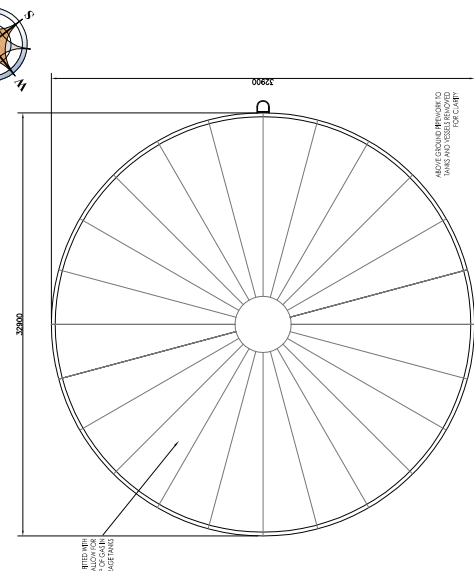
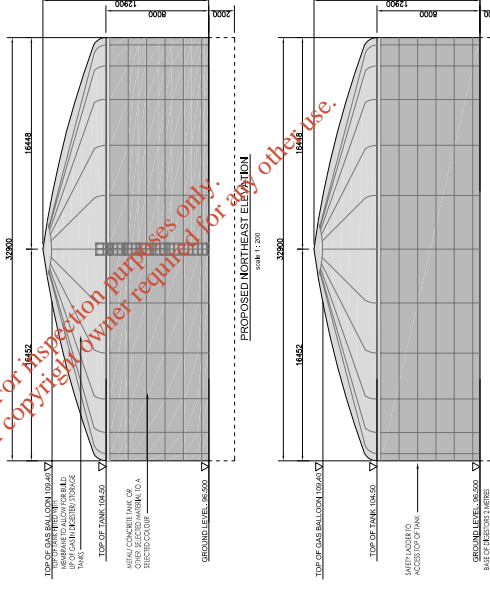
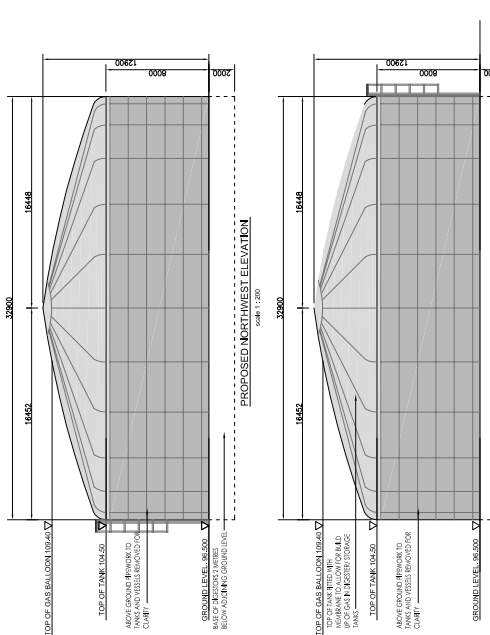


PROPOSED ANAEROBIC DIGESTERS PLAN
SCALE: 1:200



PROPOSED ANAEROBIC DIGESTERS AND
POST-DIGESTION STORAGE TANKS PLAN
SCALE: 1:200

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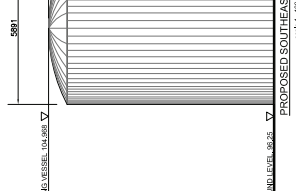
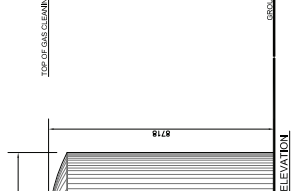
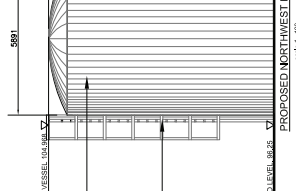
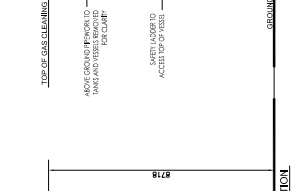
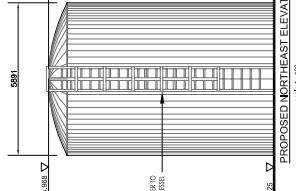
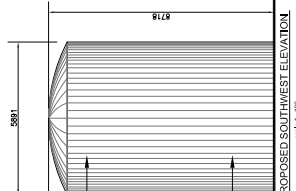
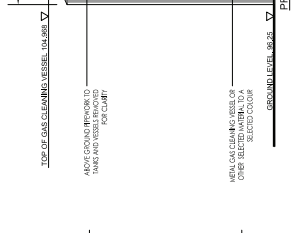
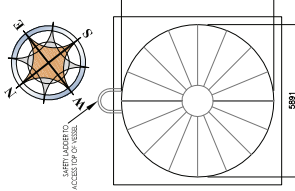
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D1	02/04/2011	PLANNING

PROJECT NO.	111/001/204
CLIENT	NEWSDOWNS THE DOWNS MULLINGAR CO. WESTMEATH
DATE	11/10/2011
SCALE	1:200
PROJECT	ANAEROBIC DIGESTERS/ POST STORAGE TANKS
DATE	02/04/2011
PROJECT	PLANNING

