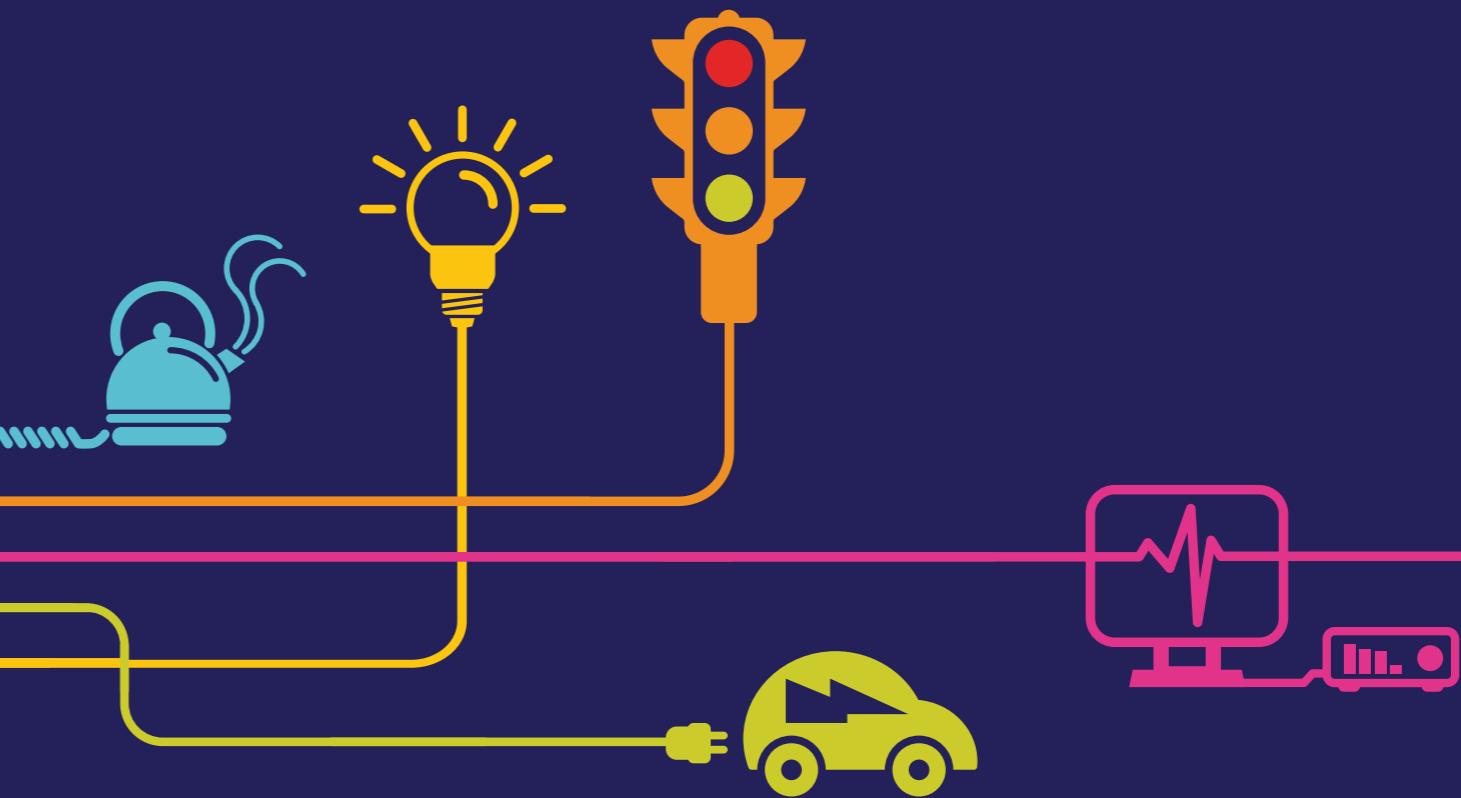


5.3.3.4

Environmental Statement Project Description Figures 3.7 to 3.14

Hinkley Point C Connection Project

*Regulation 5(2)(a) of the Infrastructure Planning
(Applications: Prescribed Forms and Procedure)
Regulations 2009*



Environmental Statement

