Appendix J

Planning Drawings – A4

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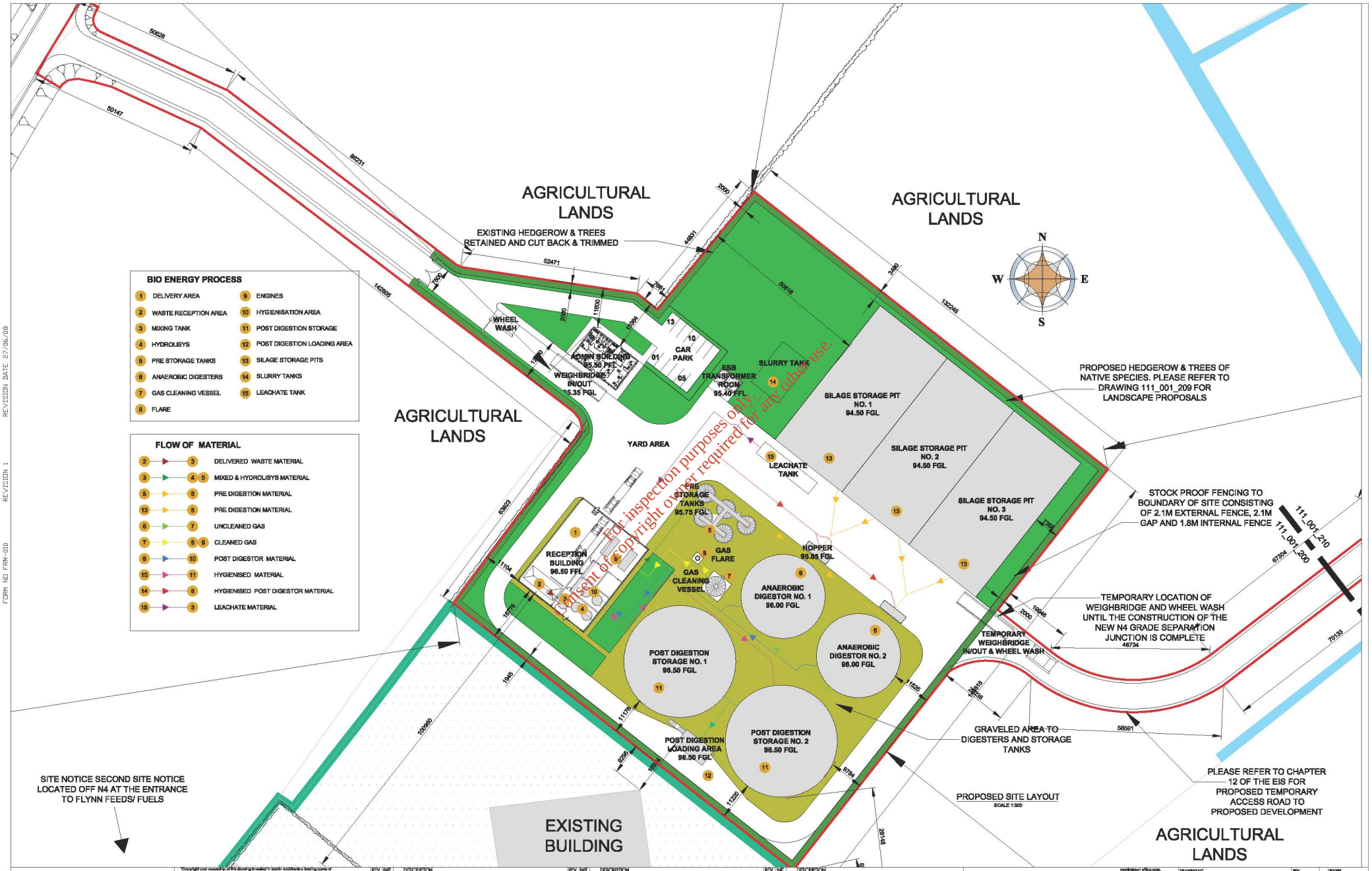

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REVISION DATE 27/06/08

REVISION 1

FORM NO FRM-010

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REV	INIT	DESCRIPTION	REV	INIT	DESCRIPTION	REV	INIT	DESCRIPTION
D1	CB	ISSUED FOR PLANNING						

IS.EN.ISO 9001:2000 Cert. no. 3324

marlin architects
DESIGN-ARCHITECTURE-PLANNING-PROJECT MANAGEMENT

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PROJECT TITLE: PROPOSED BIOENERGY FACILITY AT NEWDOWNS, THE DOWNS, MULLINGAR, CO. WESTMEATH

CLIENT: BIO AGRIGAS LTD.