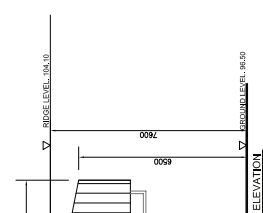
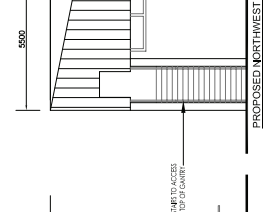
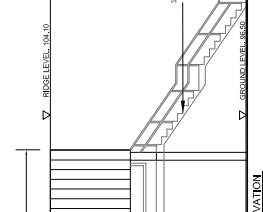
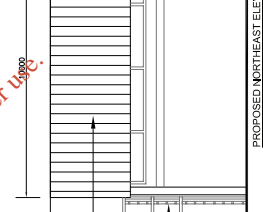
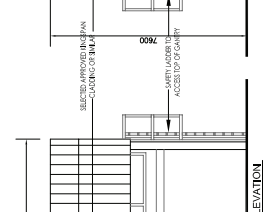
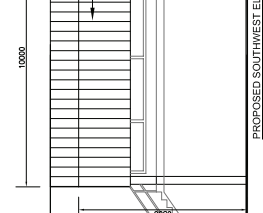
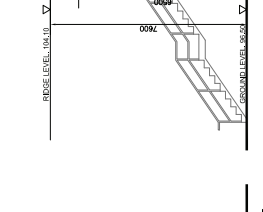
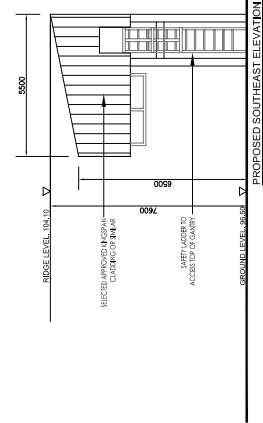
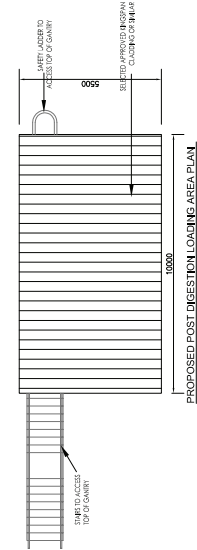
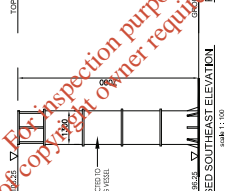
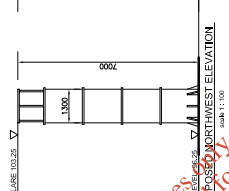
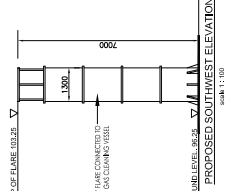
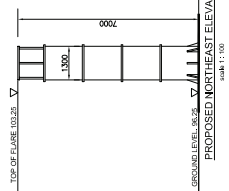
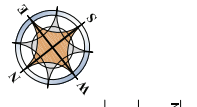
REV	DATE	DESCRIPTION
D1	11/10/2011	PROPOSED PLANS AND ELEVATIONS OF ANAEROBIC DIGESTERS/ POST STORAGE TANKS
D1	02/04/2011	PLANNING

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ma:in architects
 NEWSDOWNS THE DOWNS MULLINGAR CO. WESTMEATH
 111/001/204
 11/10/2011
 1:200
 ANAEROBIC DIGESTERS/ POST STORAGE TANKS
 PLANNING



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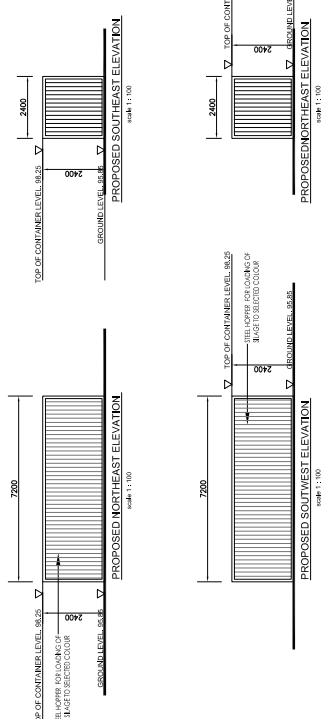
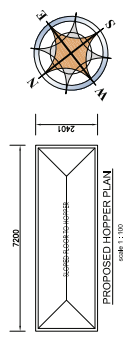
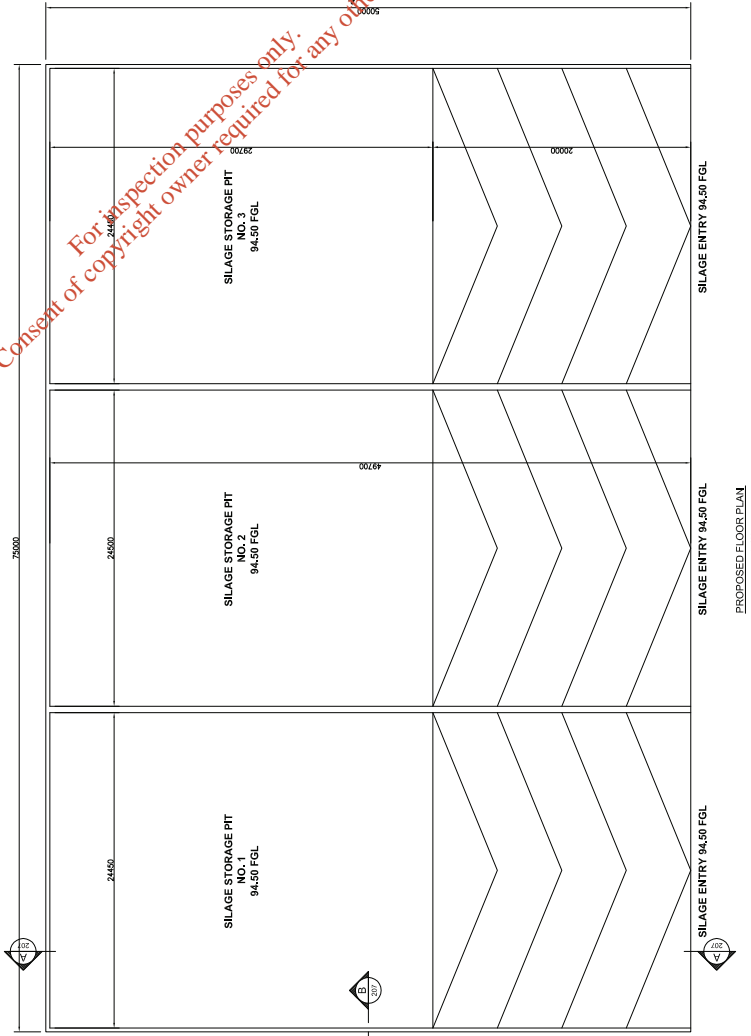
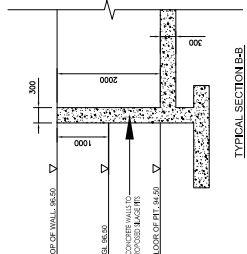
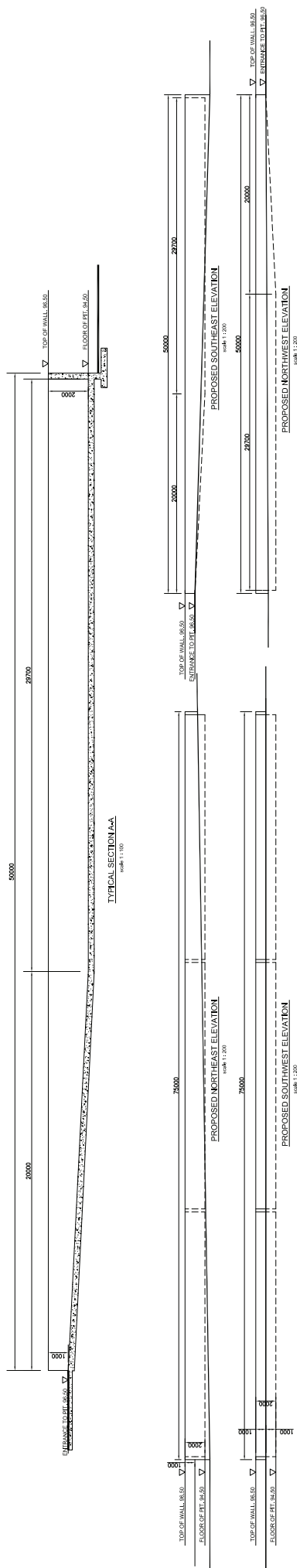