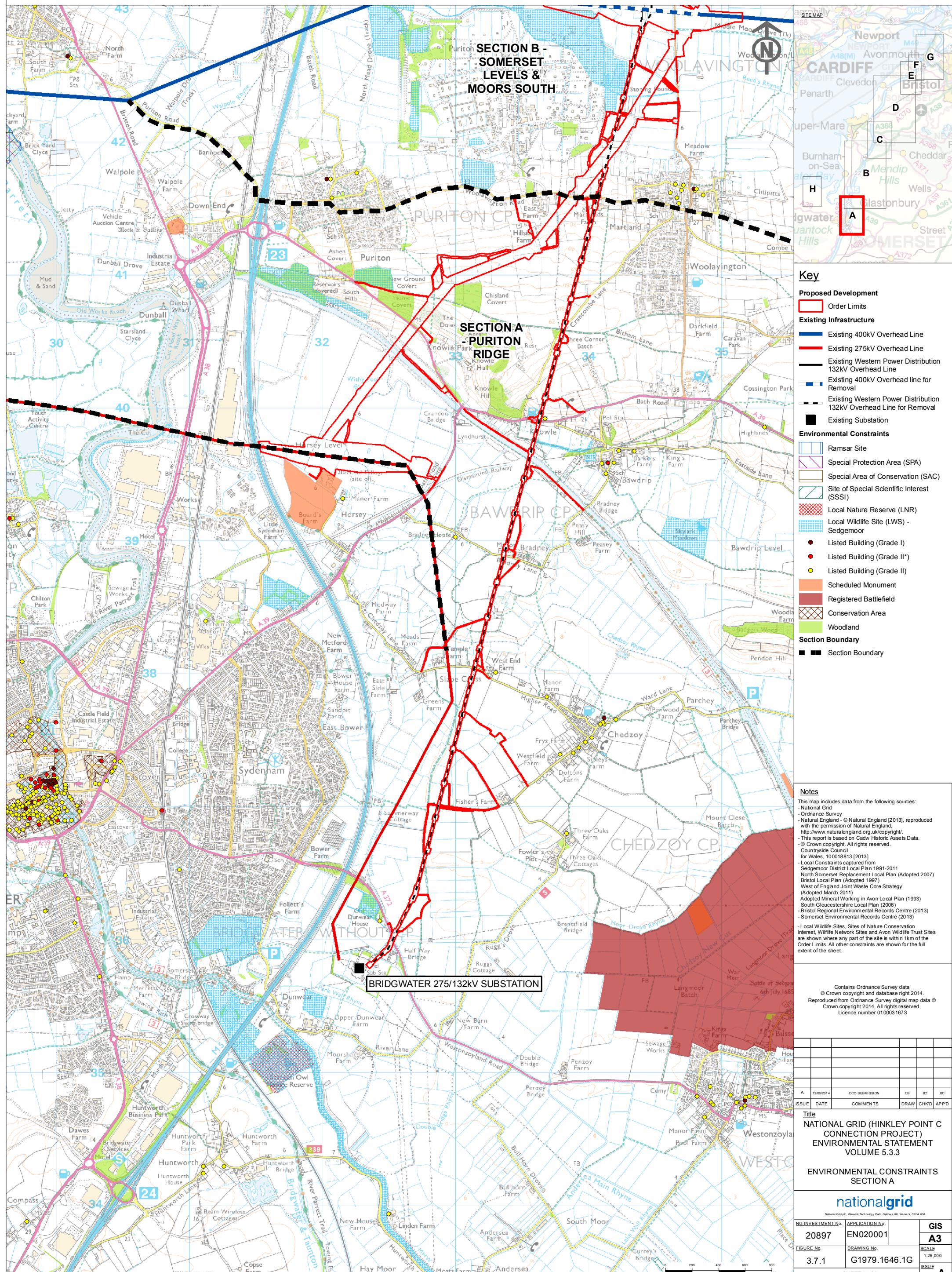
Hinkley Point C Connection Project

5.3.3 – Project Description – Figures (orange highlight indicates the contents of this Volume)

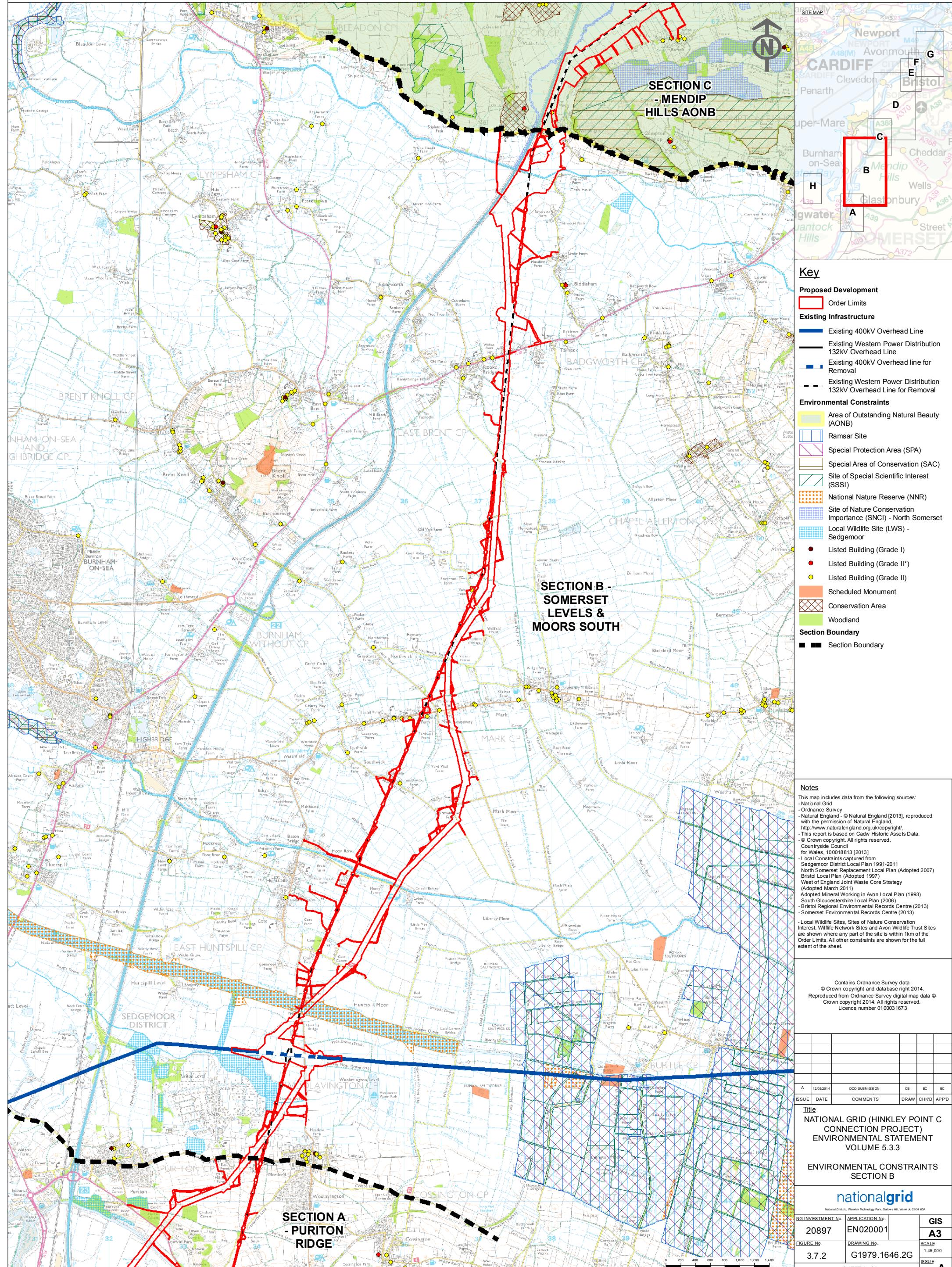
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Volume 5.3.3.1	
3.1	The Proposed Development
