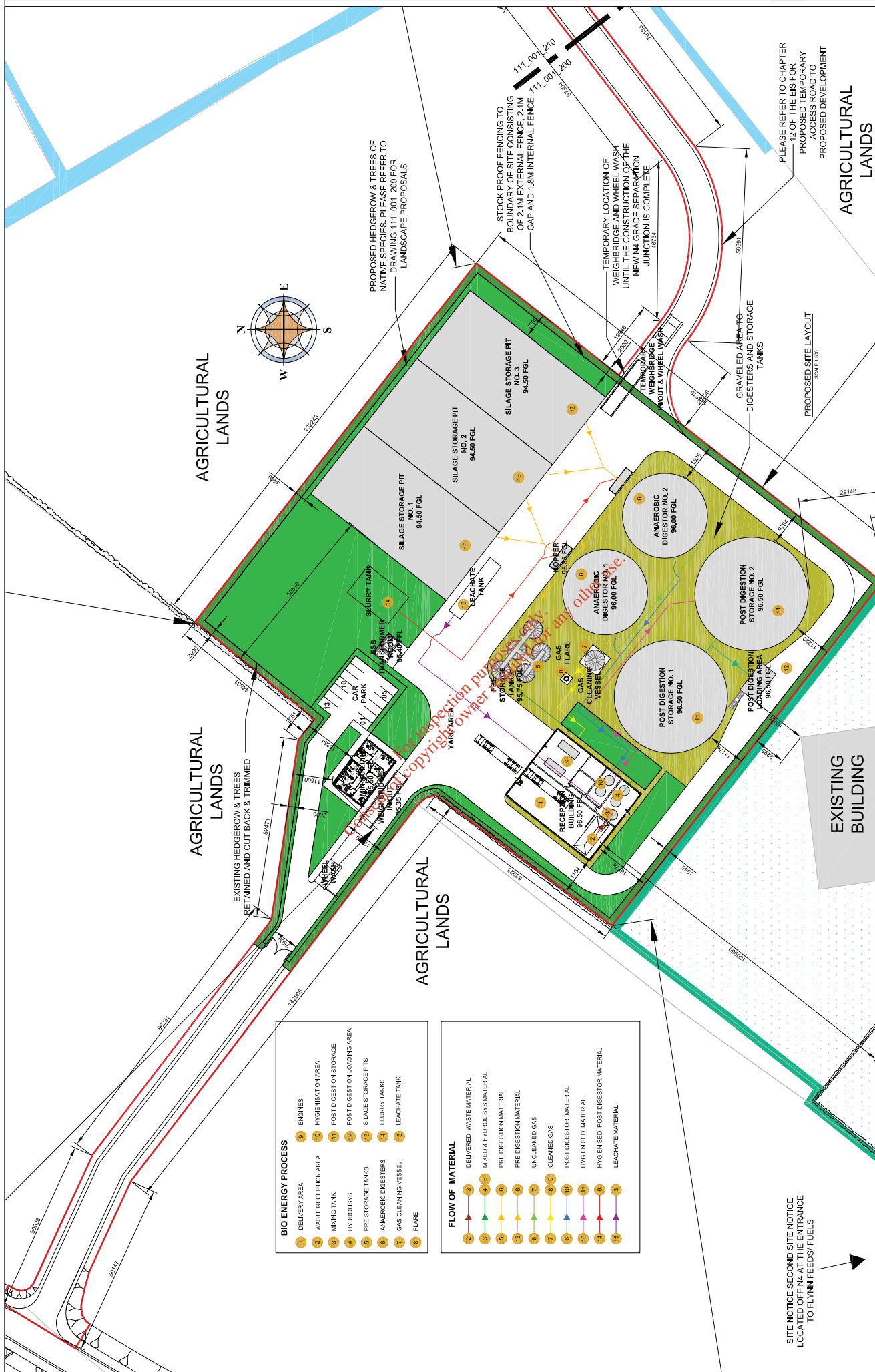


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Appendix J

Planning Drawings – A4



AGRICULTURAL LANDS

AGRICULTURAL LANDS

AGRICULTURAL LANDS

AGRICULTURAL LANDS

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

- FLOW OF MATERIAL**
- 1 DELIVERED WASTE MATERIAL
 - 2 MIXED & HYDROLYSIS MATERIAL
 - 3 PRE DIGESTION MATERIAL
 - 4 PRE DIGESTION MATERIAL
 - 5 UNCLEANED GAS
 - 6 CLEANED GAS
 - 7 POST DIGESTOR MATERIAL
 - 8 HYDRONISED MATERIAL
 - 9 HYBRONISED POST DIGESTOR MATERIAL
 - 10 LEACHATE MATERIAL

SITE NOTICE SECOND SITE NOTICE
LOCATED OFF N4 AT THE ENTRANCE
TO FLYNN FEEDS/ FUELS

REV	DATE	DESCRIPTION
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3	27/06/08	ISSUED FOR PLANNING
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FORM NO FRM-100
REVISION DATE 27/06/08

REVISION 1

FORM NO FRM-100

REVISION 1

FORM NO FRM-100

REVISION 1

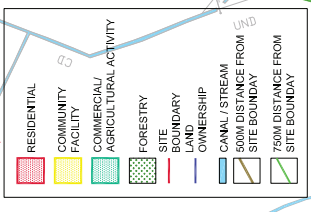
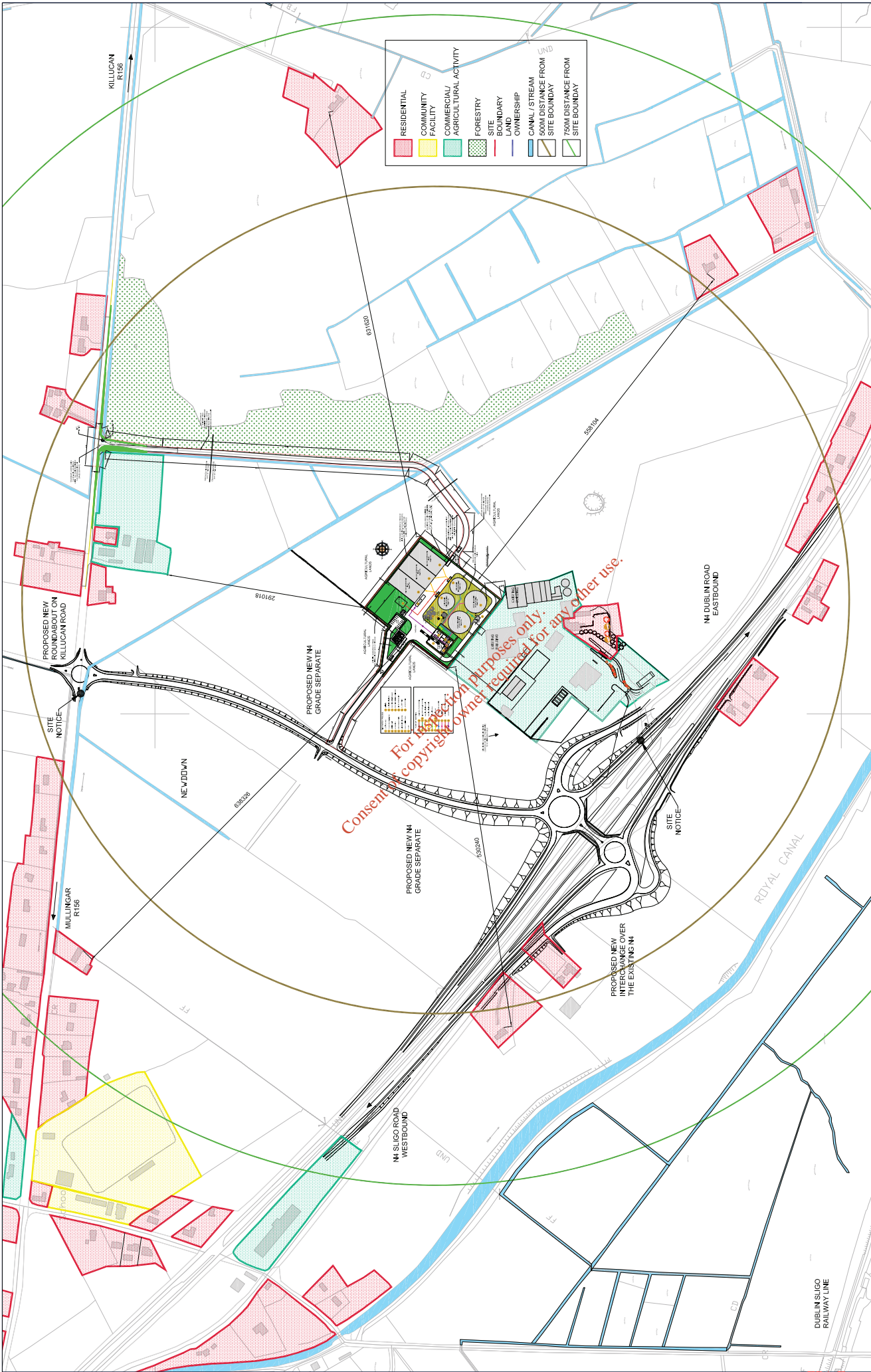
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REVISION 1

FORM NO FRM-100

REVISION 1

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 NEWTONS, THE DOWNS, MULLINGAR, CO. WESTMETH
 CLIENT: BIO AGRICAS LTD.
 ARCHITECTS: martin architects
 SCALE: 1:500
 DATE: 02/04/2011
 SHEET 1 OF 2
 DRAWING NO: 111/000/200
 PROJECT: PROPOSED BIOENERGY FACILITY AT
 NEWTONS, THE DOWNS, MULLINGAR, CO. WESTMETH
 CLIENT: BIO AGRICAS LTD.
 ARCHITECTS: martin architects
 SCALE: 1:500
 DATE: 02/04/2011
 SHEET 1 OF 2
 DRAWING NO: 111/000/200



PROPOSED BIOREENERGY FACILITY AT NEWDOWN, TIEBURN ROAD, CO. WESTMEATH

CLIENT: BIO AGRIEAS LTD.