DRAWING NO. 111/001/200

REV. D1

AMENDMENT DATE

PAPER SIZE A1

DRAWING TITLE: PROPOSED SITE LAYOUT
SHEET 1 OF 2

DRAWN CB

CHECKED

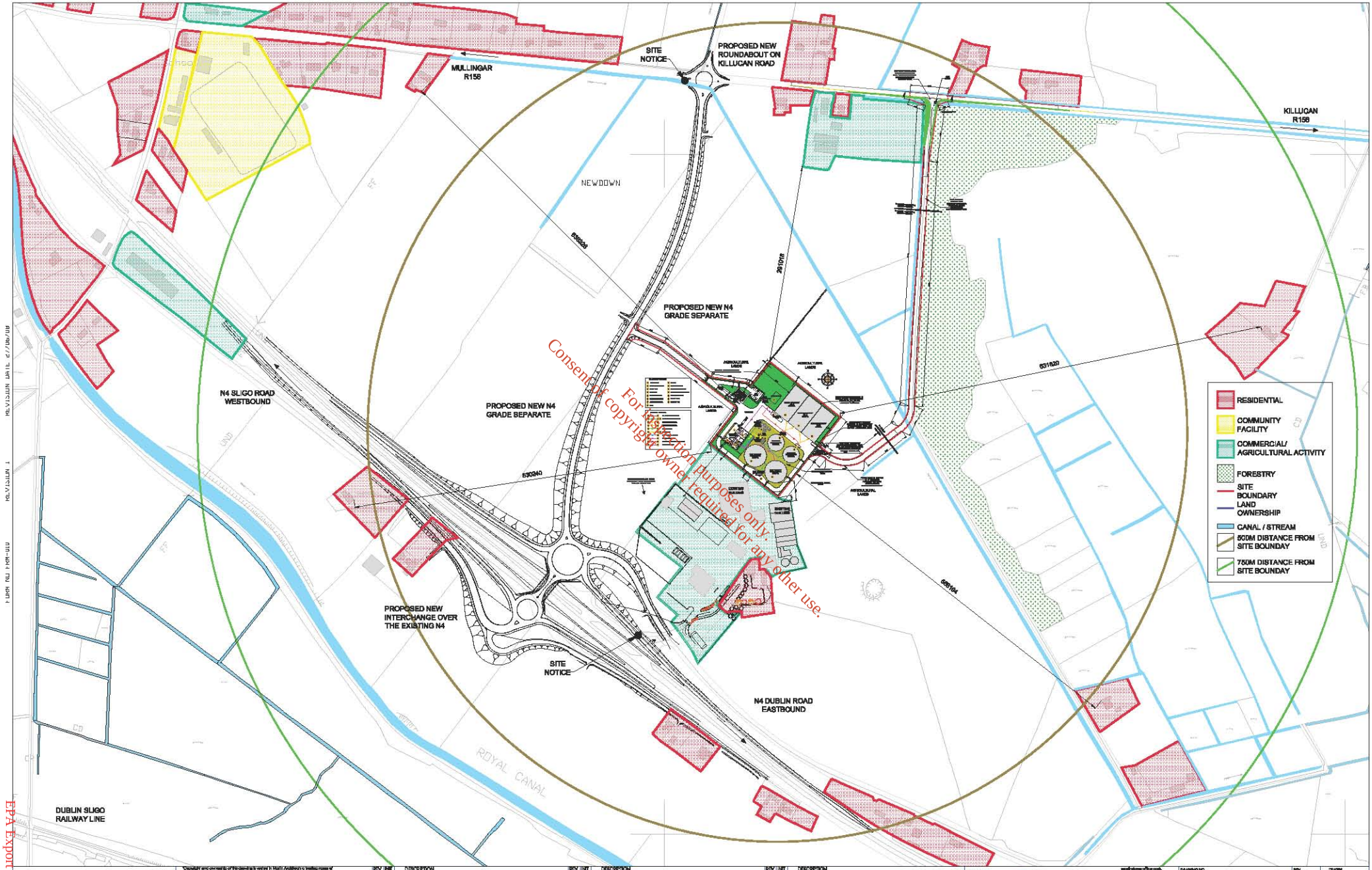
APPROVED

SCALE 1:500

DATE 02/04/2011

ISSUE PLANNING

EPA Export 01-08-2012:00:10:35



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D1	CS	ISSUED FOR PLANNING

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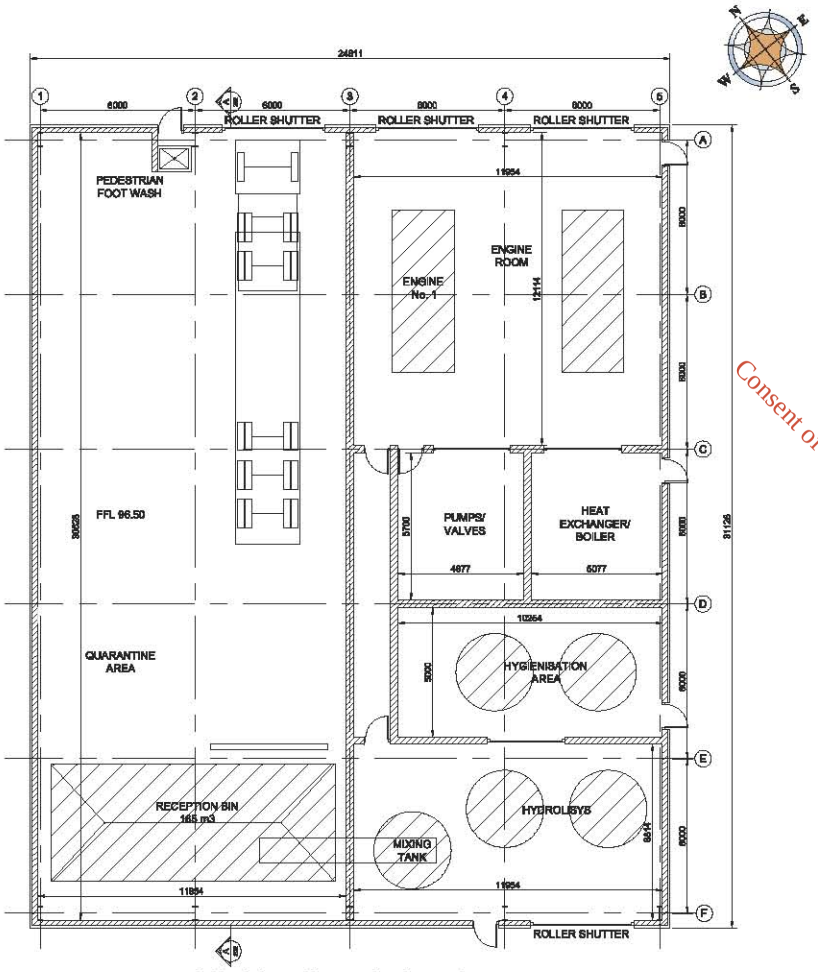
PROJECT TITLE: PROPOSED BIOENERGY FACILITY AT NEWDOWNS, THE DOWNS, MULLINGAR, CO. WESTMEATH
CLIENT: BIO AGRIGAS LTD.

DRAWING NO.: 111/001/201
REV.: D1
ASSIGNMENT/DATE:
PAPER SIZE: A1
DRAWING TITLE: SITE LOCATION MAP
DRAWN: CS
CHECKED:
APPROVAL:
SCALE: 1:2500
DATE: 02/04/2011
STATUS: PLANNING

B.S.N. ISO 9001:2000 Cert. no. 3024

EPA Export 01-08-2012:00:10:35



PROPOSED GROUND FLOOR PLAN RECEPTION BUILDING

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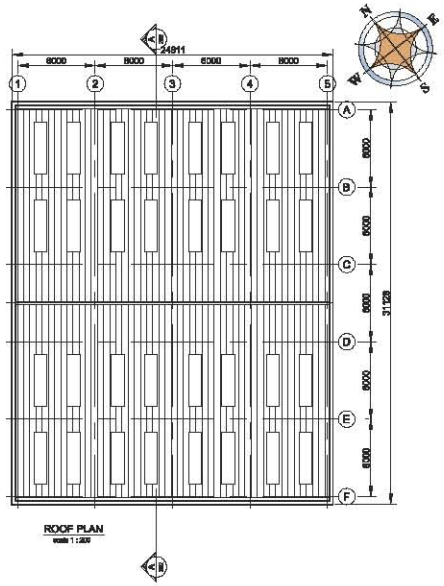

ROOF PLAN

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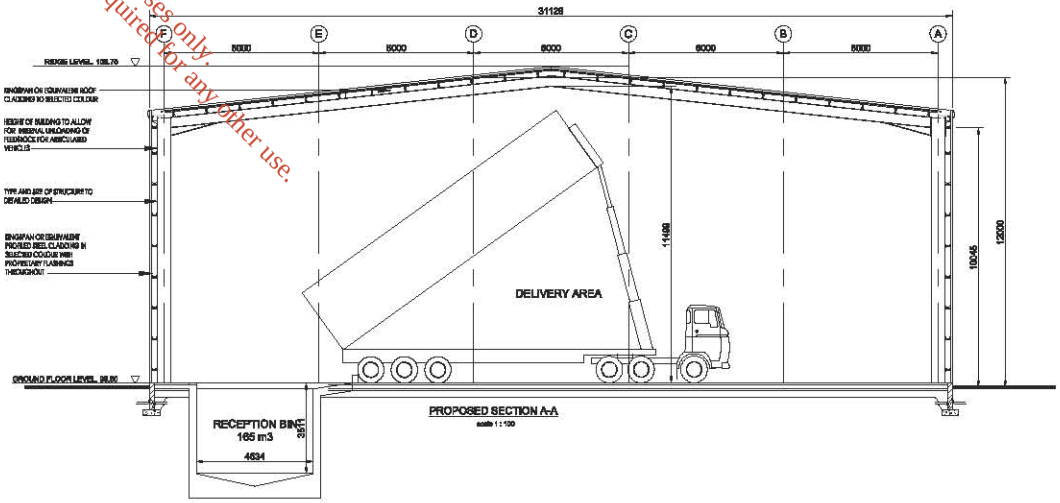

PROPOSED SECTION A-A

scale 1 : 100

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REV	INIT	DESCRIPTION
D1	CB	ISSUED FOR PLANNING

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DESIGN-MONITORING-PLANNING-PROJECT MANAGEMENT

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CLIENT: BIO AGRIGAS LTD.

DRAWING NO. 111/001/202

REV. D1

PAPER SIZE A1

DRAWN CB

CHECKED

APPRD.

DRAWING TITLE: PROPOSED FLOOR PLAN, ROOF PLAN & TYPICAL SECTION OF RECEPTION BUILDING

SCALE 1:100 & 1:200

DATE 02/04/2011

STATUS PLANNING

FORM NO FRM-010 REVISION 1 REVISION DATE 27/05/08

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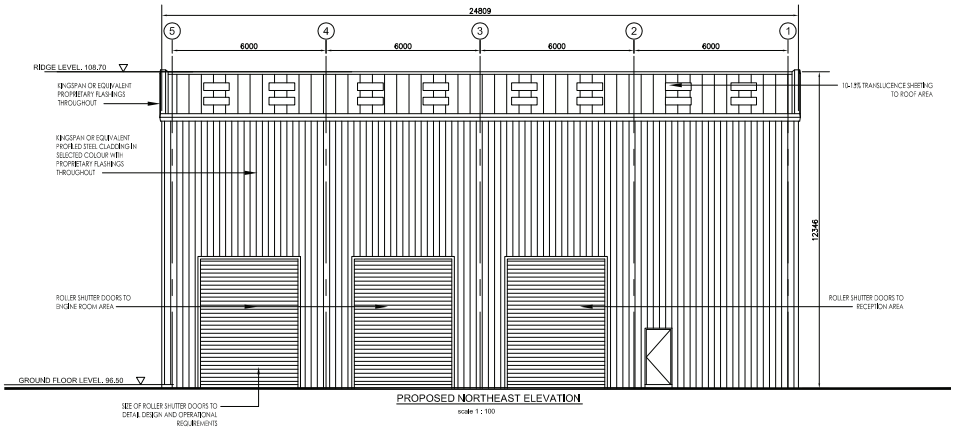

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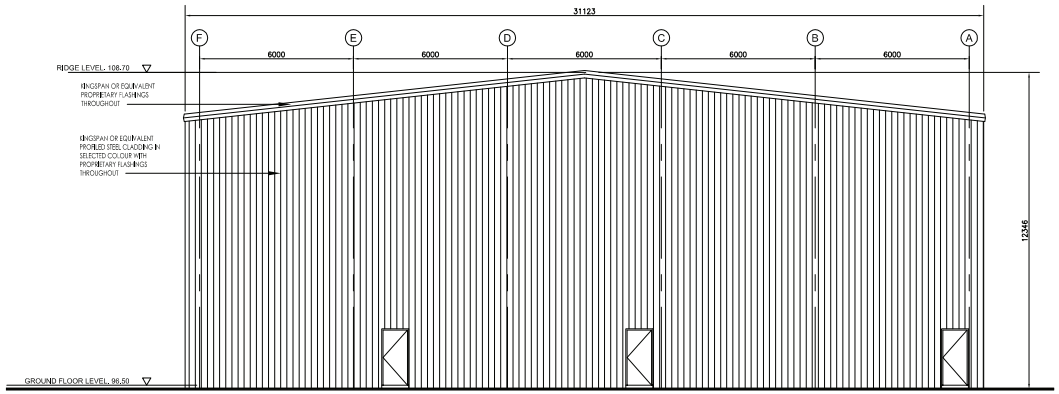

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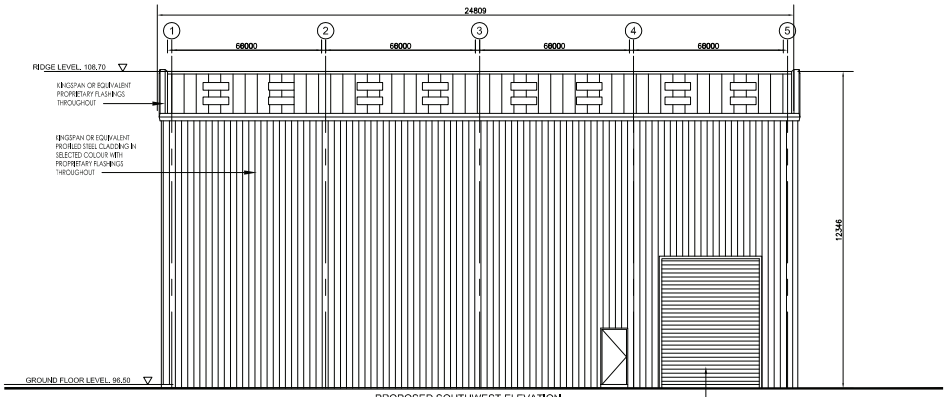