3.2	The Proposed Development – Preferred Route Option A and Alternative Route Option B
Volume 5.3.3.2	
3.3	Construction Plans
Volume 5.3.3.3	
3.4	Construction Plans – Preferred Route Option A and Alternative Route Option B
3.5	Indicative Access for Future Maintenance
3.6	Indicative Access for Future Maintenance – Preferred Route Option A and Alternative Route Option B
Volume 5.3.3.4	
3.7	Environmental Constraints
3.8	Pylon Profiles
3.9	Sandford 400/132kV Substation
3.10	Seabank 400/132kV Substation
3.11	Churchill 132/33kV Substation
3.12	Avonmouth 132/33kV Substation
3.13	Portishead 132/33kV Substation
3.14	Bridgwater Tee Cable Sealing End Compounds
Volume 5.3.3.5	
3.15	South of the Mendip Hills Cable Sealing End Compound
3.16	Typical Site Laydown Areas
3.17	Typical Underground Cable Technical Arrangements
3.18	River Axe and Towerhead Brook Crossing Options
3.19	Temporary Construction Road and Bridge Details
3.20	Culvert Construction Details
3.21	Typical 400/132kV Horizontal Directional Drilling Reception and Drive Site
3.22	Typical Bellmouth Arrangements
3.23	Typical Pylon Working Area
3.24	Pylon Foundations

Figure 3.7 - Environmental Constraints

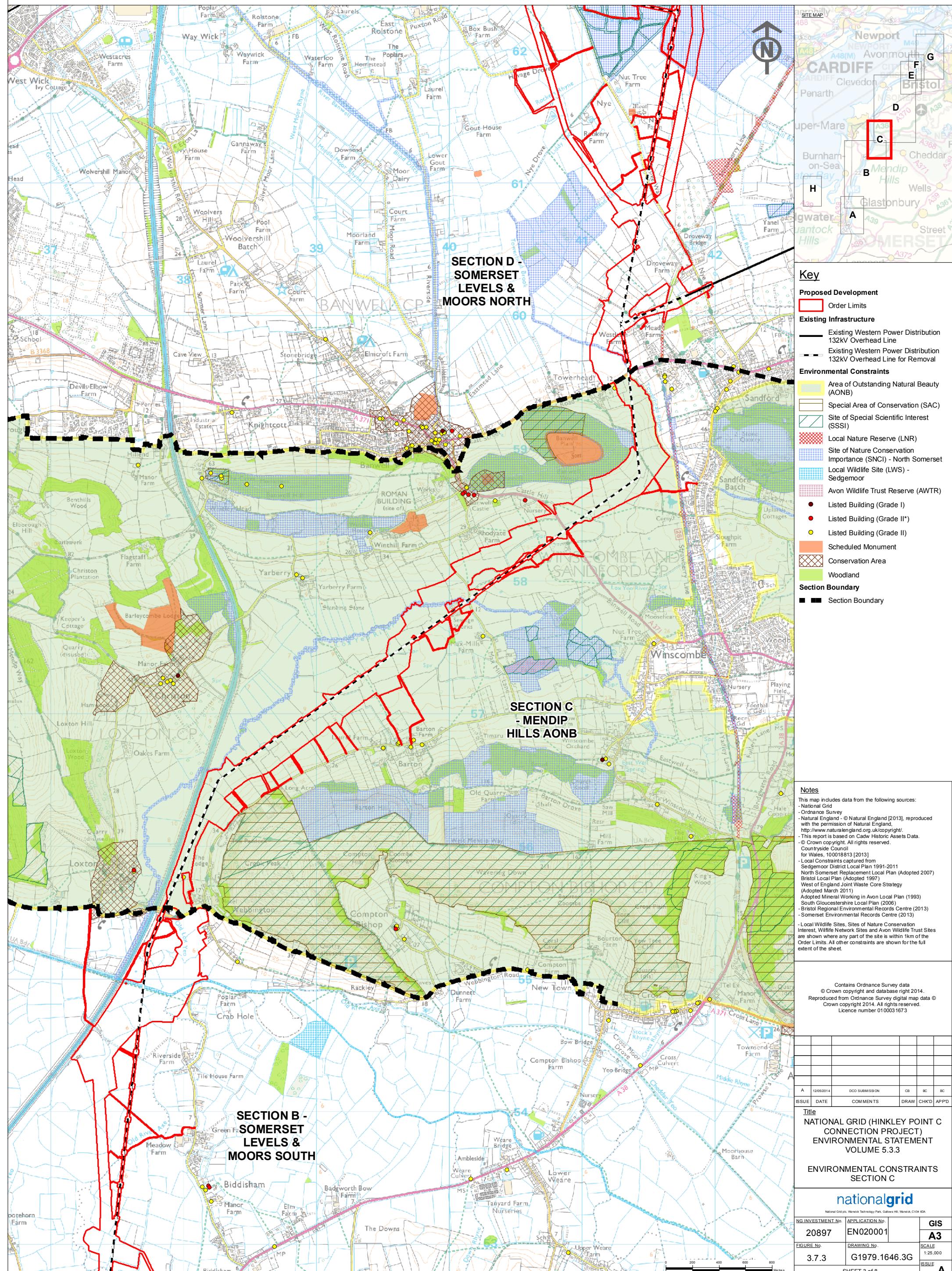