REV	DATE	DESCRIPTION
01	23	ISSUED FOR PLANNING

REV	DATE	DESCRIPTION
01	23	ISSUED FOR PLANNING

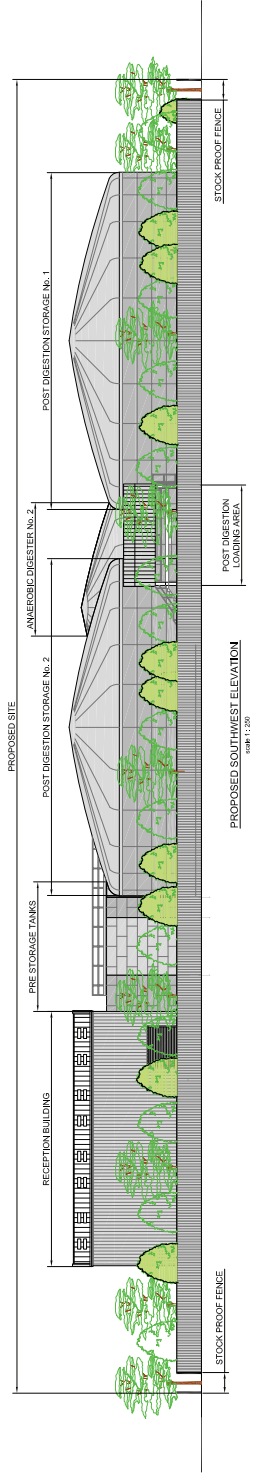
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01	23	ISSUED FOR PLANNING

PROJECT NO.	111/001/2005	DATE	02/04/2011
PROJECT NAME	PROPOSED GAS CLEANING VESSEL, FLARE AND POST DIGESTION LOADING AREA	SCALE	1:100
CLIENT	BIO AGRICAS LTD.	DESIGNER	MAIRIN ARCHITECTS
LOCATION	NEWDOWN, THE DOWNS, MILLINGAR, CO. WESTMEATH	PROJECT MANAGER	PROFESSOR PETER MCGEE
ARCHITECT	MAIRIN ARCHITECTS	DATE	02/04/2011
SCALE	1:100	PROJECT	PROPOSED GAS CLEANING VESSEL, FLARE AND POST DIGESTION LOADING AREA
DATE	02/04/2011	PLANNING	

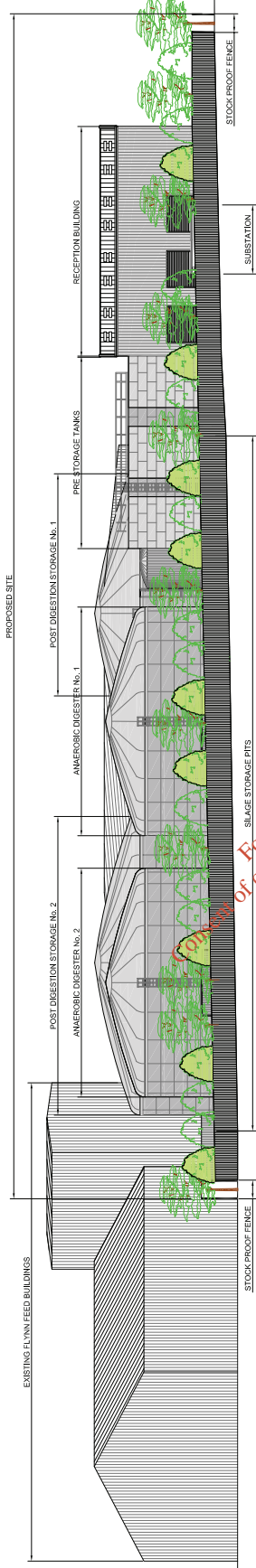


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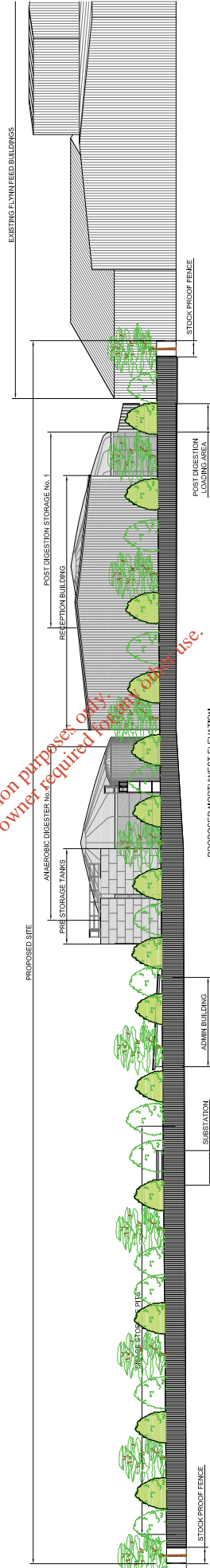
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DATE: 02/04/2011	DRAWN BY: [Name]	CHECKED BY: [Name]
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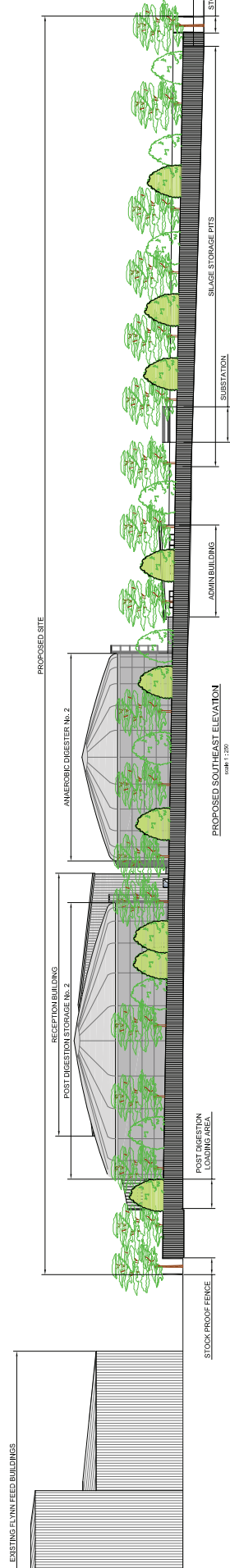
PROPOSED SOUTHWEST ELEVATION
SCALE: 1/250



