

DUBLIN WASTE TO ENERGY PROJECT



www.DUBLINWASTETOENERGY.IE

Response to An Bord Pleanála Request for Clarification Reference EF2022

November 2006

**Waste to Energy Facility at Pigeon House Road, Poolbeg Peninsula, Dublin 4.
An Bord Pleanála Reference 29S.EF2022**

November 2006

Following An Bord Pleanála's request for clarification (dated 20th October 2006), please find below details of relevant information presented in response to the above referenced correspondence.

...submit copies of plans and drawings of the proposed development drawn to a specified scale. Notation on the plans should be legible and the drawings should be on an A1 format or larger (3 copies of all drawings should be provided).

3 No. copies of all plans and drawings of the proposed development have been presented in Appendix 1 of this document. The attached plans and drawings have been drawn to specified scales and are presented on an A1 format.

In addition the Board notes the photographs used in the visual assessment section of the environmental impact statement (Chapter 6 and Appendix 6.1). In respect of same can you confirm the focal length of the camera used in the preparation of these photographs (it is noted that it is stated to be 50 mm in Appendix 6.1). Furthermore the Board hereby requires you under section 175(5)(a) of the Planning and Development Act, 2000 to submit to it the following further photographic information in relation to the effects on the environment of the proposed development:-

Photographs indicating the existing situation and photomontages indicating the views with the development in place should be prepared and submitted for viewpoints 7, 17, 18, 28, 29, 32, 33 and 36 (as indicated in Appendix 6.1) using a focal length of 70mm.

The focal length of the camera used in the preparation of the photographs presented in Chapter 6 and Appendix 6.1 is 50mm.

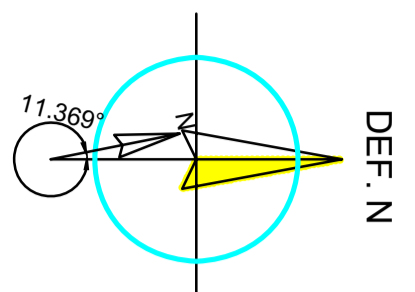
Photographs indicating the existing situation and photomontages indication the views with the development in place should be prepared and submitted for viewpoints 7, 17, 18, 28, 29, 32, 33 and 36 (as indicated in Appendix 6.1) using a focal length of 70mm are presented in Appendix 2 of this document.

APPENDIX 1

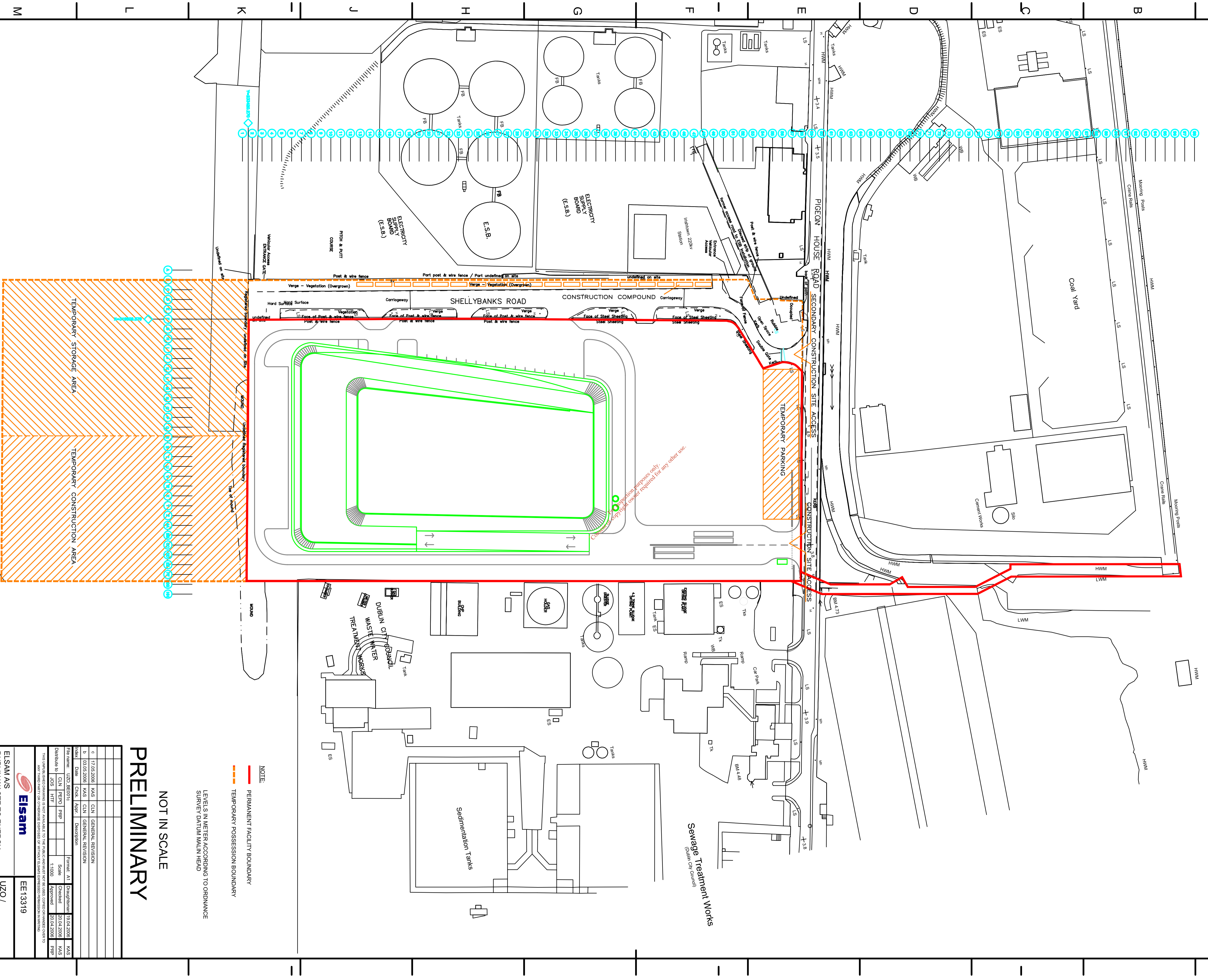
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				ELSAM A/S									
				DUBLIN WASTE TO ENERGY									
				DRAWING LIST						PROJ. NO. 13319			
PREPARED BY	KAS			REVISION DATE:	14.06.2006	PRINTED DATE	14.06.2006						
DRAWING NO.	REV.	TYPE	DRAWING DESCRIPTION	REVISION DATE:	CHECK	APPR.							
UZO/BE001	c	LAYOUT	CONSTRUCTION SITE	17.05.2006	KAS	CLN							
UZE/BE002	f	LAYOUT	DEFINITION OF SITES	19.05.2006	KAS	CLN							
UZE/BE003	c	LAYOUT	COOLING WATER LAYOUT PLAN	19.05.2006	KAS	CLN							
UZE/BE005	d	LAYOUT	SITE VIEW	19.05.2006	KAS	CLN							
UZE/BE007	c	LAYOUT	SUB SURFACE SERVICES	19.05.2006	KAS	CLN							
UZE/BE008	d	LAYOUT	MONITORING & EMISSION POINTS	19.05.2006	KAS	CLN							
UZE/BE040	a	LAYOUT	DRAINAGE AND SEWAGE PLAN	30.05.2006	KAS	CLN							
UZE/BE041	a	LAYOUT	INLET COOLING WATER ELEVATIONS I	27.04.2006	CRP	CRP							
UZE/BE042	a	LAYOUT	OUTLET COOLING WATER ELEVATIONS II	27.04.2006	CRP	CRP							
UZE/BE101	d	LAYOUT	ELEVATIONS AND DISTANCES	19.05.2006	KAS	CLN							
UZE/BH002	d	LAYOUT	ELEVATION EAST	22.05.2006	KAS	CLN							
UZE/BH003	a	LAYOUT	ELEVATION WEST	19.05.2006	KAS	CLN							
UZE/BH004	a	LAYOUT	ELEVATION NORTH	19.05.2006	KAS	CLN							
UZE/BH005	a	LAYOUT	ELEVATION SOUTH	22.05.2006	KAS	CLN							
U/BF001	a	ARCHITECTURAL PROPOSAL	SITE VIEW	26.05.2006	KAS	CLN							
U/BF002	a	ARCHITECTURAL PROPOSAL	PLAN VIEW	26.05.2006	KAS	CLN							
U/BF003	a	ARCHITECTURAL PROPOSAL	CROSS SECTION A-A B-B C-C D-D	26.05.2006	KAS	CLN							
U/BF004	a	ARCHITECTURAL PROPOSAL	CROSS SECTION A-A B-B C-C D-D	26.05.2006	KAS	CLN							
U/BF005	a	ARCHITECTURAL PROPOSAL	SERVICE BUILDING PLANS	26.05.2006	KAS	CLN							
U/BF006	a	ARCHITECTURAL PROPOSAL	SERVICE BUILDING PLANS	26.05.2006	KAS	CLN							
U/BF007	a	ARCHITECTURAL PROPOSAL	SERVICE BUILDING PLANS	26.05.2006	KAS	CLN							
GD/MQ001	d	PID	WATER FLOW DIAGRAM	07.06.2006	KAS	CLN							

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1 2 3 4 5 6 7 8



NOTE:
 — PERMANENT FACILITY BOUNDARY
 - - - TEMPORARY POSSESSION BOUNDARY

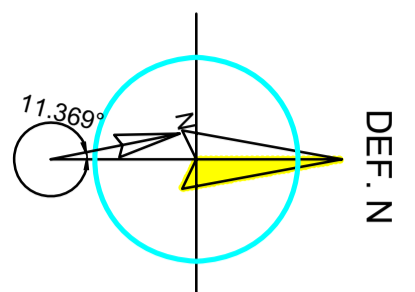
LEVELS IN METERS ACCORDING TO ORDNANCE SURVEY DATUM (MALIN HEAD)

NOT IN SCALE

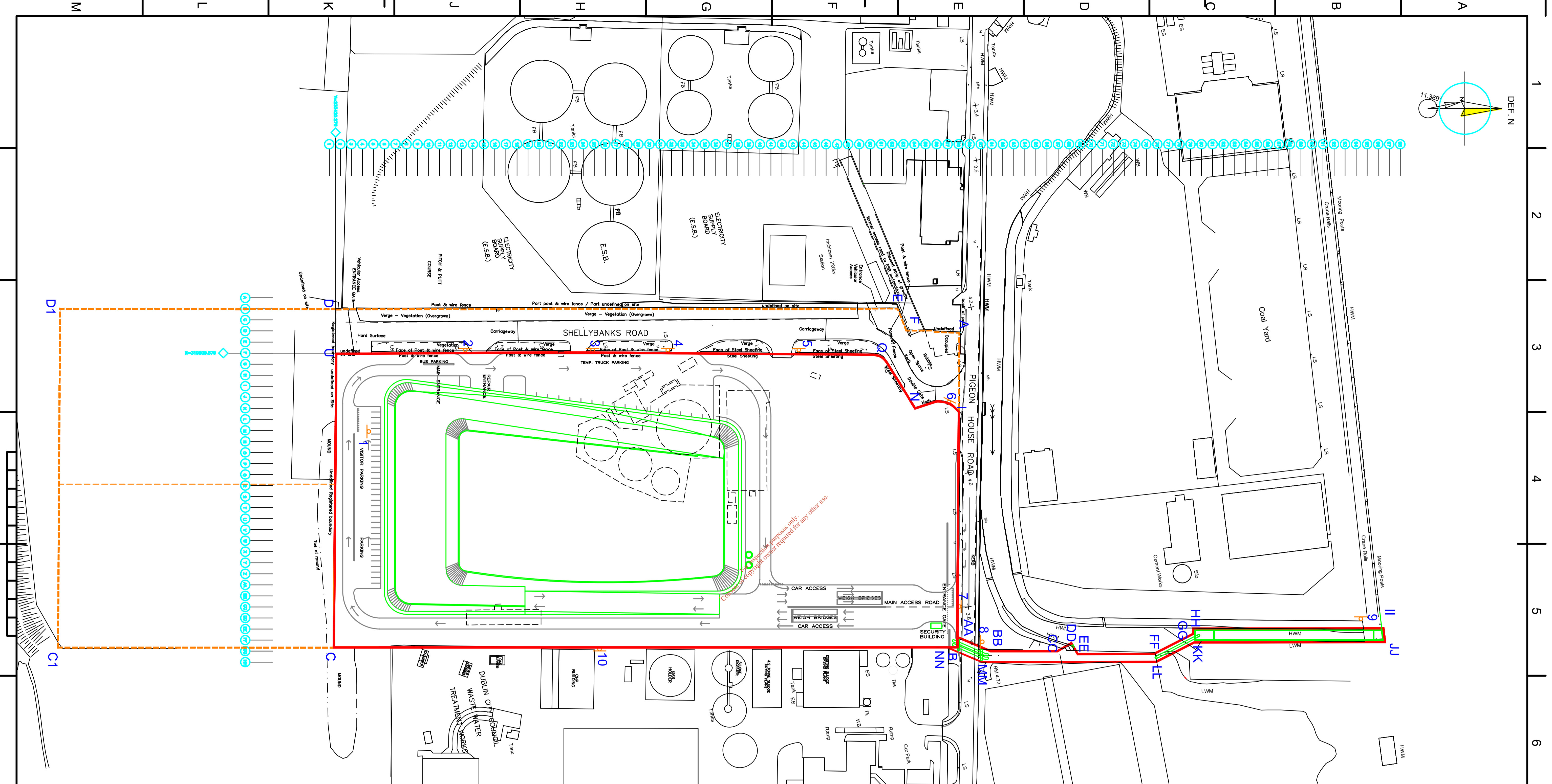
PRELIMINARY

EISAM AS DUBLIN WASTE TO ENERGY CONSTRUCTION SITE		EE 13319	
UZO /		BE001 c	
Index	Date	Drawn	Description
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b	03/05/2008	KAS	CIN GENERAL REVISION
a	17/05/2008	KAS	CIN GENERAL REVISION
File Name:	UZO BE001c	Format:	A1
Distribute to:	CIN RFPQ RFP	Scale:	Checked
	UZO RFP	Scale:	1:1000
		Approved:	20/04/2008
		By:	KAS
		Checked:	20/04/2008
		By:	KAS
		Approved:	20/04/2008
		By:	RFP

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POINT	EASTING (X)	NORTHING (Y)
1	319854.907	233429.497
2	319821.891	233448.689
3	319835.517	233657.459
4	319843.570	233697.507
5	319857.600	233667.284
6	319901.387	233741.780
7	320011.442	233726.300
8	320032.715	233733.818
9	320060.957	233937.942
10	319995.617	233529.108
I	319901.572	233746.319
N	319901.654	233723.243
Q	319868.972	233709.695
U	319809.579	233420.270
C	319866.586	233387.285
B	320033.468	233720.316
A	319866.343	233755.128
F	319858.428	233726.978
E	319845.829	233724.715
D	319785.656	233425.285
D1	319795.002	233777.812
C-1	319937.156	233240.438
AA	320027.451	233721.582
BB	320038.330	233737.508
CC	320045.860	233772.814
DD	320042.472	233781.338
EE	320049.185	233783.613
FF	320057.200	233823.788
GG	320050.770	233846.688
HH	320068.228	233847.274
II	320076.521	233849.303
JJ	320076.521	233848.645
KK	320056.162	233846.559
LL	320062.427	233824.295
MM	320043.601	233730.897
NN	320032.176	233713.942



NOTE:
 — PERMANENT FACILITY BOUNDARY
 - - - TEMPORARY POSSESSION BOUNDARY
 - - - SITE NOTICE
 L ENCL'S IN METERS ACCORDING TO ORDINANCE SURVEY DATUM MALIN HEAD

NOT IN SCALE

PRELIMINARY

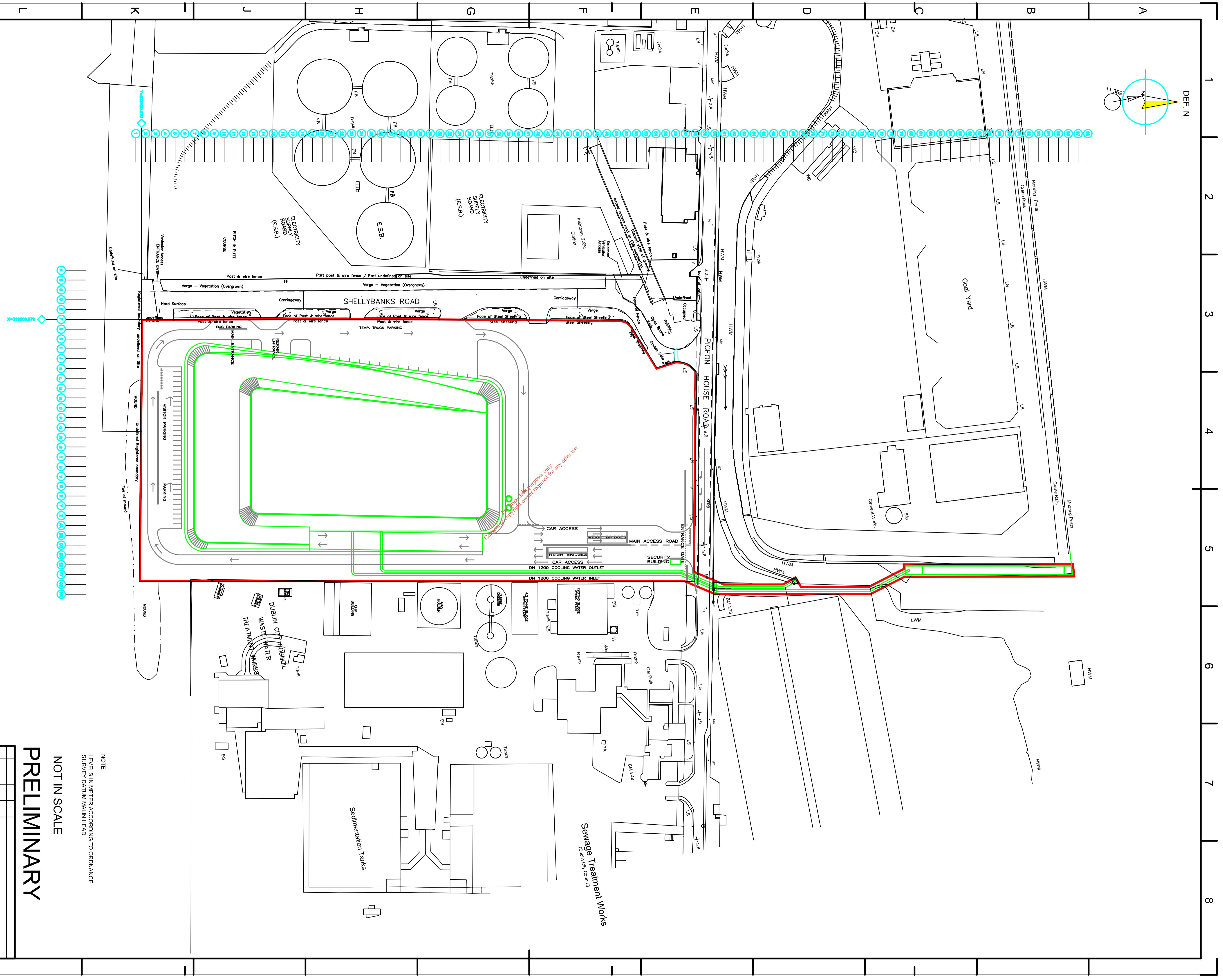
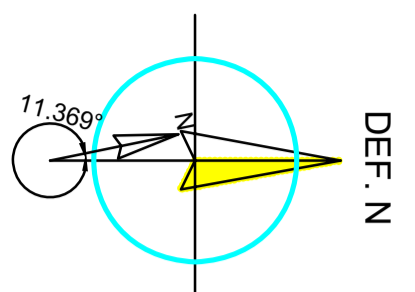
EISAM AS
 DUBLIN WASTE TO ENERGY LAYOUT
 DEFINITION OF SITES

Eisam

EE 13319
 UZT /
 BE02 f

Index	Date	Client	Author	Description	Format	Drawn/Checked	Scale	Project
f	18/05/2006	KAS	CIN	GENERAL REVISION	A1	EM/AM	1:1000	PPF
e	04/05/2006	KAS	KAS	GENERAL REVISION	A1	EM/AM	1:1000	PPF
d	11/04/2006	KAS	PPF	GENERAL REVISION	A1	EM/AM	1:1000	PPF
c	02/03/2006	KAS	CIN	GENERAL REVISION	A1	EM/AM	1:1000	PPF
b	23/02/2006	KAS	CIN	MONTH COORDINATE POINTS CORRECTED	A1	EM/AM	1:1000	PPF

