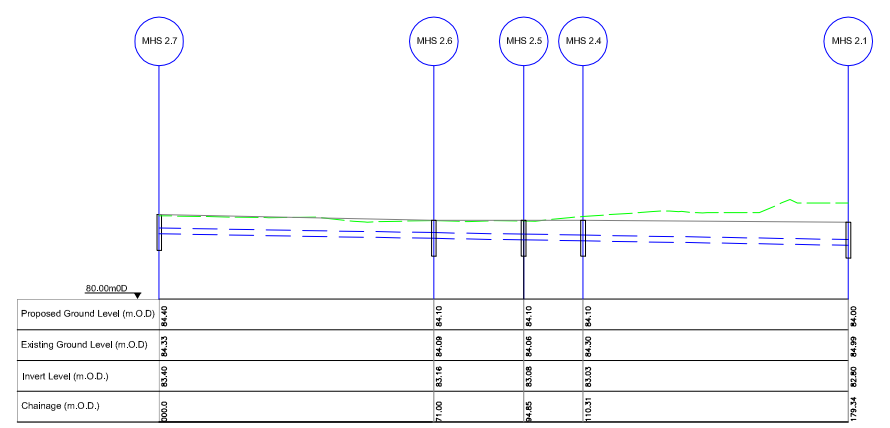
E LONGITUDINAL SECTION MHS 1.5.4 - 1.5.2
Scale: Horiz 1:2,000, Vert 1:400



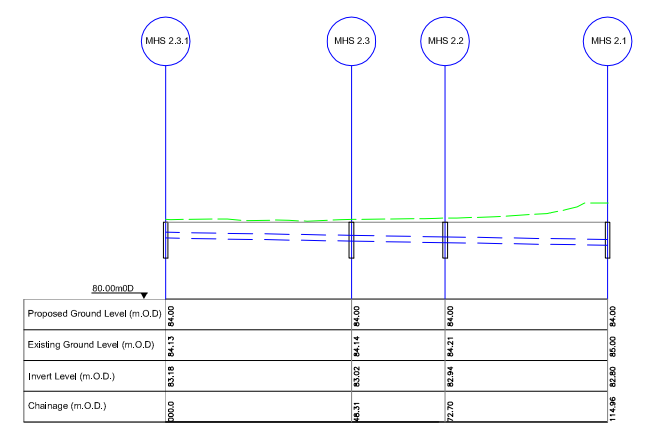
F LONGITUDINAL SECTION MHS 1.5.1.1 - 1.5.1
Scale: Horiz 1:2,000, Vert 1:400



G LONGITUDINAL SECTION MHS 1.7.1 - 1.7
Scale: Horiz 1:2,000, Vert 1:400



H LONGITUDINAL SECTION MHS 2.7 - 2.1
Scale: Horiz 1:2,000, Vert 1:400



I LONGITUDINAL SECTION MHS 2.3.1 - 2.1
Scale: Horiz 1:2,000, Vert 1:400

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Title:
SURFACE WATER LONGITUDINAL SECTIONS - Sheet 1 of 2 -