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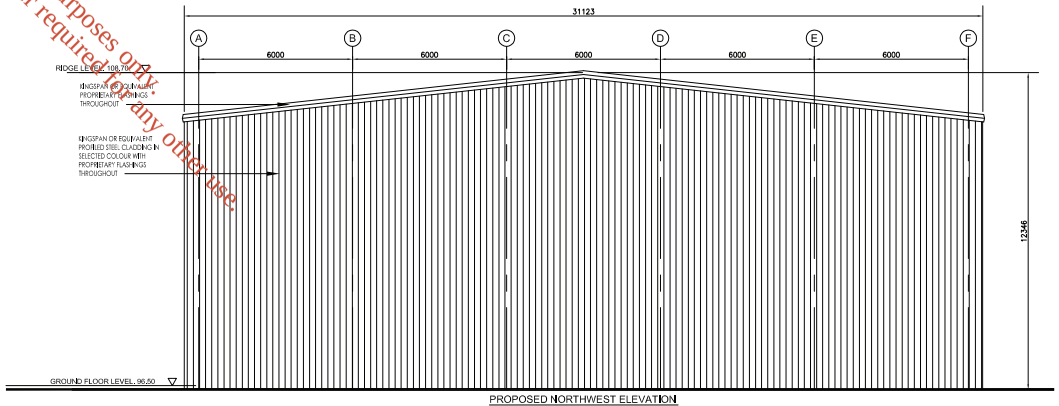

PROPOSED NORTHWEST ELEVATION

scale 1 : 100

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FORM NO FRM-010 REVISION 1 REVISION DATE 27/06/08

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REV	INIT	DESCRIPTION
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REV	INIT	DESCRIPTION	REV	INIT	DESCRIPTION	REV	INIT	DESCRIPTION

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PROJECT TITLE: PROPOSED BIOENERGY FACILITY AT NEWDOWNS, THE DOWNS, MULLINGAR, CO. WESTMEATH

CLIENT: BIO AGRIGAS LTD.

DRAWING NO.: 111/001/203

REV.: D1

AMENDMENT DATE:

PAPER SIZE: A1

DRAWN: CB

CHECKED:

APPR'D:

DRAWING TITLE: PROPOSED ELEVATIONS OF RECEPTION BUILDING

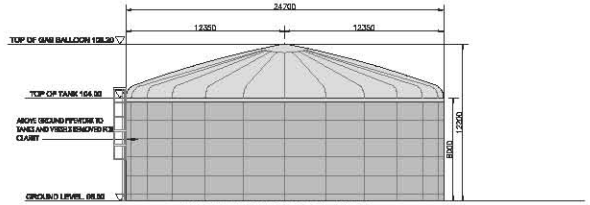
SCALE: 1:100

DATE: 02/04/2011

STATUS: PLANNING

IS.EN.ISO 9001:2000 Cert. no. 3324

EPA Export 01-08-2012:00:10:35



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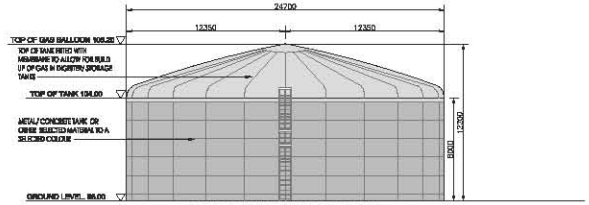

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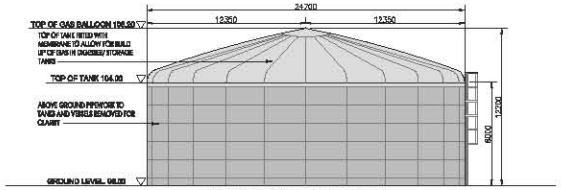

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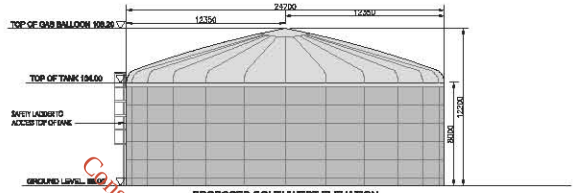

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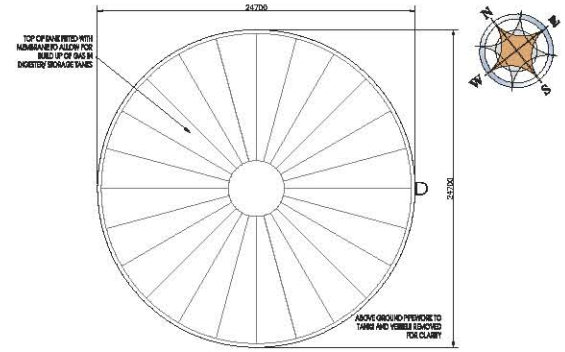

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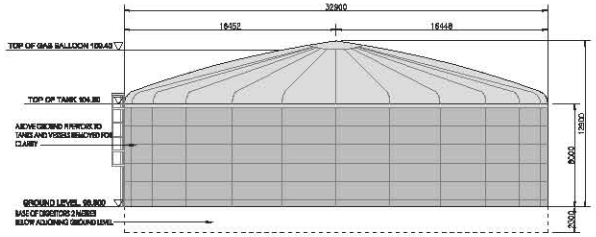

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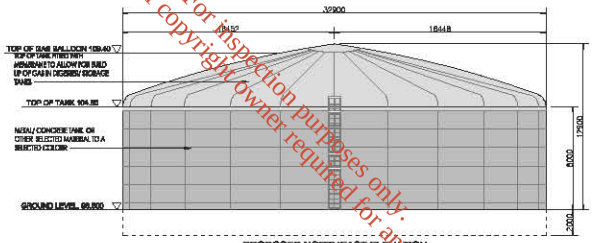

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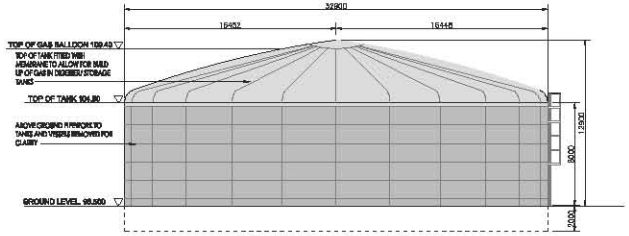

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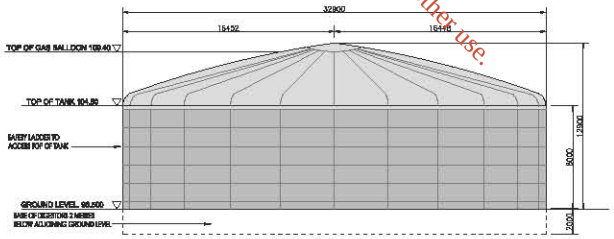

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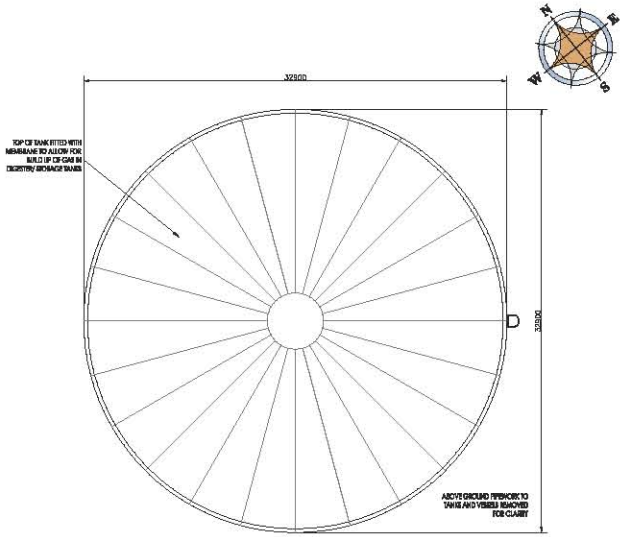

PROPOSED ANAEROBIC DIGESTERS AND POST DIGESTION STORAGE TANKS PLAN

scale 1 : 200

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D1	CB	ISSUED FOR PLANNING

REV	INIT	DESCRIPTION	REV	INIT	DESCRIPTION	REV	INIT	DESCRIPTION

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PROJECT TITLE: PROPOSED BIOENERGY FACILITY AT NEWDOWNS, THE DOWNS, MULLINGAR, CO. WESTMEATH

CLIENT: BIO AGRIGAS LTD.

DRAWING NO.: 111/0001/204 | REV.: D1

ASSIGNED BY:

PAPER SIZE: A1

DRAWING TITLE: PROPOSED PLANS AND ELEVATIONS OF ANAEROBIC DIGESTORS/ POST STORAGE TANKS

DRAWN: CB | CHECKED: | APPRV.: | SCALE: 1:200 | DATE: 02/04/2011 | STATUS: PLANNING

M.I.S.N.ISO 9001:2000 Cert. no. 3524

FORM NO FRM-010 REVISION 1 REVISION DATE 27/06/08

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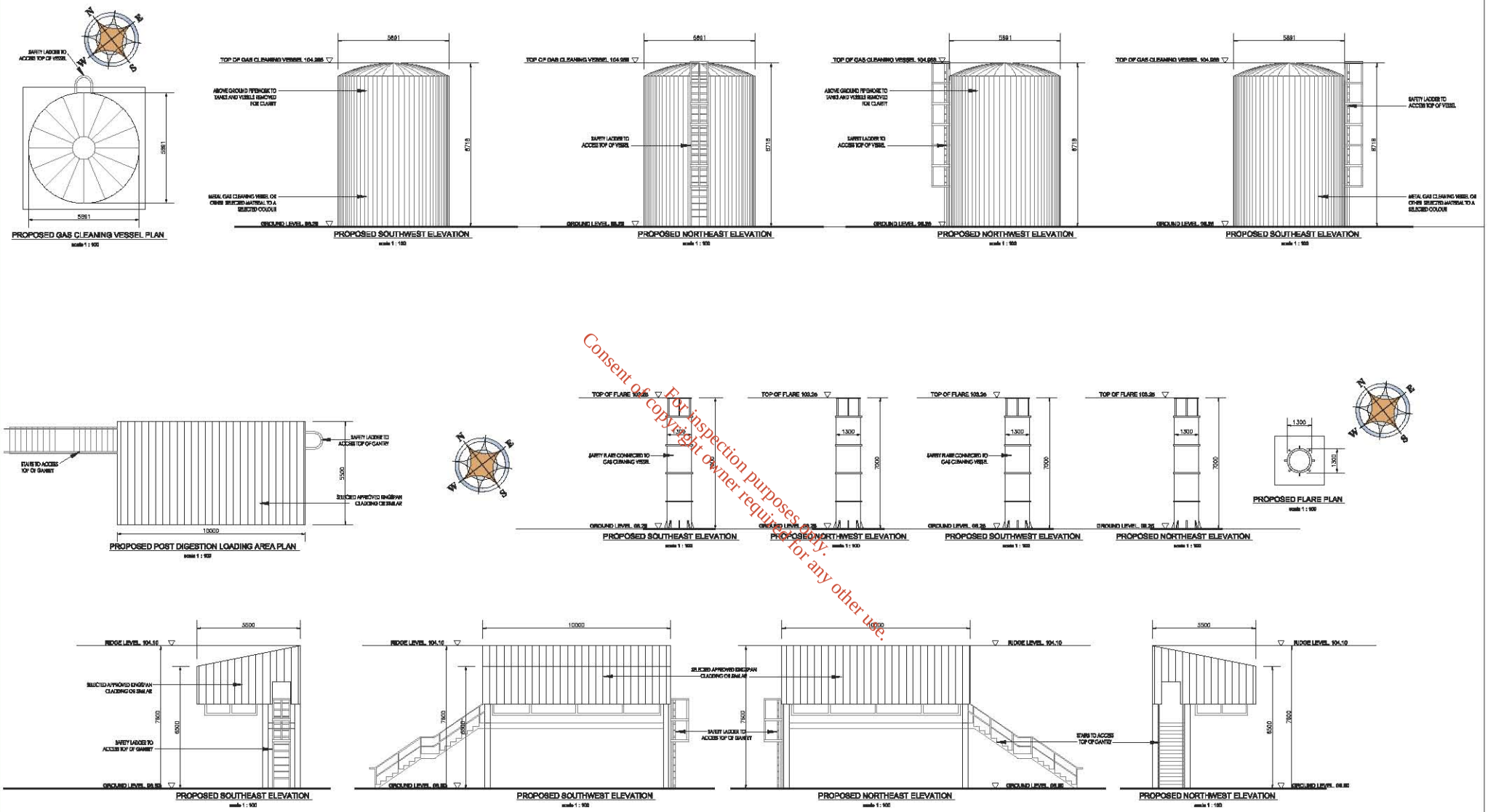

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REV	INIT	DESCRIPTION
D1	CB	ISSUED FOR PLANNING

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PROJECT TITLE: PROPOSED BIOENERGY FACILITY AT NEWDOWNS, THE DOWNS, MULLINGAR, CO. WESTMEATH

CLIENT: BIO AGRIGAS LTD.

DRAWING NO.: 111/001/205

REV.: D1

DRAWING TITLE: PROPOSED GAS CLEANING VESSEL, FLARE AND POST DIGESTION LOADING AREA

SCALE: 1:100

DATE: 02/04/2011

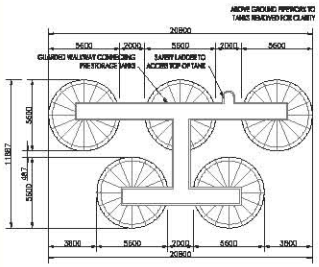
STATUS: PLANNING

DRAWN: CB

CHECKED:

APPROVED:

EPA Export 01-08-2012:00:10:35



PRE STORAGE TANKS PLAN
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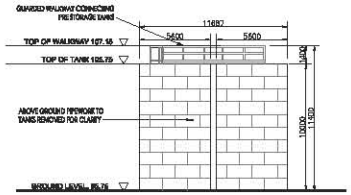

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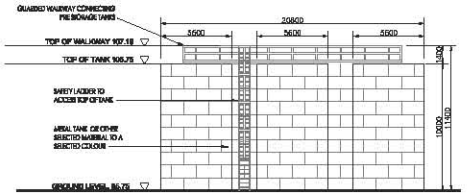

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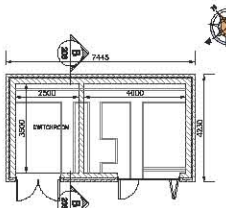

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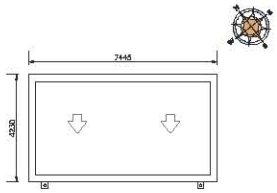

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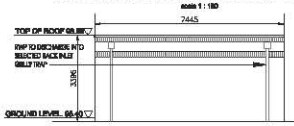

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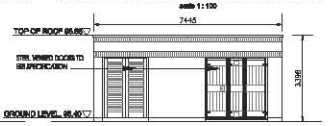

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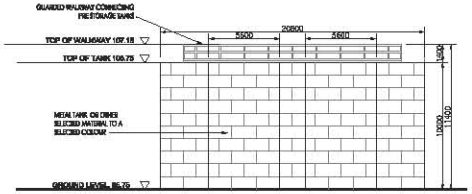

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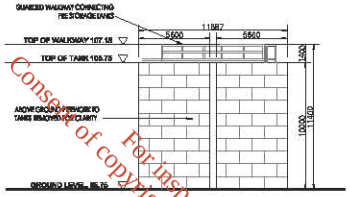

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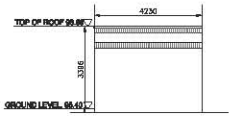

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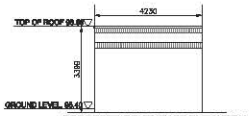

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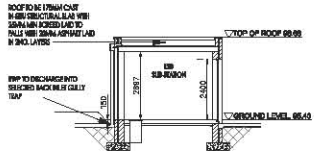

TYPICAL SECTION B-B
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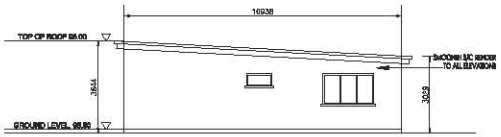

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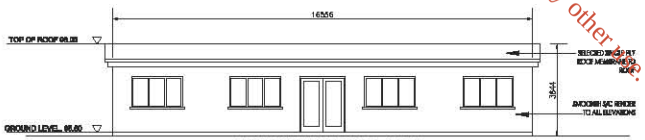

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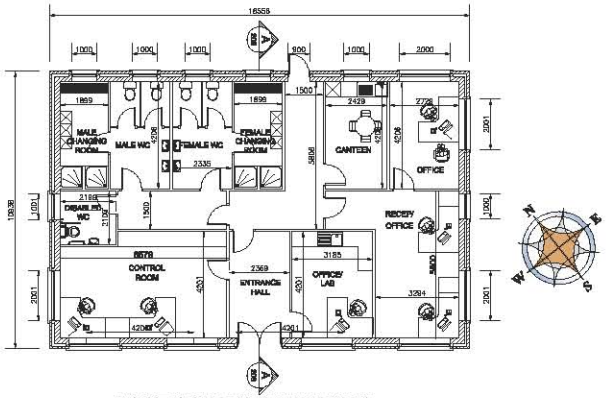
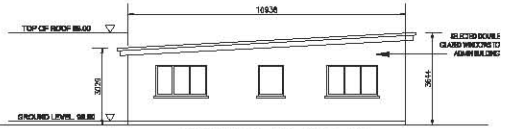
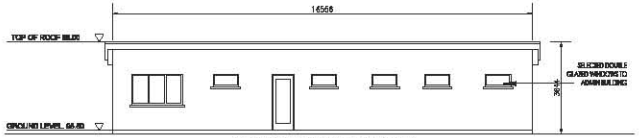


PROPOSED GROUND FLOOR PLAN ADMIN BUILDING
scale 1 : 100



PROPOSED SOUTHEAST ELEVATION
scale 1 : 100



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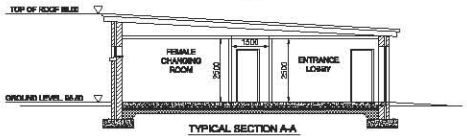

TYPICAL SECTION A-A
scale 1 : 100

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REV	INIT	DESCRIPTION
D1	CS	ISSUED FOR PLANNING

REV	INIT	DESCRIPTION	REV	INIT	DESCRIPTION	REV	INIT	DESCRIPTION

ISLEN ISO 8001:2000 Cert. no. 3334

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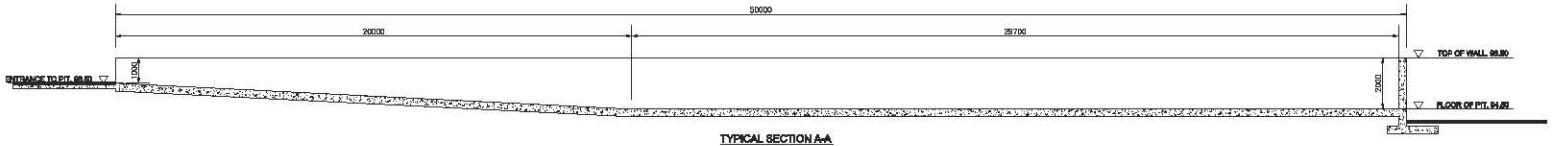
PROJECT/SITE: PROPOSED BIOENERGY FACILITY AT NEWDOWNS, THE DOWNS, MULLINGAR, CO. WESTMEATH
CLIENT: BIO AGRIGAS LTD.