PROPOSED NORTHEAST ELEVATION
SCALE: 1/250



PROPOSED NORTHEAST ELEVATION
SCALE: 1/250



PROPOSED SOUTHEAST ELEVATION
SCALE: 1/250

REVISION DATE 27/06/08

REVISION 1

FORM NO FRM-010

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DATE: 11/06/2008
PROJECT: PROPOSED BIOENERGY FACILITY AT NEWDOWNS, THE DOWNS, MILLINGAR, CO. WESTMEATH

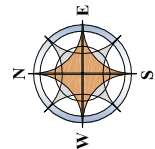
PROJECT: PROPOSED BIOENERGY FACILITY AT NEWDOWNS, THE DOWNS, MILLINGAR, CO. WESTMEATH
CLIENT: BIO AGRIGAS LTD.

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CONTINGUOUS ELEVATIONS

TELEPHONE: 00353 (0)1 2800 0011

PLANNING



PLANTING SCHEDULE	
A	COPSES ON SITE BOUNDARY Plants at 1.5m centres as 500 - 1200mm whips Acer campestre (Maple) 30% Fraxinus excelsior (Ash) 35% Cornus sanguinea (Dogwood) 20% Ilex aquifolium (Holly) 20%
B	GRASS OR GROUND COVER Planted at 1.5m centres 900mm - 1200mm whips (fescue) 800mm plants (grubbed) Alopecurus pratensis (Alder) 40% Betula pubescens (Birch) 40% Sedum album (White Bedstraw) 10% Sedum album (White Bedstraw) 10%
C	GRAVELED AREA
1	SITE BOUNDARY CANAL / STREAM 2 rows of 2.4m high stock proof fence spaced 2 metres apart to entire site boundary
2	2.4m high security gates to main entrance

Notes:
Existing hedgerows to be cut back and trimmed. Briars and other invasive vegetation to be removed from the site.
The planting schedule for the site will consist of both planting as necessary along the existing hedgerows with trees and shrubs as indicated, and by widening the hedgerow to between 3 and 4m width.
All plants to be prepared with a 20 litre plastic bag with 20 litres of moss peat and 70% of fertiliser. Pits to be 350 wide, the rootball, bottom of pits to be dug over to 300 below above pit to assist drainage.
Trees above 6 girth to have 50x50 treated timber stakes, all other plants to have support cane. All plants to have rabbit protection sleeve.

REV	NO	DESCRIPTION	DATE	BY	CHKD
D1		PROPOSED SITE LANDSCAPING	11/10/209	AL	
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PROPOSED BIENERGY FACILITY AT
NEWDNWS, THE DOWNS, MULLINGAR, CO. WESTMEATH
PROPOSED SITE LANDSCAPING

DATE: 11/10/209
DRAWN BY: AL
CHECKED BY: AL
SCALE: 1:500
DATE: 02/04/2011
PLANNING

CLIENT: PROPOSED BIENERGY FACILITY AT
NEWDNWS, THE DOWNS, MULLINGAR, CO. WESTMEATH
DRAWN BY: AL
CHECKED BY: AL
SCALE: 1:500
DATE: 02/04/2011
PLANNING

CLIENT: PROPOSED BIENERGY FACILITY AT
NEWDNWS, THE DOWNS, MULLINGAR, CO. WESTMEATH
DRAWN BY: AL
CHECKED BY: AL
SCALE: 1:500
DATE: 02/04/2011
PLANNING

CLIENT: PROPOSED BIENERGY FACILITY AT
NEWDNWS, THE DOWNS, MULLINGAR, CO. WESTMEATH
DRAWN BY: AL
CHECKED BY: AL
SCALE: 1:500
DATE: 02/04/2011
PLANNING