DATE: 11/10/2011

SCALE: 1:2500

PROJECT NO.: 111/000/201

DATE: 02/04/2011

PROJECT: SITE LOCATION MAP

REV	NO	DESCRIPTION	DATE
01	01	ISSUED FOR TENDERS	

APPROVALS:

Author: [Name] Date: [Date]

Check: [Name] Date: [Date]

Drawn: [Name] Date: [Date]

Project Manager: [Name] Date: [Date]

Client: [Name] Date: [Date]

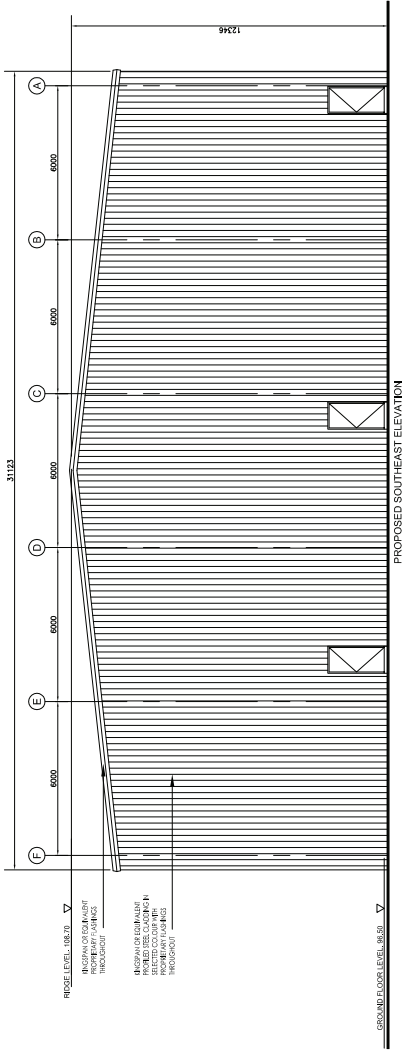
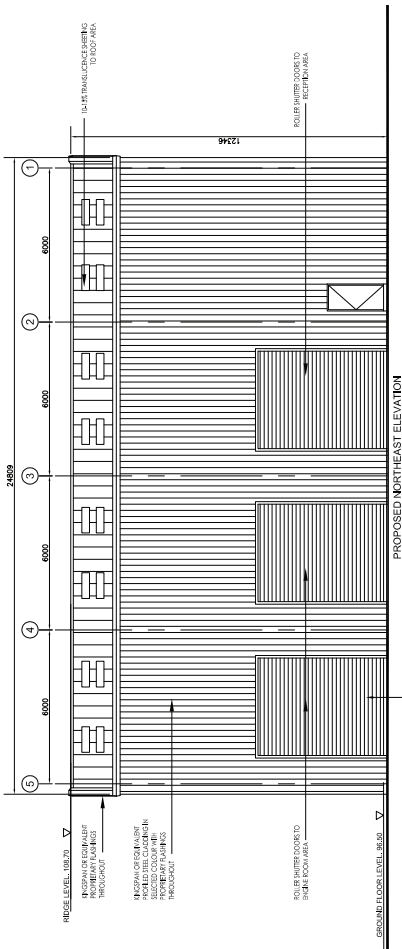
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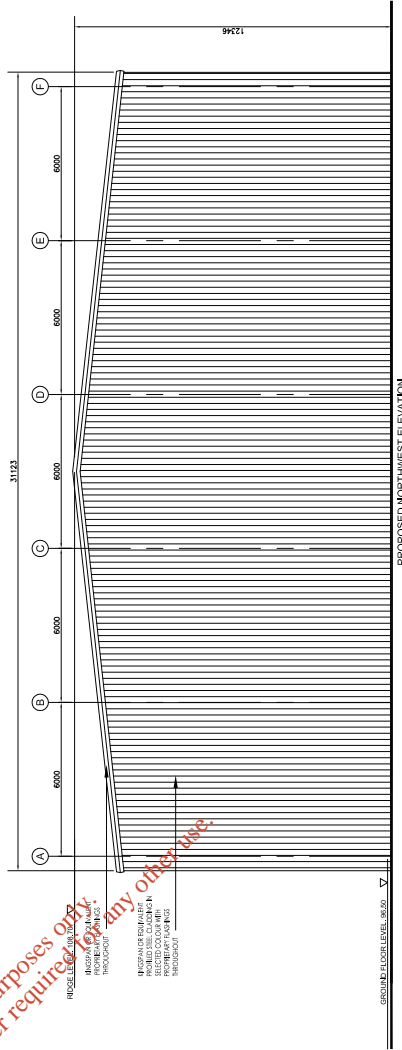
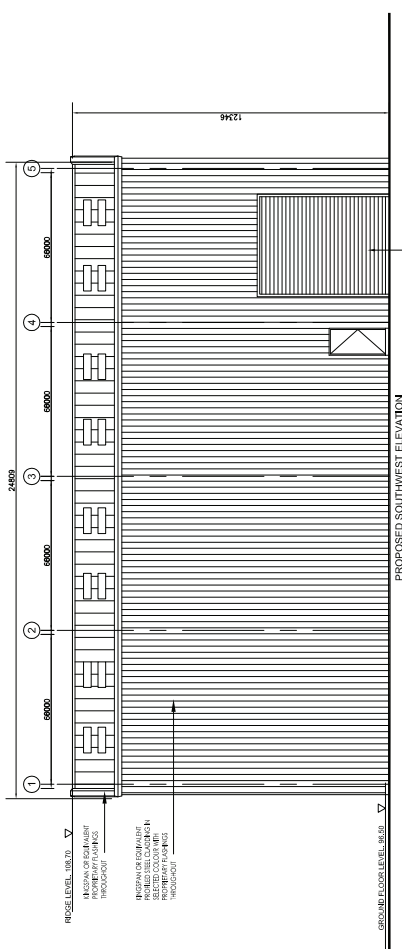
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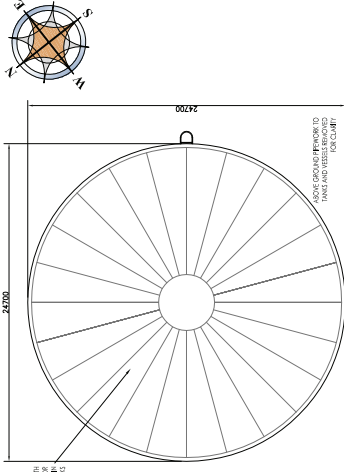
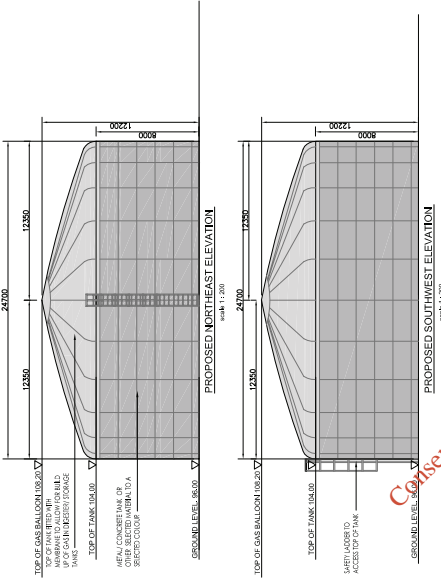
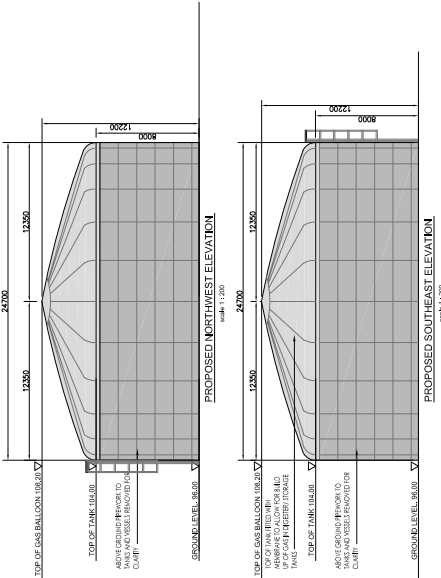
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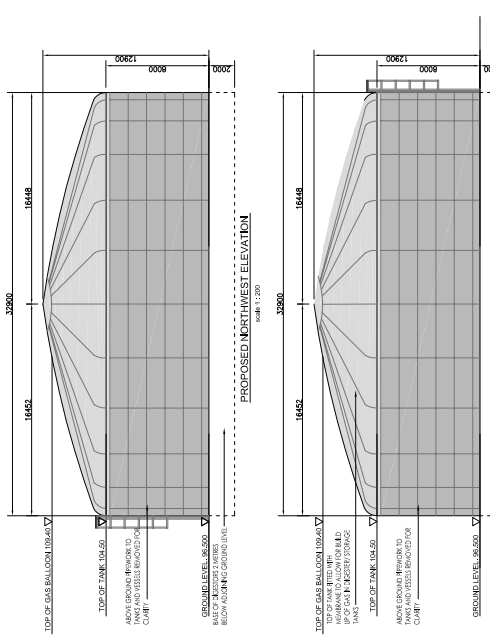
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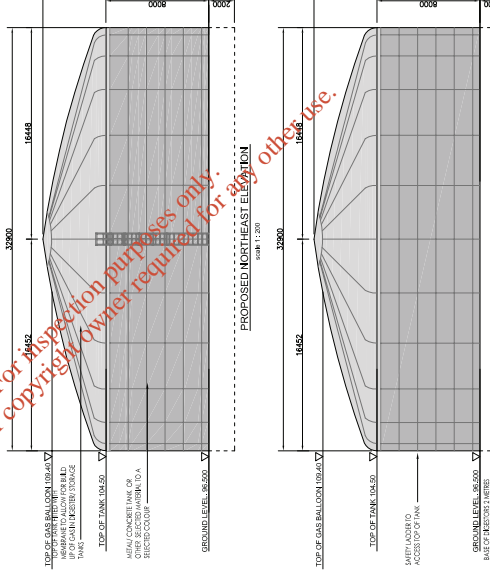
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DATE: 02/04/2011		SCALE: 1:100	
DRAWING NO: 1111001/203			
REV: D1 DATE: 02/04/2011			
PROJECT: PROPOSED BIOMASS FACILITY AT NEWMOONS, THE DOWNS, MULLINGAR, CO. WESTMEATH			
CLIENT: BID AGRICAS LTD.			
SCALE: 1:100			