DRAWING NO.: 111/001/206
REV.: D1
DRAWN: CS
CHECKED:
APPVD:
DRAWING TITLE: PROPOSED PRE STORAGE TANKS, SUBSTATION & ADMIN BUILDING
SCALE: 1:100 & 1:200
DATE: 02/04/2011
ISSUE: PLANNING

REVISION DATE 27/06/08
REVISION 1
FORM NO FRM-010

EPA Export 01-08-2012:00:10:35



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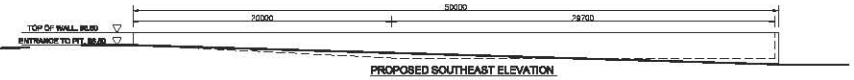

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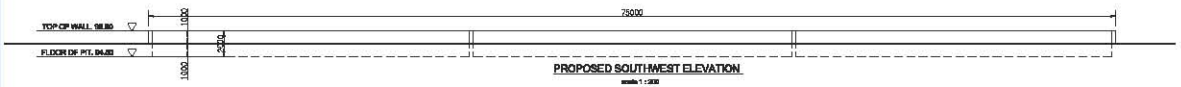

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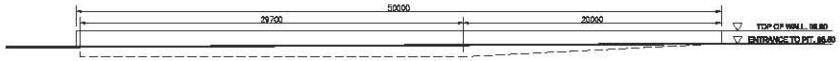

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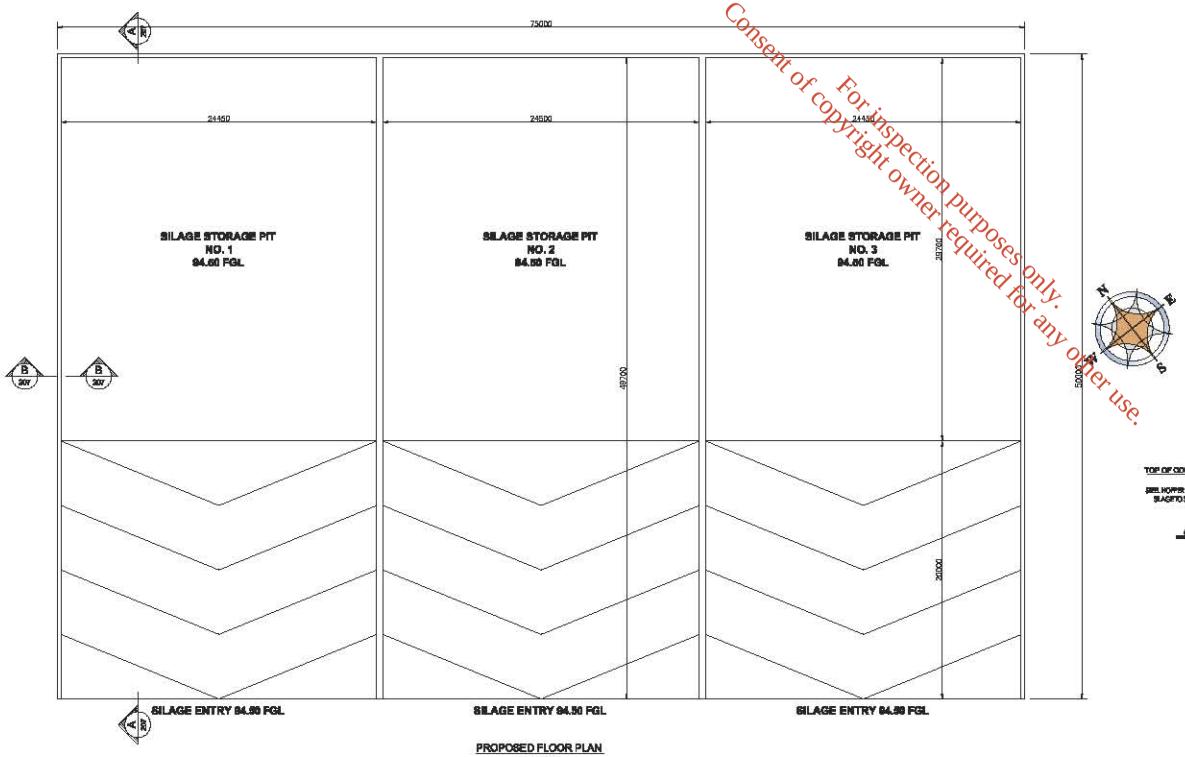
scale 1 : 200



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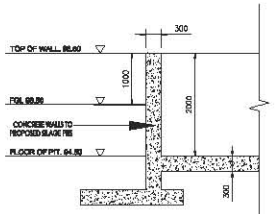

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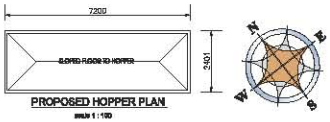

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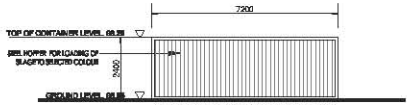
scale 1 : 100



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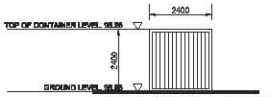
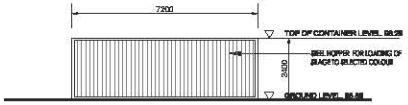


PROPOSED SOUTHEAST ELEVATION
scale 1 : 100



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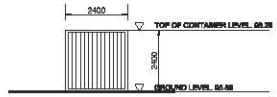
scale 1 : 100



PROPOSEDNORTHEAST ELEVATION
scale 1 : 100

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REV	INT	DESCRIPTION
D1	CB	ISSUED FOR PLANNING

REV	INT	DESCRIPTION	REV	INT	DESCRIPTION	REV	INT	DESCRIPTION

I.S.E.N.ISO 9001:2000 Cert. no. 3524

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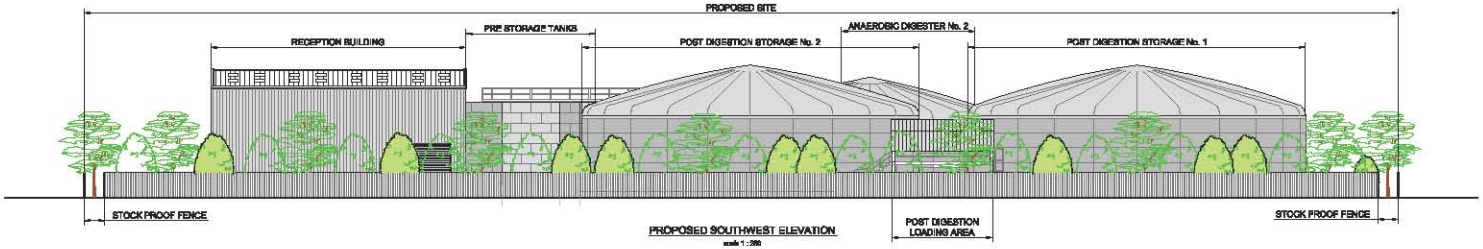
PROJECT TITLE: PROPOSED BIOENERGY FACILITY AT NEWDOWNS, THE DOWNS, MULLINGAR, CO. WESTMEATH

CLIENT: BIO AGRIGAS LTD. AND HOPPER TO DIGESTORS

DRAWING NO.: 111/001/207
REV.: D1
AMENDMENT DATE:
PAPER SIZE: A3
DRAWN: CB
CHECKED:
APPRD.:
DRAWING TITLE: PROPOSED SILAGE STORAGE PITS
SCALE: AS SHOWN
DATE: 02/04/2011
STATUS: PLANNING

EPA Export 01-09-2012:00:10:35



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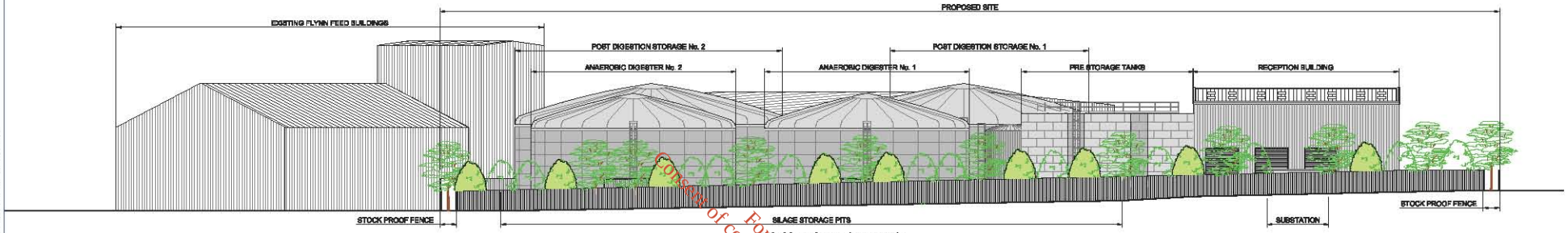
scale 1 : 250



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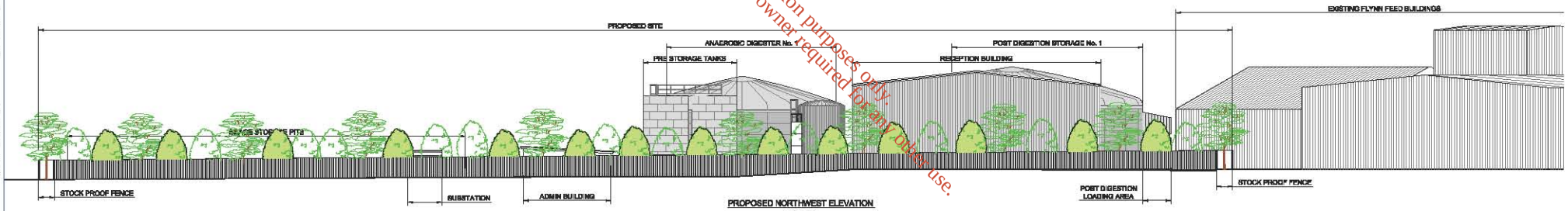
scale 1 : 250



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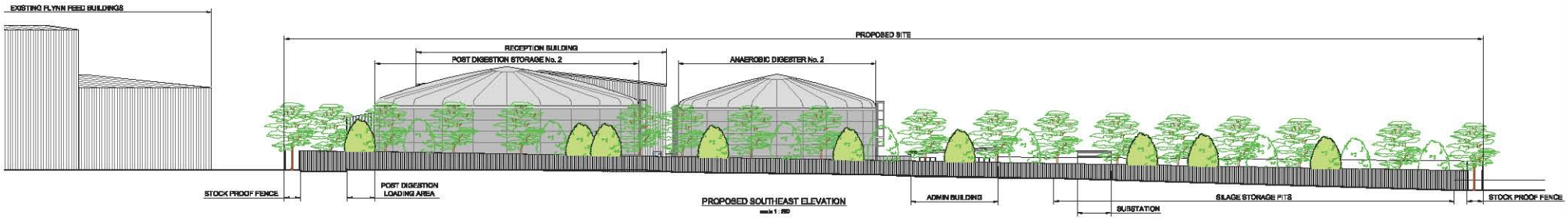
scale 1 : 250