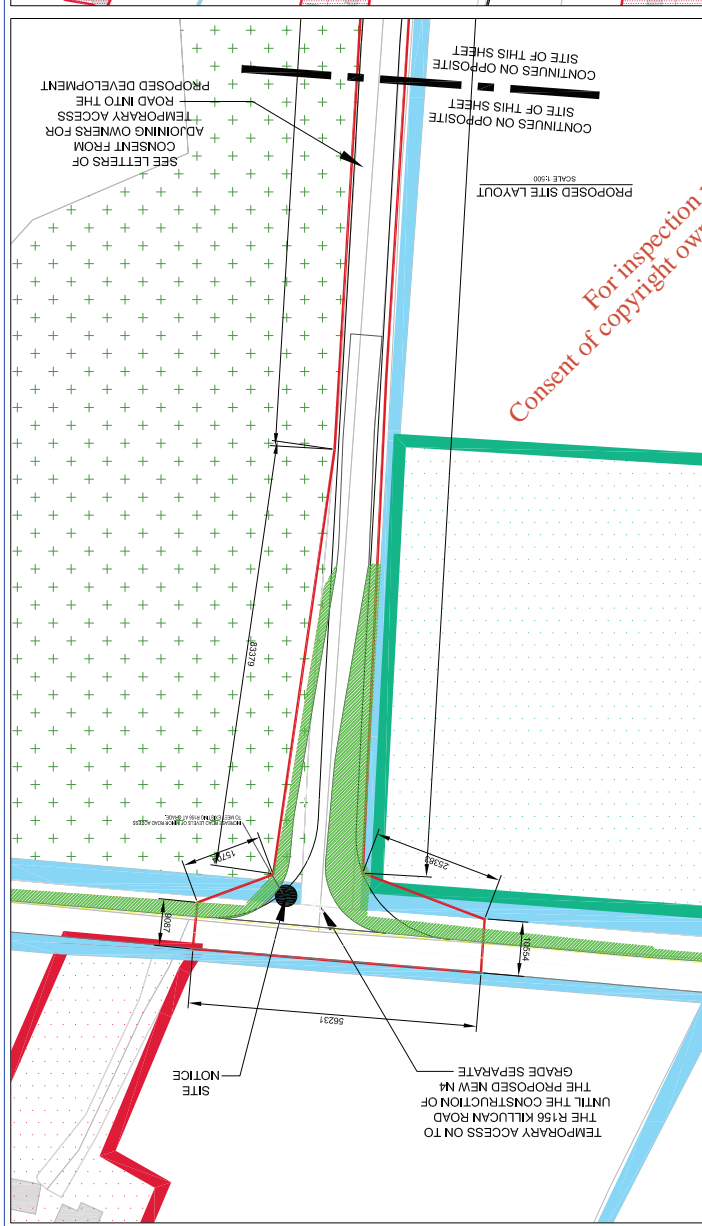
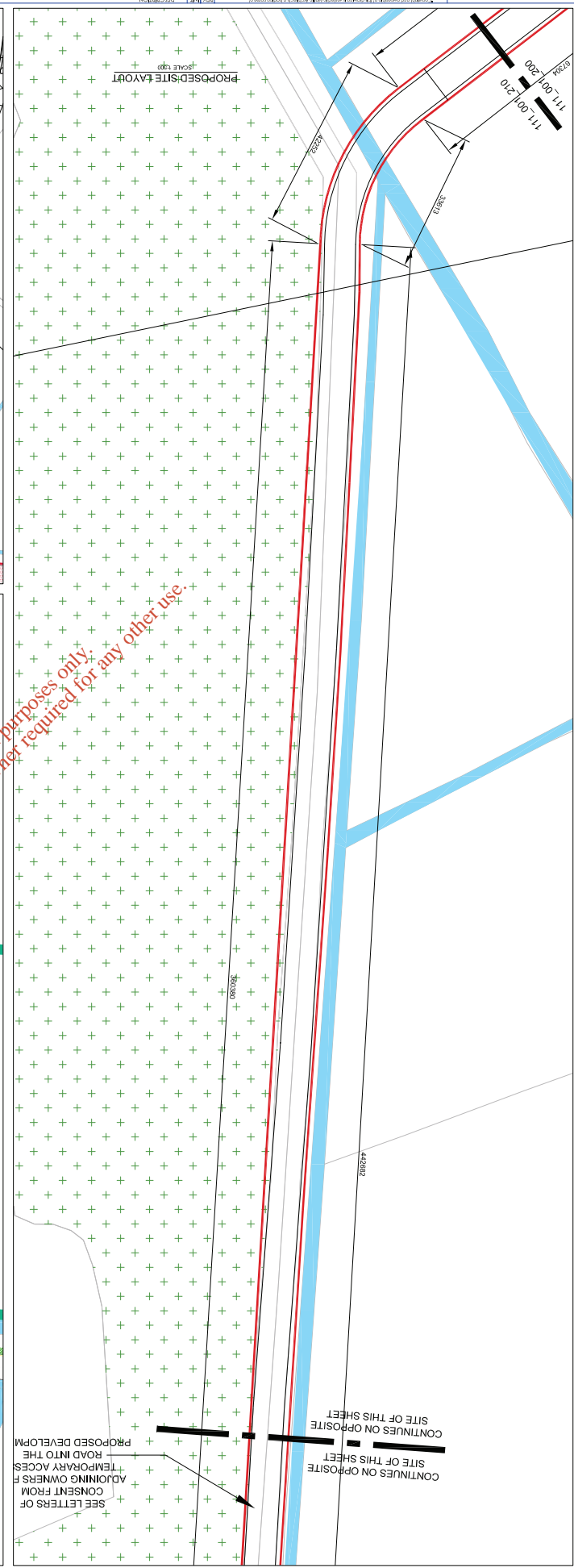
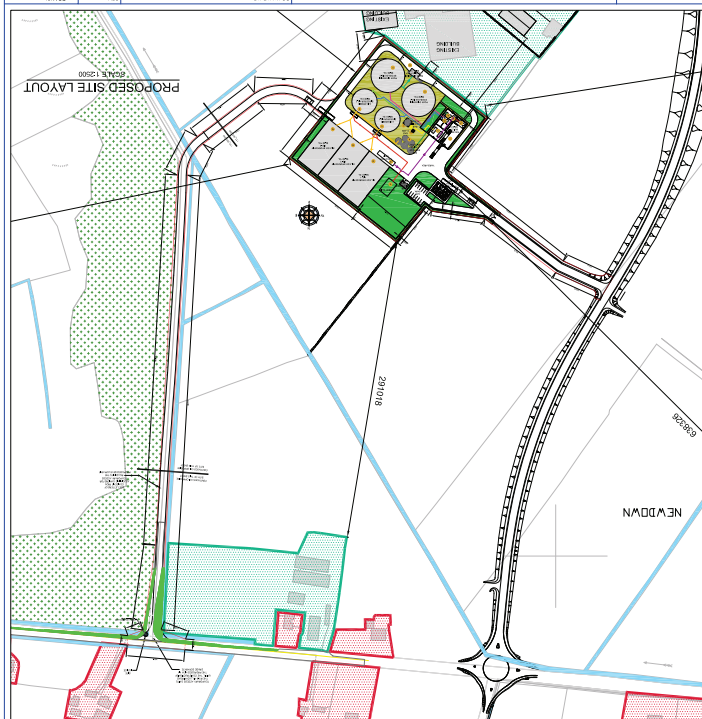
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NEWDNWS, THE DOWNS, MULLINGAR, CO. WESTMEATH
DRAWN BY: AL
CHECKED BY: AL
SCALE: 1:500
DATE: 02/04/2011
PLANNING

CLIENT: PROPOSED BIENERGY FACILITY AT
NEWDNWS, THE DOWNS, MULLINGAR, CO. WESTMEATH
DRAWN BY: AL
CHECKED BY: AL
SCALE: 1:500
DATE: 02/04/2011
PLANNING