PROPOSED ANAEROBIC DIGESTERS PLAN
SCALE 1:200



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



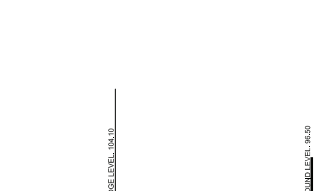
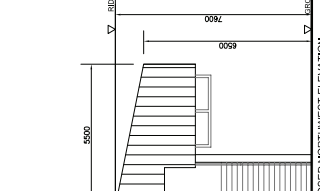
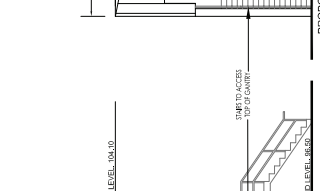
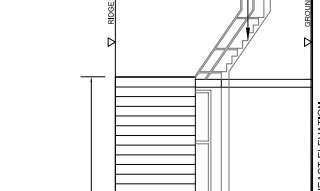
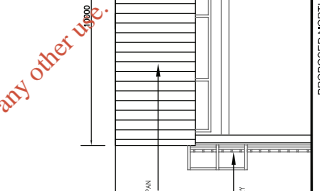
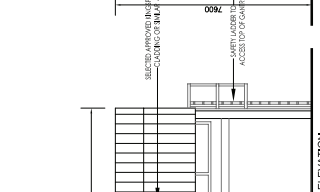
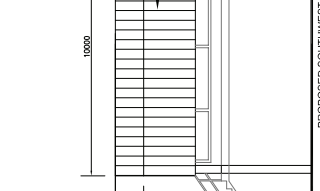
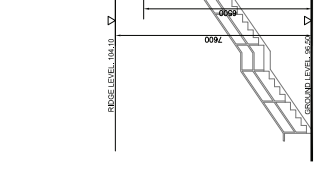
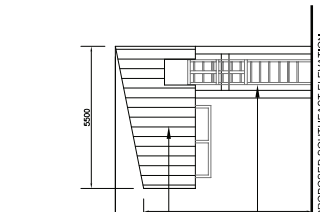
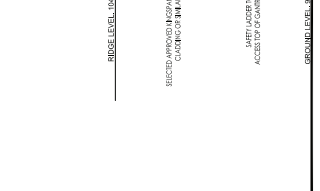
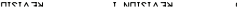
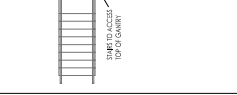
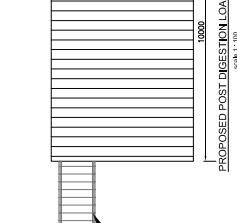
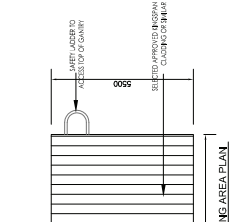
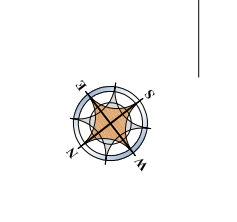
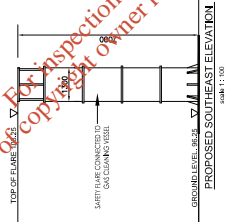
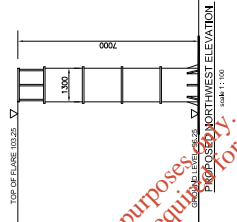
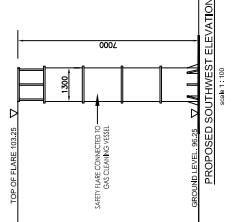
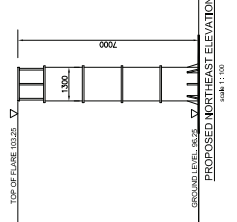
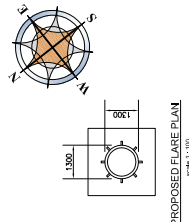
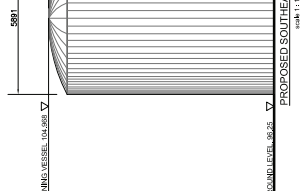
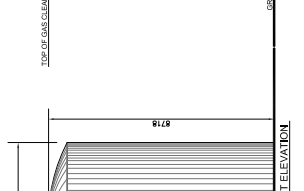
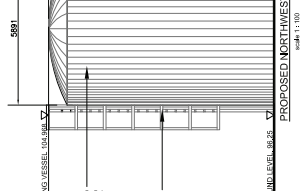
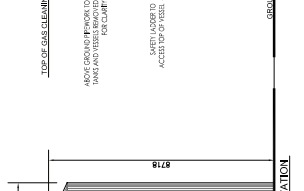
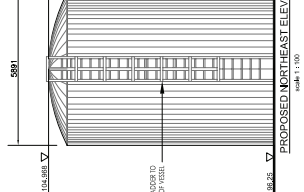
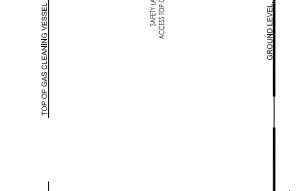
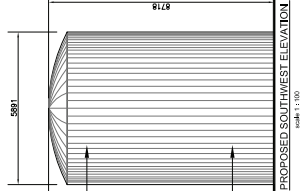
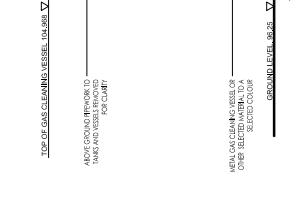
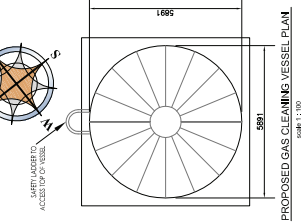
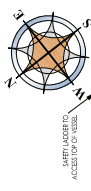
PROPOSED ANAEROBIC DIGESTERS AND
POST-DIGESTION STORAGE TANKS PLAN
SCALE 1:200

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108047 BIO-AGRICAS LTD.

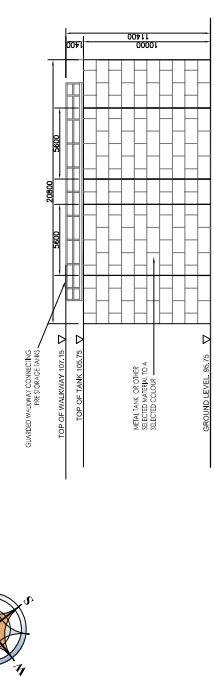
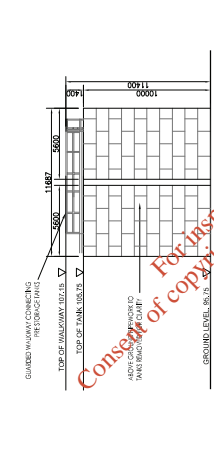
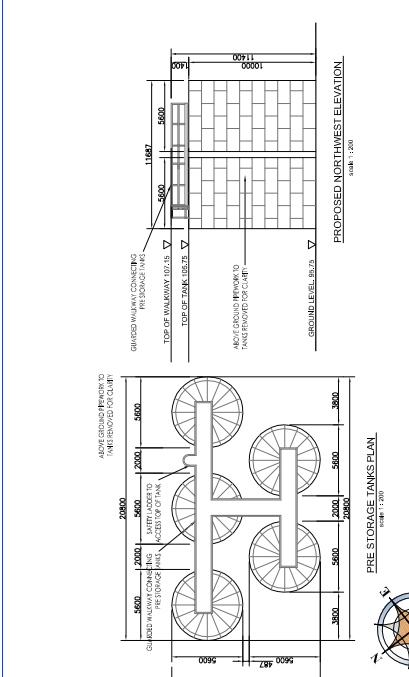
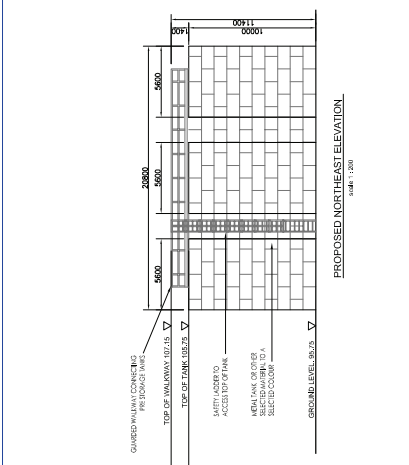
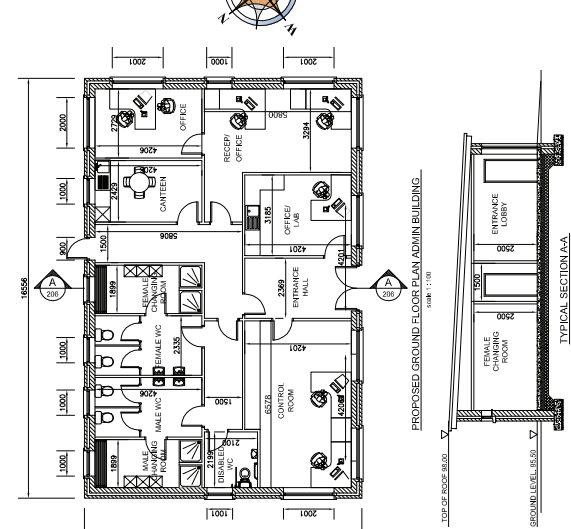
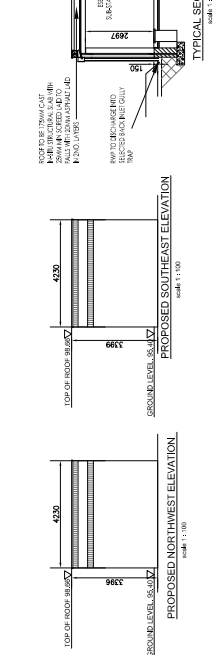
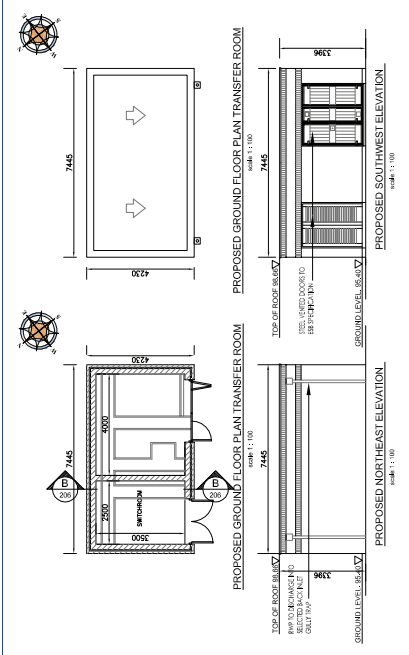
111/001/204
PROPOSED PLANS AND ELEVATIONS OF
ANAEROBIC DIGESTERS/ POST STORAGE TANKS
PLANNING