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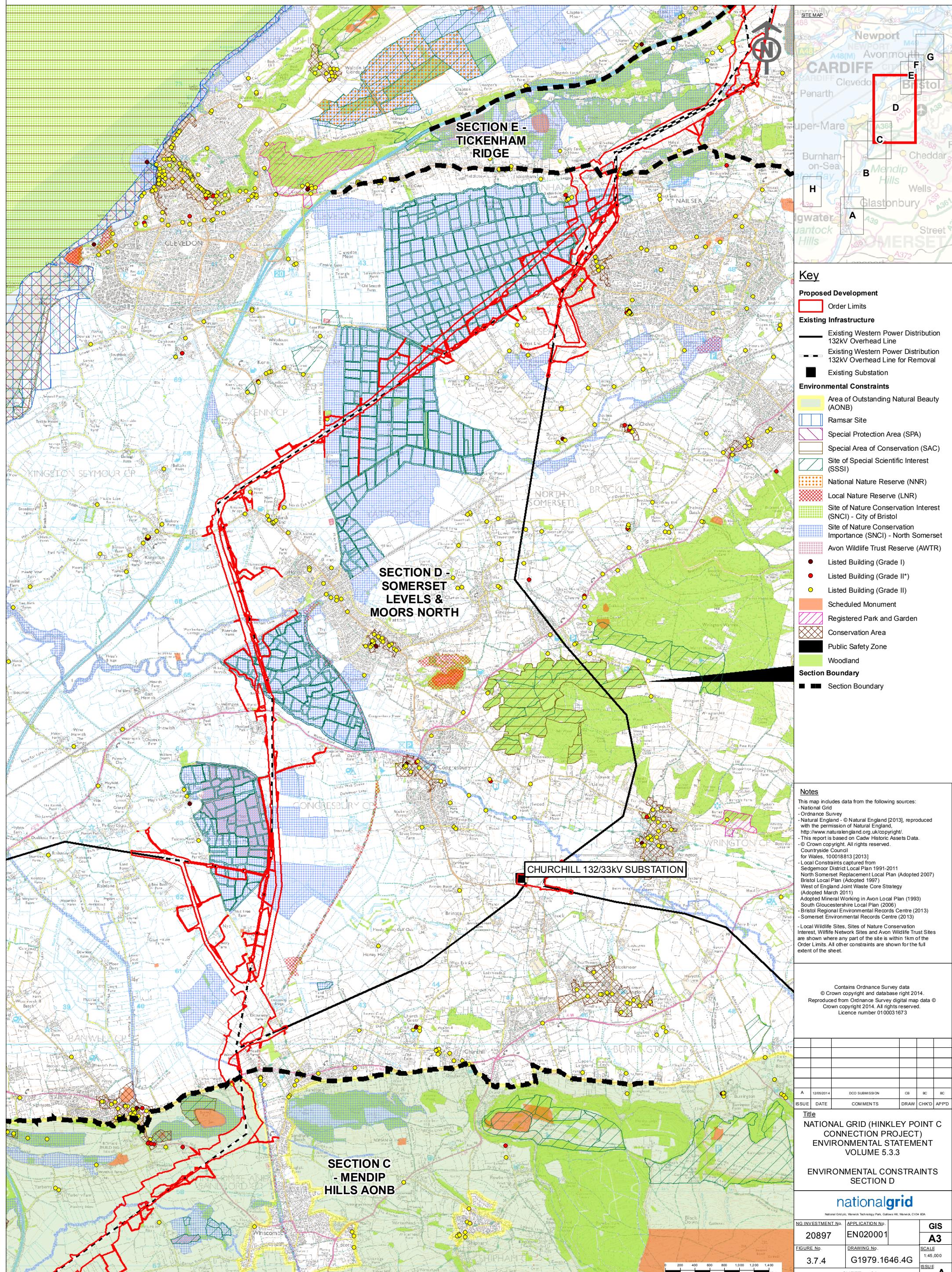
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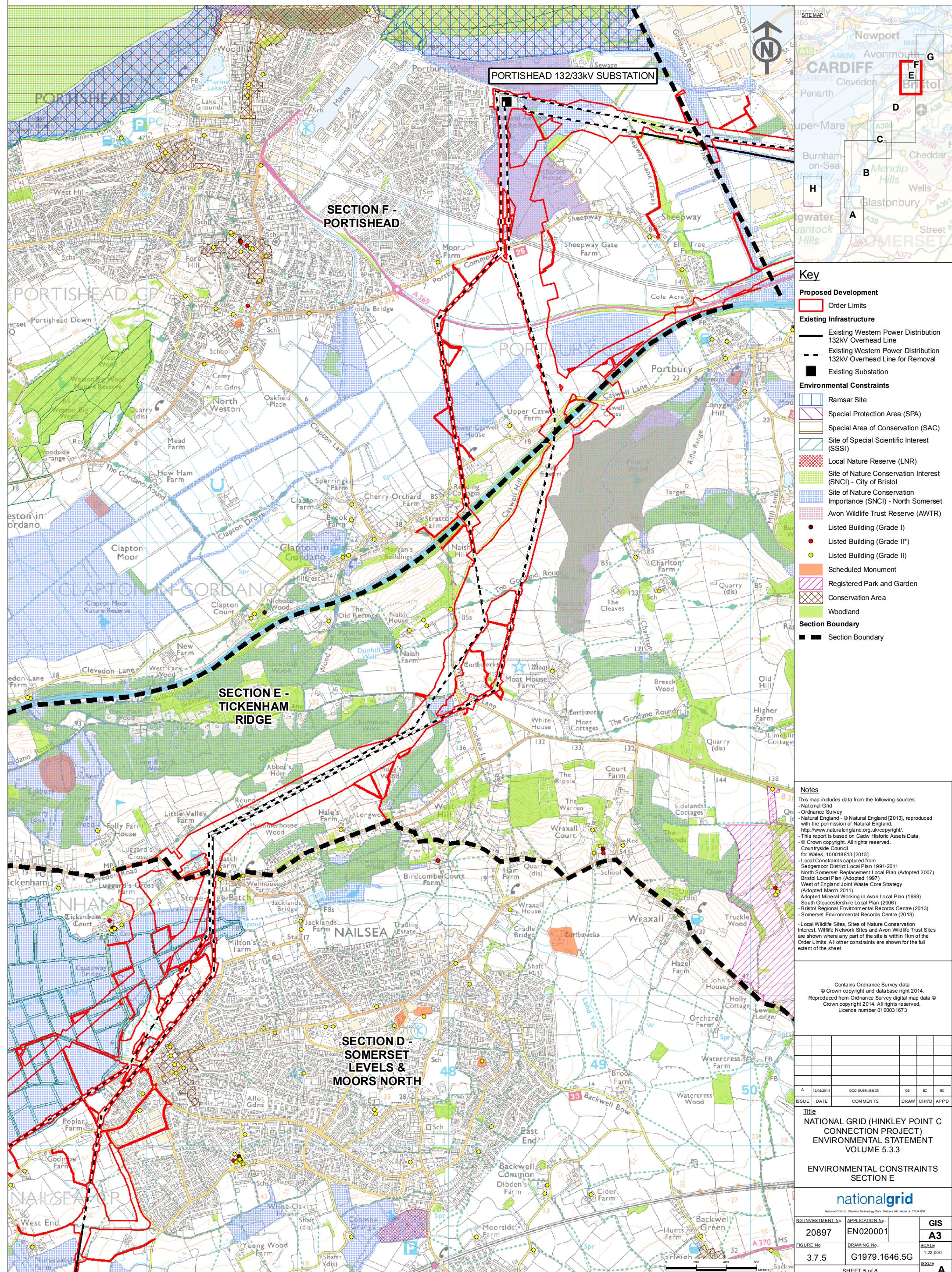
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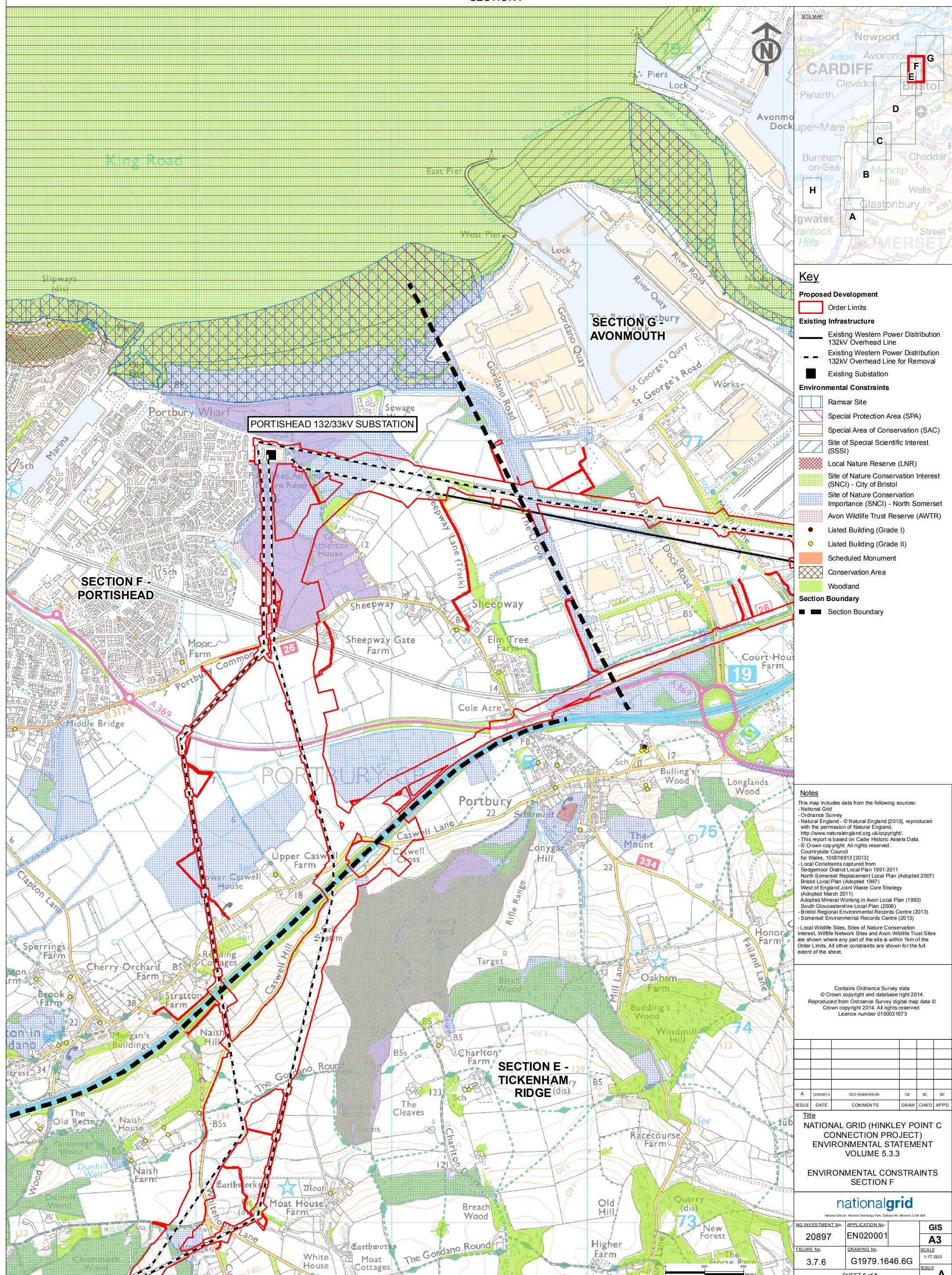