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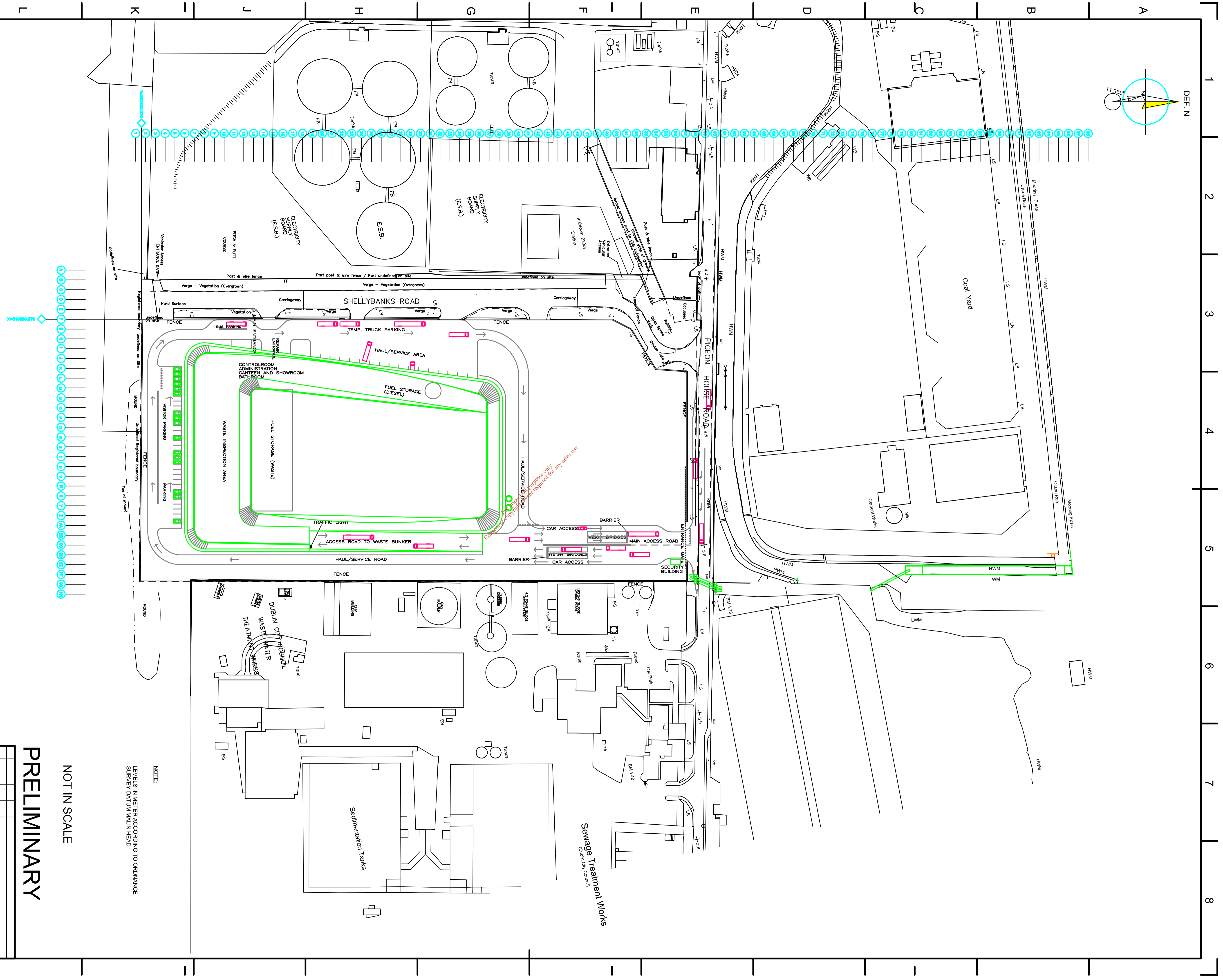
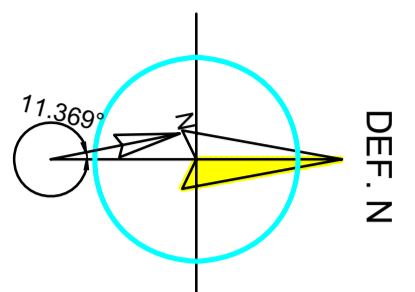
NOTE
LEVELS IN METERS ACCORDING TO ORDNANCE
SURVEY DATUM MALIN HEAD

NOT IN SCALE

PRELIMINARY

EISAM AS		EE 13319	
DUBLIN WASTE TO ENERGY LAYOUT		UZI /	
COOLING WATER LAYOUT PLAN		BE003C	
Index	Date	Disc	Appr
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d	03/05/2008	KAS	PRP
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Distribute to:		Scale	
		1:1000	
		Approved by	
		27/04/2008	
		CSP	
		CSP	

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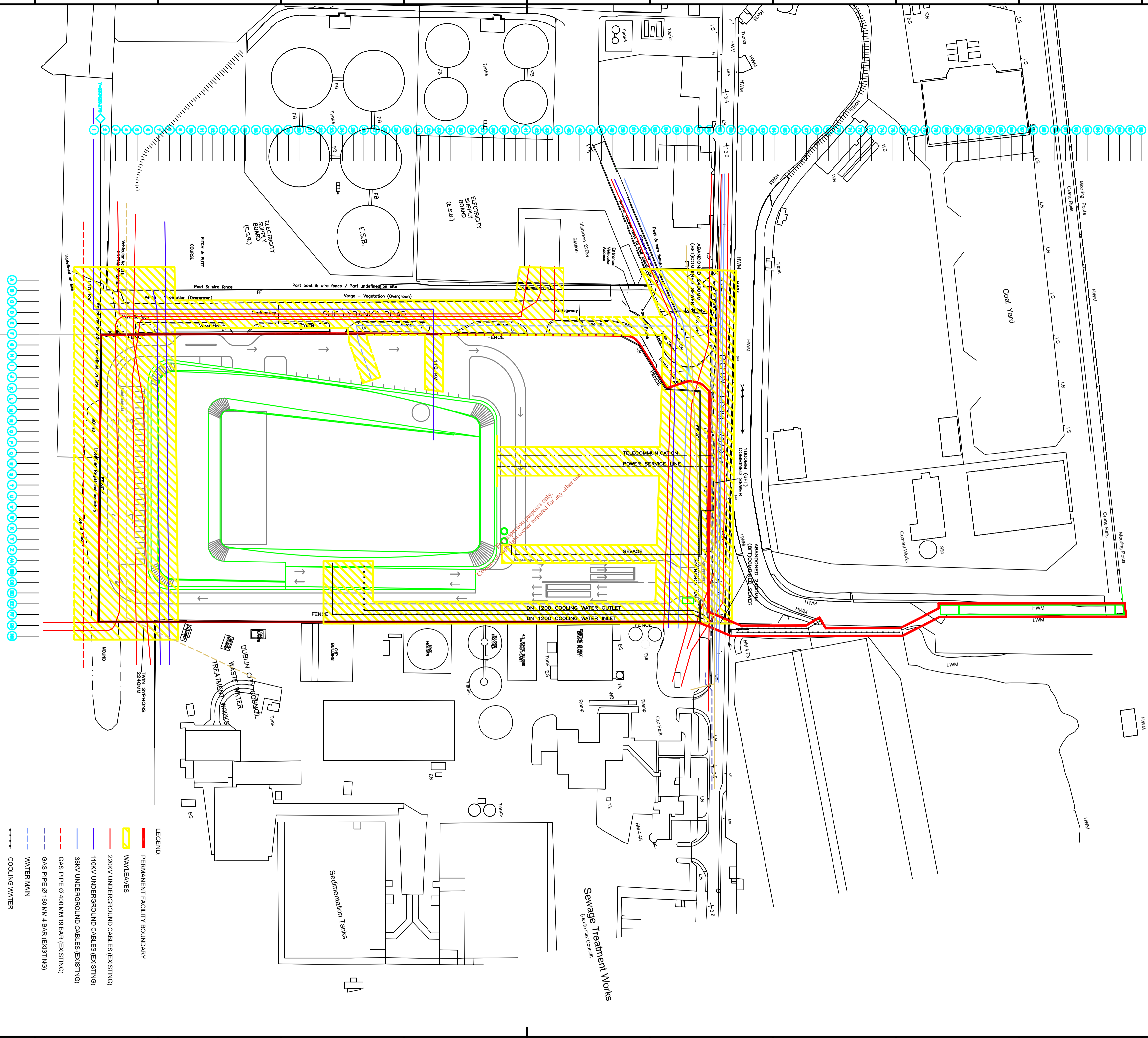
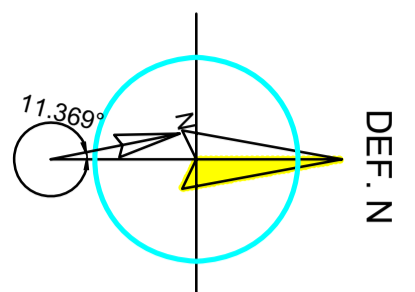
NOTE:
LEVELS IN METRE ACCORDING TO ORDNANCE
SURVEY DATUM (MALIN HEAD)

NOT IN SCALE

PRELIMINARY

EISAM AS DUBLIN WASTE TO ENERGY LAYOUT SITE VIEW		EE 13319	
UZT /		BE005 d	
Index	Date	Client	Author
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c	03.05.2006	KAS	CLN
b	11.04.2006	KAS	PPF
a	11.04.2006	KAS	PPF
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Drawn by:	CSZ HTP	Scale:	1:1000
Checked by:		Approved:	
Date:	10.11.2005	LU	

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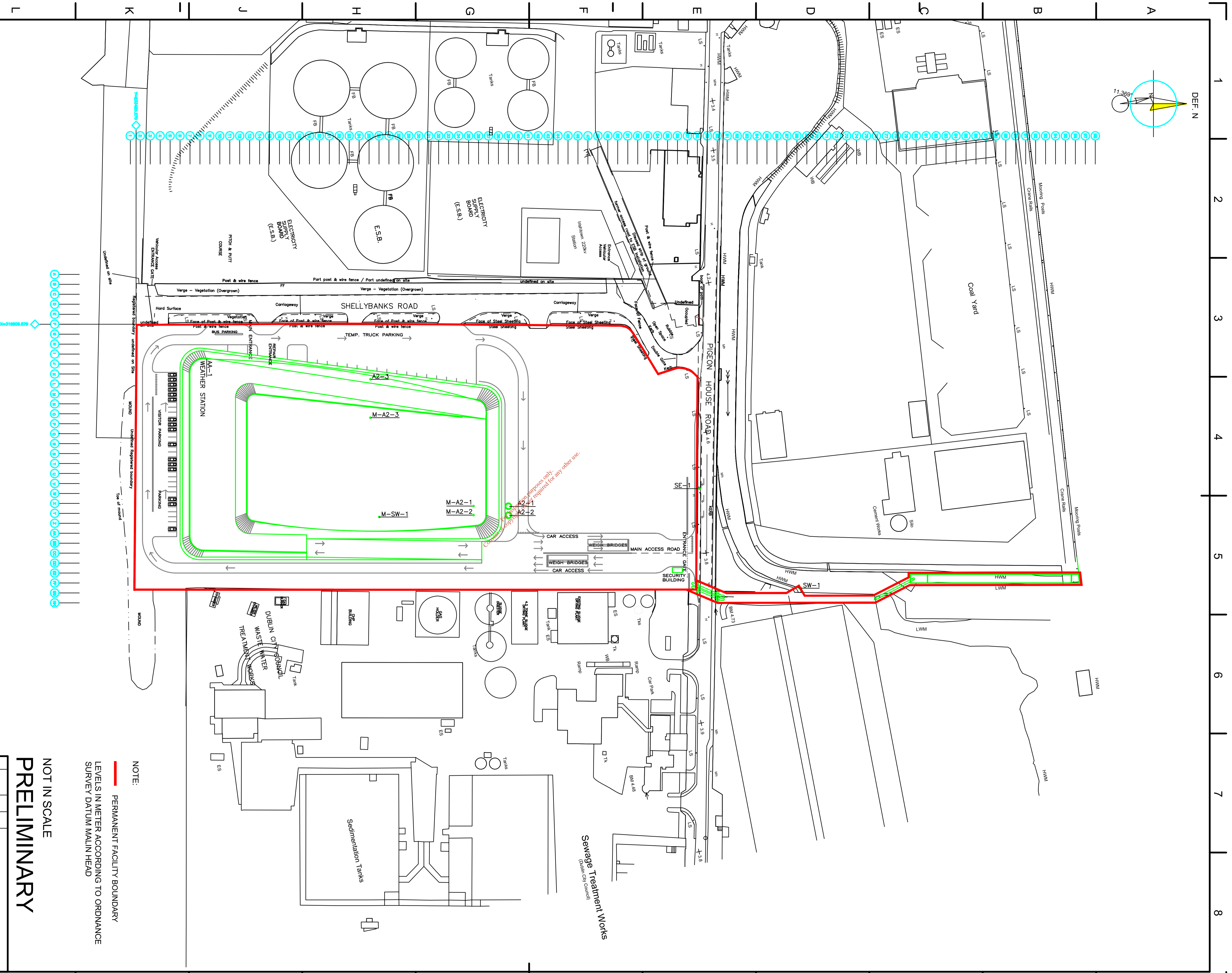
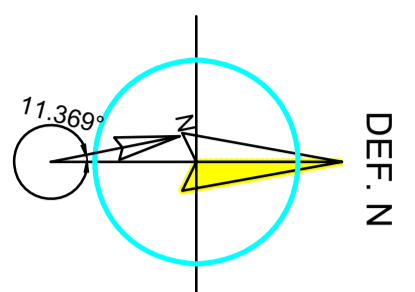


- LEGEND:**
- PERMANENT FACILITY BOUNDARY
 - WAVELEAVES
 - 220KV UNDERGROUND CABLES (EXISTING)
 - 110KV UNDERGROUND CABLES (EXISTING)
 - 38KV UNDERGROUND CABLES (EXISTING)
 - 19KV UNDERGROUND CABLES (EXISTING)
 - GAS PIPE Ø 400 MM 19 BAR (EXISTING)
 - GAS PIPE Ø 190 MM 4 BAR (EXISTING)
 - WATER MAIN
 - COOLING WATER

PRELIMINARY

EISAM AS		EE 13319																						
DUBLIN WASTE TO ENERGY		UZT /																						
SUB SURFACE UTILITIES		BE007 c																						
Index	Date	CD/CA	Appr																					
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b	05/05/2006	KAS	CLN																					
a	18/05/2006	KAS	CLN																					
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Distribute to:	CS2	Appr:	HTP	Scale:	Checked:	11/04/2006																		
					Approved:	11/04/2006																		
<p>Eisam</p>																								

NOT IN SCALE
LEVELS IN METER ACCORDING TO ORDNANCE SURVEY DATUM MALIN HEAD



NATIONAL GRID COORDINATES		
POINT	EASTING (X)	NORTHING (Y)
A2-1	319861.384	233618.752
A2-2	319866.776	233617.668
A2-3	319869.994	233652.240
M-A2-1	319897.146	233588.198
M-A2-2	319892.538	233597.114
M-A2-3	319892.666	233547.682
AA-1	319898.427	233457.961
SE-1	319873.759	233733.970
SW1	32004.630	233782.085
MSW1	319892.431	233541.162

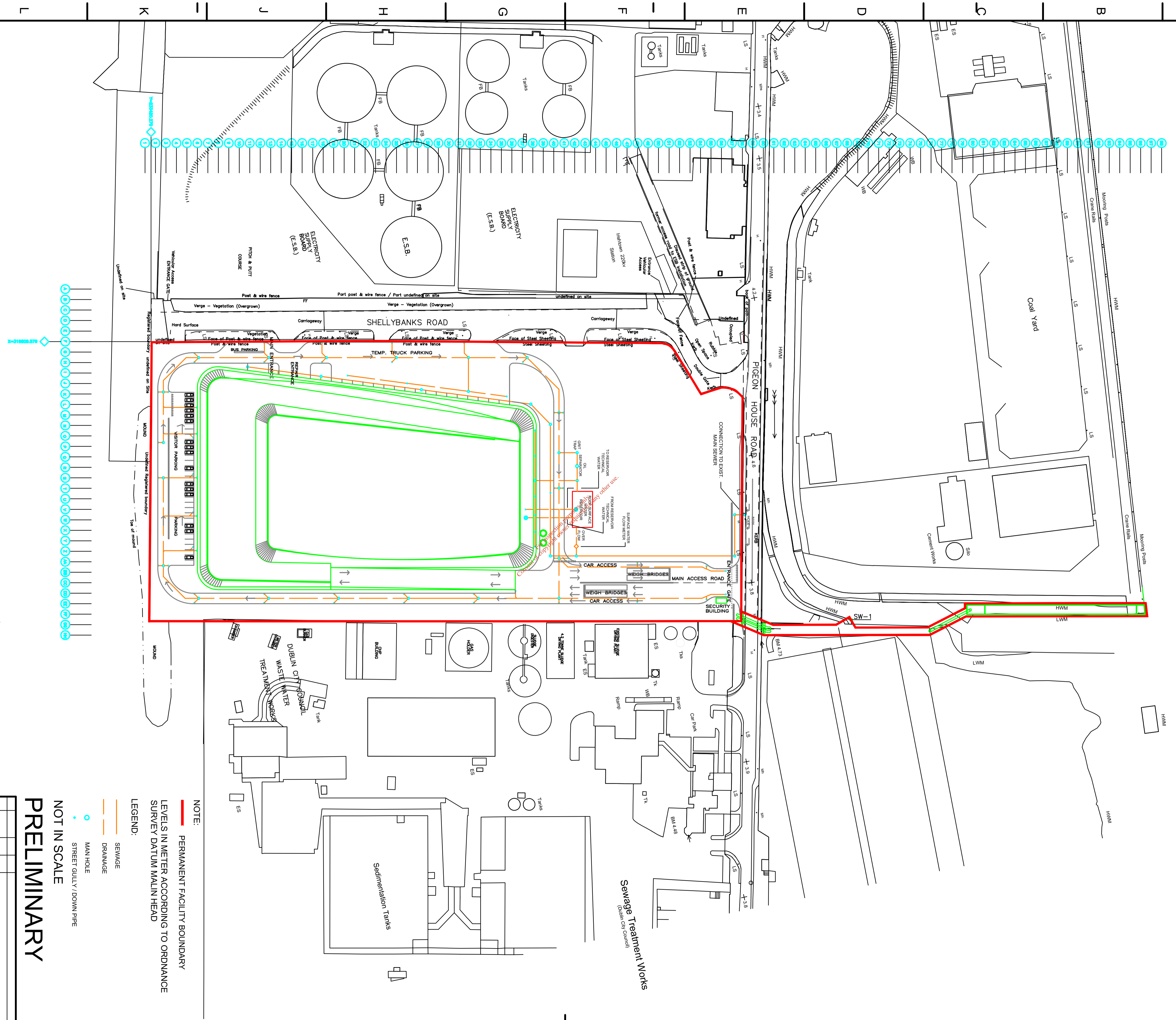
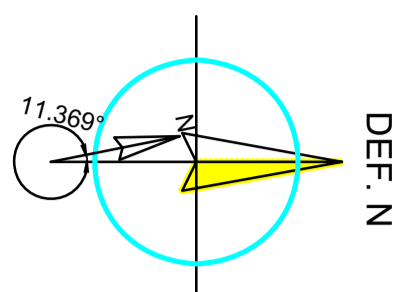
NOTE:
 — PERMANENT FACILITY BOUNDARY
 — LEVELS IN METER ACCORDING TO ORDINANCE SURVEY DATUM MALIN HEAD

NOT IN SCALE
PRELIMINARY

Issue	Date	Client	Author	Description	Format	Drawn/Checked/Approved	LU
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c	04/05/2006	KAS	KAS	GENERAL REVISION	AA1	20/03/2008	KAS
b	11/04/2006	KAS	PPP	GENERAL REVISION	AA1	20/03/2008	CLM

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		Author:	PPP	Author:	20/03/2008	CLM

