

The Keadby 3 Low Carbon Gas Power Station Project

Document Ref: 4.7

Planning Inspectorate Ref: EN010114

The Keadby 3 (Carbon Capture Equipped Gas Fired Generating Station) Order

Land at and in the vicinity of the Keadby Power Station site, Trentside, Keadby, North Lincolnshire

Indicative Proposed Power and Carbon Capture Layout, Elevations and Sections

The Planning Act 2008

The Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009 - Regulation 5(2)(o)

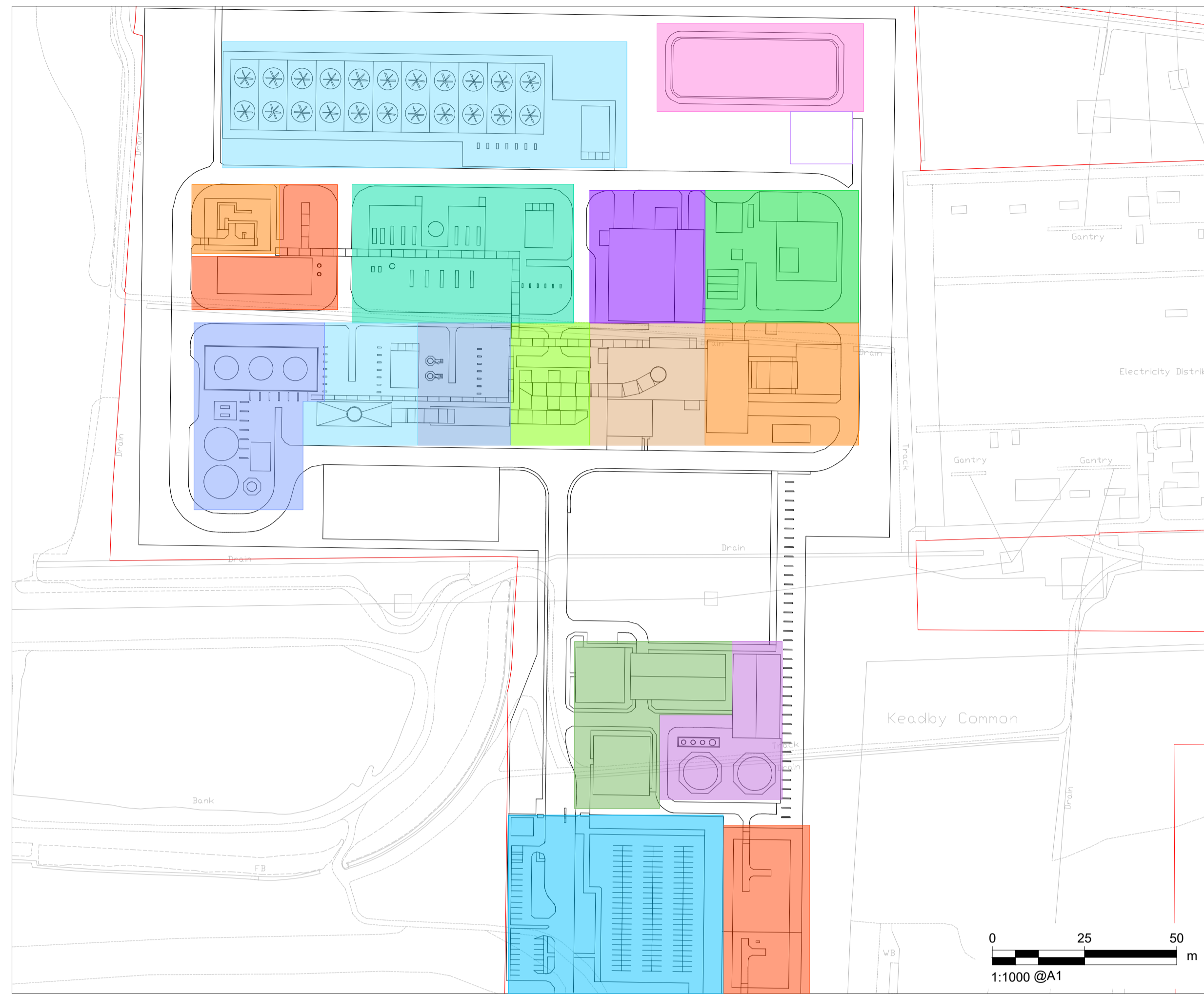
Applicant: Keadby Generation Limited

Date: May 2021

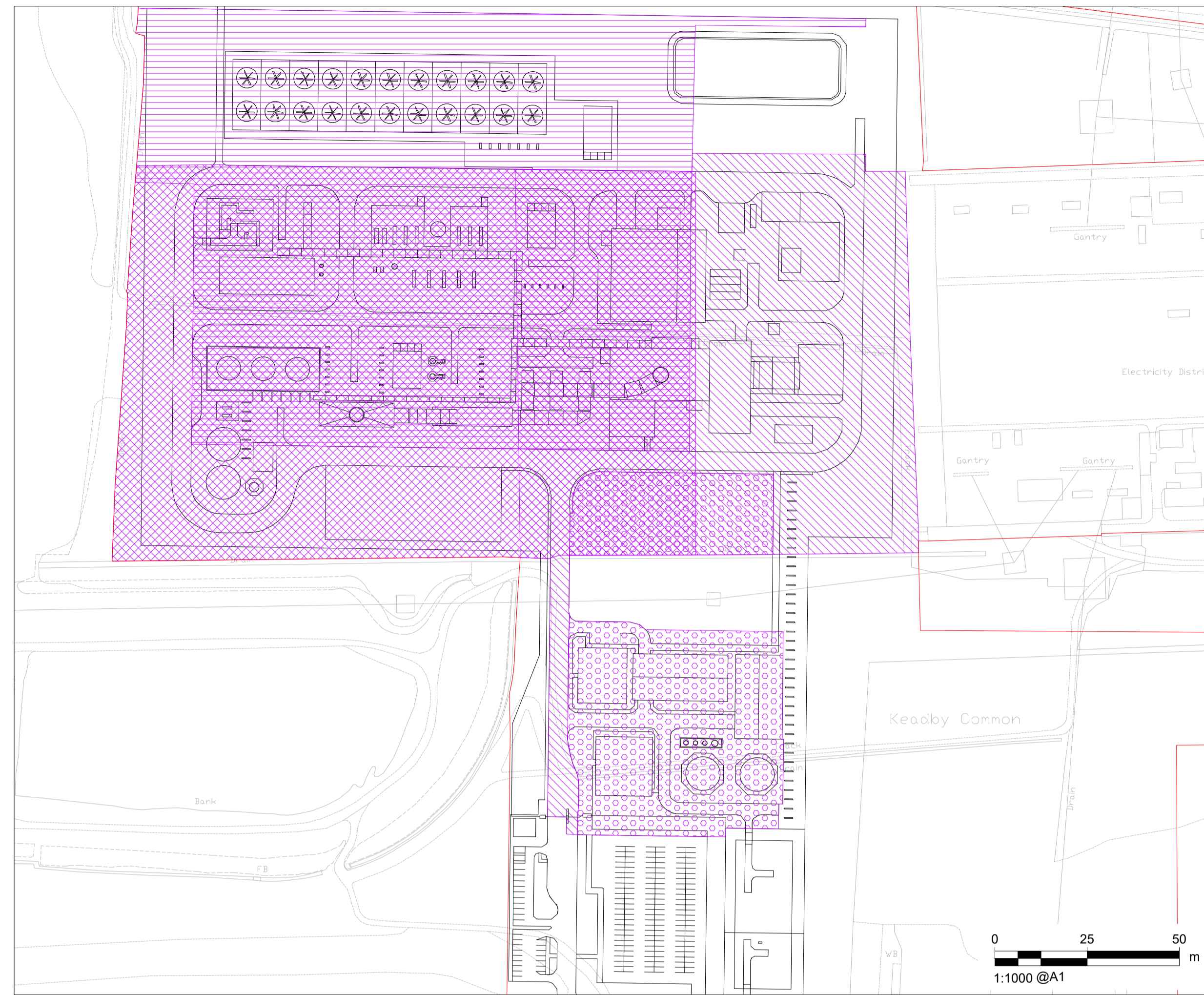
DOCUMENT HISTORY

Document Ref	4.7/Indicative Proposed Power and Carbon Capture Layout, Elevations and Sections
Revision	VP1.0
Document Owner	AECOM