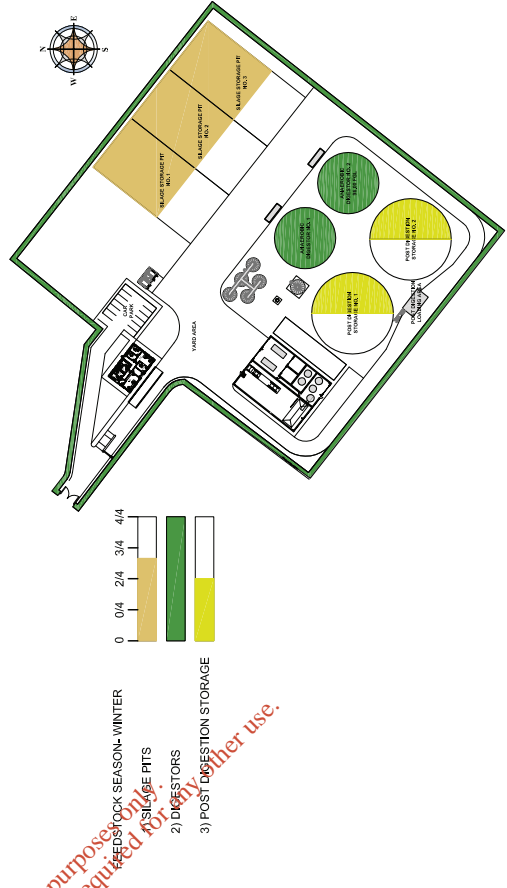
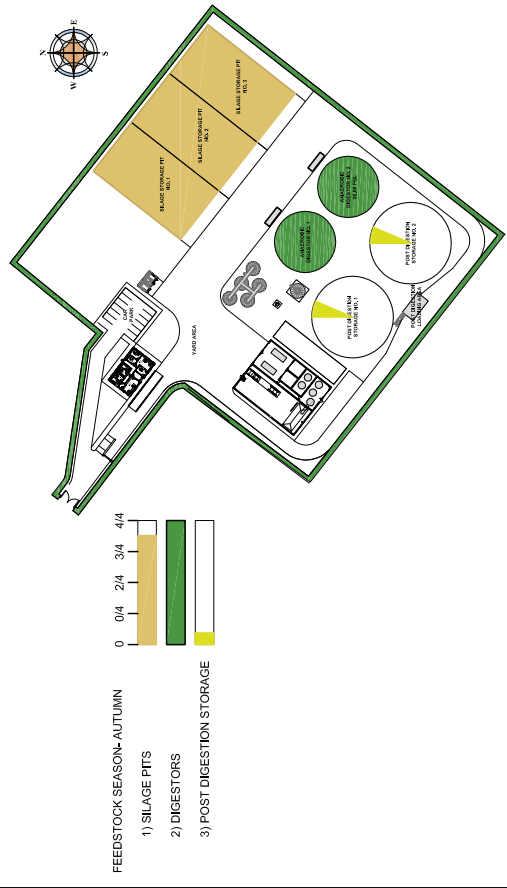
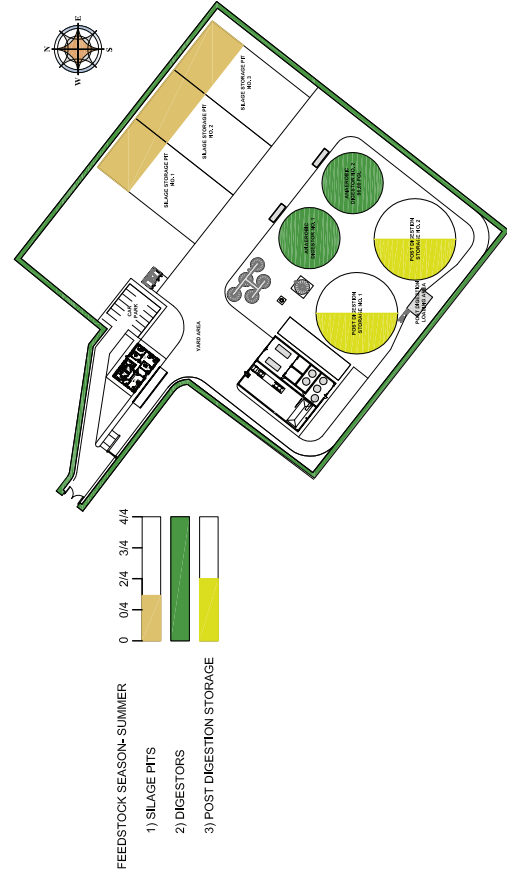
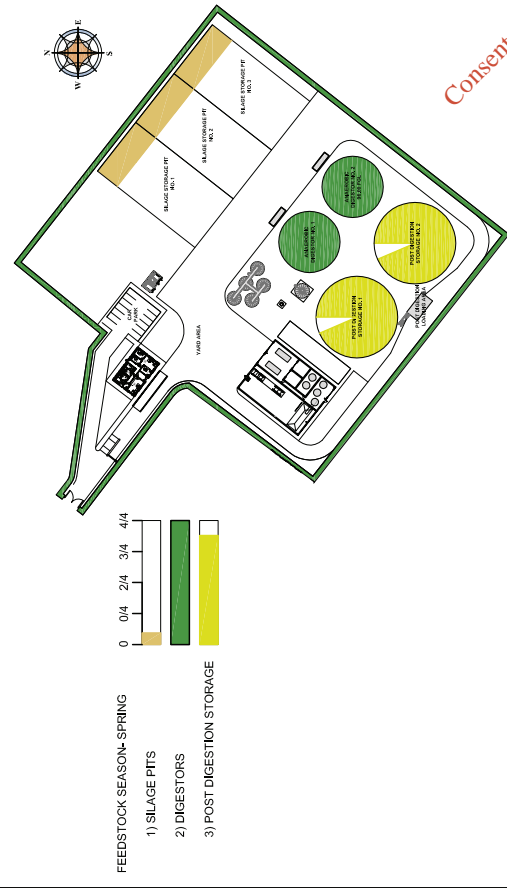
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SCALE	1:500 & 1:2500		
PROJECT	PROPOSED BIODIVERSITY FACILITY AT NEWDOWN, THE DOWNS, MILLINGAR, CO. WESTMETH		
CLIENT	BID AGRICULTURE LTD.		
DESIGNER	MORLIN ARCHITECTS		
DATE	11/01/2010		
CHECKED	D1		
APPROVED			
PLANNING			

PROPOSED BIODIVERSITY FACILITY AT NEWDOWN, THE DOWNS, MILLINGAR, CO. WESTMETH
 BID AGRICULTURE LTD.
 MORLIN ARCHITECTS
 11/01/2010
 D1