EIS/AM AS		EE 13319
DUBLIN WASTE TO ENERGY LAYOUT		UZI /
MONITORING & EMISSION POINTS		BEO08 d



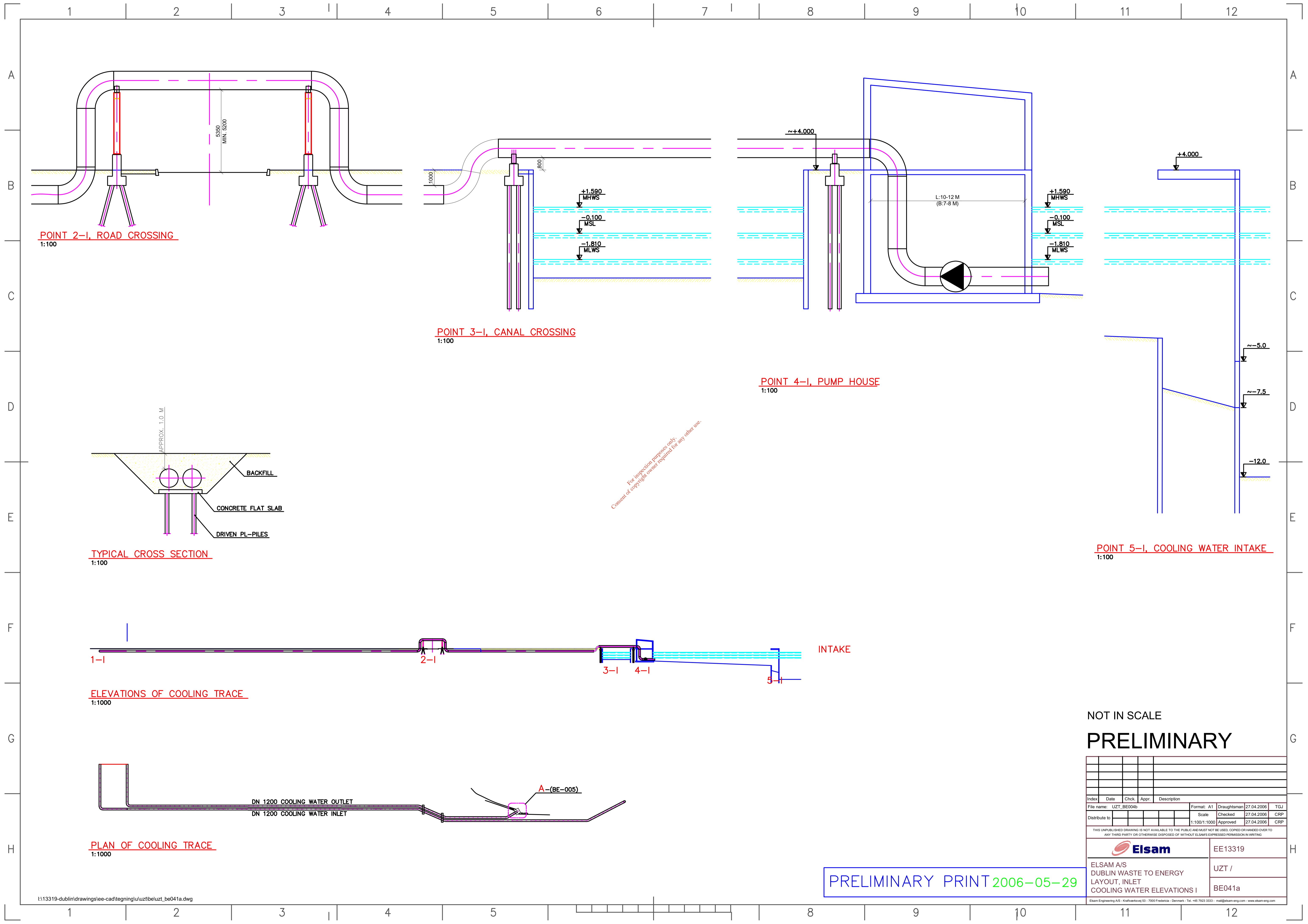
NOTE:
 — PERMANENT FACILITY BOUNDARY
 — LEVELS IN METER ACCORDING TO ORDNANCE SURVEY DATUM MALIN HEAD

LEGEND:
 — SEWAGE
 — DRAINAGE
 ○ MAN HOLE
 ● STREET GULLY / DOWN PIPE

NOT IN SCALE
PRELIMINARY

Index	Date	Client	Appr.	Description
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				

<p>Eisam ELSAM AS DUBLIN WASTE TO ENERGY LAYOUT DRAINAGE AND SEWAGE SYSTEM</p>	<p>Project: AT Checked: 30.05.2018 Scale: 1:1000 Approved: 30.05.2018 CEN</p>
<p>EE 13319 UZT / BE040 a</p>	<p>Author: UZT Berends Date: 12.05.2018 Scale: 1:1000 Checked: 30.05.2018 Approved: 30.05.2018 CEN</p>

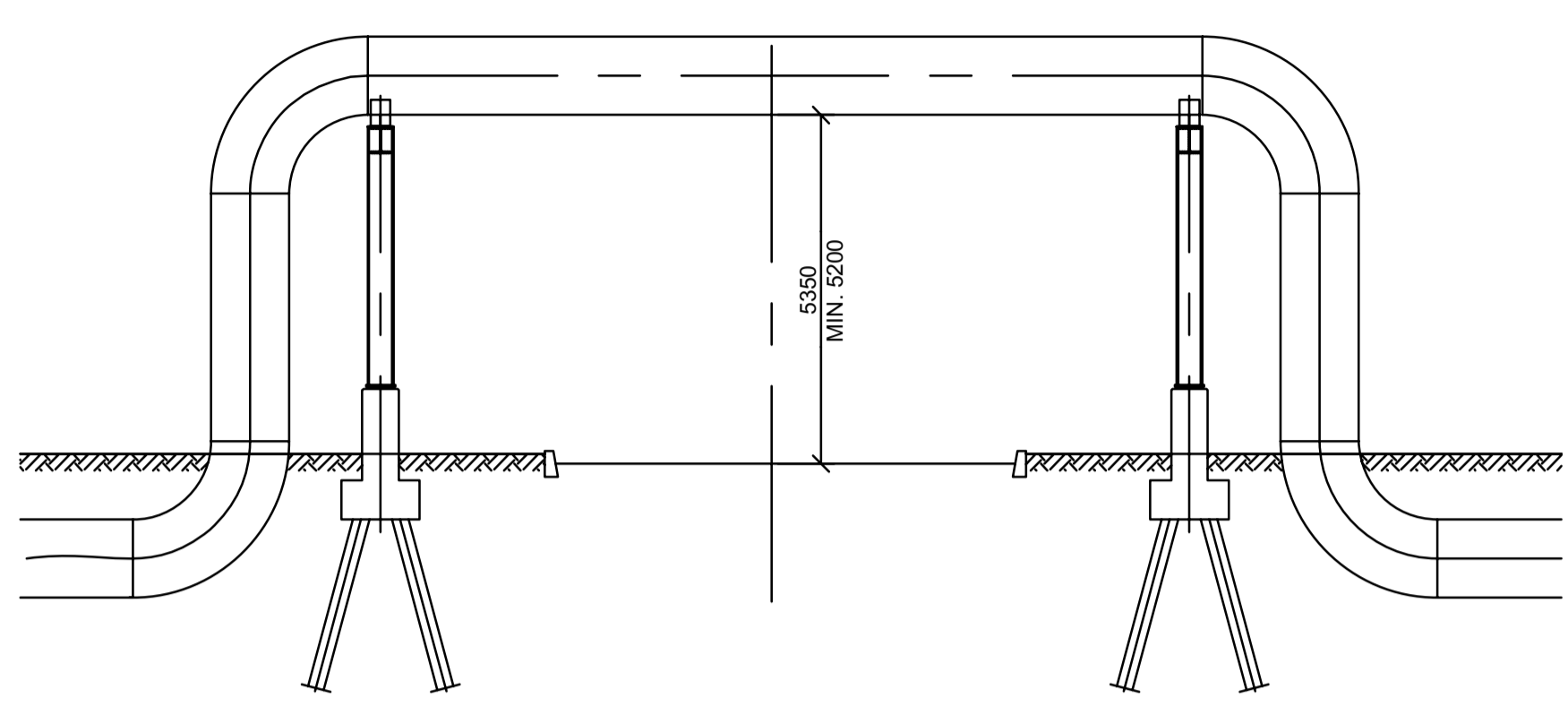


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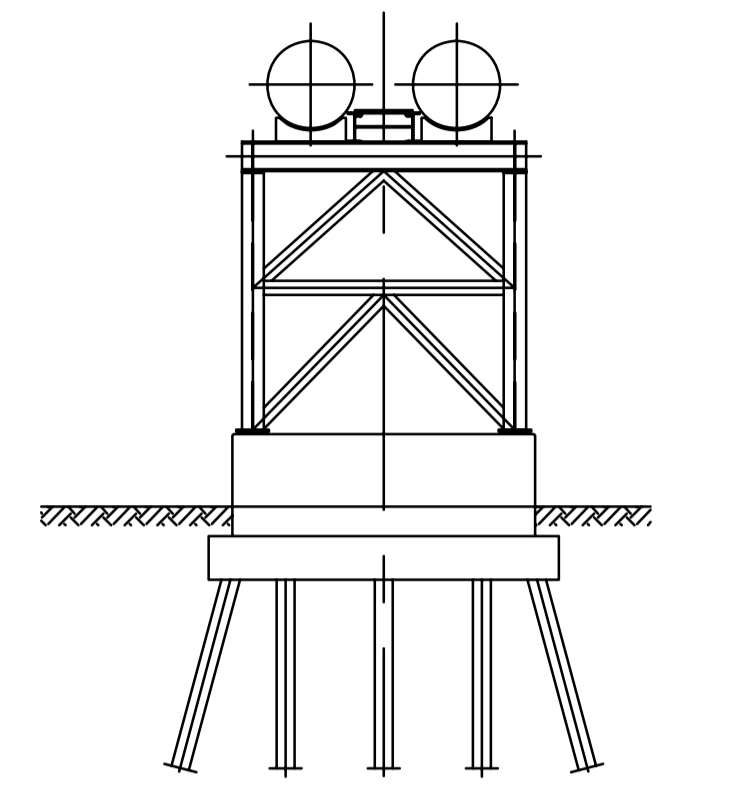
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PRELIMINARY

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		Approved:	27.04.2006	CRP
THIS UNPUBLISHED DRAWING IS NOT AVAILABLE TO THE PUBLIC AND MUST NOT BE USED, COPIED OR HANDED OVER TO ANY THIRD PARTY OR OTHERWISE DISPOSED OF WITHOUT ELSAM'S EXPRESSED PERMISSION IN WRITING				
Elsam		EE13319		
ELSAM A/S DUBLIN WASTE TO ENERGY LAYOUT, INLET COOLING WATER ELEVATIONS I		UZT / BE041a		
Elsam Engineering AS - Kothmarksvej 53 - 7000 Fredericia - Denmark - Tel: +45 7923 3333 - mail@elsam-eng.com - www.elsam-eng.com				

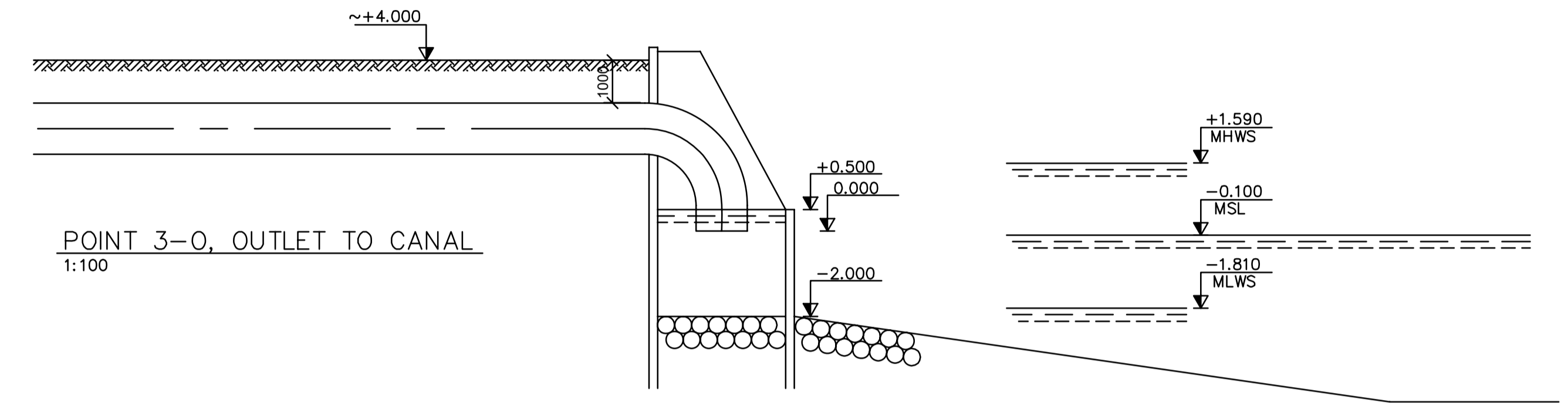
PRELIMINARY PRINT 2006-05-29



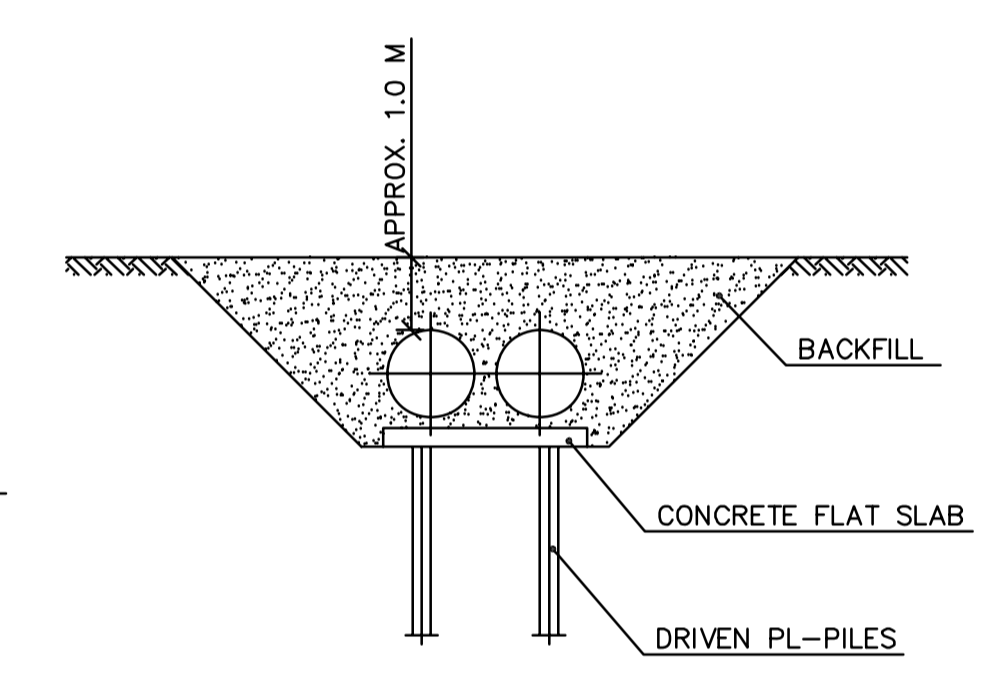
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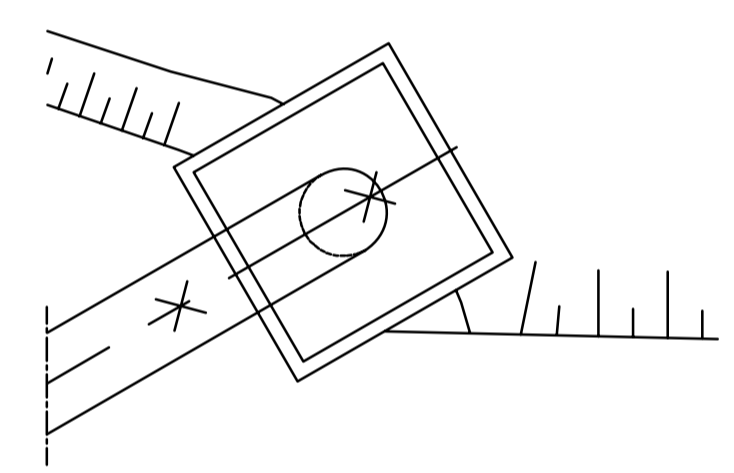
SECTION, ROAD CROSSING
1:100



POINT 3-0, OUTLET TO CANAL
1:100

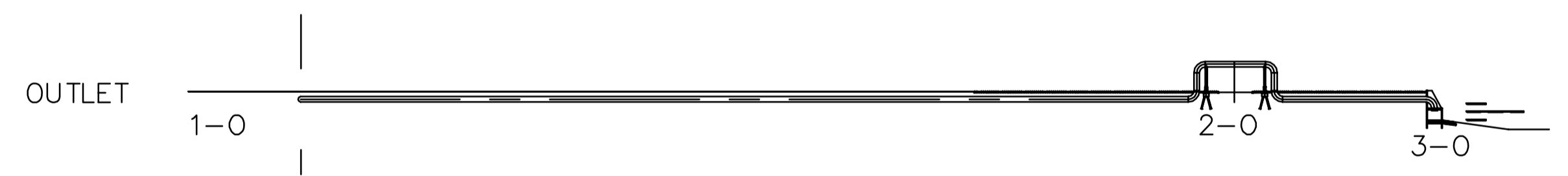


TYPICAL CROSS SECTION
1:100

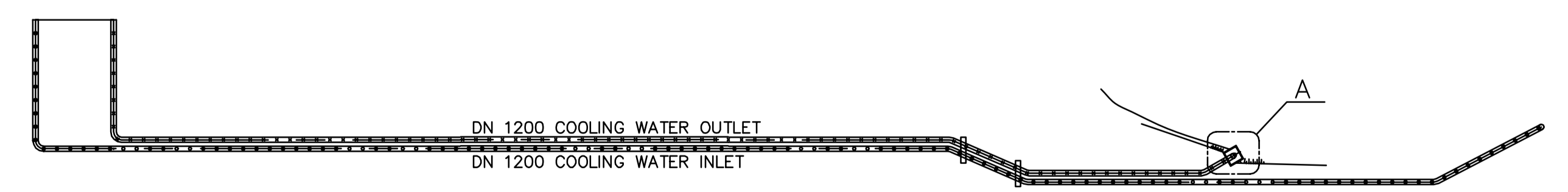


DETAIL A, POINT 3-0
1:100

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ELEVATIONS OF COOLING TRACE
1:1000



PLAN OF COOLING TRACE
1:1000

NOT IN SCALE
PRELIMINARY

Index	Date	Chk.	Appr.	Description

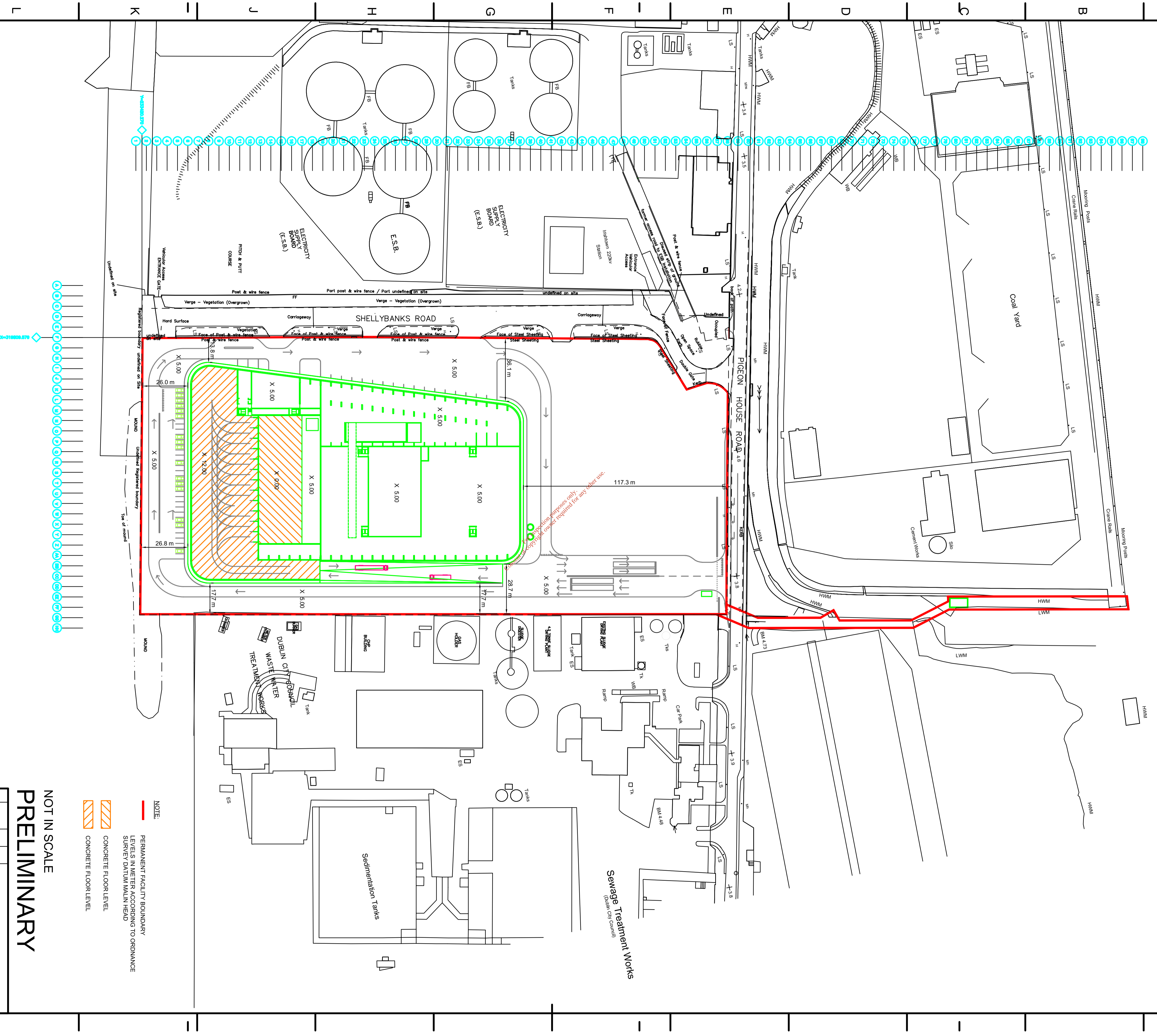
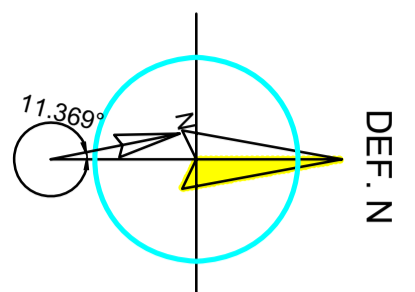
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Distribute to:		Scale:	1:100/1:1000	Checked:	27.04.2006	CRP
				Approved:	27.04.2006	CRP