REV	DATE	BY	CHKD	DESCRIBED
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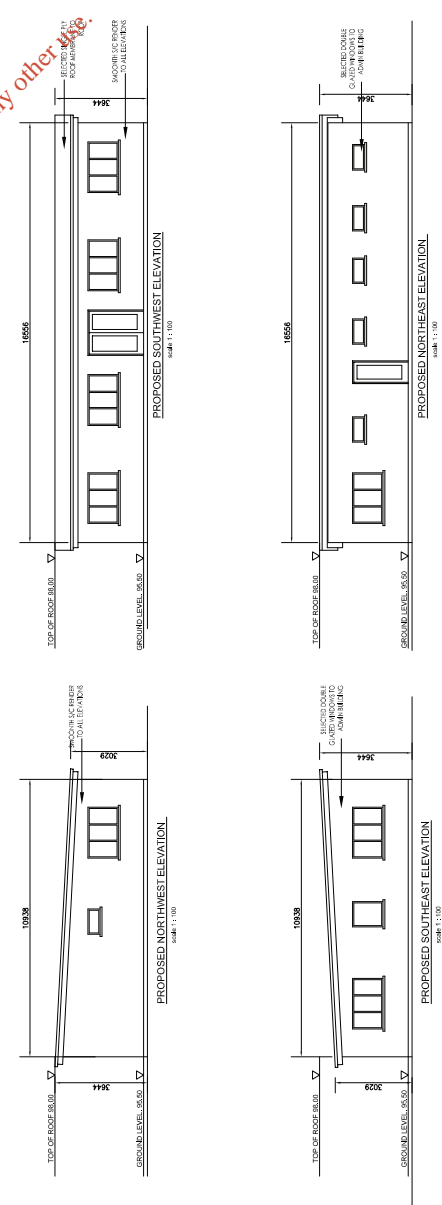


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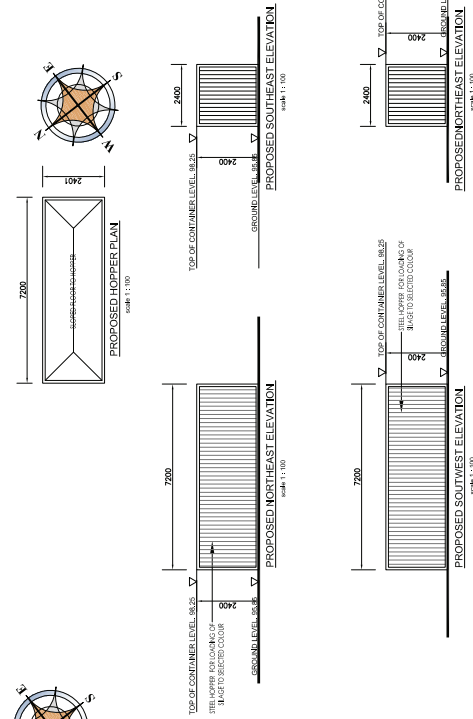
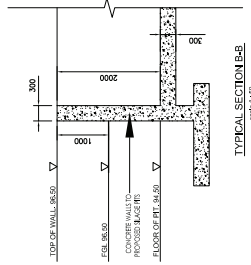
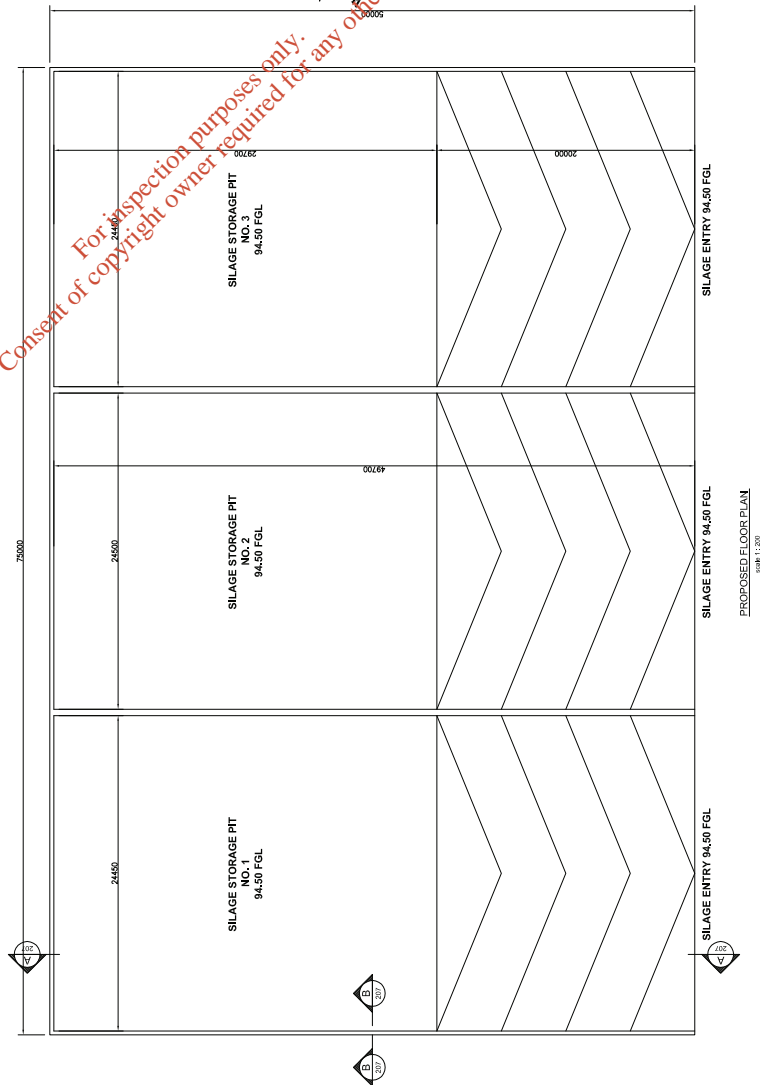
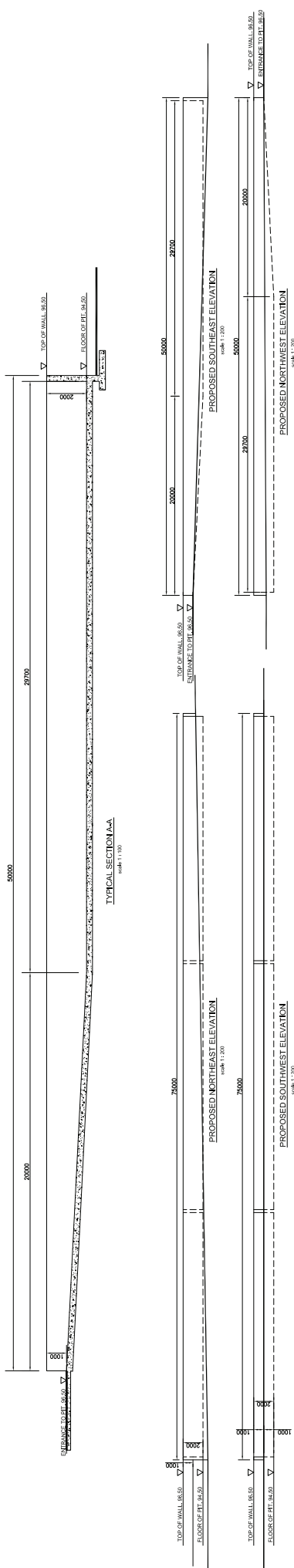
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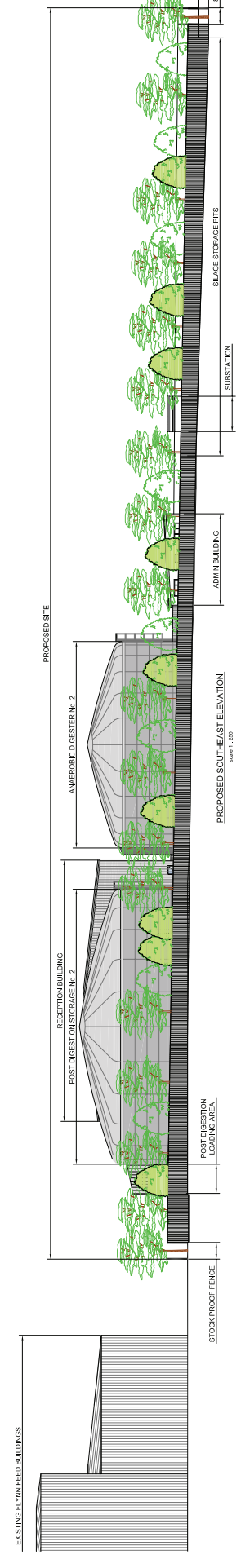
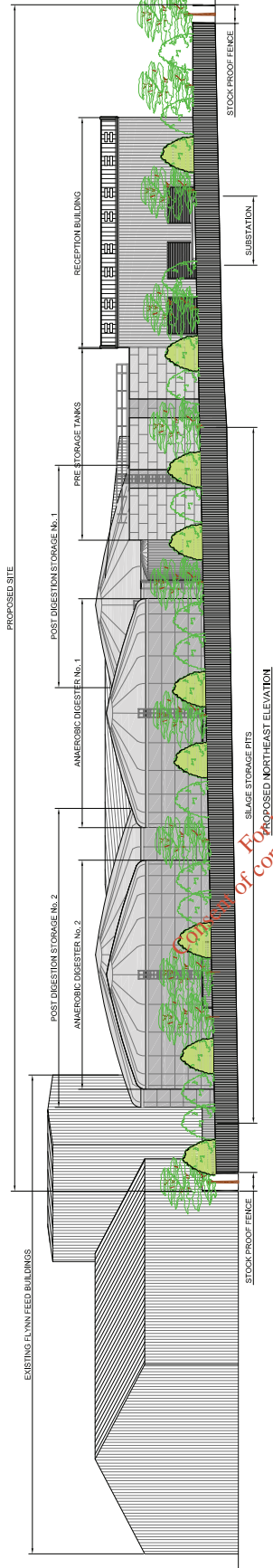
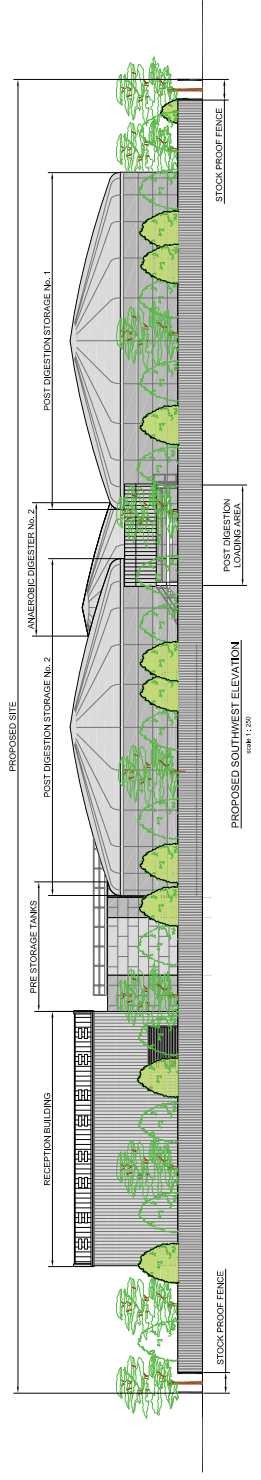