PROPOSED SOUTHEAST ELEVATION
scale 1 : 250

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REV	INT	DESCRIPTION
01	CB	ISSUED FOR PLANNING

ISO EN ISO 9001:2000 Cert. no. 3324

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PROJECT TITLE	PROPOSED BIOENERGY FACILITY AT NEWDOWNS, THE DOWNS, MULLINGAR, CO. WESTMEATH
CLIENT	BIO AGRIGAS LTD.
DRAWING NO.	111/001/208
ARCHITECT	CB
CHECKED	
APPROVED	
DRAWING TITLE	CONTINGUOUS ELEVATIONS
SCALE	1:250
DATE	02/03/2011
STATUS	PLANNING

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FORM NO FRM-010 REVISION 1 REVISION DATE 27/06/08

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PLANTING SCHEDULE

(A) COPSES ON SITE BOUNDARY

Plants at 1.5m centres as 900 - 1200mm whips

Acer campestre (Maple)	30%
Fraxinus excelsior (Ash)	35%
Corylus avellana (Hazel)	15%
Ilex aquifolium (Holly)	20%

(B) GRASS OR GROUND COVER

Planted at 1.5m centres 900mm - 1200 mm whips [trees]
800mm plants [shrubs]

Alnus glutinosa (Alder)	40%
Betula pubescens (Birch)	40%
Salix atrocinerea (Willow)	10%
Sorbu Avium (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 eradicated. Ivy infestation to be removed from existing trees. Planting will consist of both infilling as necessary along the line of the existing hedgerows with trees and shrubs as indicated, and by widening the hedgerow to between 3 and 4m width.

All plants set in prepared pits with top soil mixed with 20 litres of moss peat and 70 g. of bone meal. Pits to be 350 wider than 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 stake, all other plants to have support cane. All plants to have rabbit protection sleeve.

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REV	INIT	DESCRIPTION
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PROJECT TITLE: PROPOSED BIOENERGY FACILITY AT NEWDOWNS, THE DOWNS, MULLINGAR, CO. WESTMEATH

CLIENT: BIO AGRIGAS LTD.

DRAWING NO.: 111/001/209

REV.: D1

AMENDMENT DATE:

PAPER SIZE: A1

DRAWING TITLE: PROPOSED SITE LANDSCAPING

DRAWN: CB

CHECKED:

APPRD.:

SCALE: 1:500

DATE: 02/04/2011

STATUS: PLANNING

IS.EN.ISO 9001:2000 Cert. no. 3324

FORM NO FRM-010 REVISION 1 REVISION DATE 27/06/08

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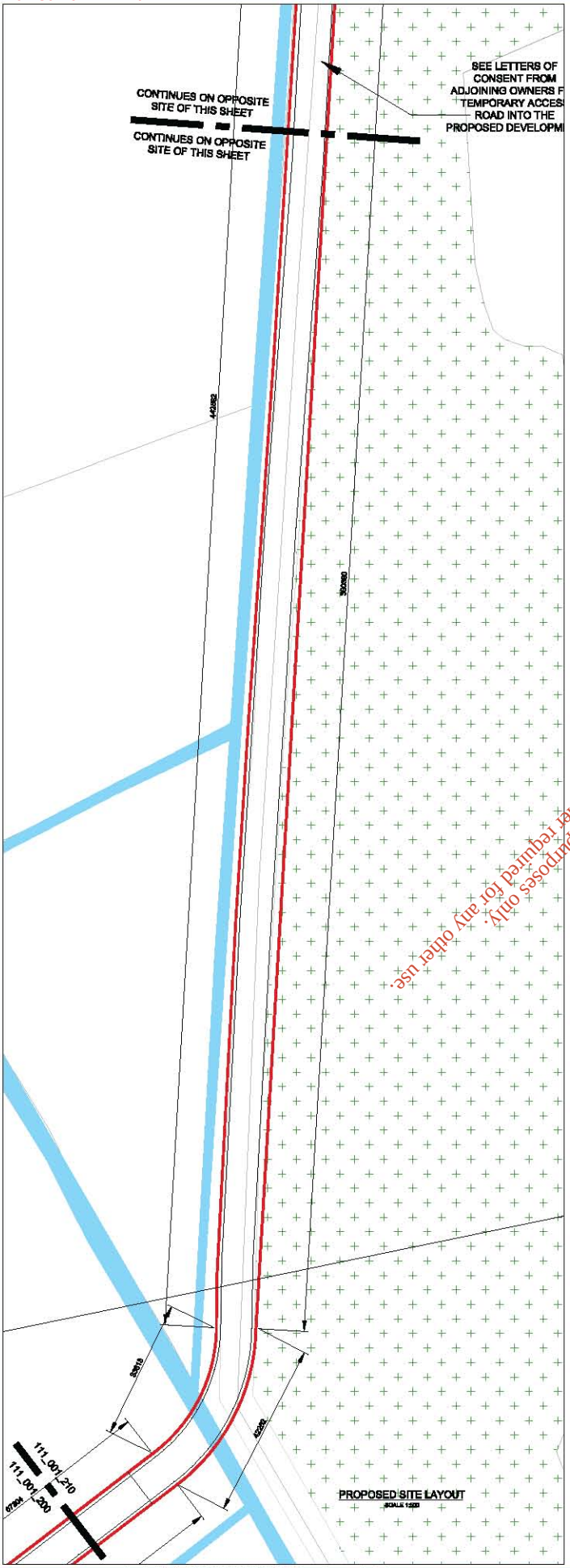

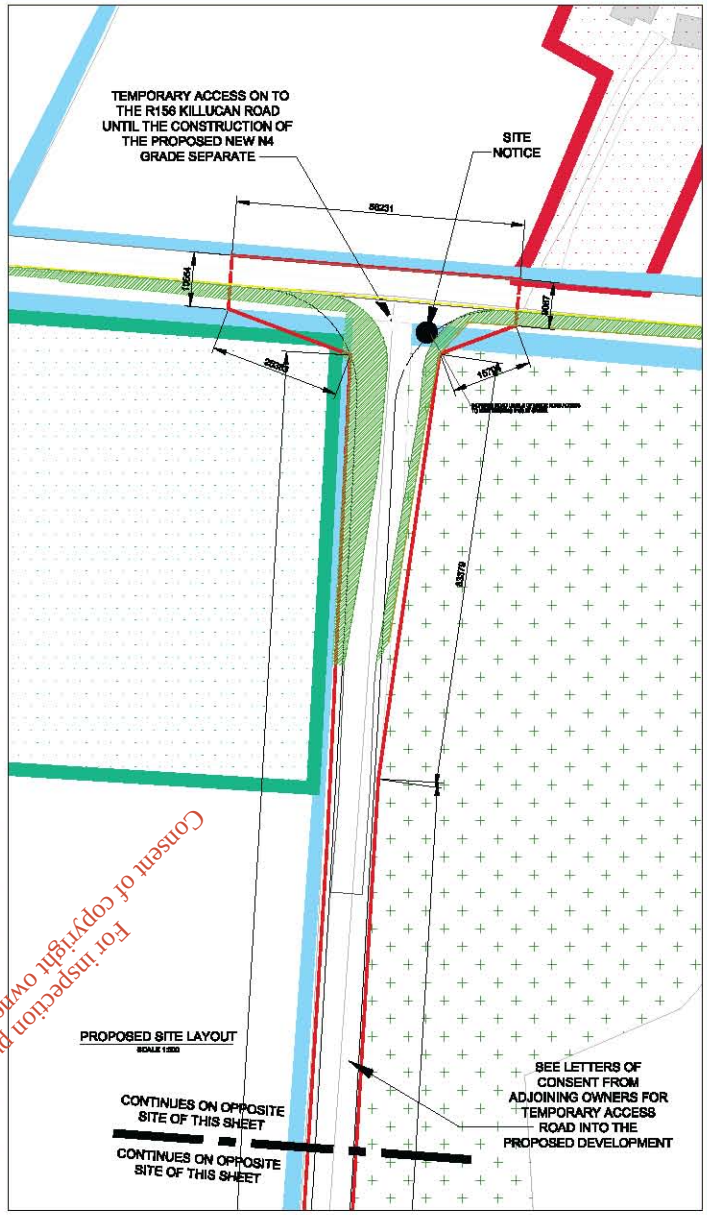

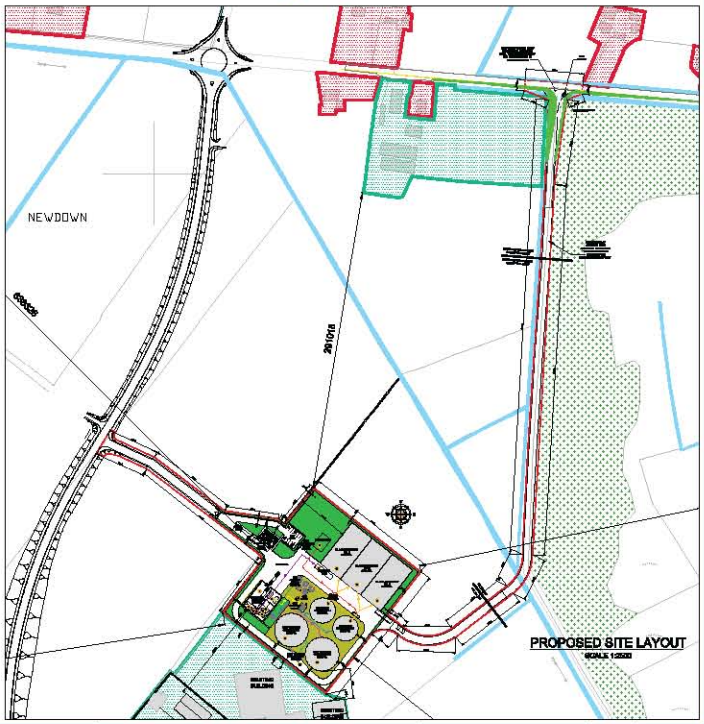

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REV	INT	DESCRIPTION
D1	CB	ISSUED FOR PLANNING

REV	INT	DESCRIPTION

REV	INT	DESCRIPTION

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

DRAWING NO.: 111/001/210
REV.: D1
DRAWN: CB
CHECKED:
APPROVED:
PAPER SIZE: A1
DRAWING TITLE: PROPOSED SITE LAYOUT
SHEET 2 OF 2
SCALE: 1:500 & 1:2500
DATE: 02/04/2011
STATUS: PLANNING