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Elsam	EE13319
ELSAM A/S DUBLIN WASTE TO ENERGY LAYOUT, OUTLET COOLING WATER ELEVATIONS II	UZT / BE042a

Elsam Engineering A/S - Kothavkvej 53 - 7000 Fredericia - Denmark - Tel: +45 7923 3333 - mail@elsam-eng.com - www.elsam-eng.com

PRELIMINARY PRINT 2006-05-29



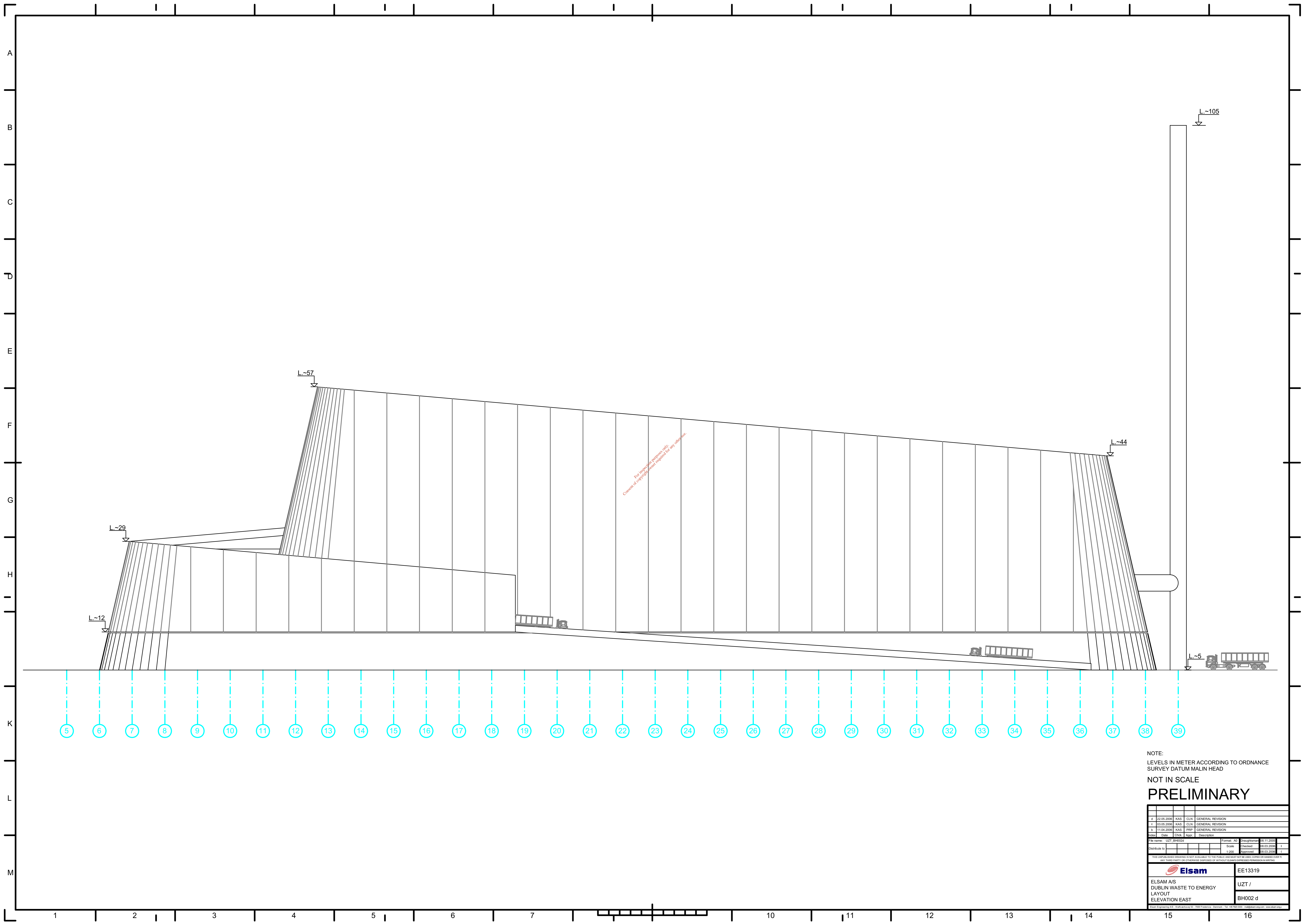
- NOTE:**
- PERMANENT FACILITY BOUNDARY
 - LEVELS IN METER ACCORDING TO ORDNANCE SURVEY DATUM MALIN HEAD
 - CONCRETE FLOOR LEVEL
 - CONCRETE FLOOR LEVEL

NOT IN SCALE
PRELIMINARY

EISAM AS		EE 13319																						
DUBLIN WASTE TO ENERGY LAYOUT		UZT /																						
ELEVATIONS AND DISTANCES		BE 101 d																						
Issue	Date	CSA	Appr																					
a	18/05/2006	KAS	CLN																					
b	11/04/2006	KAS	PRP																					
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d	18/05/2006	KAS	CLN																					
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EISAM AS
DUBLIN WASTE TO ENERGY
LAYOUT
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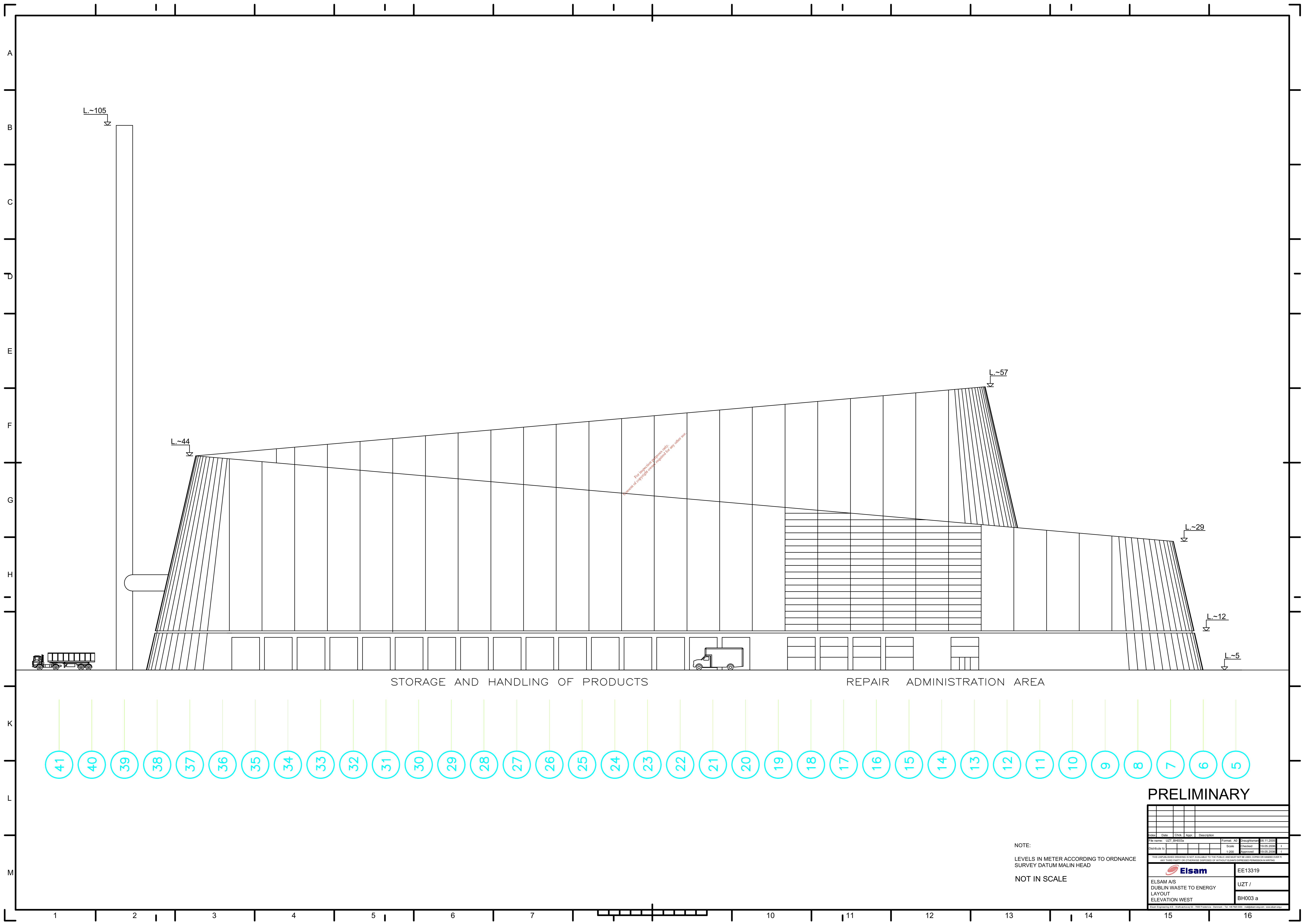
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2	03.05.2006	KAS	CLN	GENERAL REVISION
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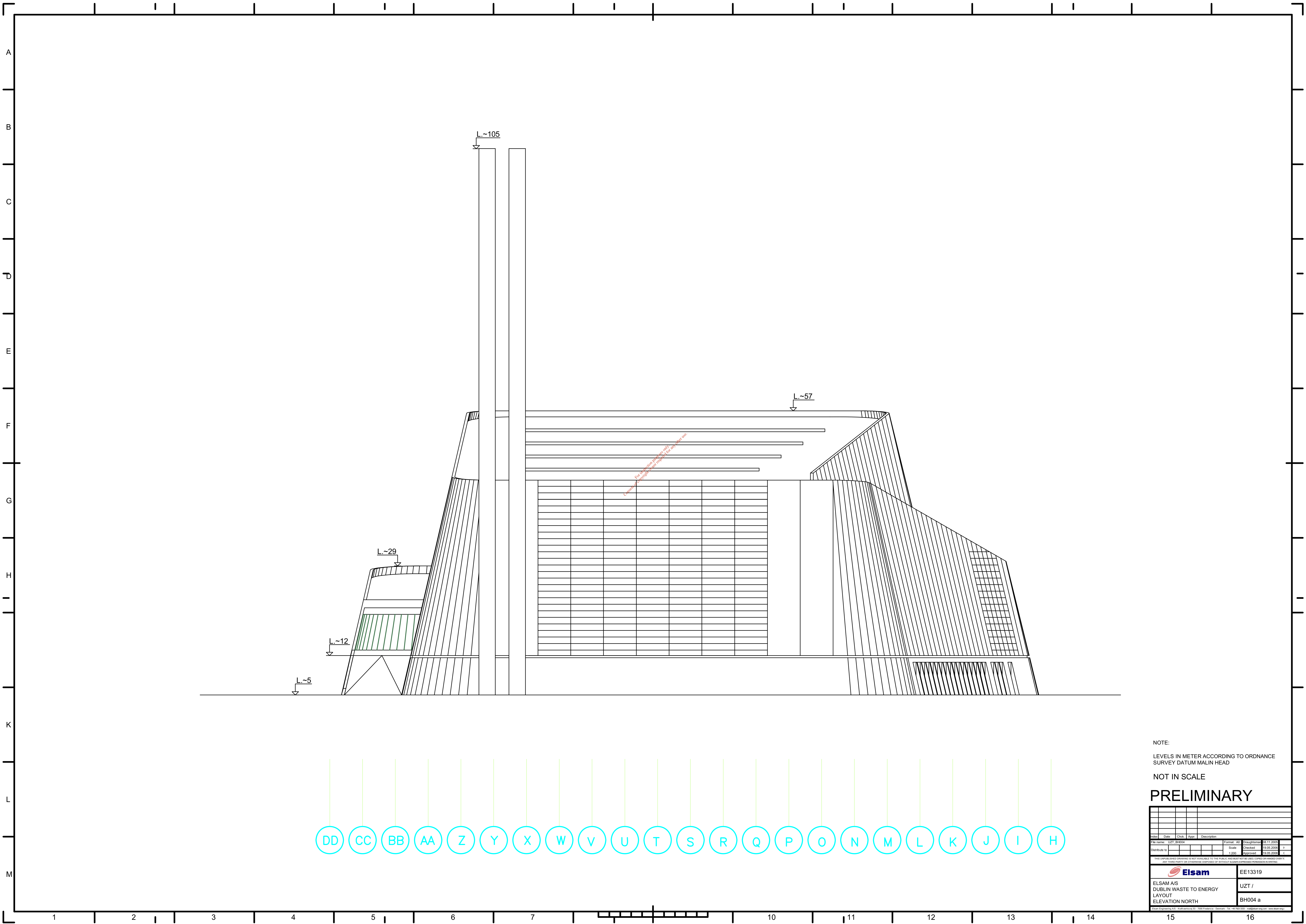
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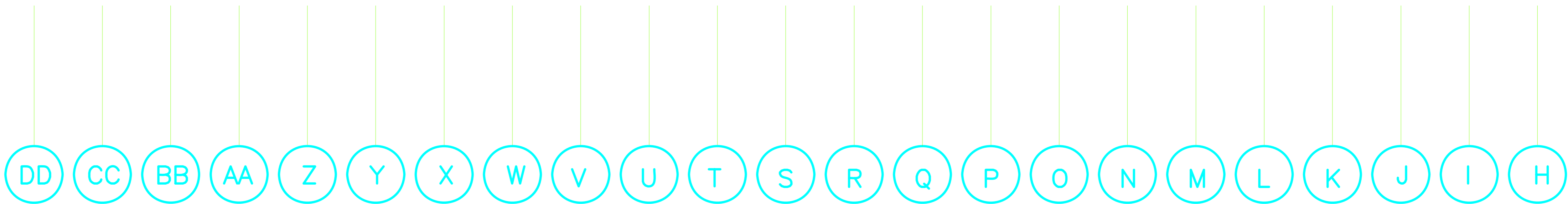
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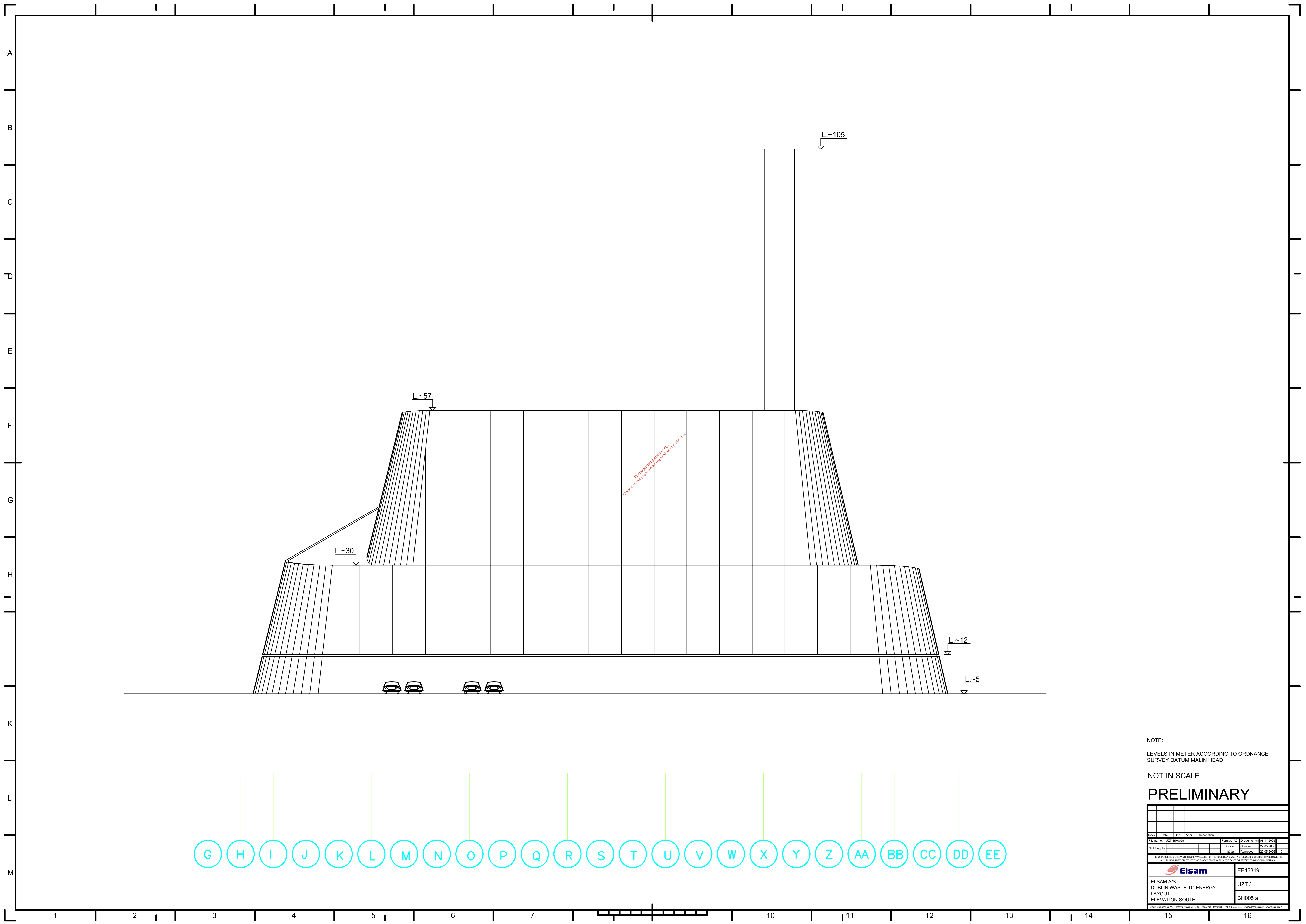


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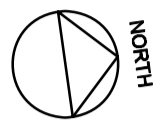
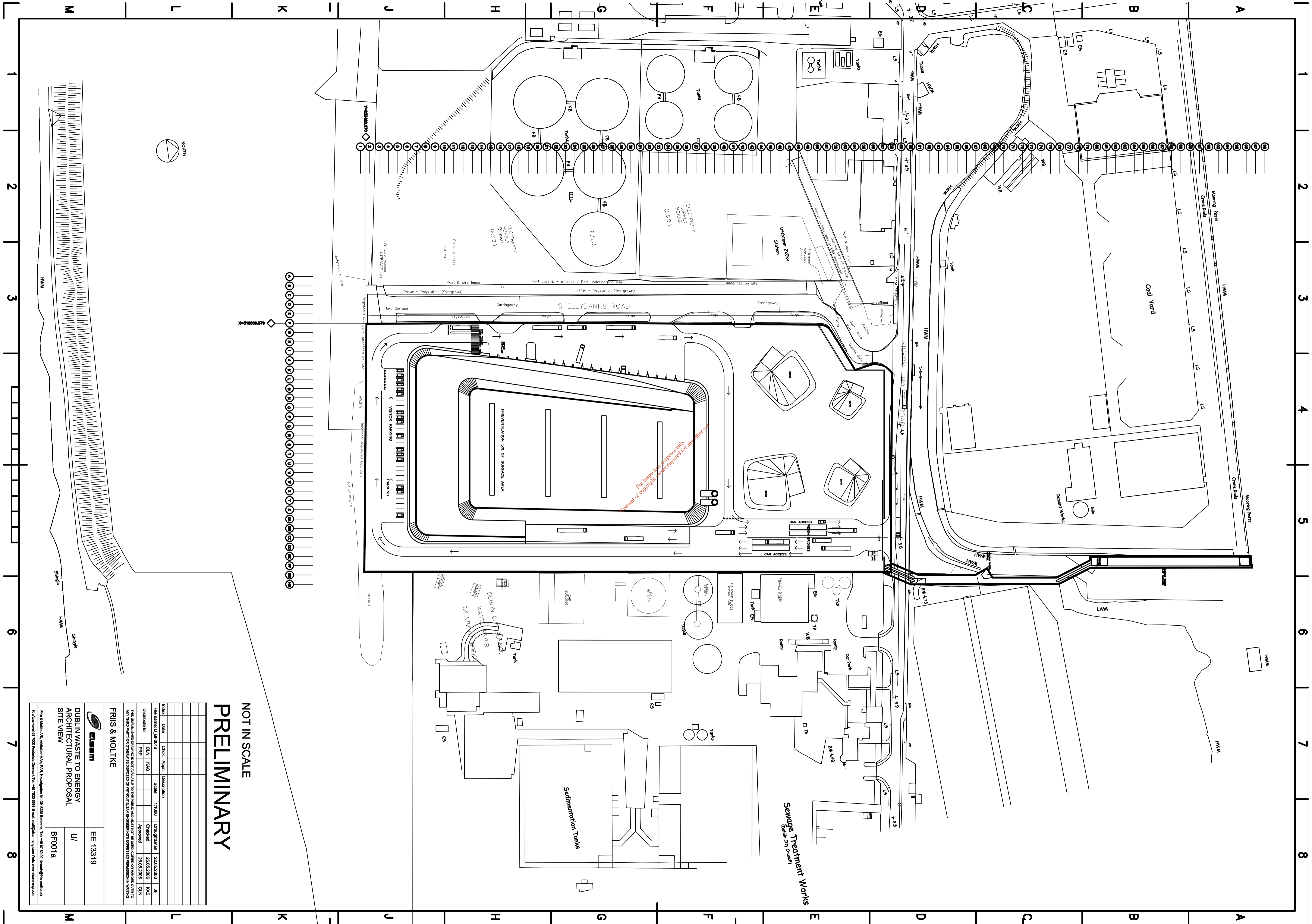