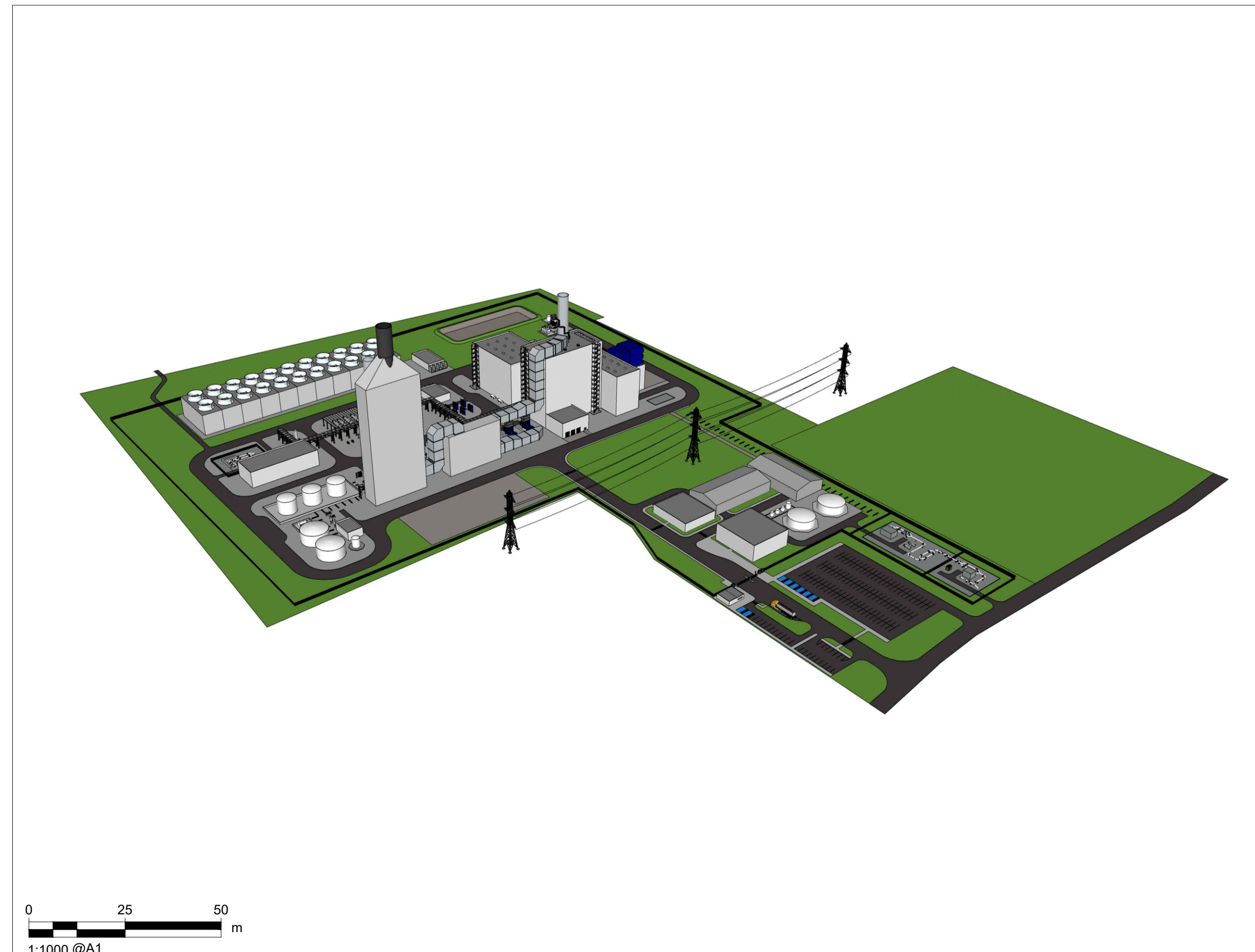
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