FORM NO F-RM-010 REVISION 1 REVISION DATE 25/05/05

FEEDSTOCK SEASON- SPRING

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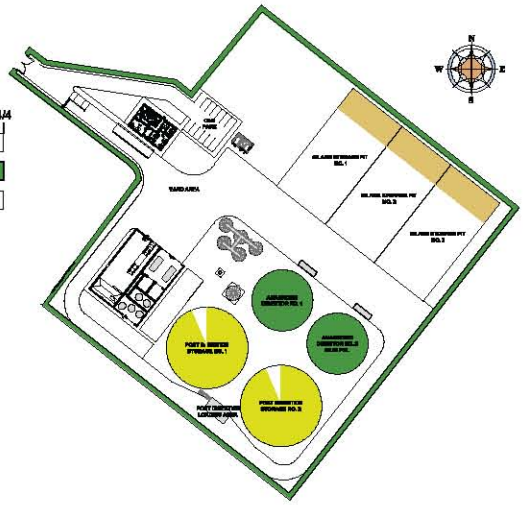
1) SILAGE PITS

2) DIGESTORS

3) POST DIGESTION STORAGE



FEEDSTOCK SEASON- SUMMER

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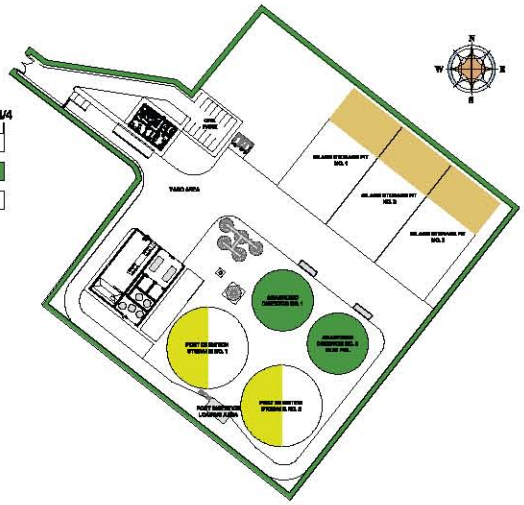
2) DIGESTORS

3) POST DIGESTION STORAGE



FEEDSTOCK SEASON- AUTUMN

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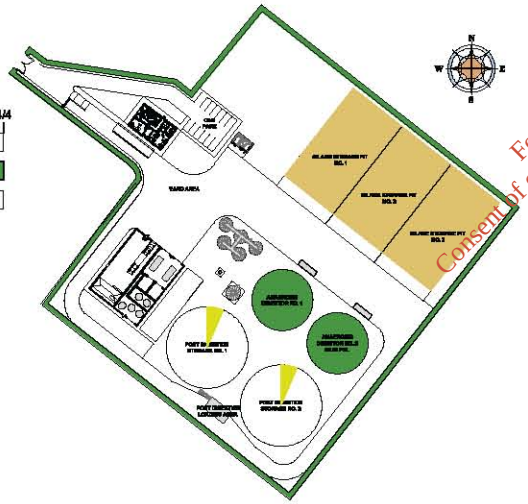
3) POST DIGESTION STORAGE



FEEDSTOCK SEASON- WINTER

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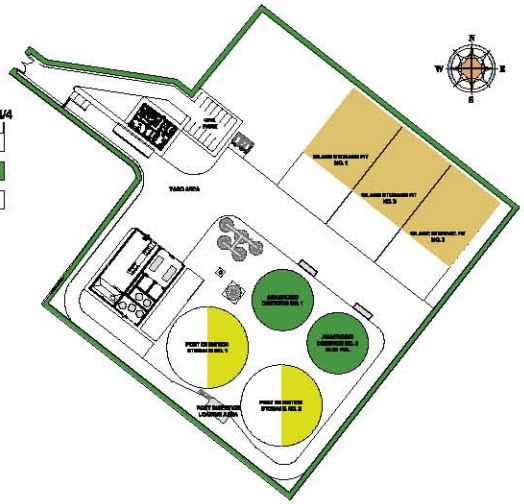
2) DIGESTORS

3) POST DIGESTION STORAGE



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REV	INIT	DESCRIPTION
D1	CB	ISSUED FOR PLANNING

REV	INIT	DESCRIPTION

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PROJECT TITLE: PROPOSED BIOENERGY FACILITY AT NEWDOWNS, THE DOWNS, MULLINGAR, CO. WESTMEATH

CLIENT: BIO AGRIGAS LTD.

DRAWING NO. 111/001/211

REV. D1

AMENDMENT DATE

PAPER SIZE A3

DRAWING TITLE: PROPOSED FEEDSTOCK SEASONS

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SCALE NTS

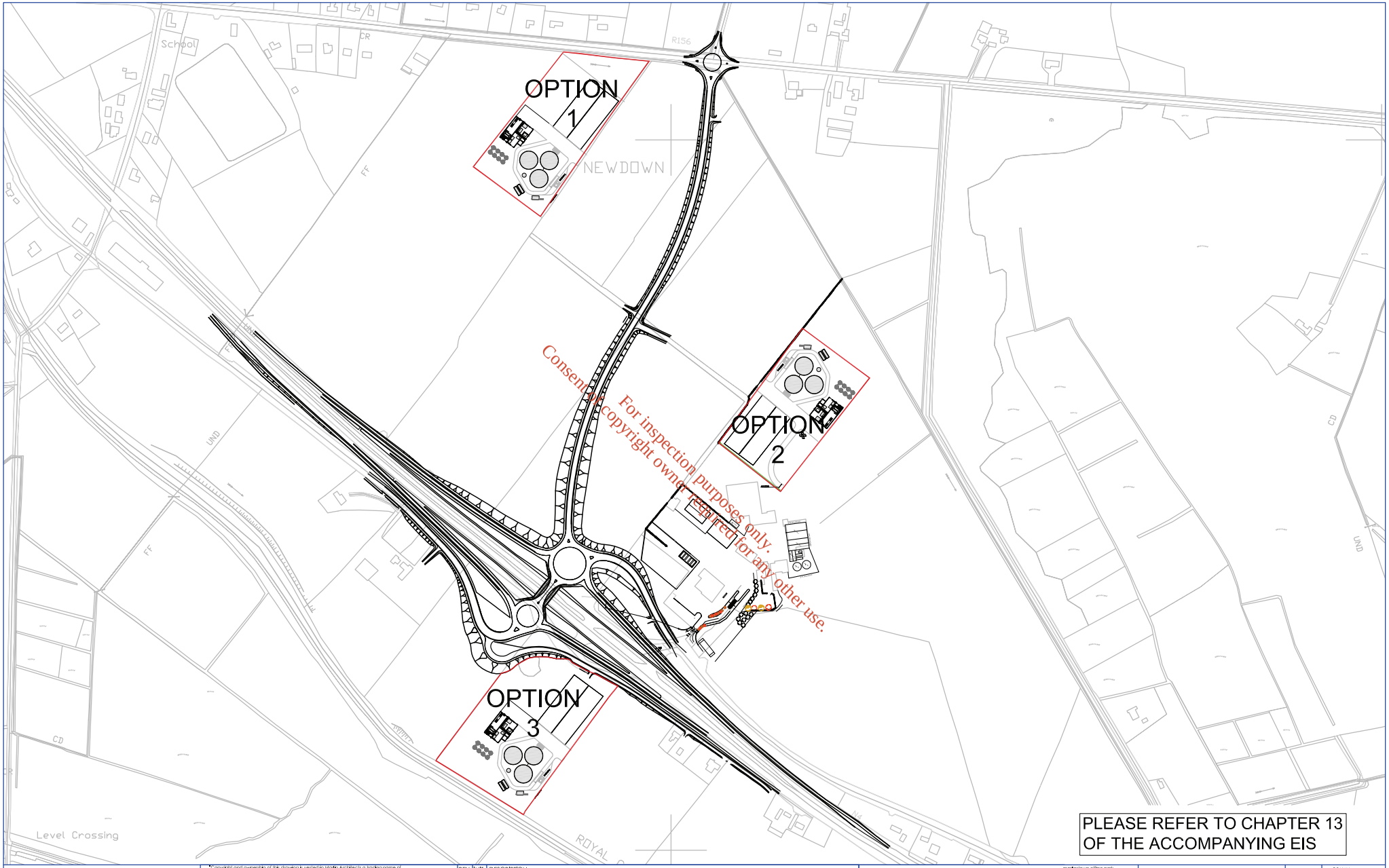
DATE 02/04/2011

STATUS PLANNING

IS.EN.ISO 9001:2000 Cert. no. 3324

FORM NO FRM-010 REVISION 1 REVISION DATE 27/06/08

EPA Export 01-08-2012:00:10:36



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REV	INIT	DESCRIPTION
D1	CB	ISSUED FOR PLANNING

REV	INIT	DESCRIPTION	REV	INIT	DESCRIPTION

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PROJECT TITLE: PROPOSED BIOENERGY FACILITY AT NEWDOWNS, THE DOWNS, MULLINGAR, CO. WESTMEATH

CLIENT: BIO AGRIGAS LTD.