<p>DATE: 11/01/2011</p> <p>PROJECT: PROPOSED BIOMETHANE FACILITY AT RENDOWNS, THE DOWNS, MULLINGAR, CO. WESTMEATH</p> <p>CLIENT: BICO AGRICULTURE</p>	<p>NO. SHEETS: 111,001/226</p> <p>NO. SHEETS USED: 111,001/226</p> <p>NO. SHEETS LEFT: 0</p> <p>NO. SHEETS MISSING: 0</p> <p>NO. SHEETS REVISIONS: 0</p>	<p>REV: CS</p> <p>REV: DI</p> <p>REV: PL</p> <p>REV: AT</p> <p>REV: 11/03 & 1/200</p> <p>REV: 02/04/2011</p> <p>REV: PLANNING</p>
<p>DATE: 11/01/2011</p> <p>PROJECT: PROPOSED BIOMETHANE FACILITY AT RENDOWNS, THE DOWNS, MULLINGAR, CO. WESTMEATH</p> <p>CLIENT: BICO AGRICULTURE</p>	<p>NO. SHEETS: 111,001/226</p> <p>NO. SHEETS USED: 111,001/226</p> <p>NO. SHEETS LEFT: 0</p> <p>NO. SHEETS MISSING: 0</p> <p>NO. SHEETS REVISIONS: 0</p>	<p>REV: CS</p> <p>REV: DI</p> <p>REV: PL</p> <p>REV: AT</p> <p>REV: 11/03 & 1/200</p> <p>REV: 02/04/2011</p> <p>REV: PLANNING</p>
<p>DATE: 11/01/2011</p> <p>PROJECT: PROPOSED BIOMETHANE FACILITY AT RENDOWNS, THE DOWNS, MULLINGAR, CO. WESTMEATH</p> <p>CLIENT: BICO AGRICULTURE</p>	<p>NO. SHEETS: 111,001/226</p> <p>NO. SHEETS USED: 111,001/226</p> <p>NO. SHEETS LEFT: 0</p> <p>NO. SHEETS MISSING: 0</p> <p>NO. SHEETS REVISIONS: 0</p>	<p>REV: CS</p> <p>REV: DI</p> <p>REV: PL</p> <p>REV: AT</p> <p>REV: 11/03 & 1/200</p> <p>REV: 02/04/2011</p> <p>REV: PLANNING</p>
<p>DATE: 11/01/2011</p> <p>PROJECT: PROPOSED BIOMETHANE FACILITY AT RENDOWNS, THE DOWNS, MULLINGAR, CO. WESTMEATH</p> <p>CLIENT: BICO AGRICULTURE</p>	<p>NO. SHEETS: 111,001/226</p> <p>NO. SHEETS USED: 111,001/226</p> <p>NO. SHEETS LEFT: 0</p> <p>NO. SHEETS MISSING: 0</p> <p>NO. SHEETS REVISIONS: 0</p>	<p>REV: CS</p> <p>REV: DI</p> <p>REV: PL</p> <p>REV: AT</p> <p>REV: 11/03 & 1/200</p> <p>REV: 02/04/2011</p> <p>REV: PLANNING</p>



REV.	DATE	DESCRIPTION	BY	CHK.
01	02/04/2011	ISSUED FOR TENDERS		
02	02/04/2011	AS SHOWN		

PROJECT: PROPOSED STORAGE STORAGE PITS AND HOPPER TO DIGESTORS
CLIENT: NEW-DOWNS, THE ENGINEERING & CONSTRUCTION COMPANY
DRAWING NO: 1111/001/207
DATE: 02/04/2011



REVISION DATE 27/06/08

REVISION 1

FORM NO RM-010

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REV	DATE	DESCRIPTION	BY	CHKD
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02		REVISED	MB	CS
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marlin architects
 PROPOSED BIOENERGY FACILITY AT
 NEWDOWNS, THE DOWNS, MILLINGAR, CO. WESTMEATH
 CLIENT: BIO AGRIGAS LTD.

DRAWING NO: 11/001/288
 DATE: 11/06/08
 PROJECT: PROPOSED BIOENERGY FACILITY AT NEWDOWNS, THE DOWNS, MILLINGAR, CO. WESTMEATH
 CLIENT: BIO AGRIGAS LTD.
 CONTIGUOUS ELEVATIONS
 DATE: 08/09/2011
 DRAWN BY: MB
 CHECKED BY: CS
 APPROVED BY: MB
 PROJECT NO: 11/001/288



PLANTING SCHEDULE
A COPSES ON SITE BOUNDARY Plants at 1.5m centres as 900 - 1200mm whips
Acer campestre (Maple) 30%
Fraxinus excelsior (Ash) 35%
Salix caprea (Willow) 20%
Ilex aquifolium (Holly) 20%
B GRASS OR GROUND COVER Planted at 1.5m centres 900mm - 1200mm whips (flexed) 800mm plants (grubbed)
Alnus glutinosa (Alder) 40%
Betula pubescens (Bitch) 40%
Salix caprea (Willow) 10%
Sorbus Ailam (White Beam) 10%
C GRAVELED AREA
SITE BOUNDARY
CANAL / STREAM
1 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. Hedgerows to be replaced with a new planting regime. The new hedgerows will consist of both planting as necessary to replace 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 20 litres of water, 20 litres of manure and 700g of fertiliser. Pits to be 350mm wide, the bottom of pits to be dug over to 300mm below the pit to assist drainage.
Trees above 6m to have 50x50 treated timber stakes, all other plants to have support cane. All plants to have rabbit protection sleeve.