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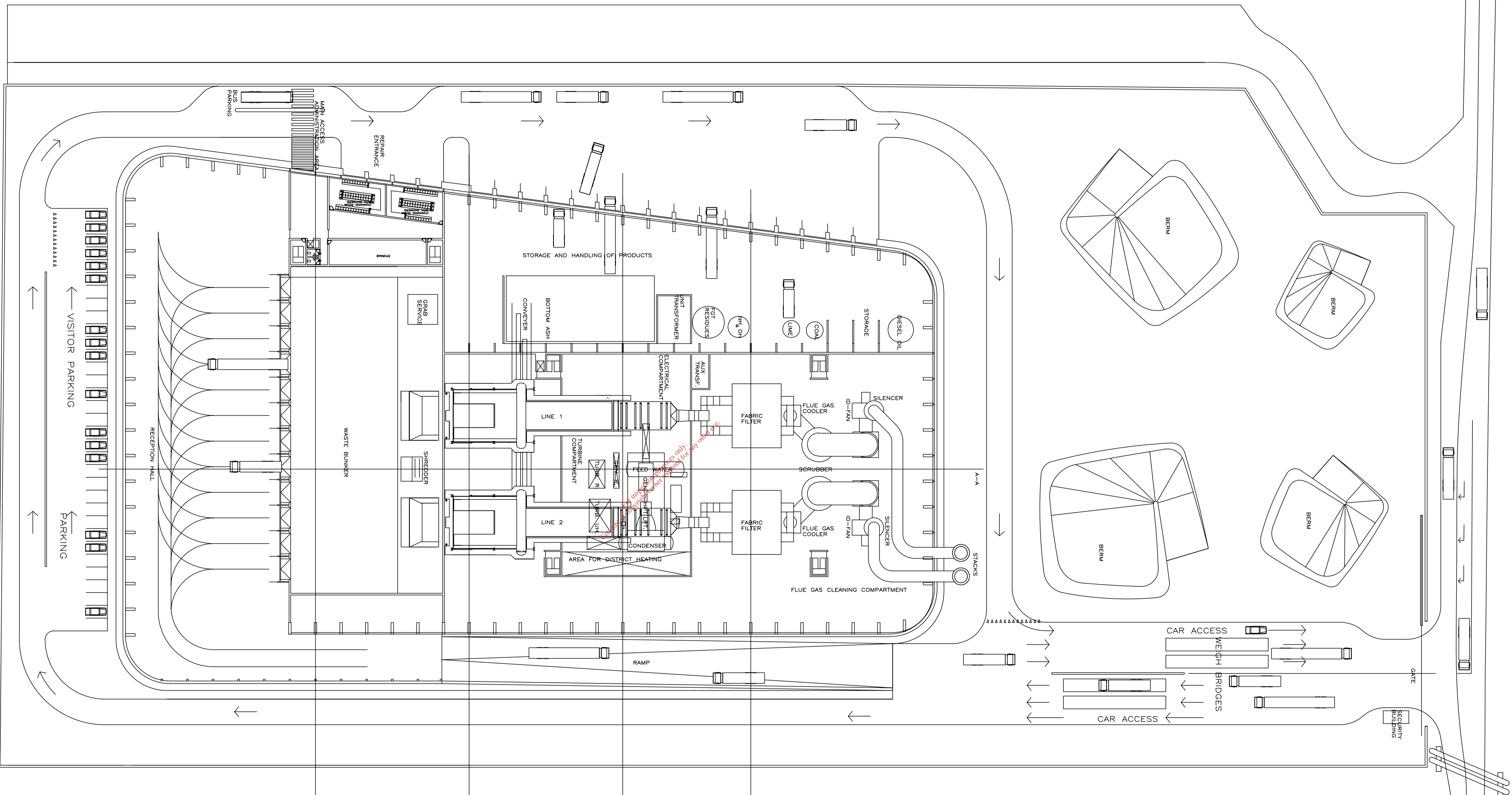
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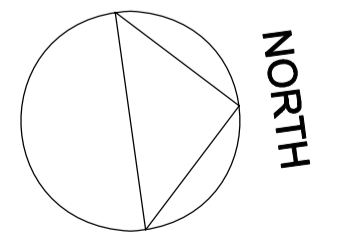
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 FRP Approved: 26.05.2008 CLN

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 Kienbergweg 52 70309 Pforzheim, Germany, Tel: +49 7323 3333 E-mail: rsm@fris-molte.com Web: www.fris-molte.com




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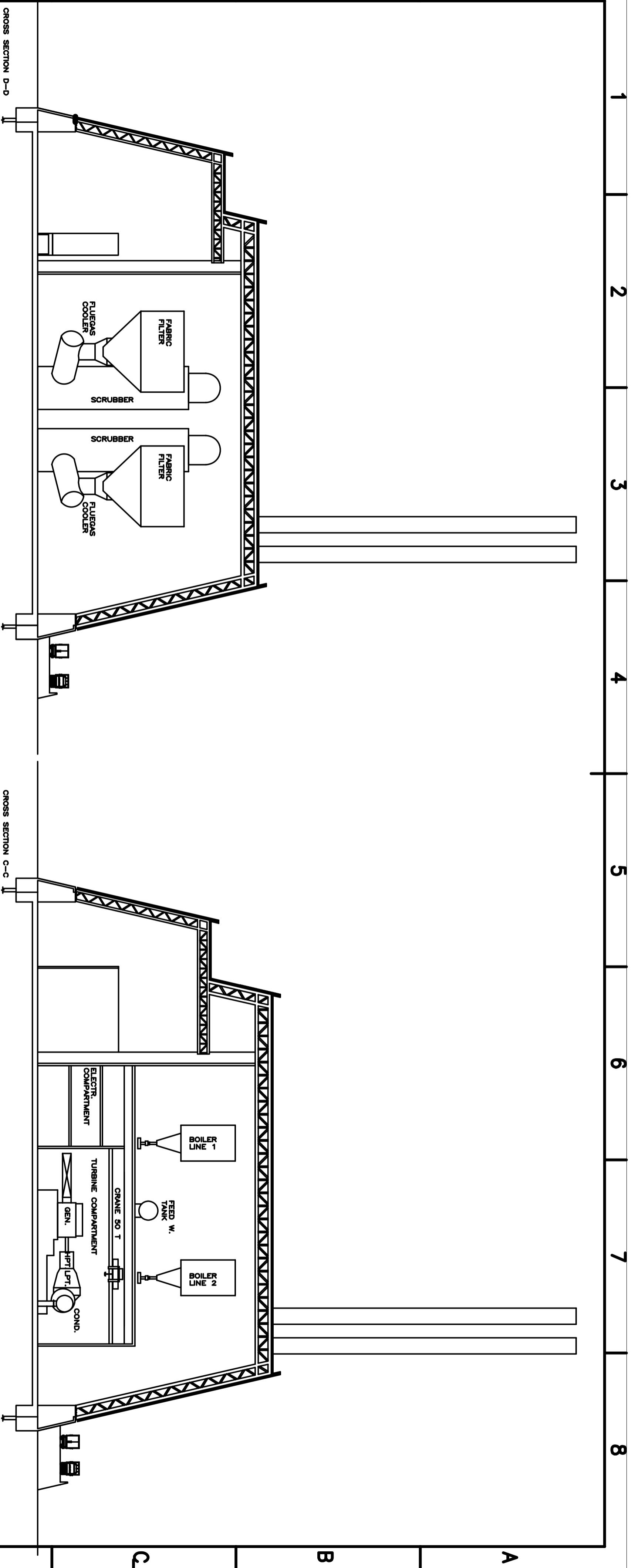
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 Checked: 28.05.2008
 Approved: 28.05.2008
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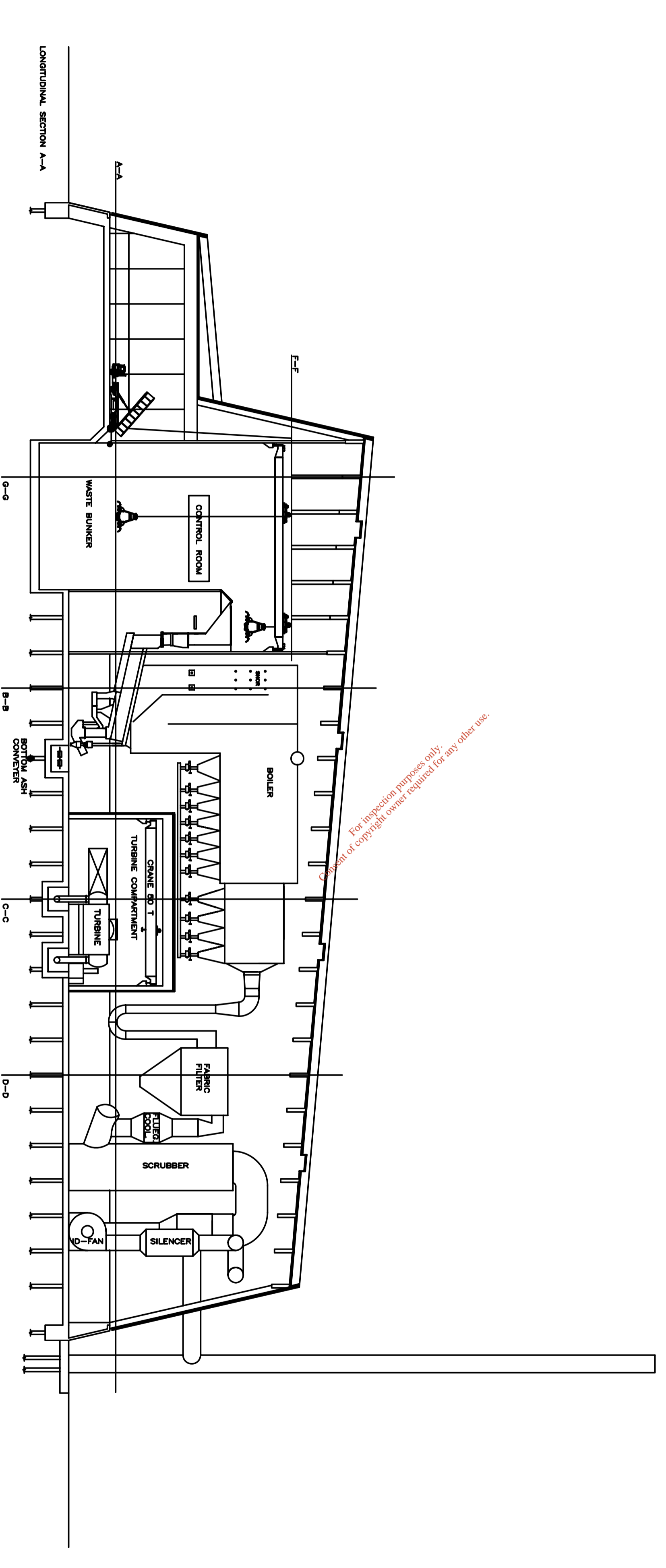
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 Industrivej 53 7000 Fredericia Denmark, Tel: +45 7523 5333 E-mail: info@eisam-eng.com Web: www.eisam-eng.com



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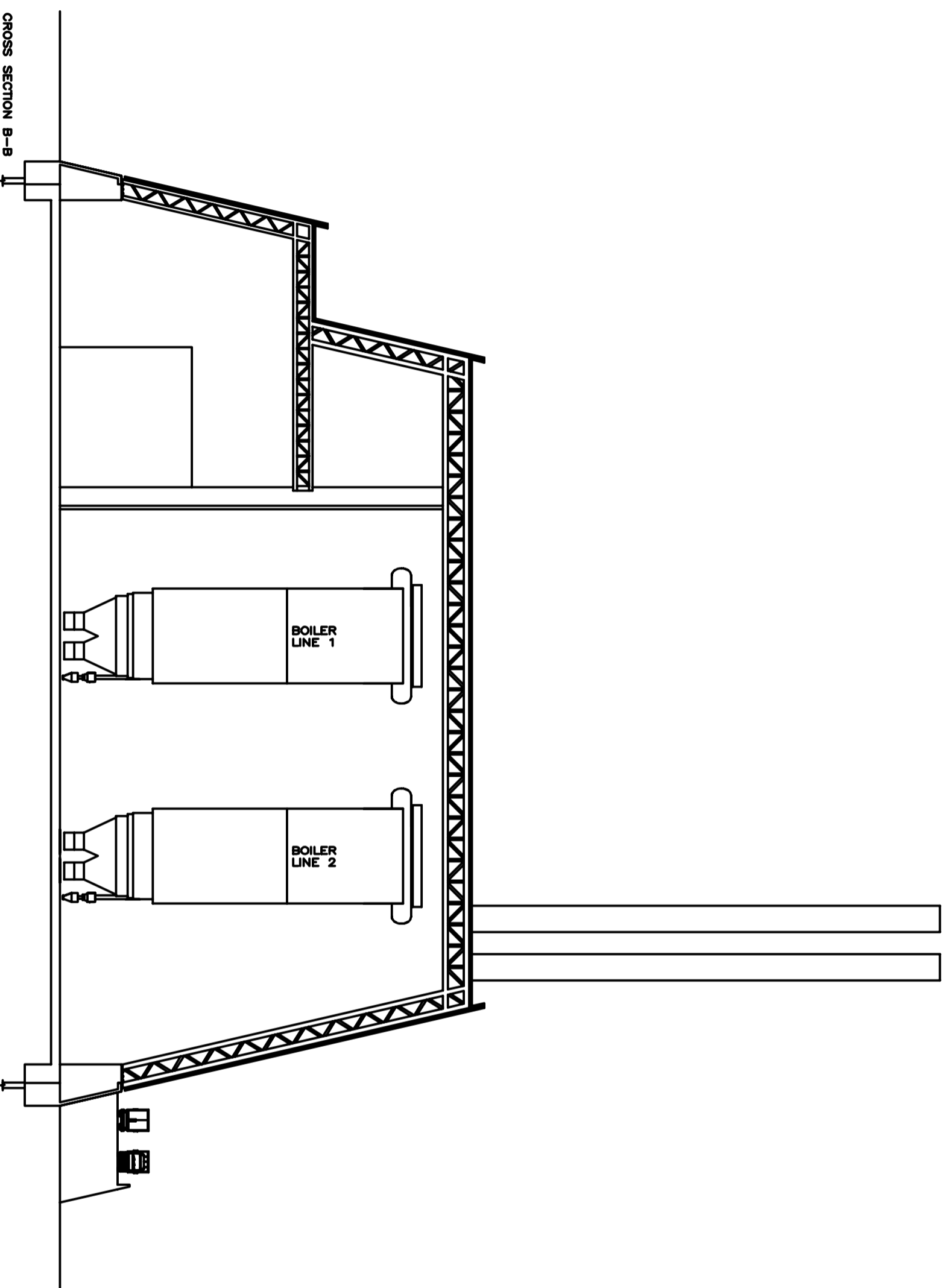
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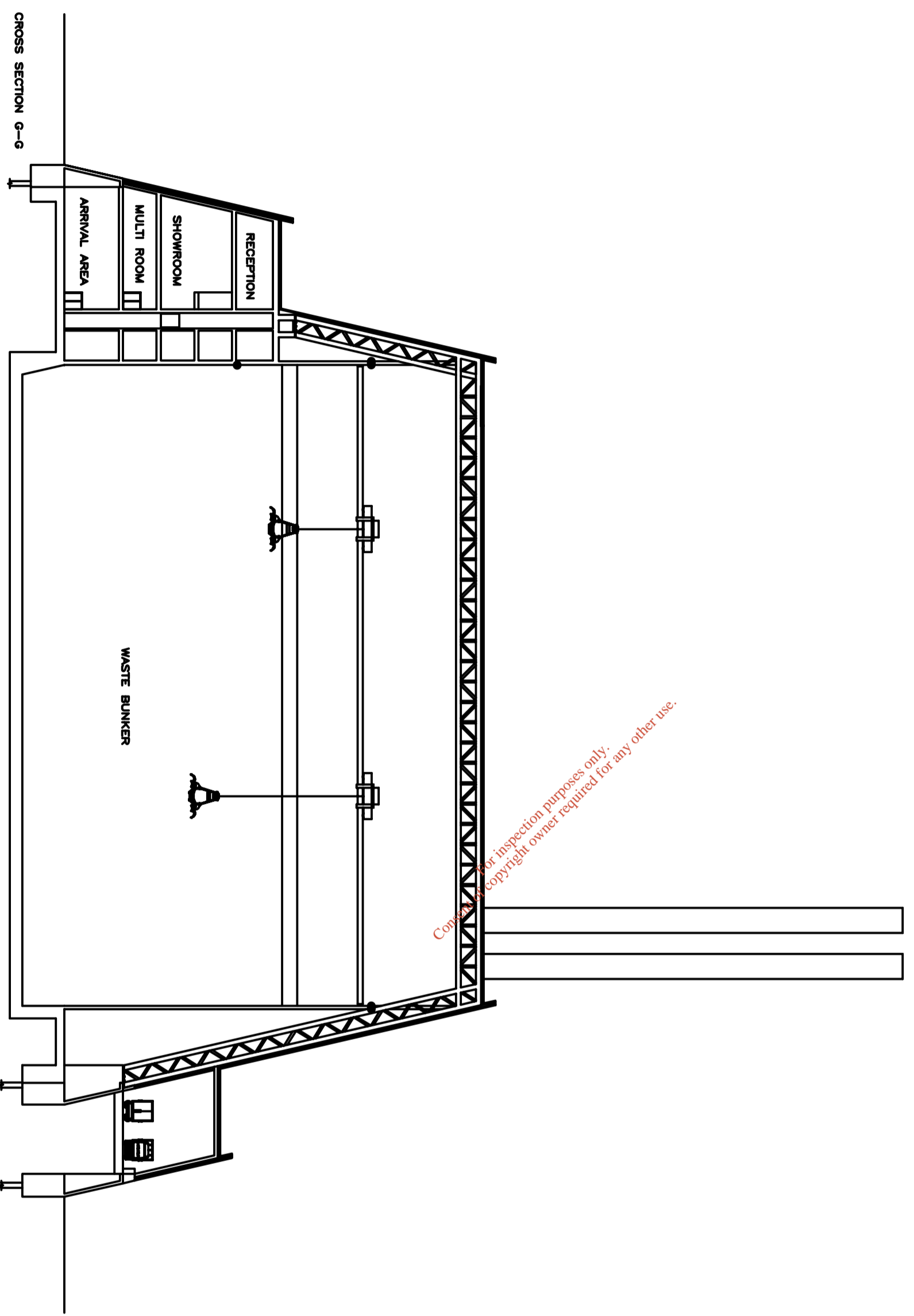
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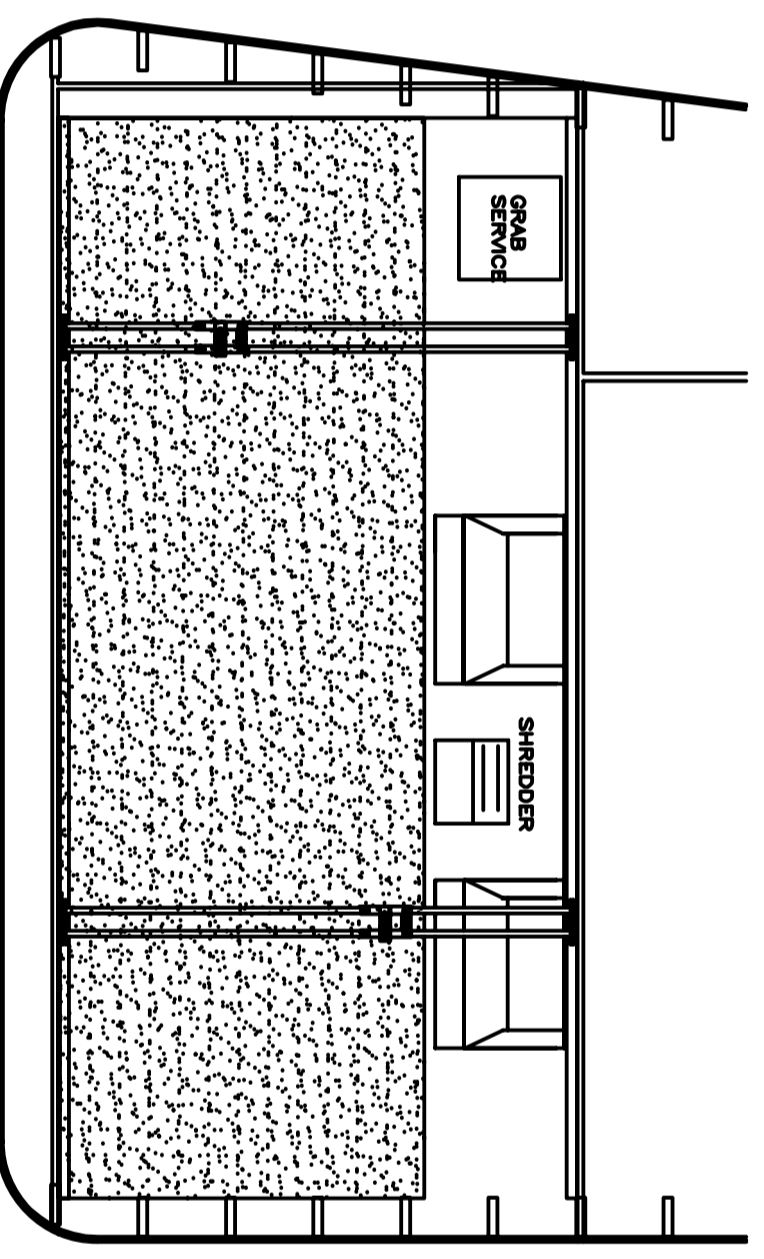
FRIS & MOLTKE, Architekt W&U, Park, Hordsgaarden 54, DK-8230 Brøndby, T: +45 70 00 00, f: +45 70 00 00, www.fris-moltke.com
København SV 7000 Frederiksberg, T: +45 7022 3333 E: email: info@fris-moltke.com, Web: www.fris-moltke.com