REV	NO	DESCRIPTION
01	1	ISSUED FOR PLANNING



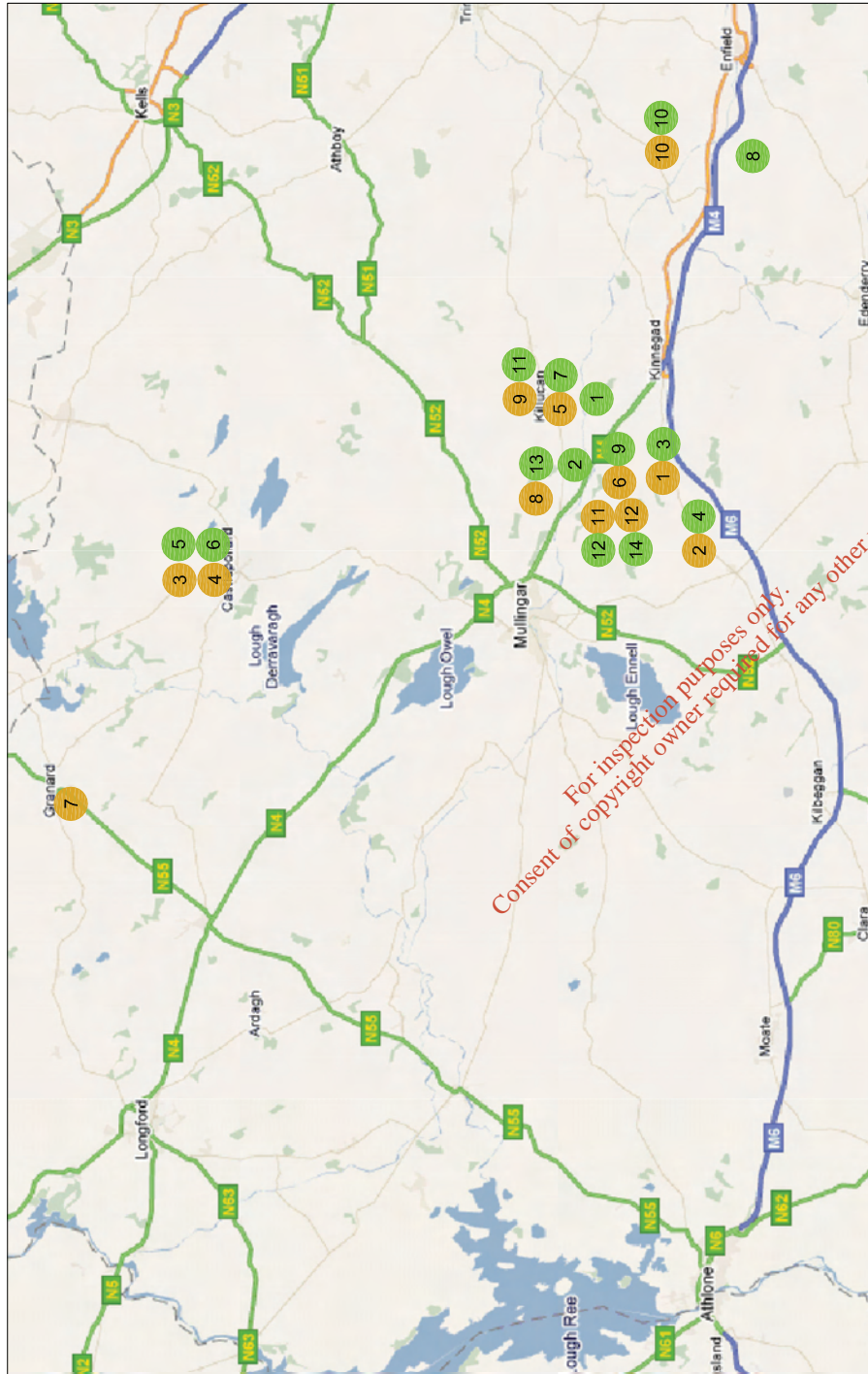
PLAN NO. 1-KM-010
 REVISION 1
 REVISION DATE: 02/04/2011



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<p>PROPOSED BIENERGY FACILITY AT NEWDOWNS, THE DOWNS, MULLINGAR, CO. WESTMEATH</p> <p>CLIENT: BIO AGRICOLA LTD.</p>		<p>PROJECT NO: 111/001/211</p> <p>DATE: 02/04/2011</p>
<p>REV INT DESCRIPTION</p> <p>01 E8 ISSUED FOR PLANNING</p>	<p>REV INT DESCRIPTION</p>	<p>SCALE: NTS</p>
<p>PROJECT: PROPOSED BIENERGY FACILITY AT NEWDOWNS, THE DOWNS, MULLINGAR, CO. WESTMEATH</p>		
<p>CLIENT: BIO AGRICOLA LTD.</p>		
<p>ARCHITECT: marlin architects DEBRA ARCHITECTURAL PROJECT MANAGEMENT</p>		
<p>PROJECT NO: 111/001/211</p> <p>DATE: 02/04/2011</p>		
<p>SCALE: NTS</p>		
<p>PROJECT: PROPOSED BIENERGY FACILITY AT NEWDOWNS, THE DOWNS, MULLINGAR, CO. WESTMEATH</p>		
<p>CLIENT: BIO AGRICOLA LTD.</p>		



SUPPLIERS OF FEED STOCK		RECEIVERS OF PRODUCT	
1	PATRICK A DARDIS-CLONFAD, KINNEGAD	1	THOMAS CLEARY-BALLINLA, KILLUCAN
2	LEO WRIGHT-GORTUAMON MILLTOWNPASS	2	THOMAS FLYNN- WOODFORT, THE DOWNS
3	MICHAEL FAY- FREIGHMORE, CASTLEPOLLARD	3	PATRICK A DARDIS- CLONFAD, KINNEGAD
4	WILLIAM FAY- FREIGHMORE, CASTLEPOLLARD	4	LEO WRIGHT- GORTUAMON MILLTOWNPASS
5	PAT LYNAM- PORTERSTOWN, KILLUCAN	5	MICHAEL FAY- FREIGHMORE, CASTLEPOLLARD
6	JOHN FLYNN- LOWTOWN, CORALSTOWN	6	WILLIAM FAY- FREIGHMORE, CASTLEPOLLARD
7	BAKERY WASTE	7	PAT LYNAM- PORTERSTOWN, KILLUCAN
8	PAUL FLYNN- NEWDOWN, THE DOWNS	8	JOHN SOLLEY- CADAMSTOWN, BROADFORD
9	PAUL CONNOR- BALROWAN, KILLUCAN	9	JOHN FLYNN- LOWTOWN, CORALSTOWN
10	W. BUTTIMER & SONS- DALYSTOWN, LONGWOOD	10	W. BUTTIMER & SONS- DALYSTOWN, LONGWOOD
11	FRANCES FLYNN- LOWTOWN, CORALSTOWN	11	PAUL CONNOR- BALROWAN, KILLUCAN
12	MATTHEW GLENNON- HIGHTOWN CORALSTOWN	12	FRANCES FLYNN- LOWTOWN, CORALSTOWN
		13	PAUL FLYNN- NEWDOWN, THE DOWNS
		14	MATTHEW GLENNON- HIGHTOWN CORALSTOWN