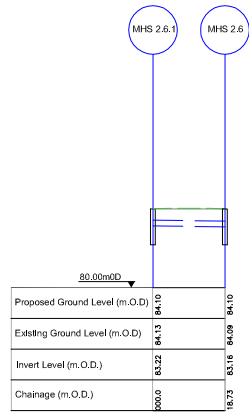
Scale @ A3: AS SHOWN

Prepared by: M. Nolan
Checked: D. Conneran
Date: May 2012

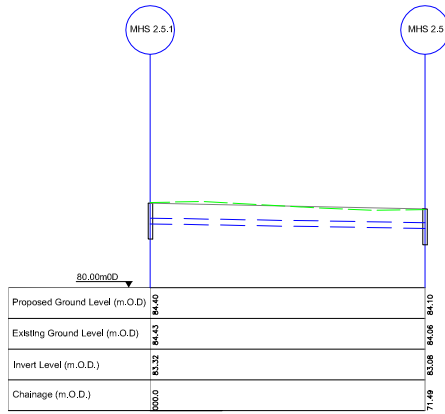
Project Director: D. Grehan

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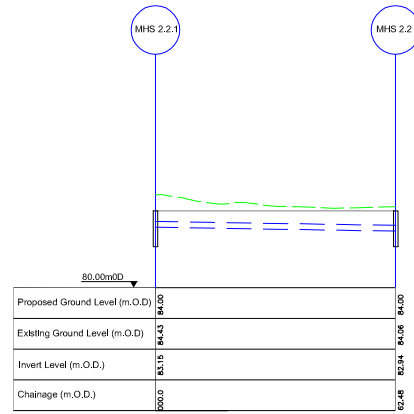
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Issue: **A**



J LONGITUDINAL SECTION MHS 2.6.1 - 2.6
Scale: Horiz 1:2,000, Vert 1:400



K LONGITUDINAL SECTION MHS 2.5.1 - 2.5
Scale: Horiz 1:2,000, Vert 1:400



L LONGITUDINAL SECTION MHS 2.2.1 - 2.2
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- Sheet 2 of 2 -**

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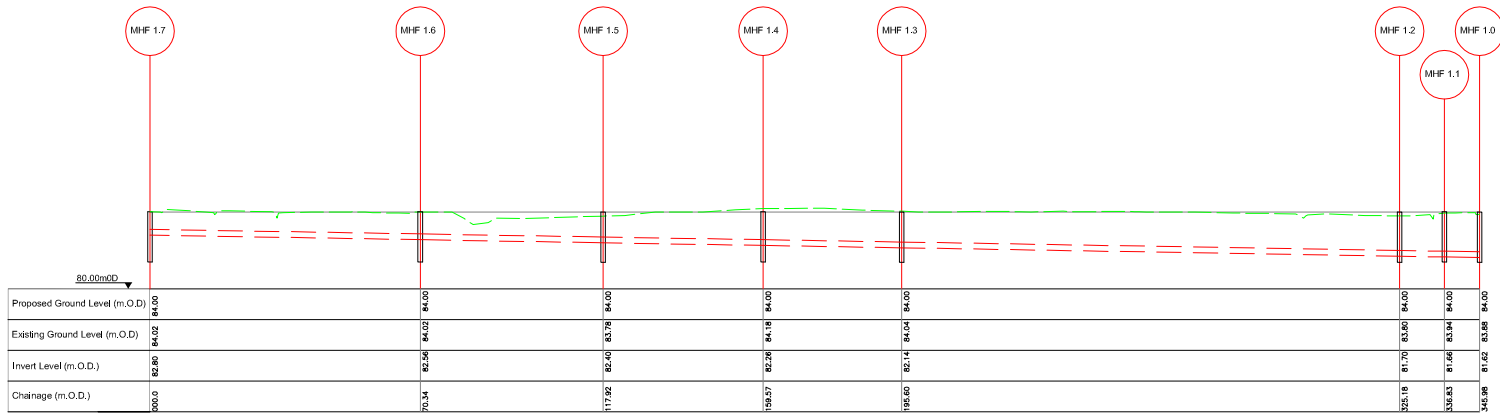
Prepared by: **M. Nolan** Checked: **D. Conneran** Date: **May 2012**