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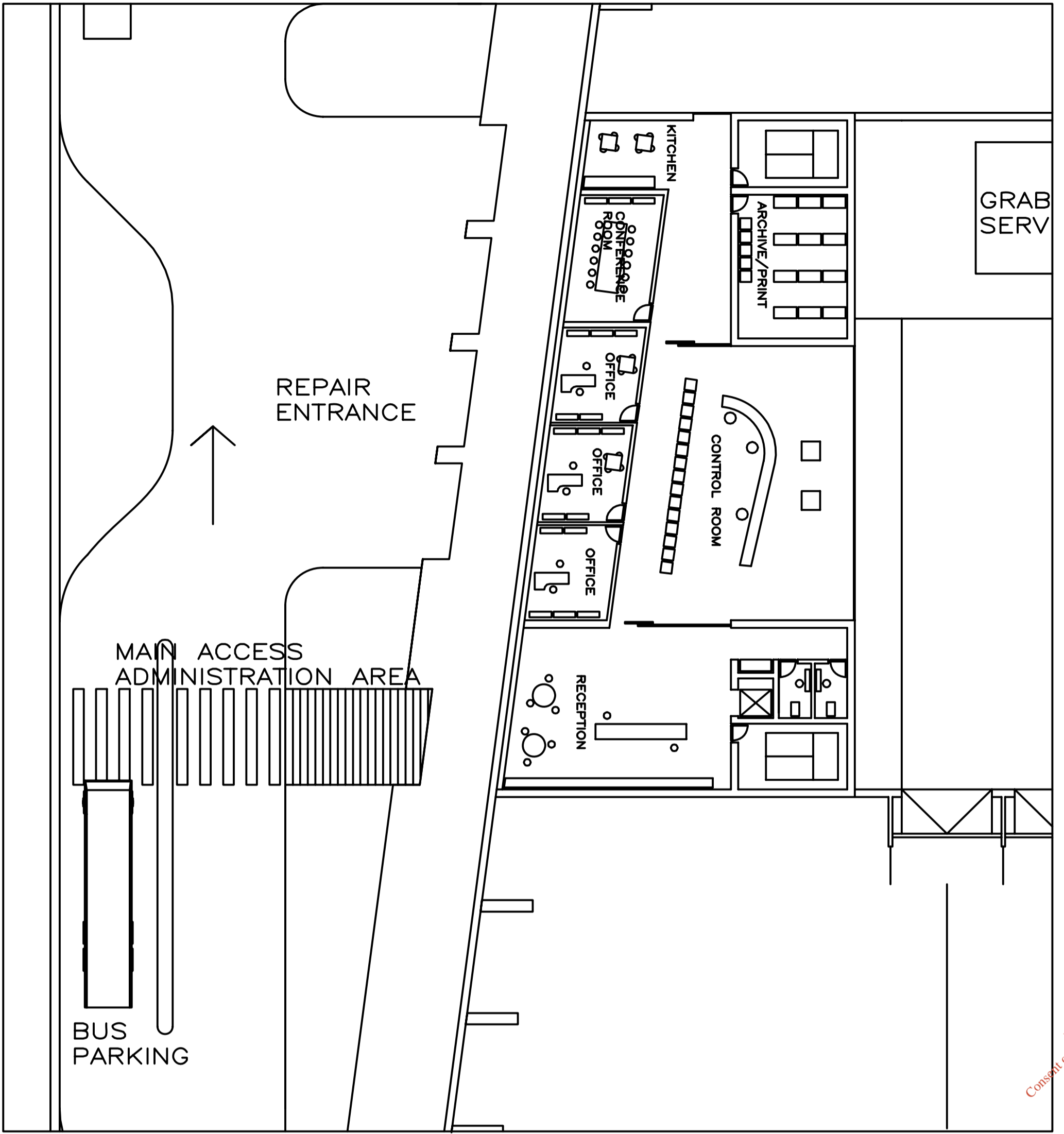
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DUBLIN WASTE TO ENERGY ARCHITECTURAL PROPOSAL CROSS SECTION A-A-B-B C-C-D-D							U /			
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LEVEL 4 (~ +25)

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NOTE:

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	PRP			Approved 28.05.2006 CLN

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Københavnvej 53 7000 Fredericia Denmark Tel: +45 7623 3333 E-mail: mail@elsam-eng.com Web: www.elsam-eng.com

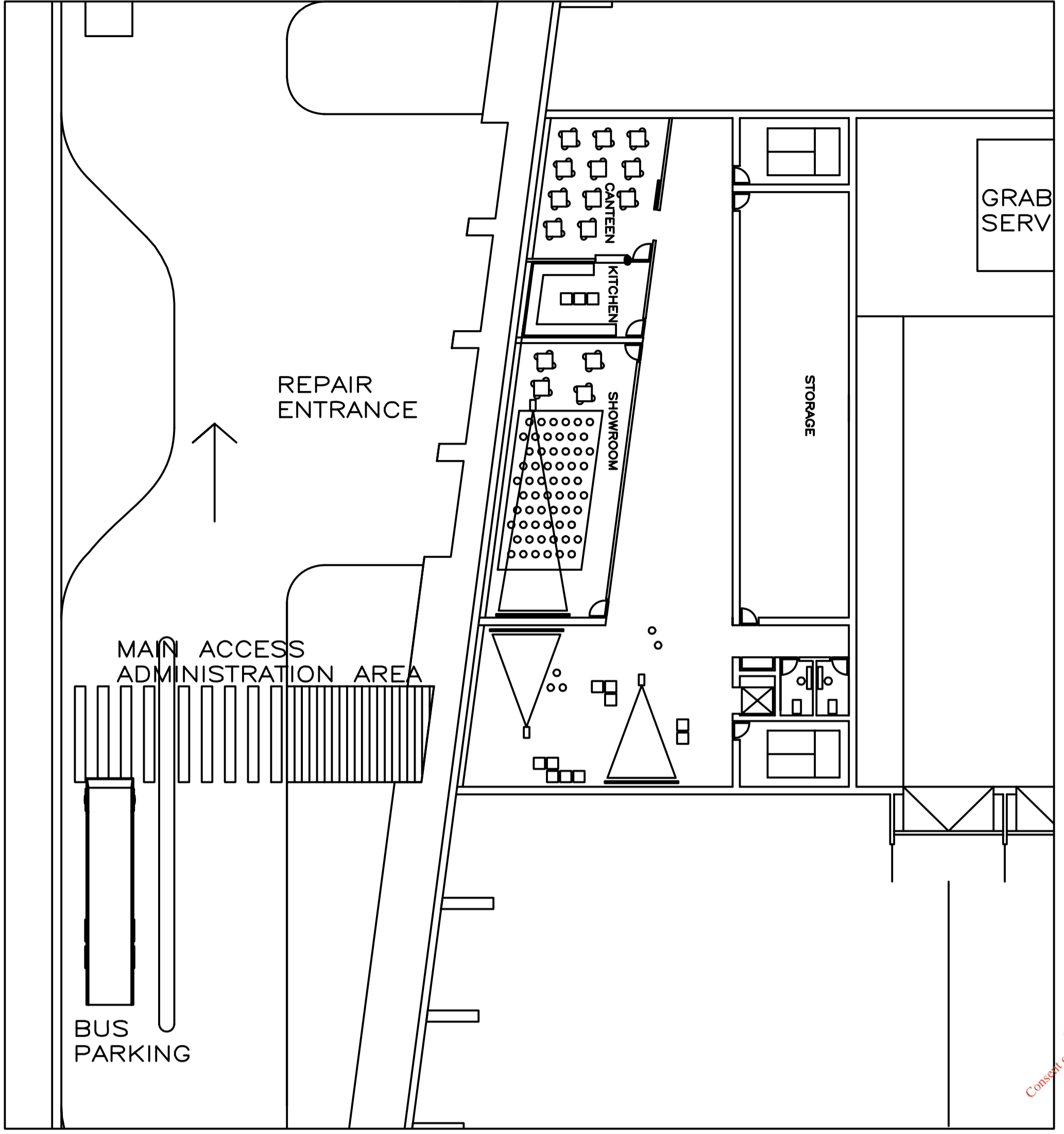
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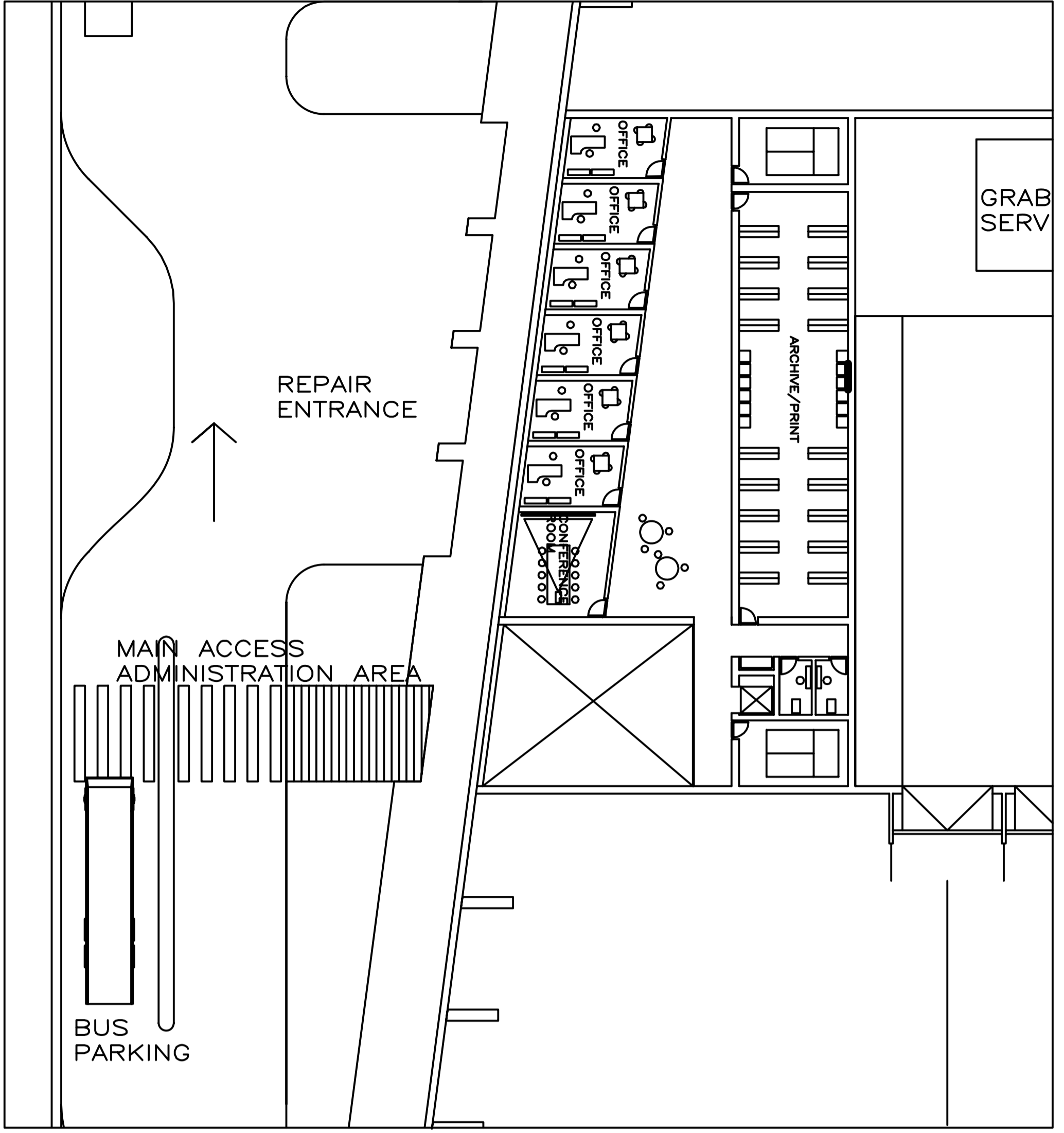
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NOTE:

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PRELIMINARY

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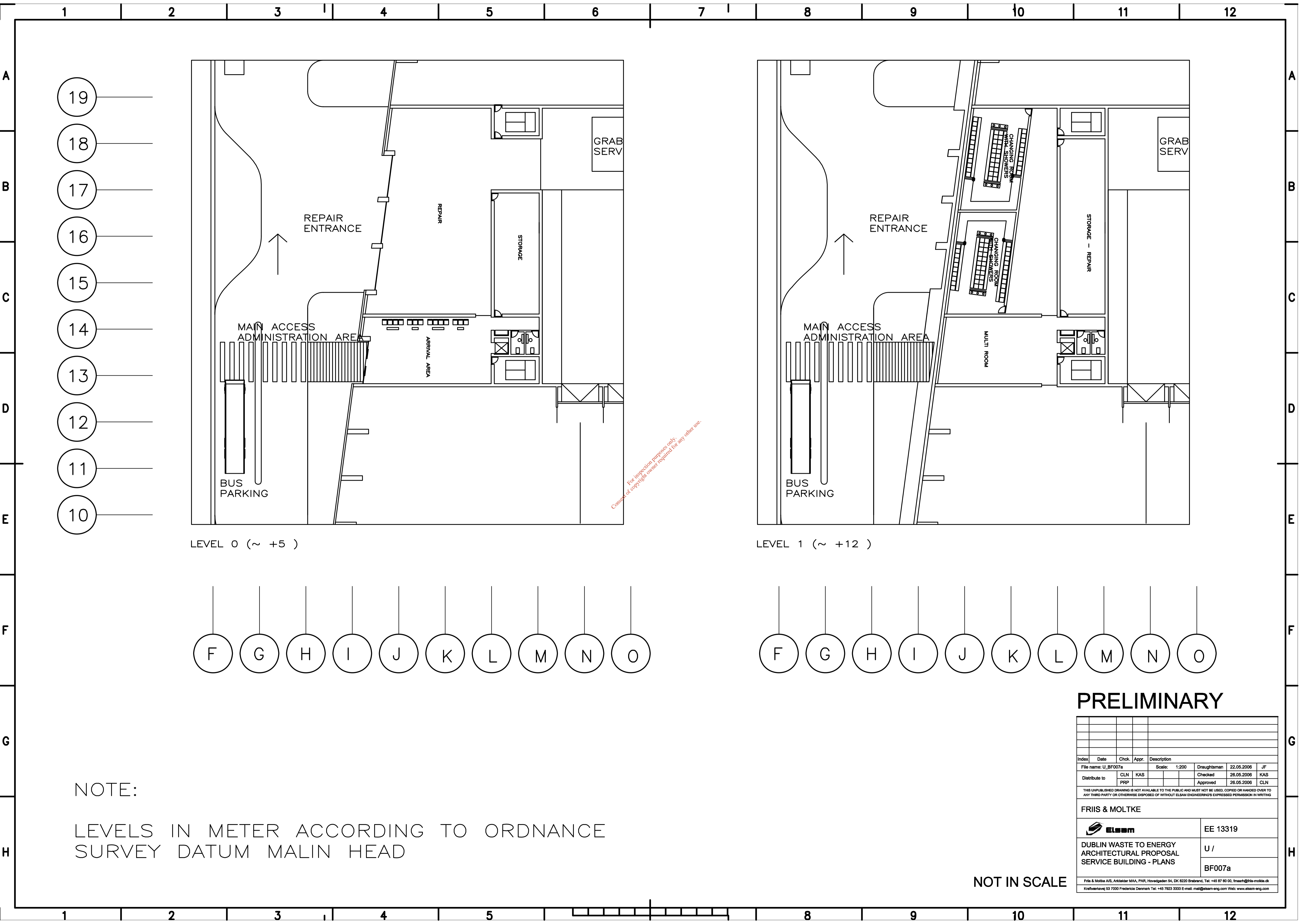
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U / BF006a

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LEVEL 0 (~ +5)

LEVEL 1 (~ +12)

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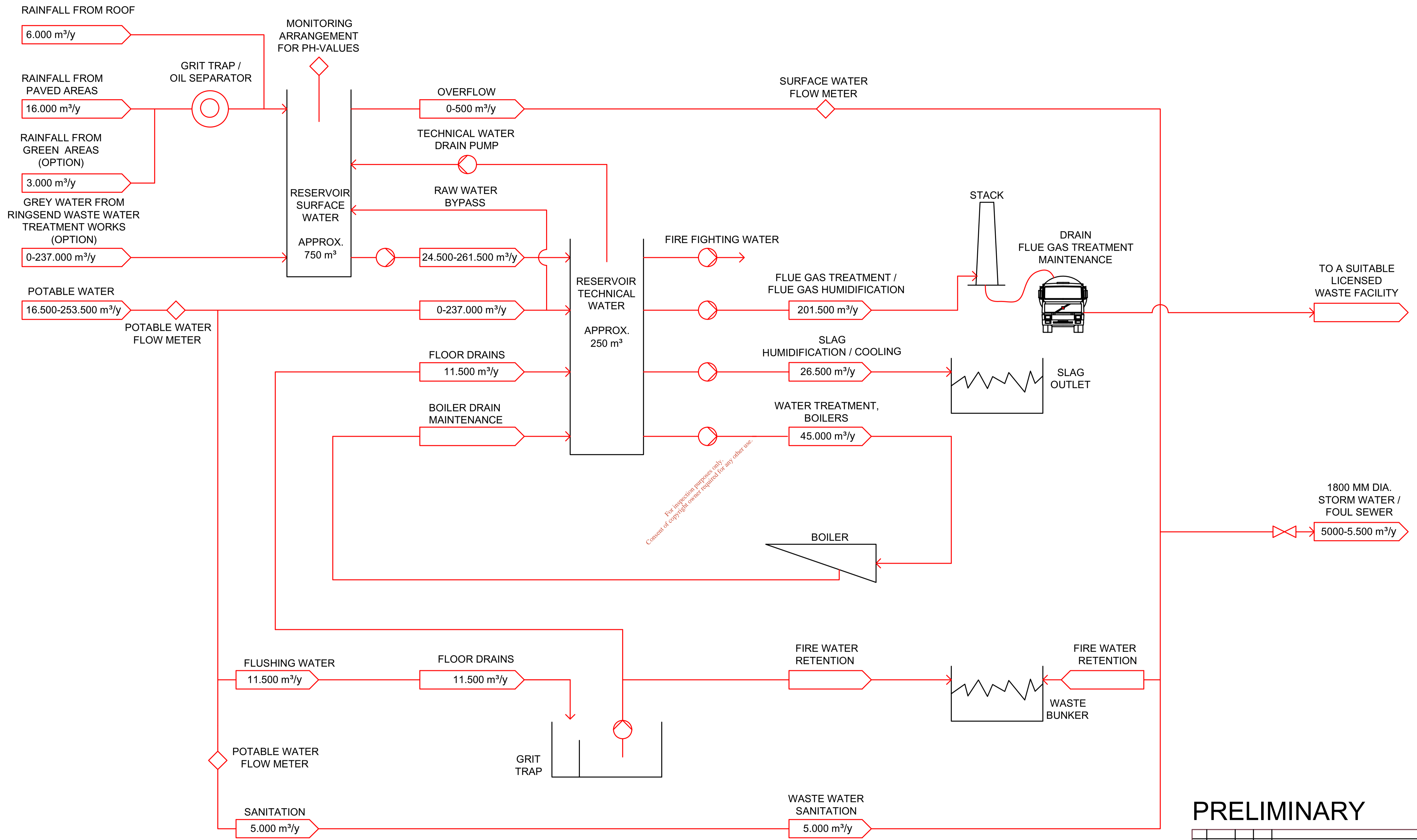
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				EE 13319
DUBLIN WASTE TO ENERGY ARCHITECTURAL PROPOSAL SERVICE BUILDING - PLANS				U / BF007a
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			MQ001 d	
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APPENDIX 2

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DUBLIN Waste to ENERGY

Selected images for photomontage
with a 70 mm lens

View from South West toward
The Dublin Waste to Energy

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Photomontages - technical Background

Photomontages location

Photomontages - view 7, 17, 18, 28, 29, 32, 33 & 36

Photomontages

Photography

All photographs were taken using a 50mm lens on a Hasselblad medium format camera. This lens has a horizontal field of vision of 57°. The camera height above ground was recorded along with the date and time the photograph was taken.