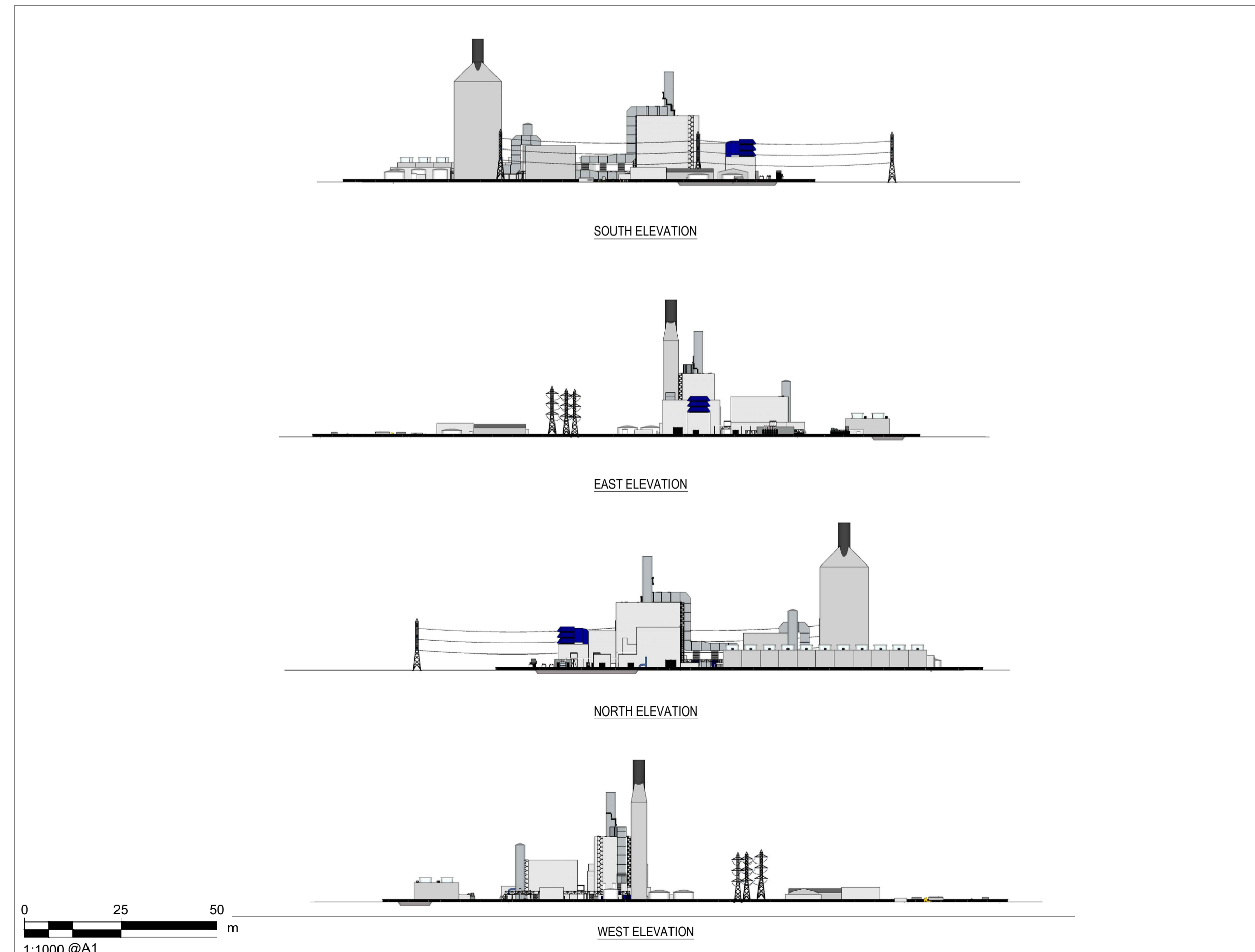
SHEET 2 OF 5 - LAYOUT VIEW