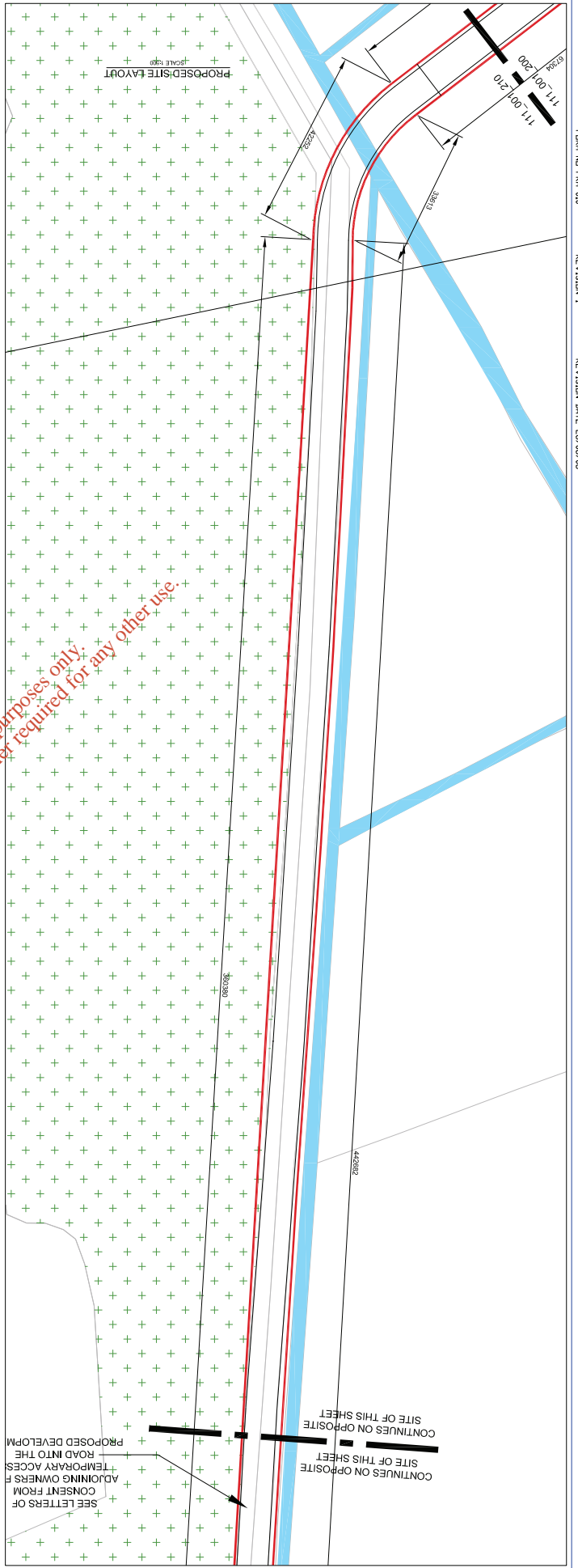
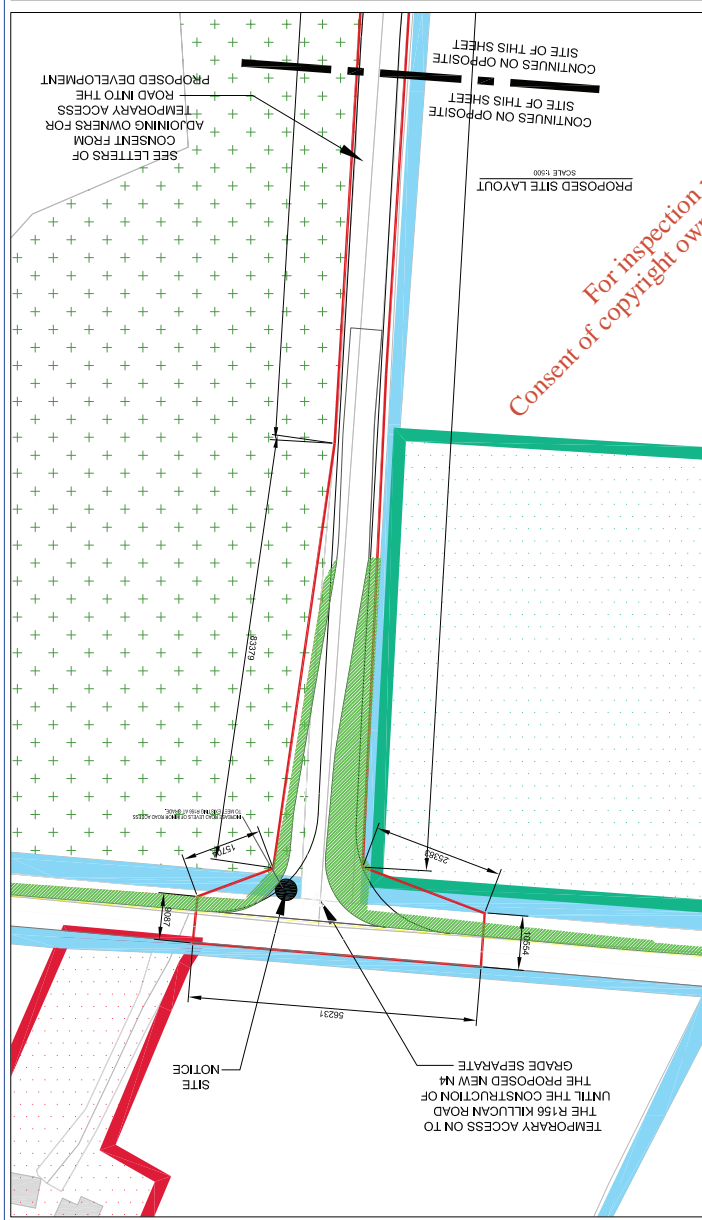
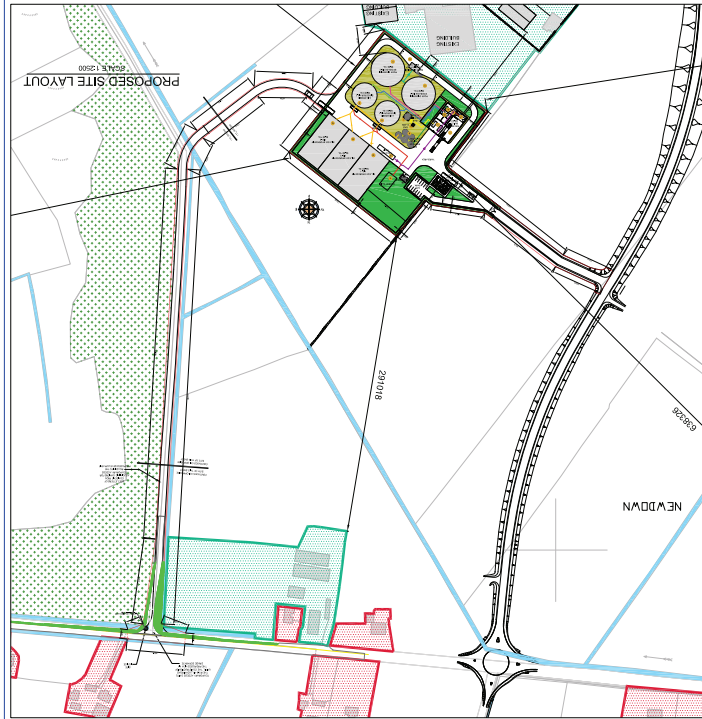
PROPOSED TEMPORARY ACCESS ROAD NOT INCLUDED IN PLAN DUE TO THE TEMPORARY USE OF THE ROAD FOR THE PROPOSED DEVELOPMENT.