REV	IN/F	DESCRIPTION	DATE	BY
D1	CB	ISSUED FOR PLANNING	11/11/2013	D1
REV	IN/F	DESCRIPTION	DATE	BY

 ORIGINAL DESIGNER OF THE PROPOSED BIOMETHANE FACILITY AT NEWDOWNS, THE DOWNS, MULLINGAR, CO. WESTMEATH	 PROPOSED BIOMETHANE FACILITY AT NEWDOWNS, THE DOWNS, MULLINGAR, CO. WESTMEATH	DRAWING TITLE FEEDSTOCK SUPPLIER/ PRODUCT RECEIVER	DRAWING NO. 111/001/213	REV D1	DRAWN CB
PROJECT NO. 111/001/213	PROJECT NAME PROPOSED BIOMETHANE FACILITY AT NEWDOWNS, THE DOWNS, MULLINGAR, CO. WESTMEATH	DRAWING DATE 02/04/2011	AMENDMENT DATE 11/11/2013	CHECKED D1	DATE 02/04/2011
PROJECT NO. 111/001/213	PROJECT NAME PROPOSED BIOMETHANE FACILITY AT NEWDOWNS, THE DOWNS, MULLINGAR, CO. WESTMEATH	DRAWING NO. 111/001/213	AMENDMENT NO. 01	CHECKED BY D1	DATE 02/04/2011
PROJECT NO. 111/001/213	PROJECT NAME PROPOSED BIOMETHANE FACILITY AT NEWDOWNS, THE DOWNS, MULLINGAR, CO. WESTMEATH	DRAWING NO. 111/001/213	AMENDMENT NO. 01	CHECKED BY D1	DATE 02/04/2011

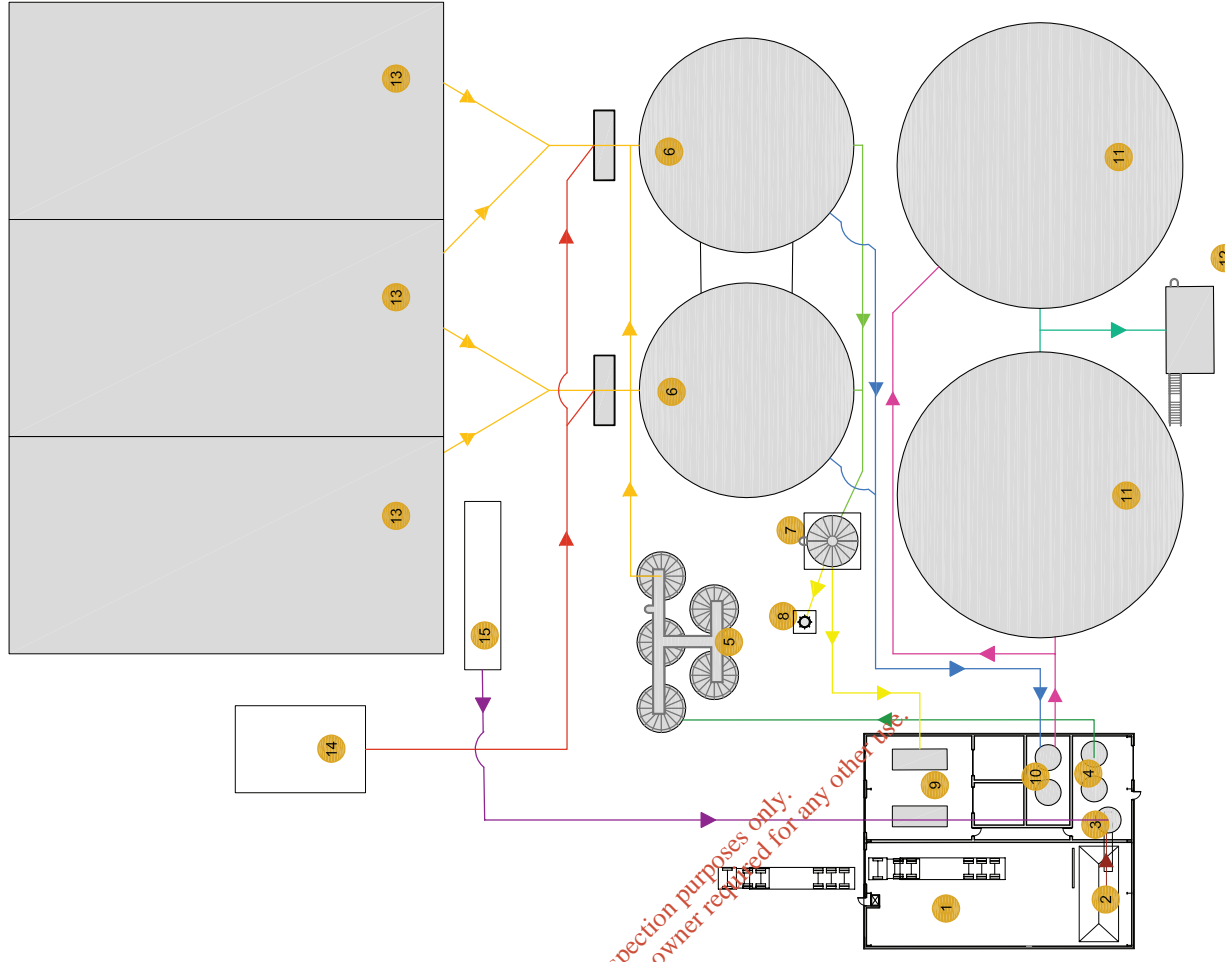
BIO ENERGY PROCESS

1	DELIVERY AREA	9	ENGINES
2	WASTE RECEPTION AREA	10	HYGIENISATION AREA
3	MIXING TANK	11	POST DIGESTION STORAGE
4	HYDROLISYS	12	POST DIGESTION LOADING AREA
5	PRE STORAGE TANKS	13	SILAGE STORAGE PITS
6	ANAEROBIC DIGESTERS	14	SLURRY TANKS
7	GAS CLEANING VESSEL	15	LEACHATE TANK
8	FLARE		

FLOW OF MATERIAL

2	DELIVERED WASTE MATERIAL
3	MIXED & HYDROLISYS MATERIAL
4	PRE DIGESTION MATERIAL
5	PRE DIGESTION MATERIAL
6	UNCLEANED GAS
7	CLEANED GAS
8	POST DIGESTOR MATERIAL
9	HYGIENISED MATERIAL
10	HYGIENISED POST DIGESTOR MATERIAL
11	LEACHATE MATERIAL
12	
13	
14	
15	

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		PROJECT TITLE: PROPOSED BIOENERGY FACILITY AT NEWDOWNS, THE DOWNS, MILLINGAR, CO. WESTMEATH CLIENT: BIO AGRIGAS LTD.	
REV: D1 DATE: 11/001/214 DESCRIPTION: AMENDMENT DATE	REV: D1 DATE: 11/001/214 DESCRIPTION: AMENDMENT DATE	REV: D1 DATE: 11/001/214 DESCRIPTION: AMENDMENT DATE	REV: D1 DATE: 11/001/214 DESCRIPTION: AMENDMENT DATE
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