SHEET 3 OF 5 - LAYOUT VIEW



SHEET 4 OF 5 - 3D AERIAL VIEW



SHEET 5 OF 5 - ELEVATIONS VIEW

PROJECT

The Keadby 3 (Carbon Capture Equipped Gas Fired Generating Station) Order



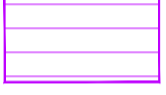


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LEGEND

-  THE ORDER LIMITS
- Works Plan:
 -  WORK NO. 1A CCGT PLANT
 -  WORK NO. 1B CCGT COOLING INFRASTRUCTURE
 -  WORK NO. 1C CARBON CAPTURE PLANT
 -  WORK NO. 1E GENERATING STATION SUPPORTING USES

NOTES

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The Keadby 3 (Carbon Capture Equipped Gas Fired Generating Station) Order
Regulation 5(2)(o) - Infrastructure Planning (Applications: Prescribed Forms and Procedures) Regulations 2009

ISSUE PURPOSE

DCO APPLICATION

PROJECT NUMBER

60625943

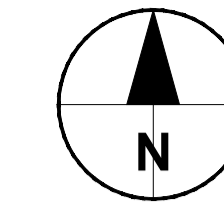
SHEET TITLE

Indicative Proposed Power and Carbon Capture Layout and Elevations/Section Plans
Sheet 1 of 5 - Key Plan

SHEET NUMBER

Application Document Ref. 4.7
60625943-PE-DRG-001

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#	Area
A	Natural Gas Receiving Area
B	Gas Turbine and Auxiliaries
C	HRSG and Auxiliaries
D	Steam Turbine and Auxiliaries
E	Power Island Electrical Equipment
F	Flue Gas Fans and Ducting
G	Flue Gas Cooling
H	Absorber
I	Stripping and Reclaiming
J	Storage and offsites
K	Compression and Dehydration
L	National Grid CO2 AGI
M	Cooling Towers
N	Gate house, security and parking
O	Admin, control room and stores buildings
P	Raw water treatment
Q	Attenuation pond

NOTES
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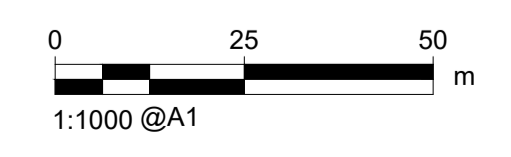
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SHEET TITLE
 Indicative Proposed Power and Carbon Capture Layout and Elevations/Section Plans
 Sheet 2 of 5 - Layout View

SHEET NUMBER
 Application Document Ref. 4.7
 60625943-PE-DRG-002



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- THE ORDER LIMITS
- Works Plan:
 - WORK NO. 1A CCGT PLANT
 - WORK NO. 1B CCGT COOLING INFRASTRUCTURE
 - WORK NO. 1C CARBON CAPTURE PLANT
 - WORK NO. 1E GENERATING STATION SUPPORTING USES

ITEM DESCRIPTION	
WORK 1A - CCGT PLANT	
1.	FUEL GAS CONDITIONING PACKAGE
2.	GAS TURBINE HALL
3.	HRSG BUILDING
4.	STEAM TURBINE HALL
5.	STEAM TURBINE INSTRUMENT BUILDING
6.	TRANSFORMER YARD
7.	EMERGENCY DIESEL GENERATOR
8.	POWER ISLAND AUXILIARY BUILDING
9.	FLUE GAS BOOSTER FAN
WORK 1B - CCGT COOLING INFRASTRUCTURE	
10.	COOLING TOWER
11.	COOLING TOWER PUMPS
12.	COOLING TOWER AREA ELECTRICAL AND INSTRUMENT BUILDING
13.	RETENTION POND
WORK 1C - CARBON CAPTURE PLANT	
14.	DIRECT CONTACT COOLER
15.	DIRECT CONTACT COOLER CIRCULATING WATER COOLER
16.	DIRECT CONTACT COOLER BD AIR STRIPPER
17.	ABSORBER
18.	LEAN/RICH AMINE INTERCHANGER
19.	ABSORBER AREA ELECTRICAL AND INSTRUMENT BUILDING
20.	CO2 STRIPPER
21.	CO2 STRIPPER CONDENSER
22.	CO2 STRIPPER REFLUX DRUM
23.	CO2 STRIPPER REBOILER
24.	THERMAL RECLAIMER
25.	CO2 STRIPPER AREA ELECTRICAL AND INSTRUMENT BUILDING
26.	AMINE STORAGE TANK
27.	CO2 COMPRESSOR LP STAGE
28.	CO2 DE-OXYGENATION PACKAGE
29.	CO2 DEHYDRATION PACKAGE
30.	CO2 COMPRESSOR HP STAGE
31.	NATIONAL GRID AGI - CO2 EXPORT
32.	FIRE WATER TANK
33.	FIRE WATER PUMP BUILDING
34.	DEMIN WATER TANK
WORK 1E - GENERATING STATION SUPPORTING USES	
35.	ADMIN BUILDING
36.	CONTROL ROOM
37.	STORES BUILDING
38.	WATER TREATMENT BUILDING
39.	RAW WATER BALANCING TANK
40.	TREATED WATER TANK
OTHER PLANT AREAS	
41.	NATIONAL GRID AGI - NATURAL GAS
42.	SSE AGI - NATURAL GAS
43.	GUARD HOUSE
44.	MAIN CAR PARK
45.	VISITOR CAR PARK
46.	OVERFLOW CAR PARK