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D1	2	02/04/2011	PLANNING

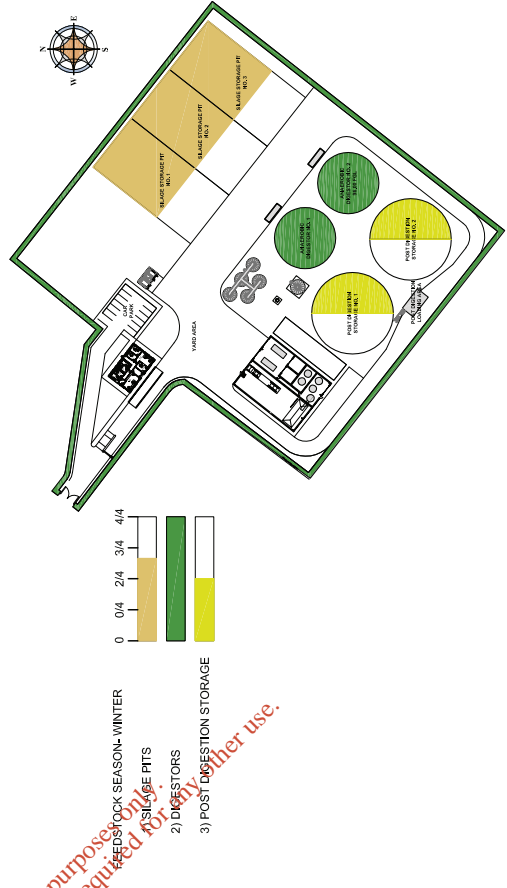
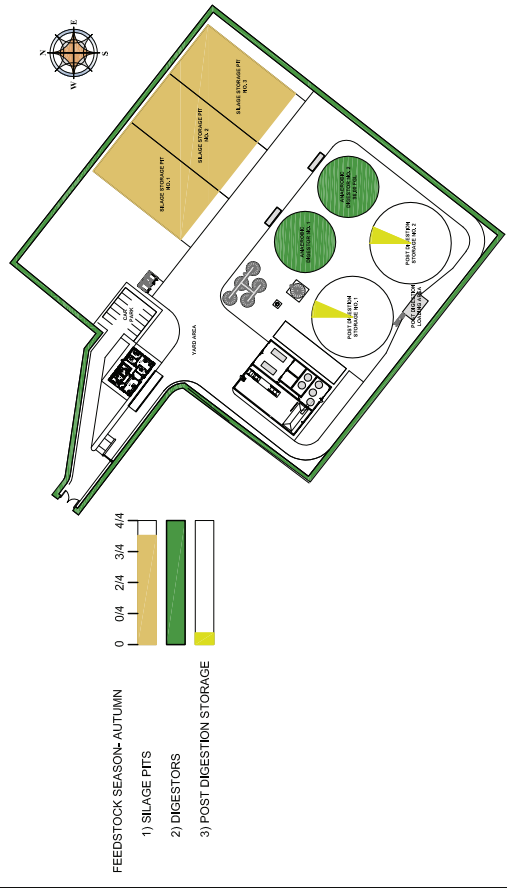
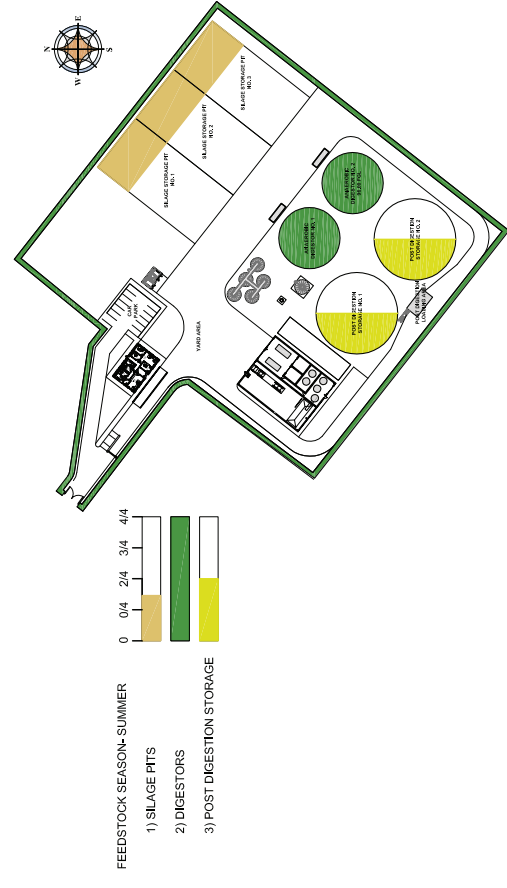
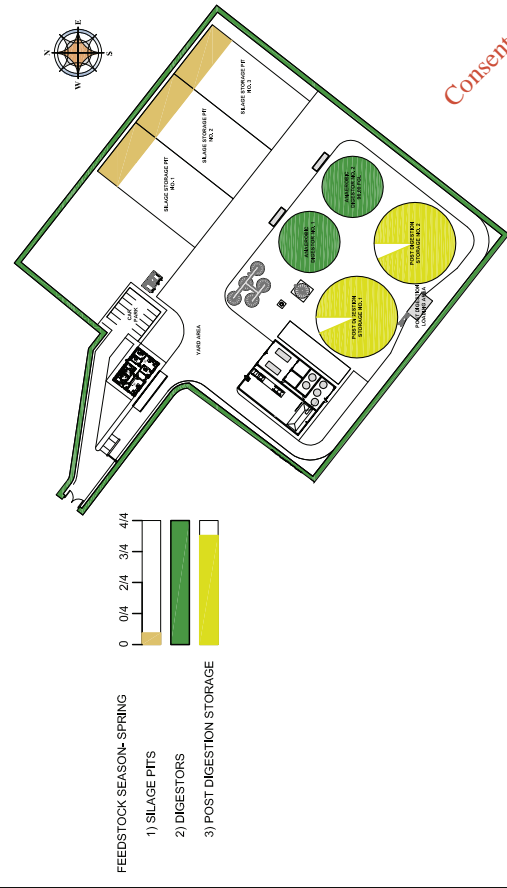
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DRAWN BY: [Name]
CHECKED BY: [Name]
SCALE: 1:500
PROJECT NO.: [Number]
PROJECT NAME: PROPOSED BIENERGY FACILITY AT NEWDOWN, THE DOWNS, MULLINGAR, CO. WESTMEATH
CLIENT: BIO AGRIGAS LTD.

marlin architects
PROPOSED BIENERGY FACILITY AT NEWDOWN, THE DOWNS, MULLINGAR, CO. WESTMEATH
BIO AGRIGAS LTD.

REV	NO	DATE	DESCRIPTION
D1	1	11/10/2009	PROPOSED SITE LANDSCAPING
D1	2	02/04/2011	PLANNING



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

REV	INT	DESCRIPTION
01	E8	ISSUED FOR PLANNING

PROJECT NO.	111/001/211
DATE	02/04/2011
SCALE	NTS

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DATE	02/04/2011
SCALE	NTS

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SCALE	NTS

PROJECT NO.	111/001/211
DATE	02/04/2011
SCALE	NTS

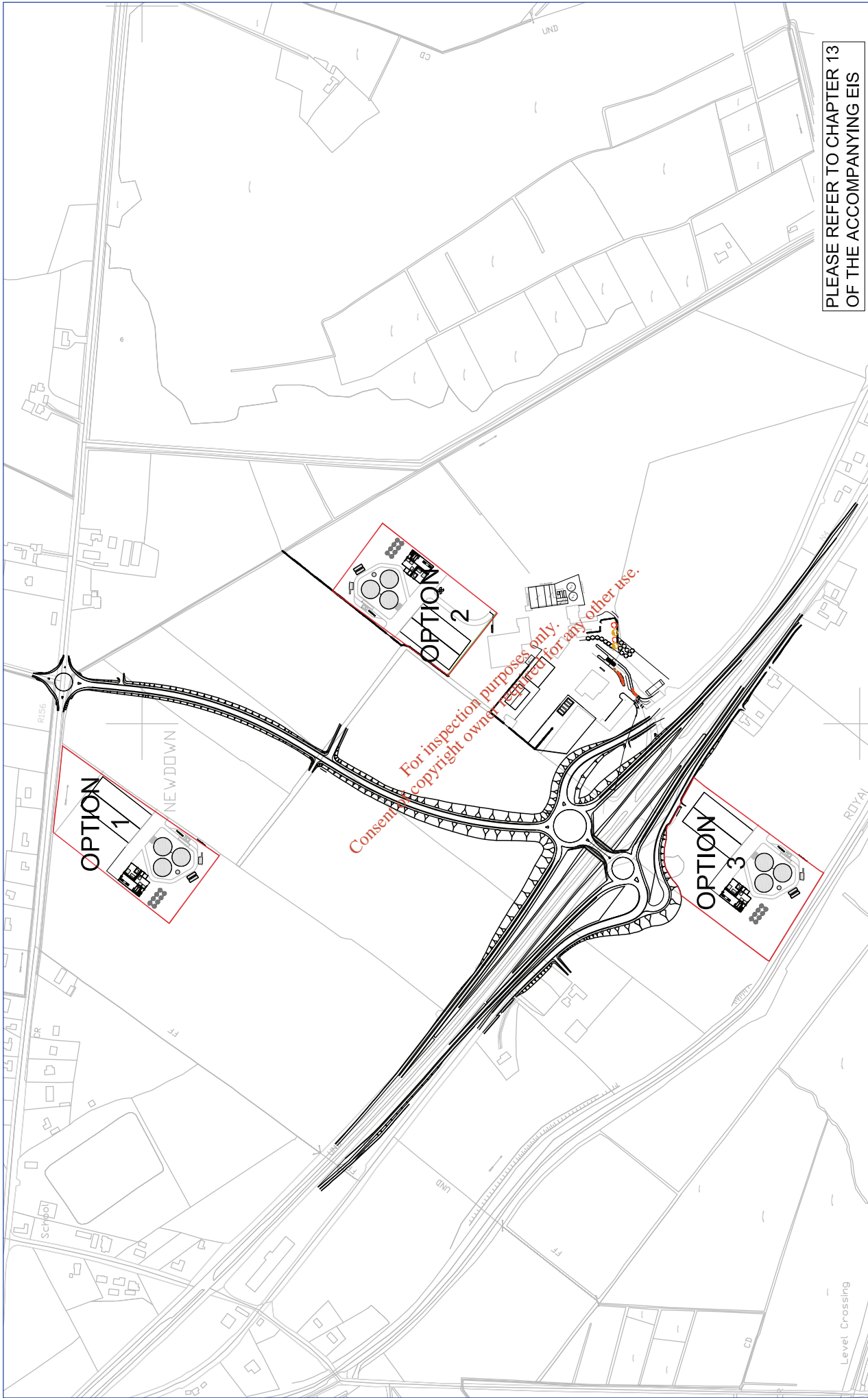
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DATE	02/04/2011
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DATE	02/04/2011
SCALE	NTS