Reference points

The Poolbeg chimneys were used as primary reference points in the preparation of accurate photomontages. The plan position and level (Malin OD) of both chimneys was available in National Grid, and both chimneys were visible from all camera locations.

Survey Information

In most cases, the plan location of the camera was recorded using a Global Position System (GPS) working in National Grid. In the case of views closer to the site, the camera positions and levels were surveyed using a total station, and related back to the Ordnance Survey and/or the topographic survey of the site.

For each camera location, angular measurements were taken with a theodolite to a number of features visible from the camera position, including the two chimneys. For each view, the camera location was plotted and the camera level was calculated relative to the two chimneys, unless it had been recorded with a total station. The surveyed features as they appeared in the photograph were then marked on the photograph. The sight lines from the camera position to these features were then plotted, together with the outer edges of the field of vision. For each view, these sight lines were then taken and overlaid onto the map of the area, and positioned so as to align with the corresponding points on the map.

Photomontages Setup

The building and the surroundings are modelled in AutoCAD. For each photomontage location the collected data in 3d space are added to the model – the GPS camera position and angle and the reference points such as visible features and the two Poolbeg Generating Station Stacks. The file is then transferred to 3D Studio Max for final rendering with a virtual camera from the supplied references.

After final rendering the image is transferred into a corresponding Adobe Photoshop file “PSD” and fitted to the reference markers of the Poolbeg Generating Station Stacks and other relevant markers. The new building is then “masked out” in relation to elements in the foreground.

Presentation

Both the before and as proposed version of each view is provided/ As photography cannot present what the eye sees in reality, it is intended that the photomontages are used as a tool to aid visual assessment, and should be viewed on site and compared with the real scene.

Red outline in the Photomontage

Where the proposed WtE Facility is screened or obscured by foreground elements a red outline of the main structure has been provided so as to indicate its position within the view.

Lens Angles - detailed description

General

Photographs can be taken using a variety of cameras and lenses, yielding images, which range from wide angle to telephoto, or “panorama” to “zoomed in”. The perspective resulting in a photograph from any given vantage point will remain the same, irrespective of what camera and lens is used, assuming the camera is centered on the same point in each case.

The angle of coverage is determined by both the focal length of the lens and the format of the camera. A 50mm lens on 35mm Single Lens Reflex camera and a 50mm lens on a 2¼ square medium format camera will result in horizontal angles of coverage of 40° and 57° respectively.

The focal length of the lens will determine which portion of the overall image is captured on the photograph. For any given camera format, a longer focal length will result in a narrower angle of coverage, and a shorter focal length will result in a wider angle of coverage.

Photomontages

The images used for the preparation of photomontages for this project were taken using a Hasselblad 2¼ square medium format camera with a 50mm lens. Together, this combination results in a horizontal angle of coverage of 57°.

Revised Photomontages

An Bord Pleanála has requested the submission of photomontages based on photographs taken with a 70mm lens. It does not however specify what format of camera should be used.

- A 70mm lens on a 2¼ square medium format camera would yield a horizontal angle of coverage of approximately 40°.
- A 70mm lens on a more common 35mm Single Lens Reflex camera would yield a horizontal angle of coverage of 28.8°.

It has been assumed that the request refers to a 70mm lens on a 35mm SLR camera. The only difference between this and what was submitted is the angle of coverage, and the Figure 1 below shows the geometrical relationship between the two lens and camera configurations. By calculation, D1 will be 211% of D2.

In the planning application, the images using the 57° configuration were presented side by side (before and after) on an A3 page, where each image was c. 187mm wide. In the revised submission, the original images have been enlarged to 211% of the original printed size, and are now presented at 396mm width.

The portion of the images which corresponds to an angle of coverage of 28.8° (or that of a 70mm lens on a 35mm SLR camera) is indicated by a black line. Coincidentally, this area measures 187mm in width – the same size as the images originally submitted.

As such, an observer can choose either the 70mm lens configuration as requested (by covering the area outside the black line), or consider this portion of the image in its wider context by viewing the overall image.

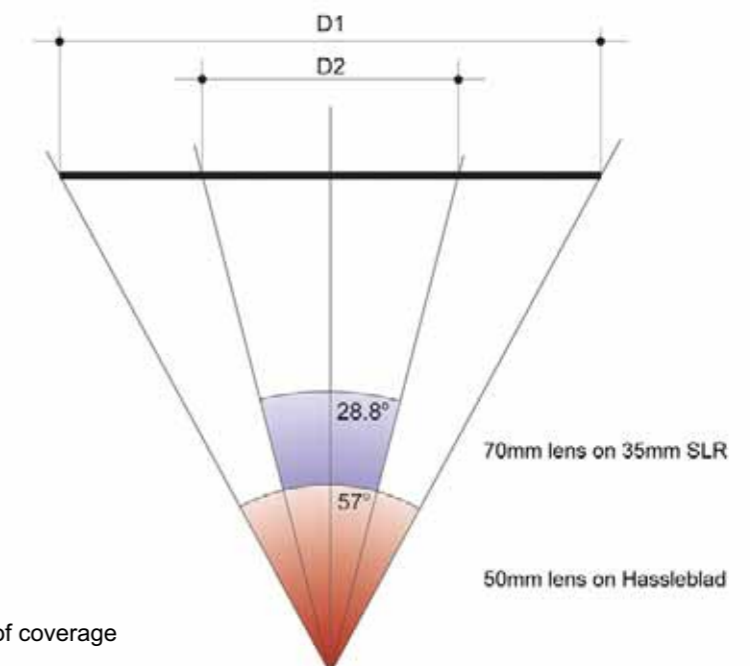
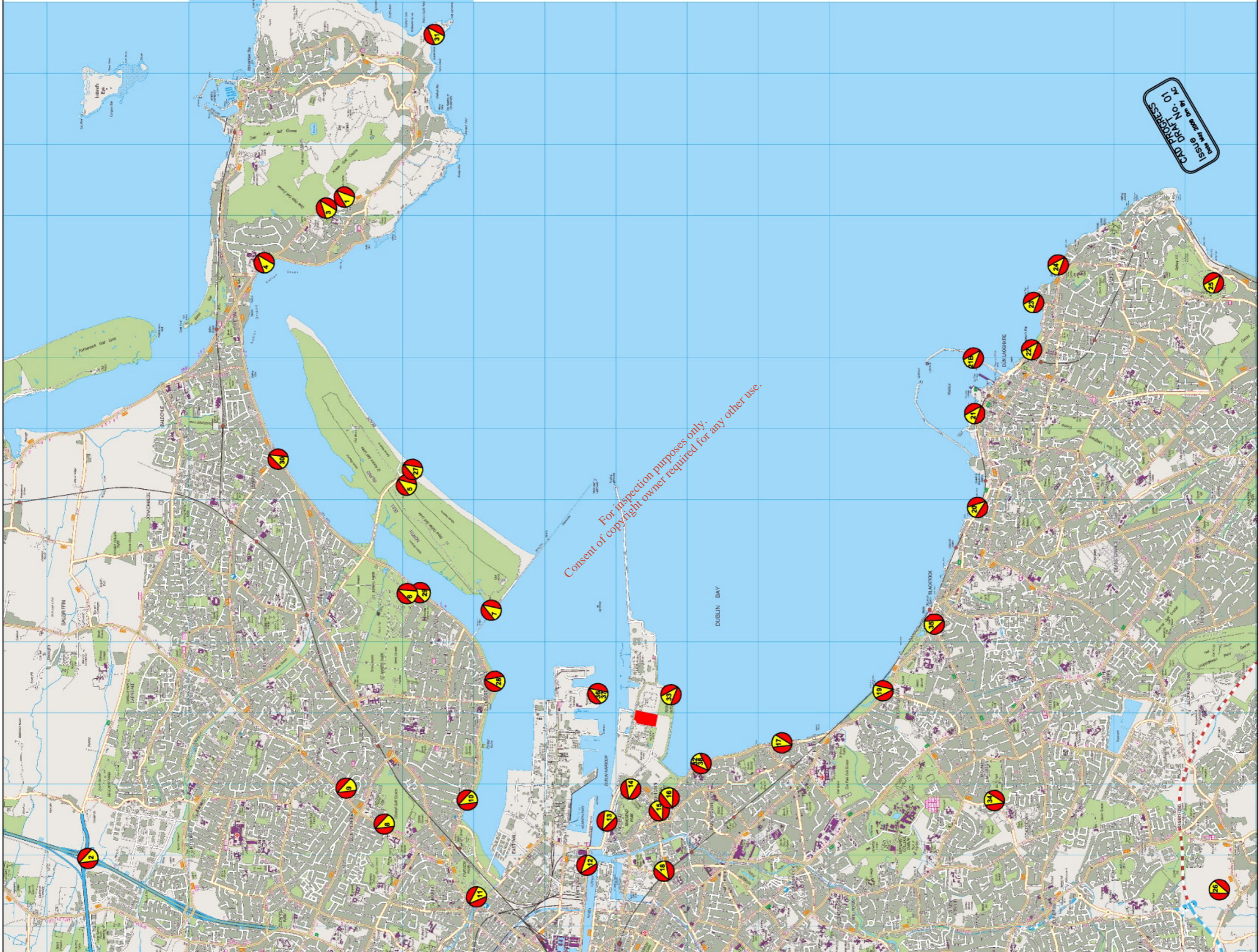


Figure 1: Comparison of horizontal angles of coverage for different lens/camera configurations



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PHOTOMONTAGES LOCATION

Working Draft

Revision 1

Viewpoint 7 – North Bull Wall - As existing



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Inset shows the coverage from the same vantage point using a 70 mm lens on a 35 mm camera, which has a horizontal angle of coverage of 28.8 degrees.

Full image taken using a 50 mm lens on a Hassleblad medium format camera, which has a horizontal angle of coverage of 57 degrees.

57°

50°

40°

ANGLE OF VISION SCALE

40°

50°

57°

Viewpoint 7 – North Bull Wall - As proposed



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Inset shows the coverage from the same vantage point using a 70 mm lens on a 35 mm camera, which has a horizontal angle of coverage of 28.8 degrees.

Full image taken using a 50 mm lens on a Hassleblad medium format camera, which has a horizontal angle of coverage of 57 degrees.

57°

50°

40°

ANGLE OF VISION SCALE

40°

50°

57°

Viewpoint 17 - Sandymount Strand - As existing



For inspection purposes only.
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Inset shows the coverage from the same vantage point using a 70 mm lens on a 35 mm camera, which has a horizontal angle of coverage of 28.8 degrees.

Full image taken using a 50 mm lens on a Hassleblad medium format camera, which has a horizontal angle of coverage of 57 degrees.

57° | 50° | 40° | ANGLE OF VISION SCALE | 40° | 50° | 57°

Viewpoint 17 - Sandymount Strand - As proposed



For inspection purposes only.
Consent of copyright owner required for any other use.

Inset shows the coverage from the same vantage point using a 70 mm lens on a 35 mm camera, which has a horizontal angle of coverage of 28.8 degrees.

Full image taken using a 50 mm lens on a Hassleblad medium format camera, which has a horizontal angle of coverage of 57 degrees.

57° | 50° | 40° | ANGLE OF VISION SCALE | 40° | 50° | 57°

Viewpoint 18 - Bath Avenue, Irishtown - as existing



Consent of the copyright owner required for any other use.

Inset shows the coverage from the same vantage point using a 70 mm lens on a 35 mm camera, which has a horizontal angle of coverage of 28.8 degrees.

Full image taken using a 50 mm lens on a Hassleblad medium format camera, which has a horizontal angle of coverage of 57 degrees.

57° | 50° | 40° | ANGLE OF VISION SCALE | 40° | 50° | 57°

Viewpoint 18 - Bath Avenue, Irishtown - As proposed



Consent of the copyright owner is required for any other use.

Inset shows the coverage from the same vantage point using a 70 mm lens on a 35 mm camera, which has a horizontal angle of coverage of 28.8 degrees.

Full image taken using a 50 mm lens on a Hassleblad medium format camera, which has a horizontal angle of coverage of 57 degrees.

57° | 50° | 40° | ANGLE OF VISION SCALE | 40° | 50° | 57°

Viewpoint 28 – Clontarf Road, Clontarf Yacht Club - As existing



*For inspection purposes only.
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Inset shows the coverage from the same vantage point using a 70 mm lens on a 35 mm camera, which has a horizontal angle of coverage of 28.8 degrees.

Full image taken using a 50 mm lens on a Hassleblad medium format camera, which has a horizontal angle of coverage of 57 degrees.

57° | 50° | 40° | ANGLE OF VISION SCALE | 40° | 50° | 57°

Viewpoint 28 – Clontarf Road, Clontarf Yacht Club - As proposed



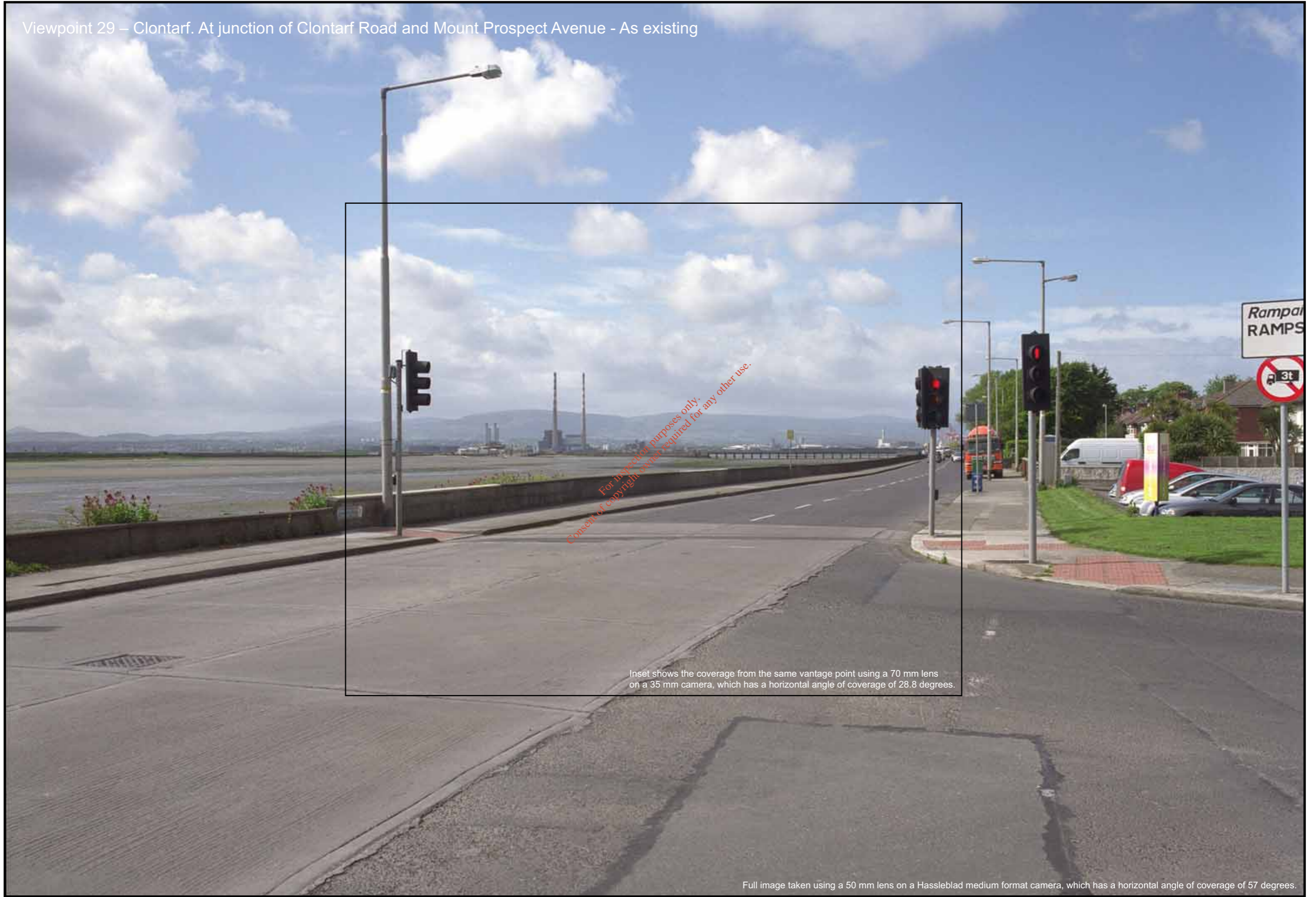
*For inspection purposes only.
Consent of copyright owner required for any other use.*

Inset shows the coverage from the same vantage point using a 70 mm lens on a 35 mm camera, which has a horizontal angle of coverage of 28.8 degrees.

Full image taken using a 50 mm lens on a Hassleblad medium format camera, which has a horizontal angle of coverage of 57 degrees.