NOTES

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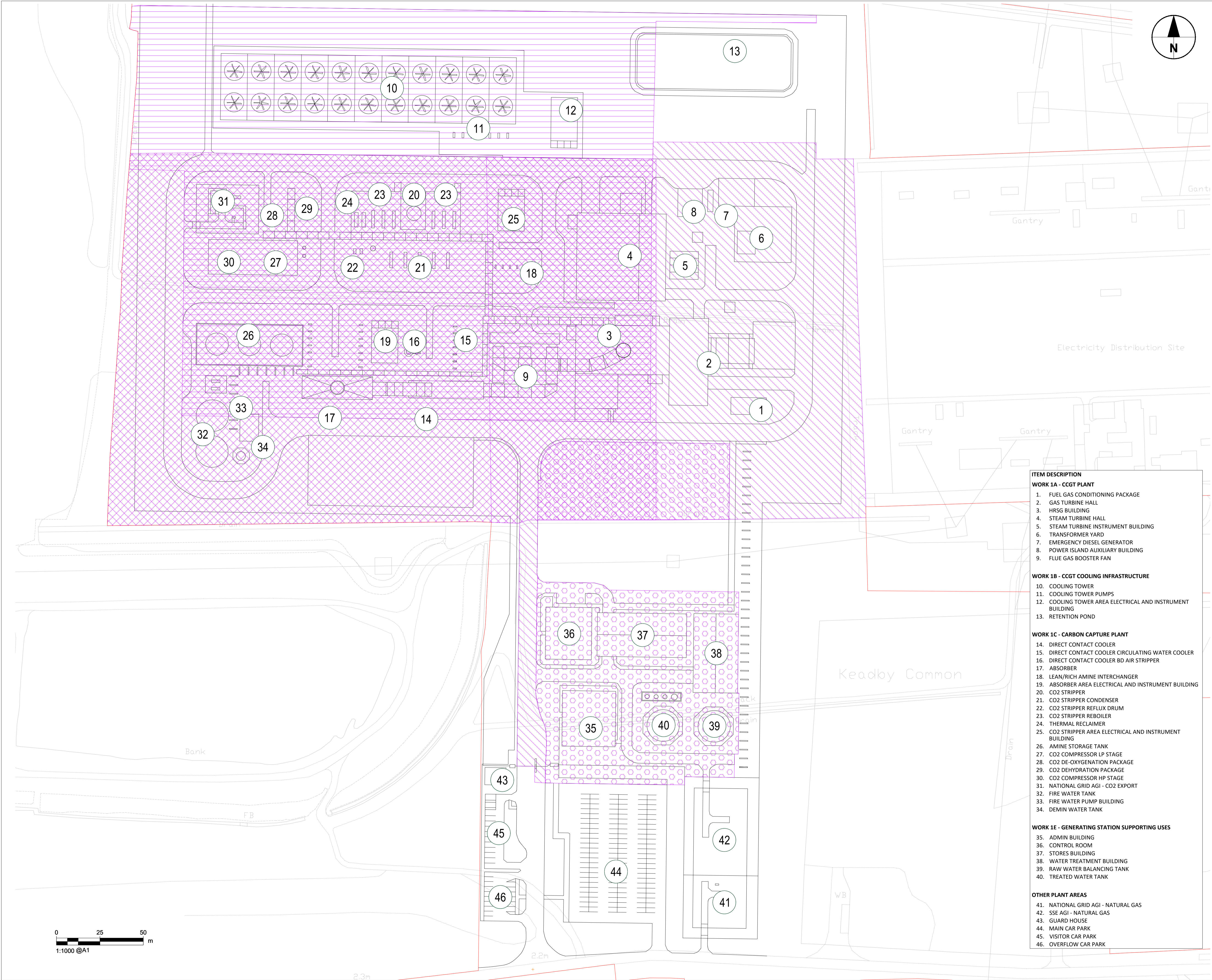
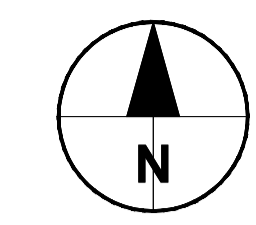
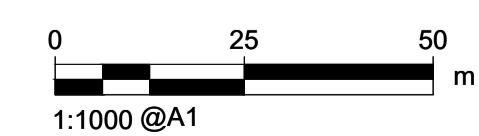
Indicative Proposed Power and Carbon Capture Layout and Elevations/Section Plans
Sheet 3 of 5 - Layout View