DRAWING NO.: 111/001/212

REV.: D1

AMENDMENT DATE

PAPER SIZE: A3

DRAWING TITLE: ALTERNATIVE SITES

DRAWN: CB

CHECKED

APPRD.

SCALE: NTS

DATE: 02/04/2011

STATUS: PLANNING

IS.EN.ISO 9001:2000 Cert. no. 3324

REVISION DATE 27/06/08

REVISION 1

FORM NO FRM-010

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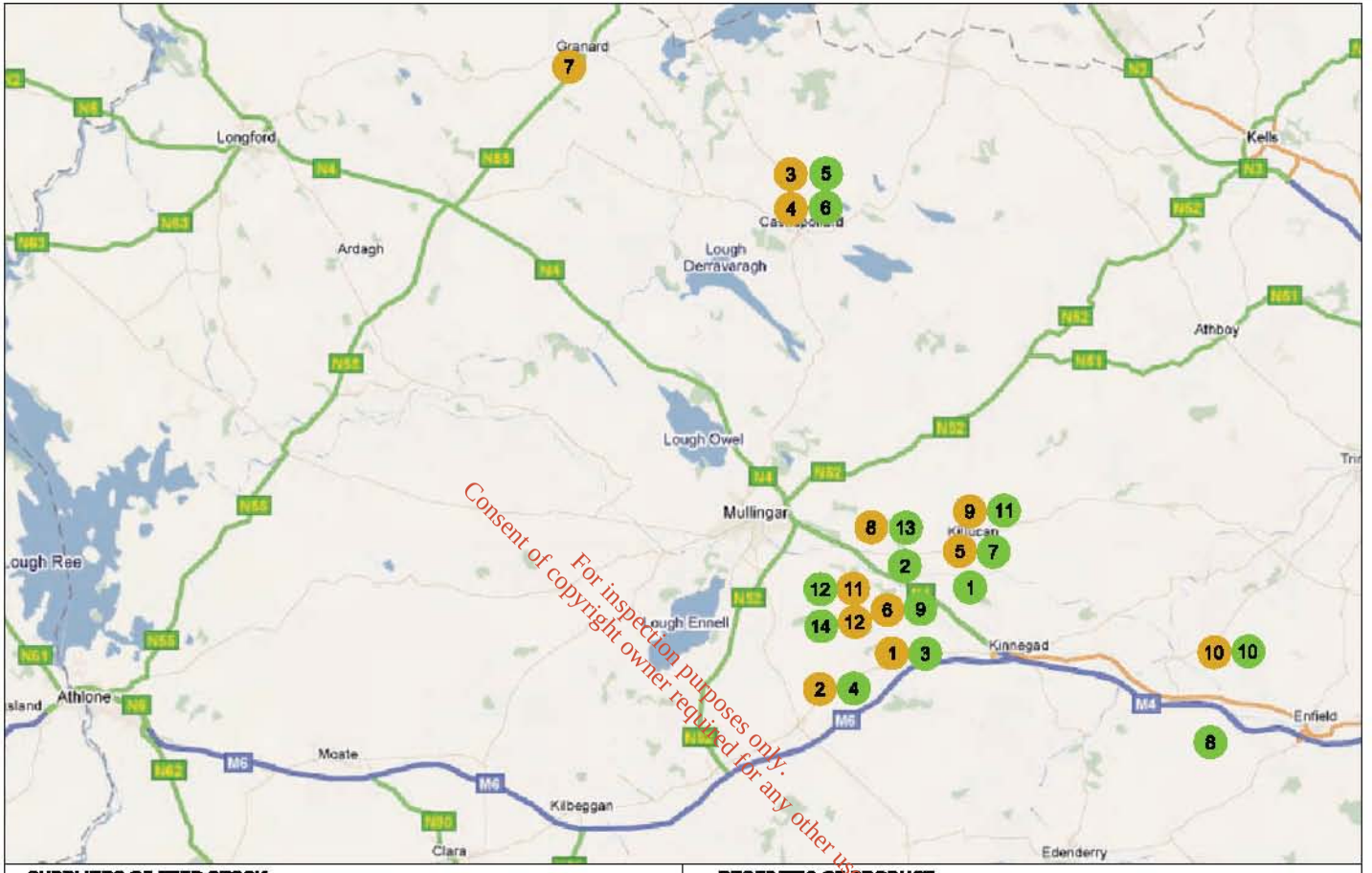

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1. PATRICK A DARDIS- CLONFAD, KINNEGAD
2. LEO WRIGHT- GORTUAMON MILLTOWNPASS
3. MICHAEL FAY- FREIGHMORE, CASTLEPOLLARD
4. WILLIAM FAY- FREIGHMORE, CASTLEPOLLARD
5. PAT LYNAM- PORTERSTOWN, KILLUCAN
6. JOHN FLYNN- LOWTOWN, CORALSTOWN
7. BAKERY WASTE
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

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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

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REV	INIT	DESCRIPTION
D1	CB	ISSUED FOR PLANNING

REV	INIT	DESCRIPTION

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PROJECT TITLE: PROPOSED BIOENERGY FACILITY AT NEWDOWNS, THE DOWNS, MULLINGAR, CO. WESTMEATH

CLIENT: BIO AGRIGAS LTD.

DRAWING NO.: 111/001/213

REV.: D1

ANNOTATION DATE:

PAPER SIZE: A3

DRAWING TITLE: FEEDSTOCK SUPPLIER/ PRODUCT RECEIVER

DRAWN: CB

CHECKED:

APPRD.:

SCALE: NTS

DATE: 02/04/2011

STATUS: PLANNING

IS.EN.ISO 9001:2000 Cert. no. 3324

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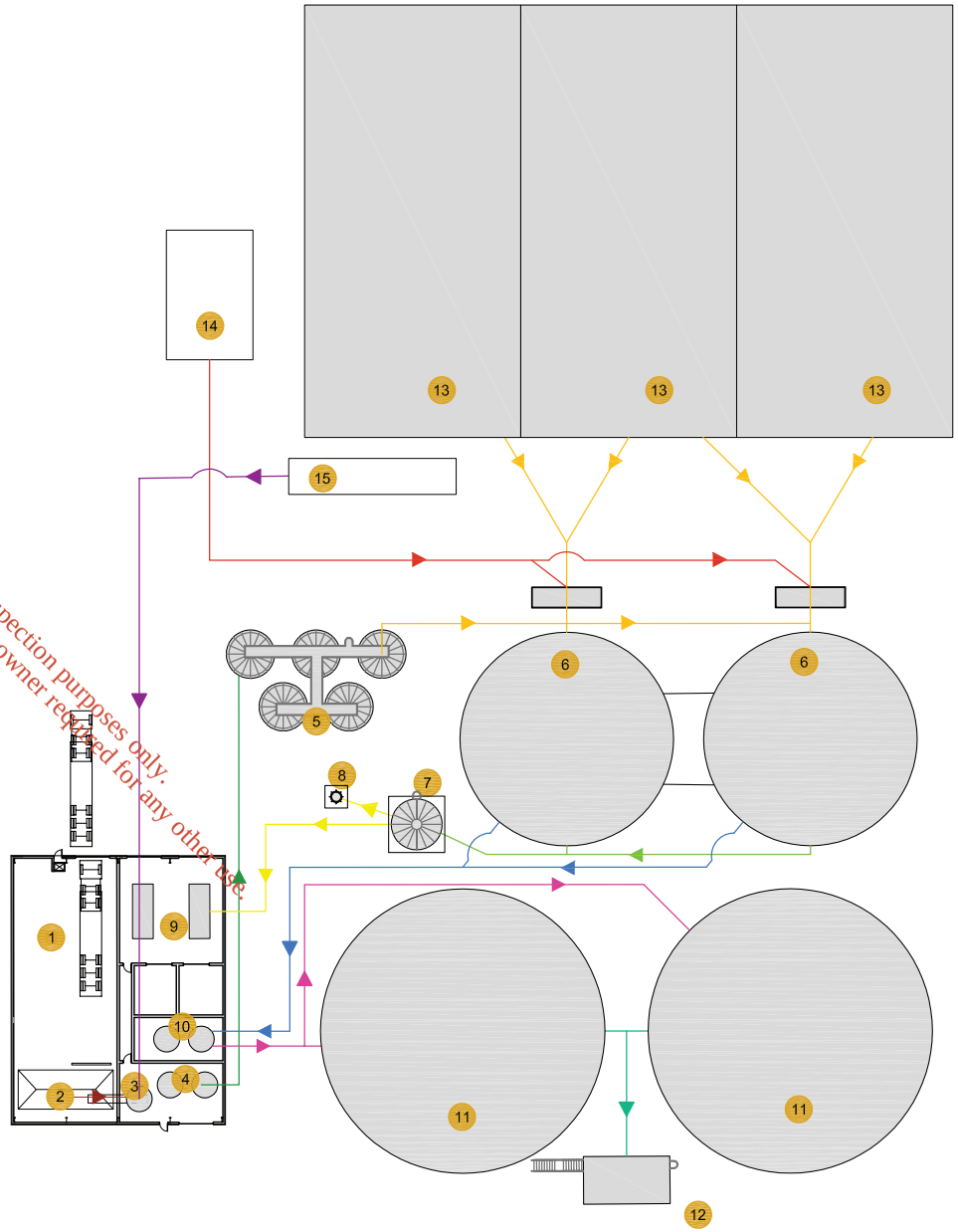
BIO ENERGY PROCESS

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

FLOW OF MATERIAL

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



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REV	INIT	DESCRIPTION
D1	CB	ISSUED FOR PLANNING

REV	INIT	DESCRIPTION

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DRAWING NO.: 111/001/214

REV.: D1

AMENDMENT DATE:

PAPER SIZE: A3

DRAWING TITLE: PROPOSED PROCESS MAP

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CHECKED:

APPRO.:

SCALE: NTS

DATE: 02/04/2011

STATUS: PLANNING

IS.EN.ISO 9001:2000 Cert. no. 3324

FORM NO FRM-010 REVISION 1 REVISION DATE 27/06/08

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