57° | 50° | 40° | ANGLE OF VISION SCALE | 40° | 50° | 57°

Viewpoint 29 – Clontarf. At junction of Clontarf Road and Mount Prospect Avenue - As existing



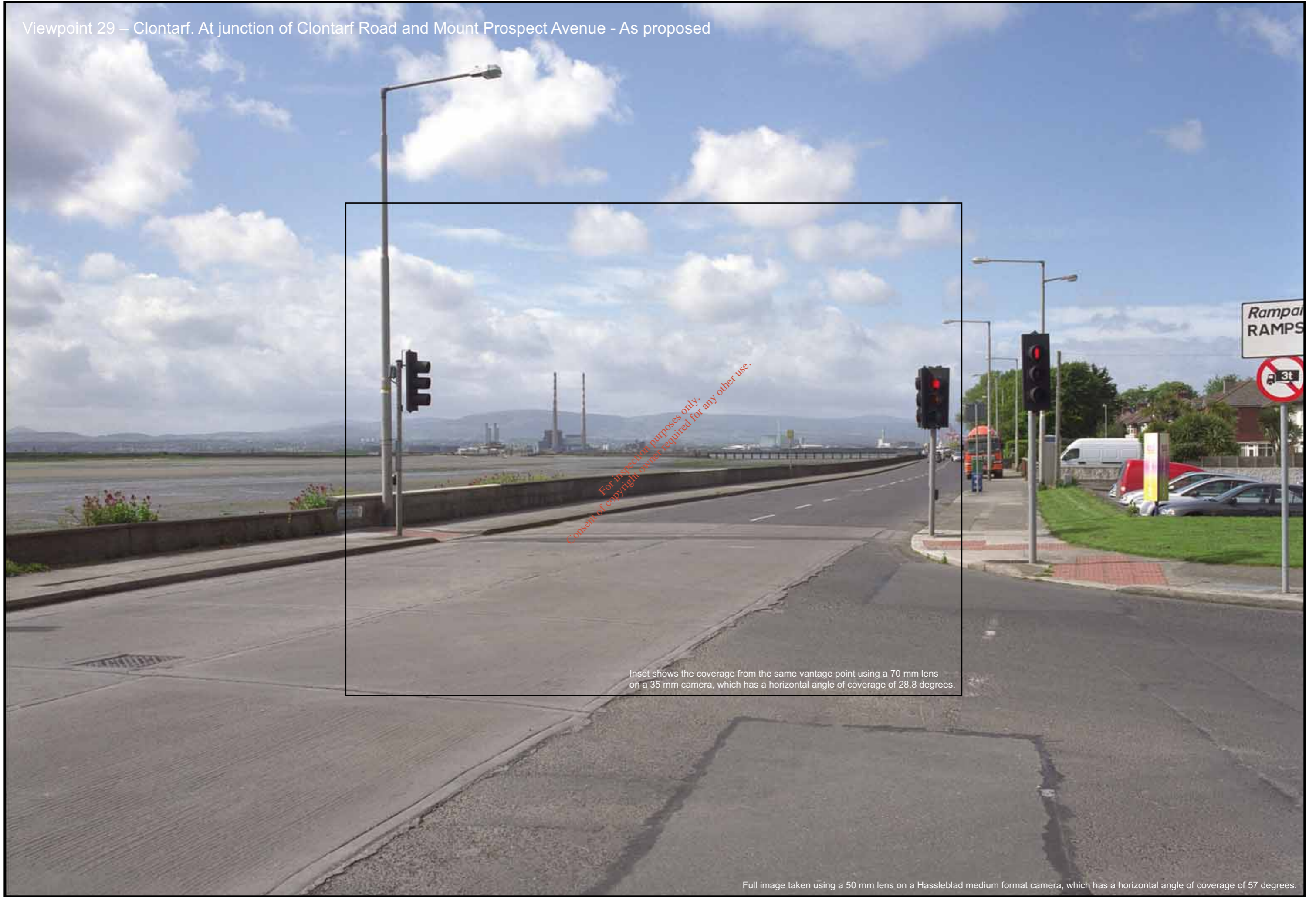
*For inspection purposes only.
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Inset shows the coverage from the same vantage point using a 70 mm lens on a 35 mm camera, which has a horizontal angle of coverage of 28.8 degrees.

Full image taken using a 50 mm lens on a Hassleblad medium format camera, which has a horizontal angle of coverage of 57 degrees.

57° | 50° | 40° | ANGLE OF VISION SCALE | 40° | 50° | 57°

Viewpoint 29 – Clontarf. At junction of Clontarf Road and Mount Prospect Avenue - As proposed



*For inspection purposes only.
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Inset shows the coverage from the same vantage point using a 70 mm lens on a 35 mm camera, which has a horizontal angle of coverage of 28.8 degrees.

Full image taken using a 50 mm lens on a Hassleblad medium format camera, which has a horizontal angle of coverage of 57 degrees.

57° | 50° | 40° | ANGLE OF VISION SCALE | 40° | 50° | 57°

Viewpoint 32 – Sandymount Strand (Roslin Park College) Day-time - As existing



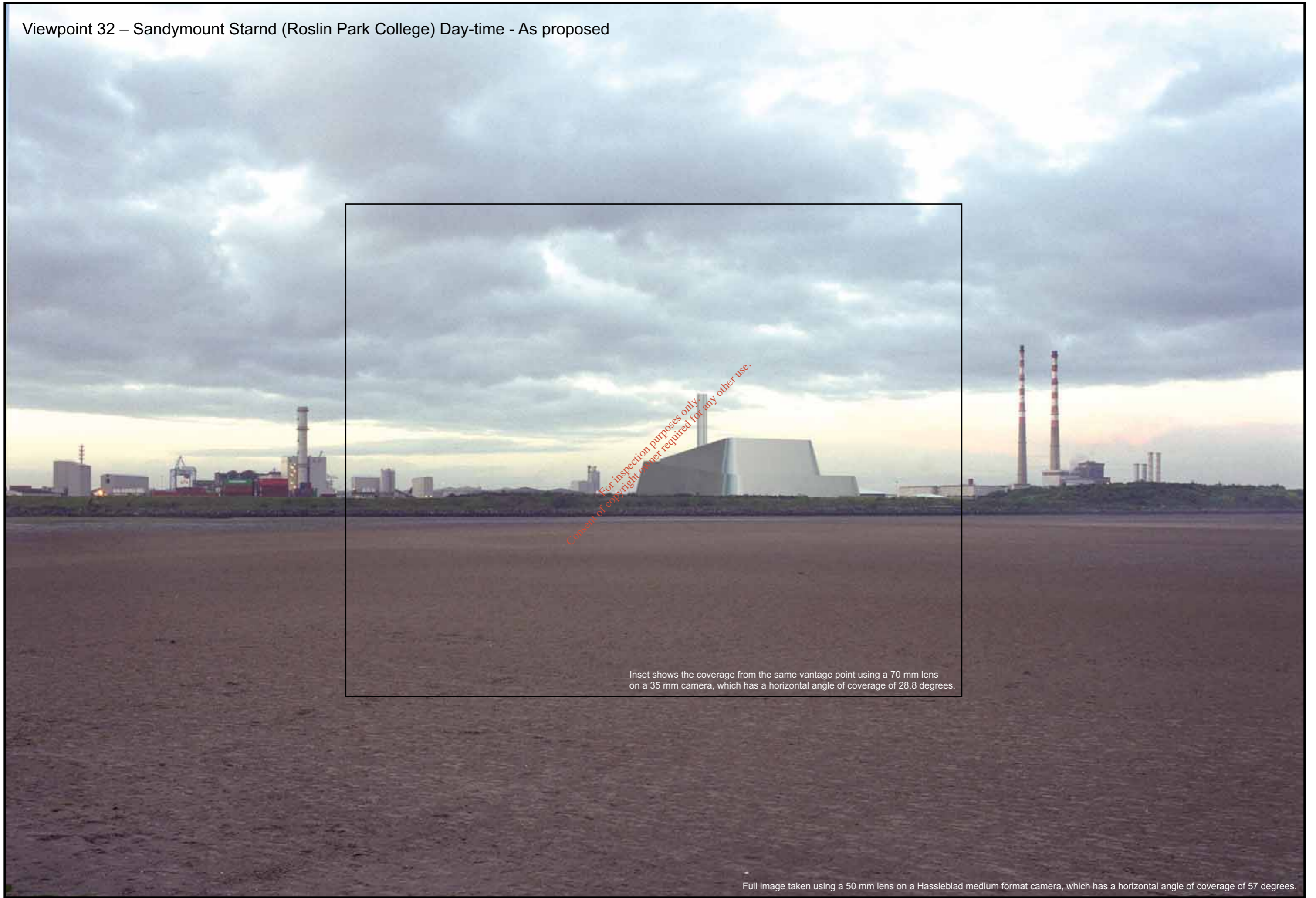
For inspection purposes only.
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Inset shows the coverage from the same vantage point using a 70 mm lens on a 35 mm camera, which has a horizontal angle of coverage of 28.8 degrees.

Full image taken using a 50 mm lens on a Hassleblad medium format camera, which has a horizontal angle of coverage of 57 degrees.

57° | 50° | 40° | ANGLE OF VISION SCALE | 40° | 50° | 57°

Viewpoint 32 – Sandymount Strand (Roslin Park College) Day-time - As proposed



For inspection purposes only.
Consent of copyright owner required for any other use.

Inset shows the coverage from the same vantage point using a 70 mm lens on a 35 mm camera, which has a horizontal angle of coverage of 28.8 degrees.

Full image taken using a 50 mm lens on a Hassleblad medium format camera, which has a horizontal angle of coverage of 57 degrees.

57° | 50° | 40° | ANGLE OF VISION SCALE | 40° | 50° | 57°

Viewpoint 33 – Irishtown Nature Park - As existing



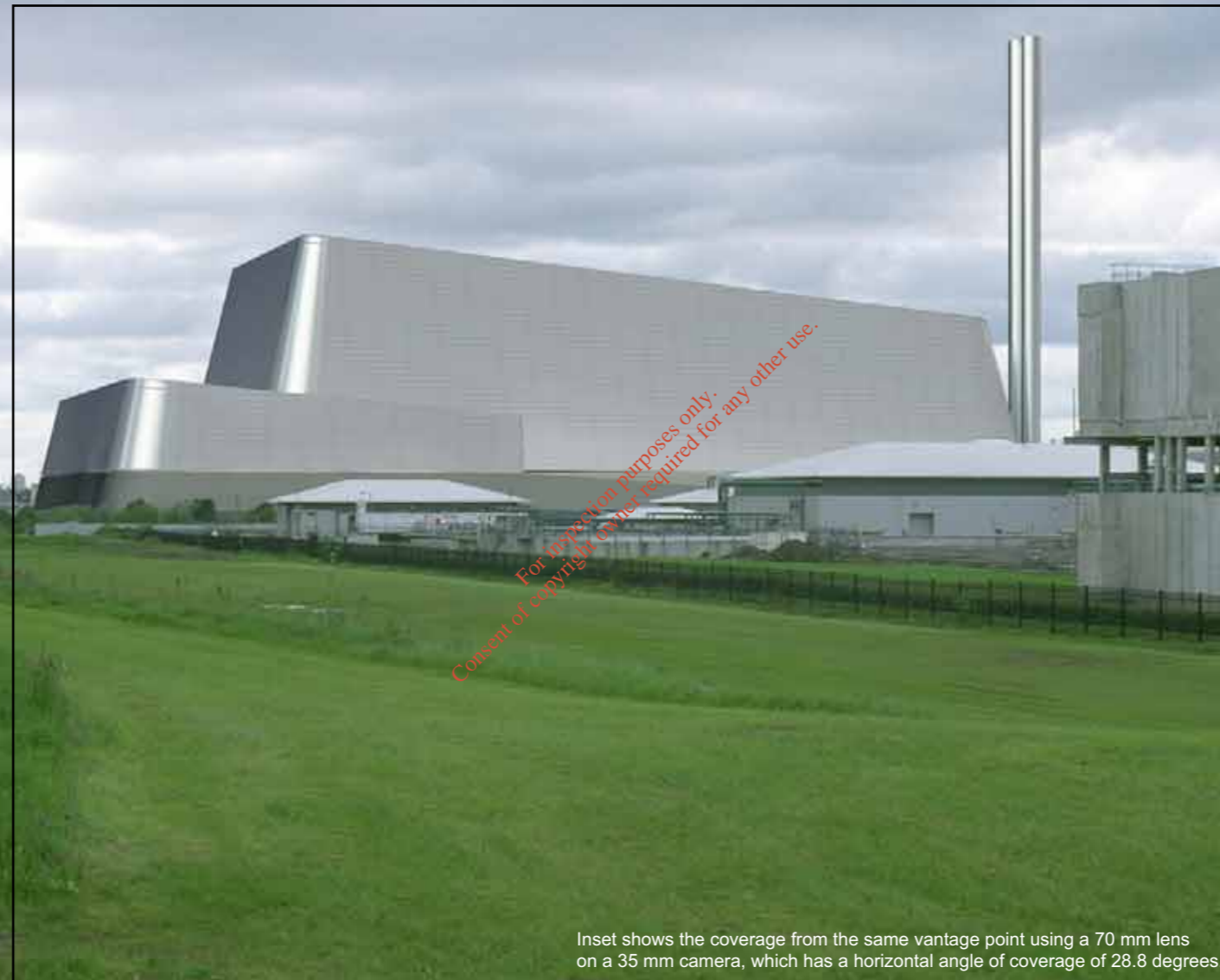
For information purposes only.
Consent of copyright owner required for any other use.

Inset shows the coverage from the same vantage point using a 70 mm lens on a 35 mm camera, which has a horizontal angle of coverage of 28.8 degrees.

Full image taken using a 50 mm lens on a Hassleblad medium format camera, which has a horizontal angle of coverage of 57 degrees.

57° | 50° | 40° | ANGLE OF VISION SCALE | 40° | 50° | 57°

Viewpoint 33 – Irishtown Nature Park - As proposed



Inset shows the coverage from the same vantage point using a 70 mm lens on a 35 mm camera, which has a horizontal angle of coverage of 28.8 degrees.

Full image taken using a 50 mm lens on a Hassleblad medium format camera, which has a horizontal angle of coverage of 57 degrees.

57°

50°

40°

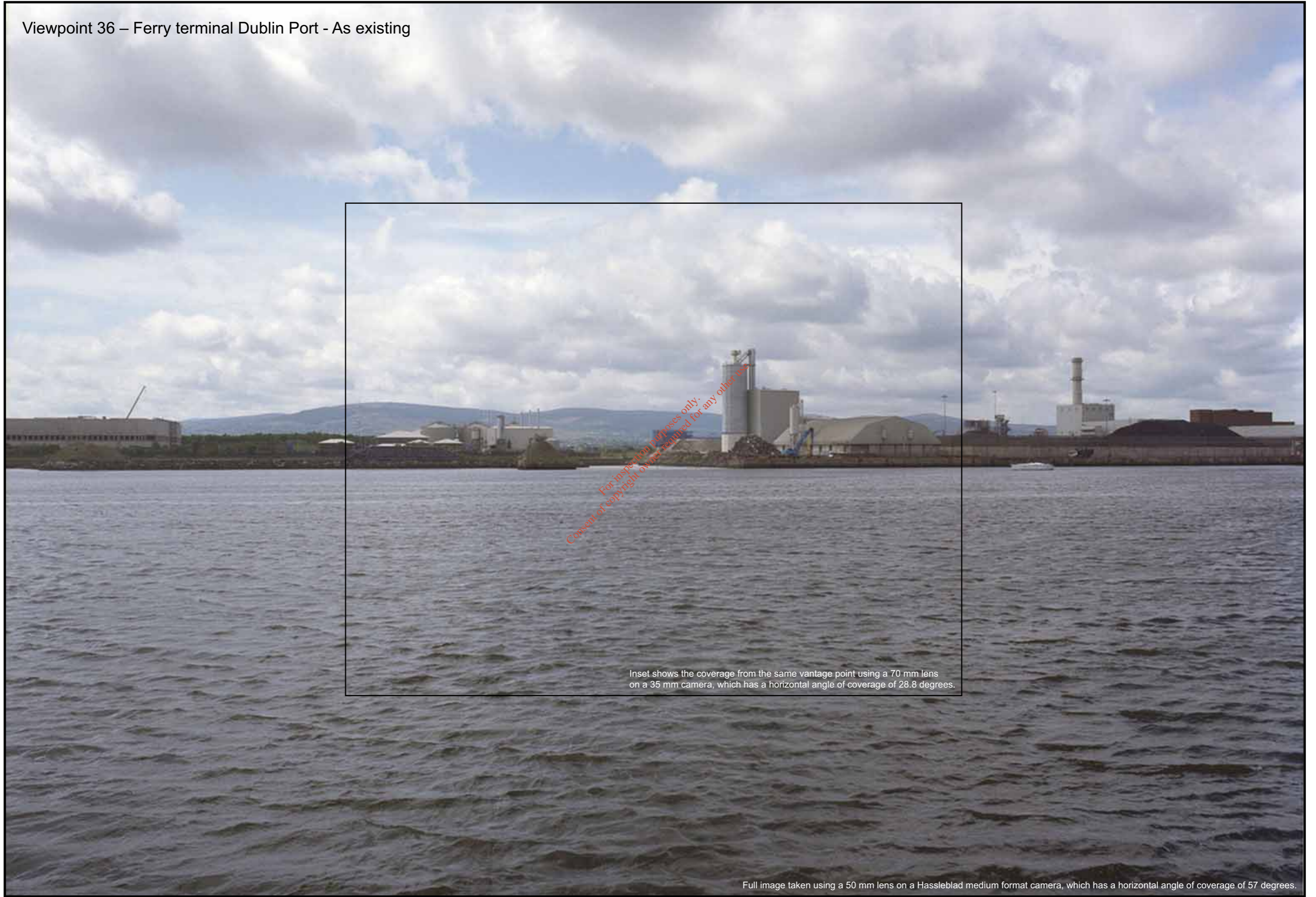
ANGLE OF VISION SCALE

40°

50°

57°

Viewpoint 36 – Ferry terminal Dublin Port - As existing



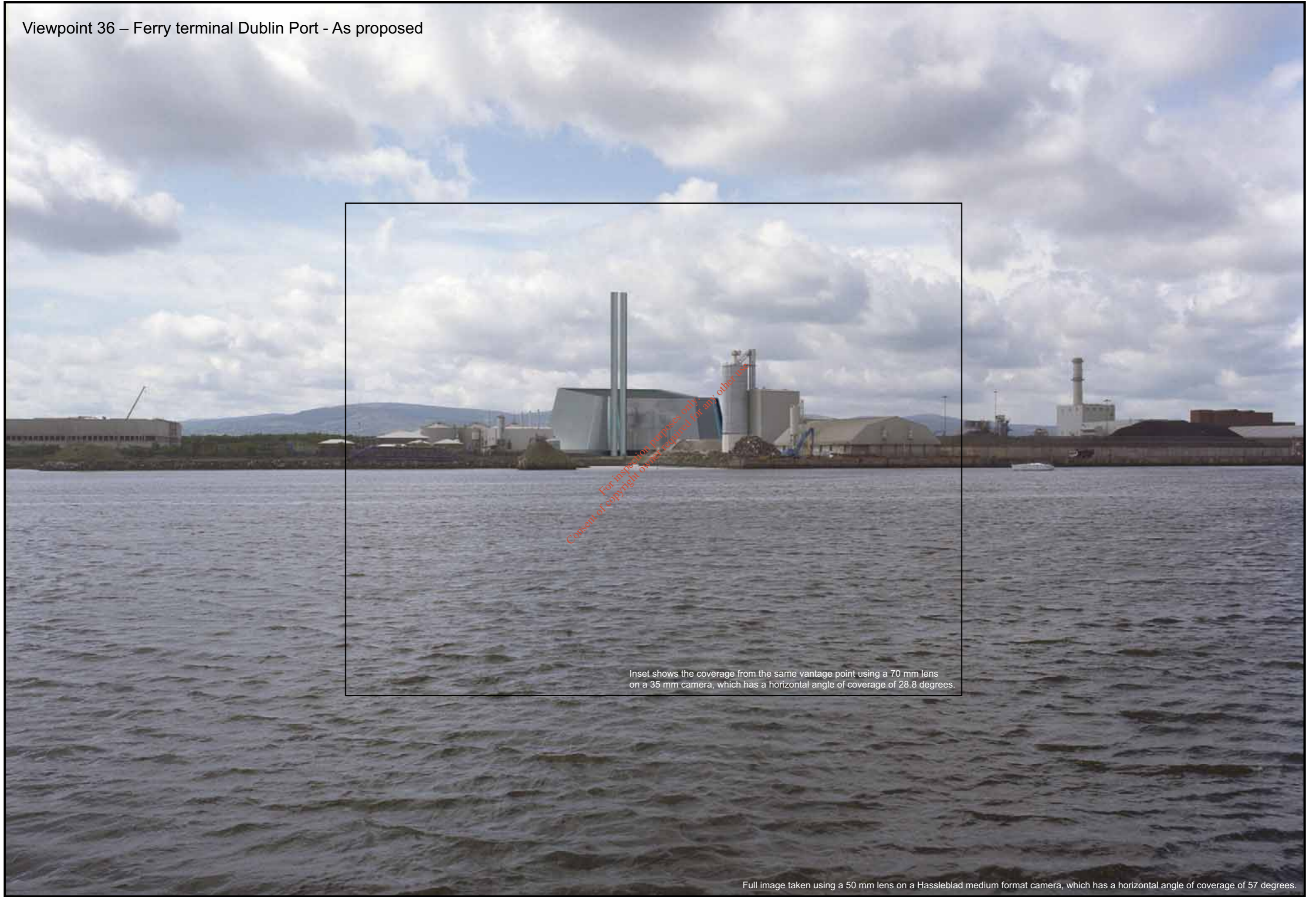
For inspection purposes only.
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Inset shows the coverage from the same vantage point using a 70 mm lens on a 35 mm camera, which has a horizontal angle of coverage of 28.8 degrees.

Full image taken using a 50 mm lens on a Hassleblad medium format camera, which has a horizontal angle of coverage of 57 degrees.

57° | 50° | 40° | ANGLE OF VISION SCALE | 40° | 50° | 57°

Viewpoint 36 – Ferry terminal Dublin Port - As proposed



For inspection purposes only.
Consent of copyright owner required for any other use.

Inset shows the coverage from the same vantage point using a 70 mm lens on a 35 mm camera, which has a horizontal angle of coverage of 28.8 degrees.

Full image taken using a 50 mm lens on a Hassleblad medium format camera, which has a horizontal angle of coverage of 57 degrees.

57° | 50° | 40° | ANGLE OF VISION SCALE | 40° | 50° | 57°