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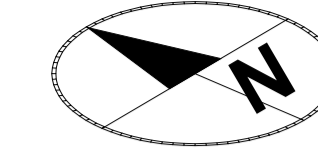
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Project Management Initials: Designer: _____ Checked: _____ Approved: _____

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LEGEND

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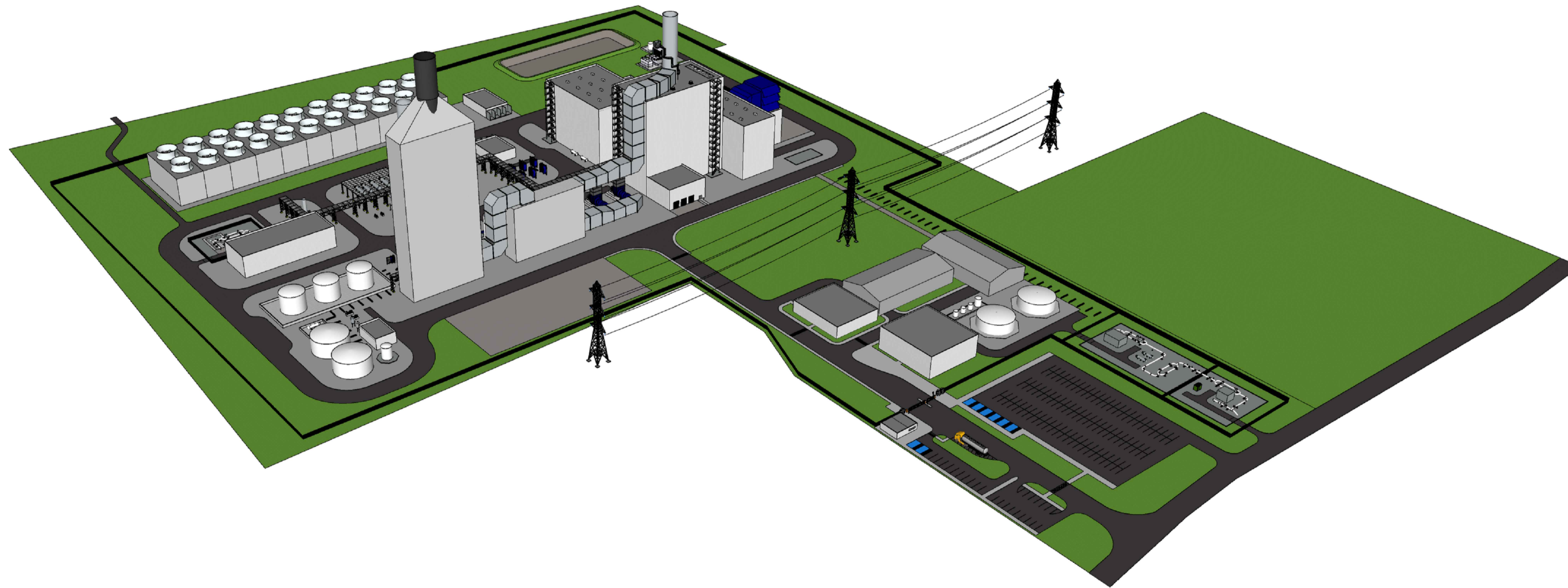
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SHEET TITLE

Indicative Proposed Power and Carbon Capture Layout and Elevations/Section Plans
Sheet 4 of 5 - 3D Aerial View