Project Director: **D. Grehan**

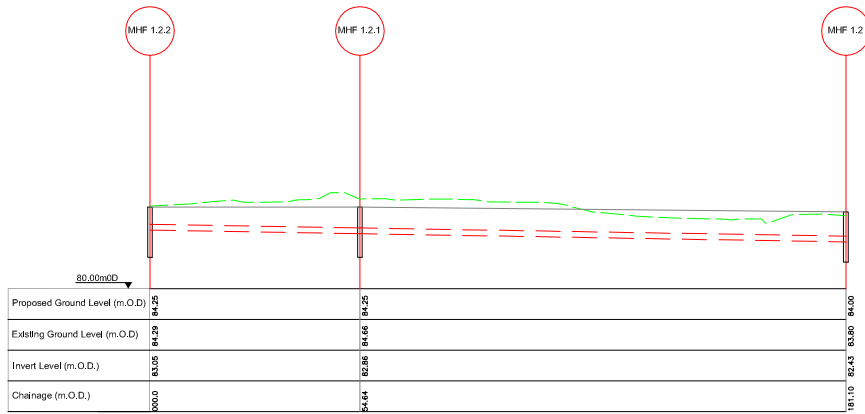
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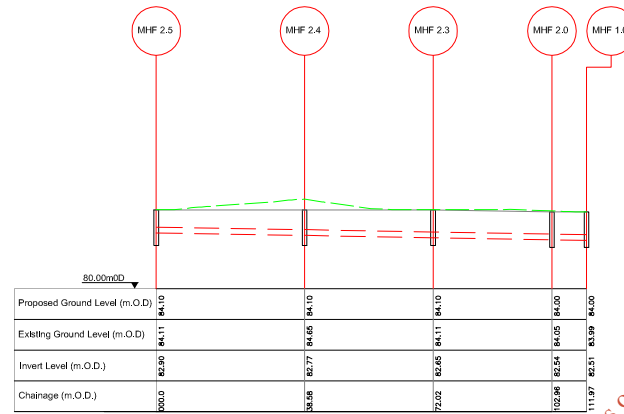
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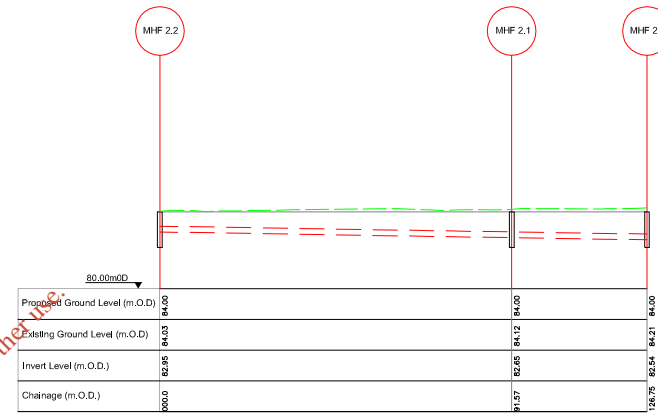
A LONGITUDINAL SECTION MHF 1.7 - 1.0
Scale: Horiz 1:2,000, Vert 1:400



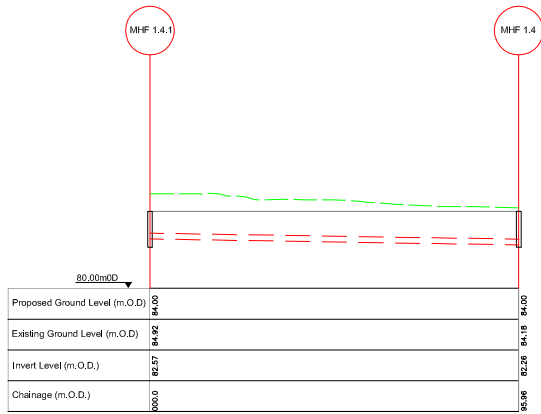
B LONGITUDINAL SECTION MHF 1.2.2 - 1.2
Scale: Horiz 1:2,000, Vert 1:400



C LONGITUDINAL SECTION MHF 2.5 - 1.0
Scale: Horiz 1:2,000, Vert 1:400



D LONGITUDINAL SECTION MHF 2.2 - 2.0
Scale: Horiz 1:2,000, Vert 1:400



E LONGITUDINAL SECTION MHF 1.4.1 - 1.4
Scale: Horiz 1:2,000, Vert 1:400

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TREATMENT (MBT) FACILITY**

Title:
**FOUL WATER
LONGITUDINAL SECTIONS**

Scale @ A3: **AS SHOWN**

Prepared by: **M. Nolan** Checked: **D. Conneran** Date: **May 2012**

Project Director: **D. Grehan**

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