**PLEASE REFER TO CHAPTER 13
OF THE ACCOMPANYING EIS**

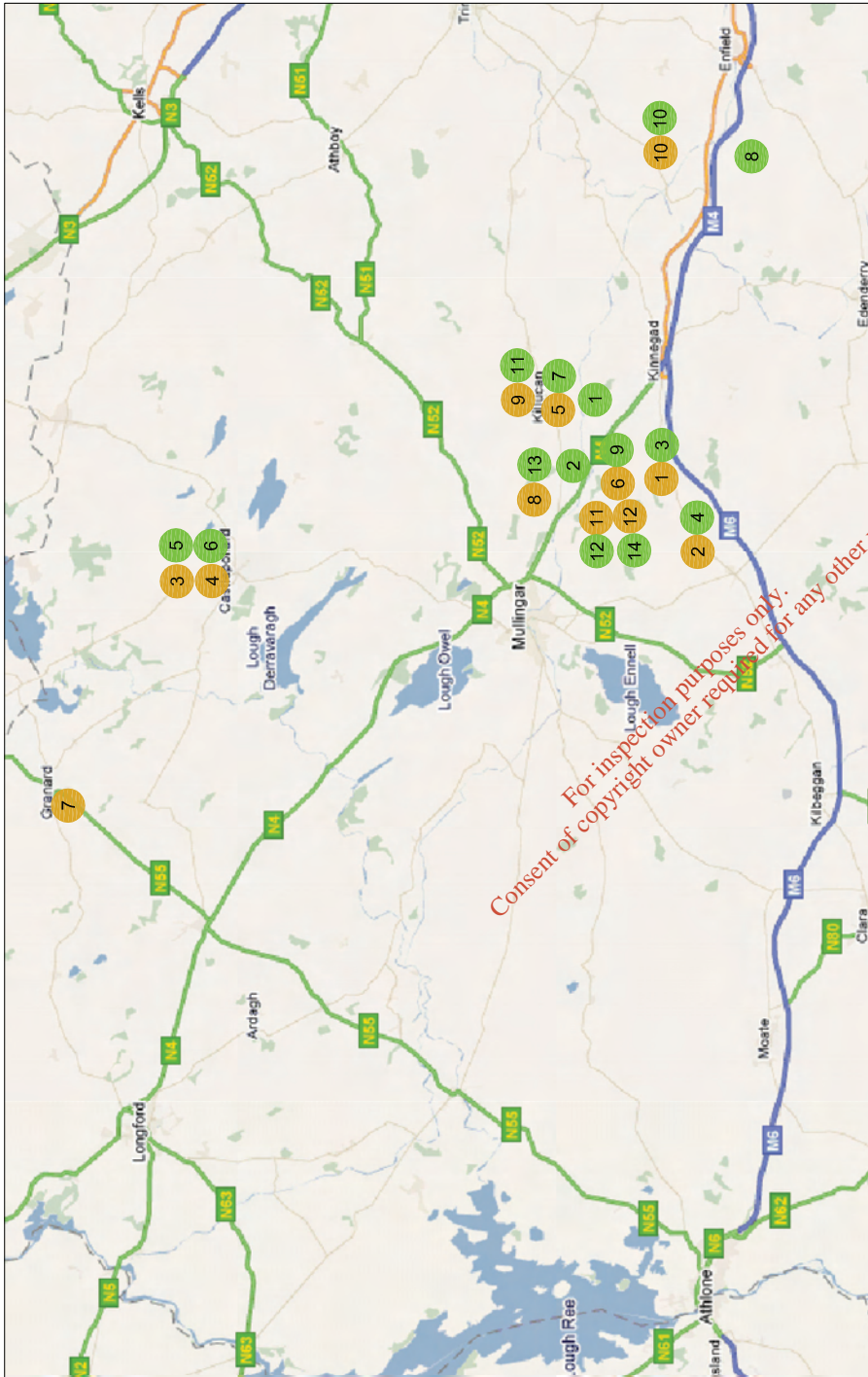
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PROJECT NO: 111/001/212 PROJECT DATE: 11/01/2012 PROJECT LOCATION: NEWDOWN, THE DOWNS, MULLINGAR, CO. WESTMEATH		DRAWING DATE: 11/01/2012 DRAWING SCALE: NTS		REV: NTS DATE: 02/04/2011 DRAWING SCALE: NTS	
PROJECT NO: 111/001/212 PROJECT DATE: 11/01/2012 PROJECT LOCATION: NEWDOWN, THE DOWNS, MULLINGAR, CO. WESTMEATH		DRAWING NO: 111/001/212 DRAWING TITLE: ALTERNATIVE SITES		REV: NTS DATE: 02/04/2011 DRAWING SCALE: NTS	
PROJECT TITLE: PROPOSED BIOENERGY FACILITY AT NEWDOWN, THE DOWNS, MULLINGAR, CO. WESTMEATH CLIENT: BIO AGRIGAS LTD.		DRAWING NO: 111/001/212 DRAWING TITLE: ALTERNATIVE SITES		REV: NTS DATE: 02/04/2011 DRAWING SCALE: NTS	
PROJECT TITLE: PROPOSED BIOENERGY FACILITY AT NEWDOWN, THE DOWNS, MULLINGAR, CO. WESTMEATH CLIENT: BIO AGRIGAS LTD.		DRAWING NO: 111/001/212 DRAWING TITLE: ALTERNATIVE SITES		REV: NTS DATE: 02/04/2011 DRAWING SCALE: NTS	



PROPOSED BIOENERGY FACILITY AT
NEWDOWN, THE DOWNS, MULLINGAR, CO. WESTMEATH
CLIENT: BIO AGRIGAS LTD.

REV	DATE	DESCRIPTION
D1	11/01/2012	ISSUED FOR PLANNING

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SUPPLIERS OF FEED STOCK

1	PATRICK A DARDIS-CLONFAD, KINNEGAD
2	LEO WRIGHT- GORTUAMON MILLTOWNPASS
3	MICHAEL FAY- FREIGHMORE, CASTLEPOLLARD
4	WILLIAM FAY- FREIGHMORE, CASTLEPOLLARD
5	PAT LYNAM- PORTERSTOWN, KILLUCAN
6	JOHN FLYNN- LOWTOWN, CORALSTOWN
7	BAKERY WASTE
8	PAUL FLYNN- NEWDOWN, THE DOWNS
9	PAUL CONNOR- BALROWAN, KILLUCAN
10	W. BUTTIMER & SONS- DALYSTOWN, LONGWOOD
11	FRANCES FLYNN- LOWTOWN, CORALSTOWN
12	MATTHEW GLENNON- HIGHTOWN CORALSTOWN

RECEIVERS OF PRODUCT

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

		111/001/213 AMENDMENT DATE	D1 PAGE NO. 03	CB APPD.
PROJECT TITLE PROPOSED BIOENERGY FACILITY AT NEWDOWNS, THE DOWNS, MULLINGAR, CO. WESTMEATH		DRAWING TITLE FEEDSTOCK SUPPLIER/ PRODUCT RECEIVER		
CLIENT BIO AGRIGAS LTD.		DATE 02/04/2011		

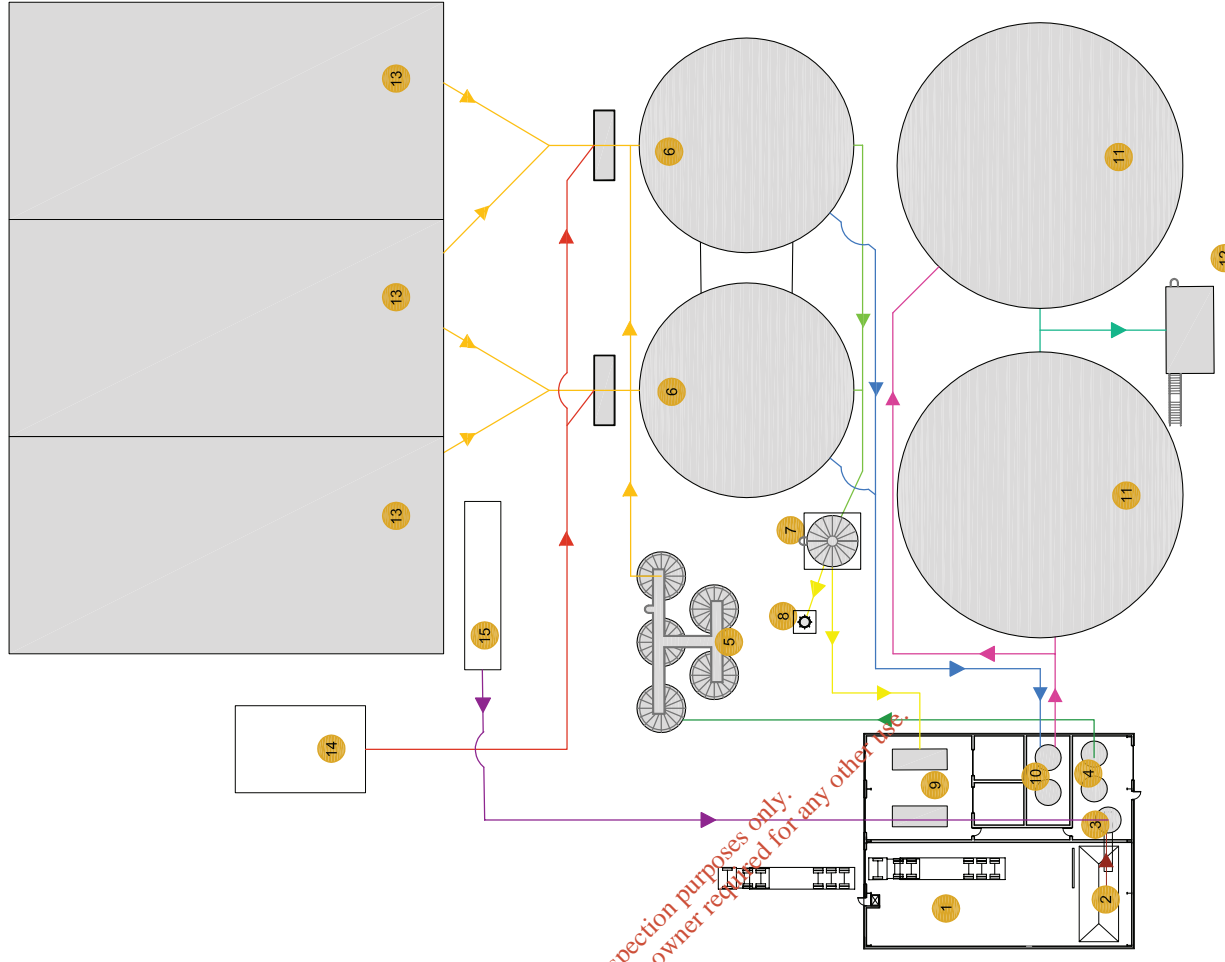
BIO ENERGY PROCESS

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

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		PROJECT TITLE: PROPOSED BIOENERGY FACILITY AT NEWDOWNS, THE DOWNS, MILLINGAR, CO. WESTMEATH CLIENT: BIO AGRIGAS LTD.
REV. INT. DESCRIPTION D1 CB ISSUED FOR PLANNING	REV. NO. 111/001/214 AMENDMENT DATE	REV. BY: D1 CHECKED BY: AS DRAWN BY: CB DATE: 02/04/2011 APPROVAL:
PROJECT NO: 111/001/214 PROJECT TITLE: PROPOSED BIOENERGY FACILITY AT NEWDOWNS, THE DOWNS, MILLINGAR, CO. WESTMEATH CLIENT: BIO AGRIGAS LTD.		