SHEET NUMBER

Application Document Ref. 4.7
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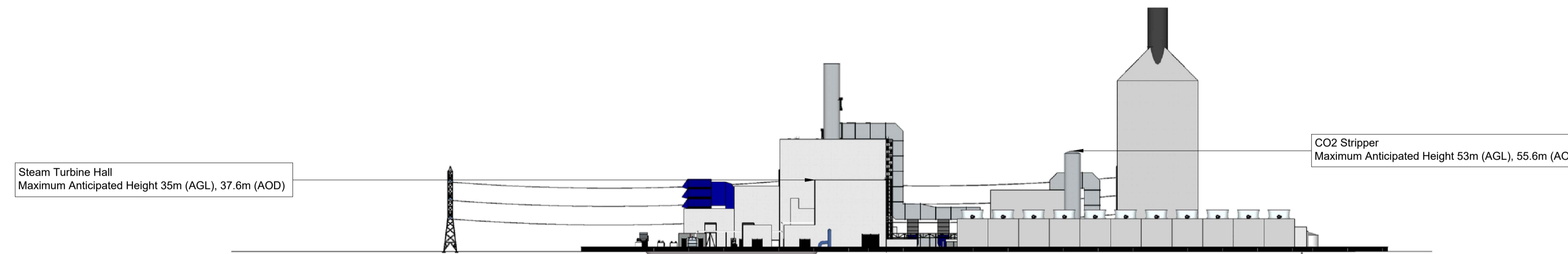
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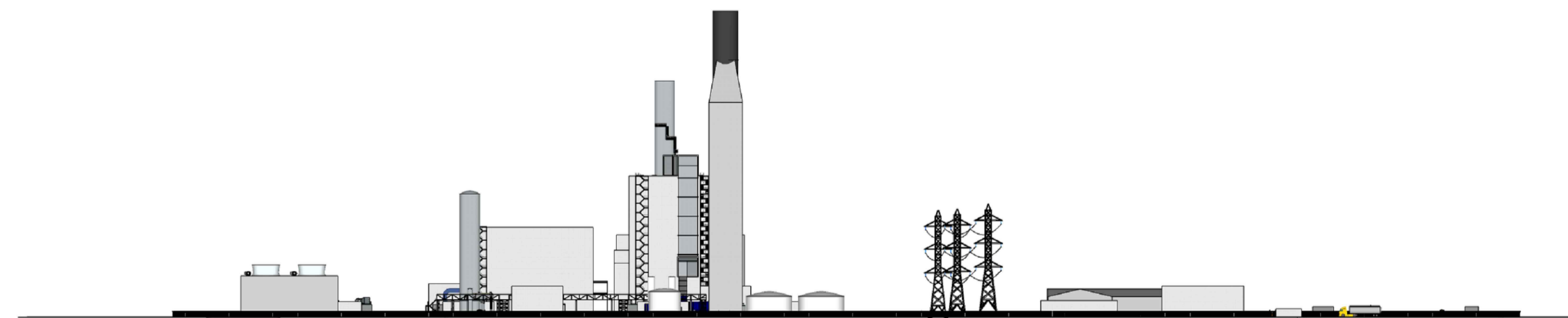
SOUTH ELEVATION



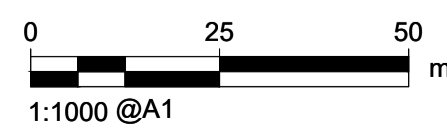
EAST ELEVATION



NORTH ELEVATION



WEST ELEVATION



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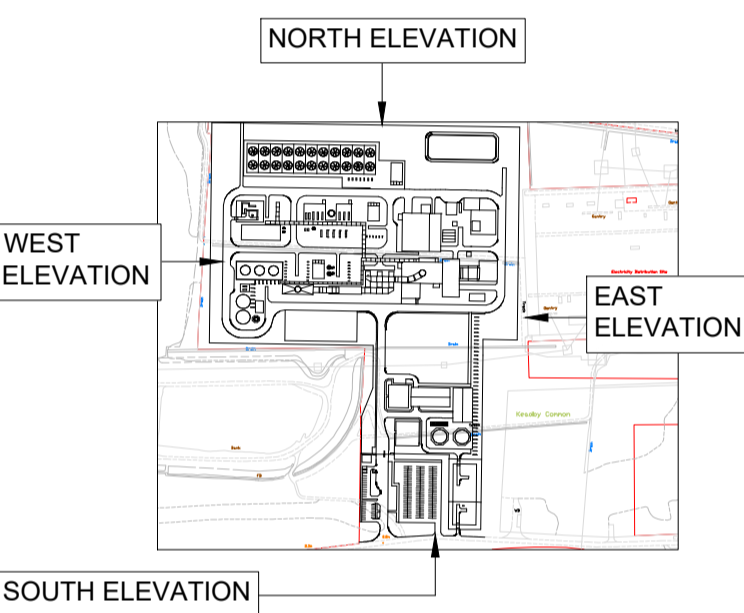
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LEGEND



PLAN VIEW

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Indicative Proposed Power and Carbon Capture Layout and Elevations/Section Plans
 Sheet 5 of 5 - Elevations View

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