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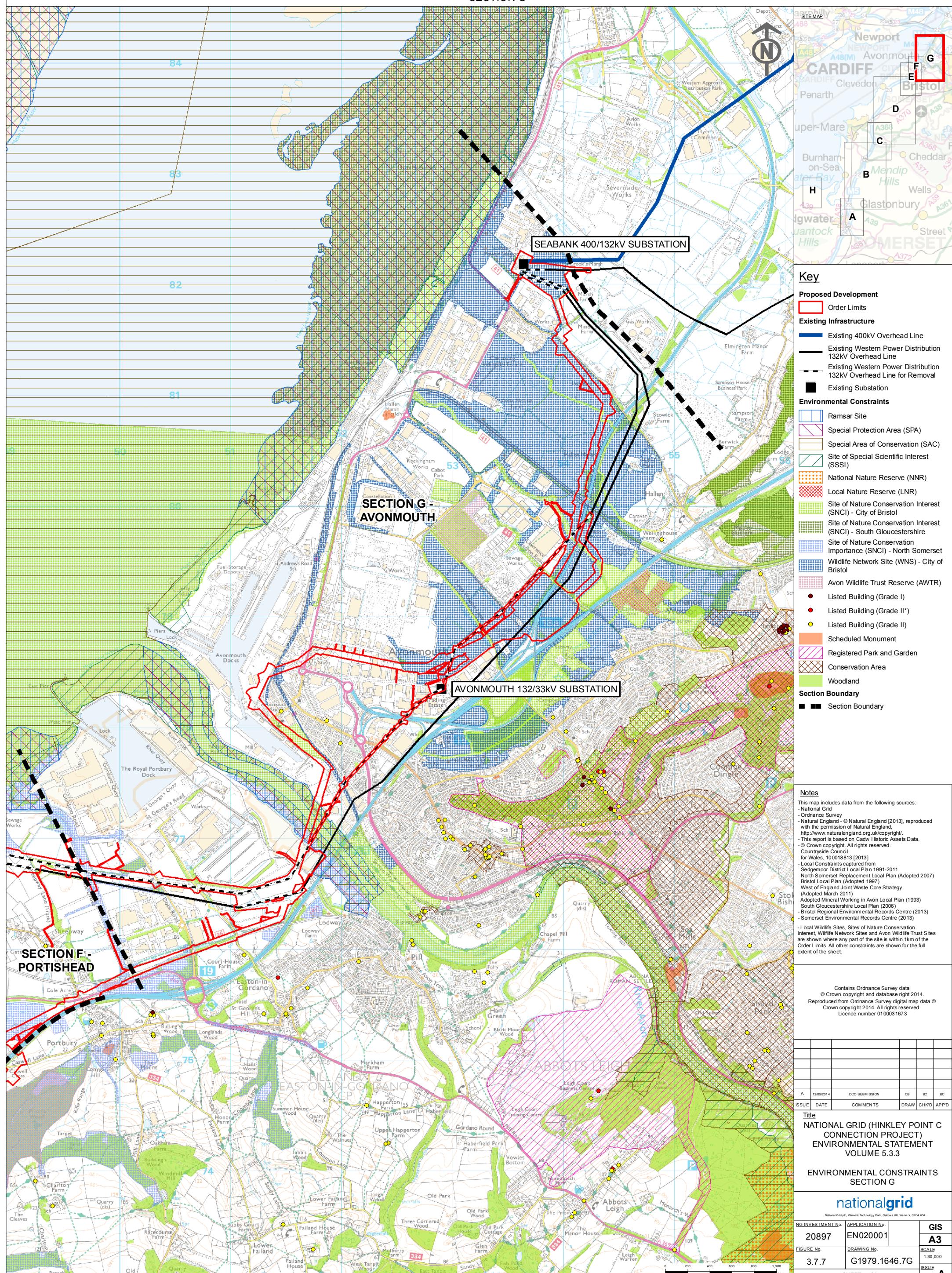
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ENVIRONMENTAL CONSTRAINTS
SECTION F



ENVIRONMENTAL CONSTRAINTS
SECTION G



ENVIRONMENTAL CONSTRAINTS
SECTION H

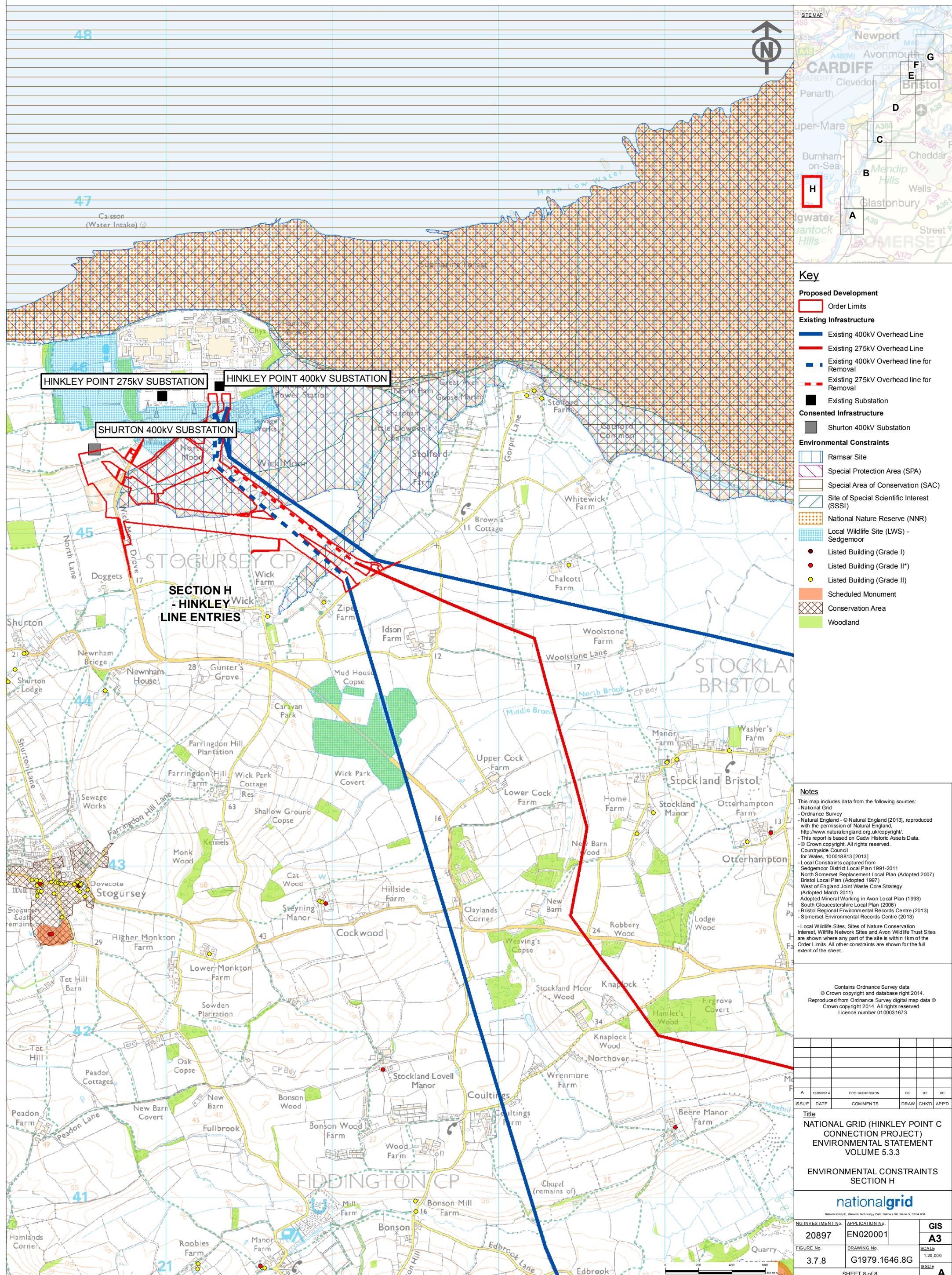
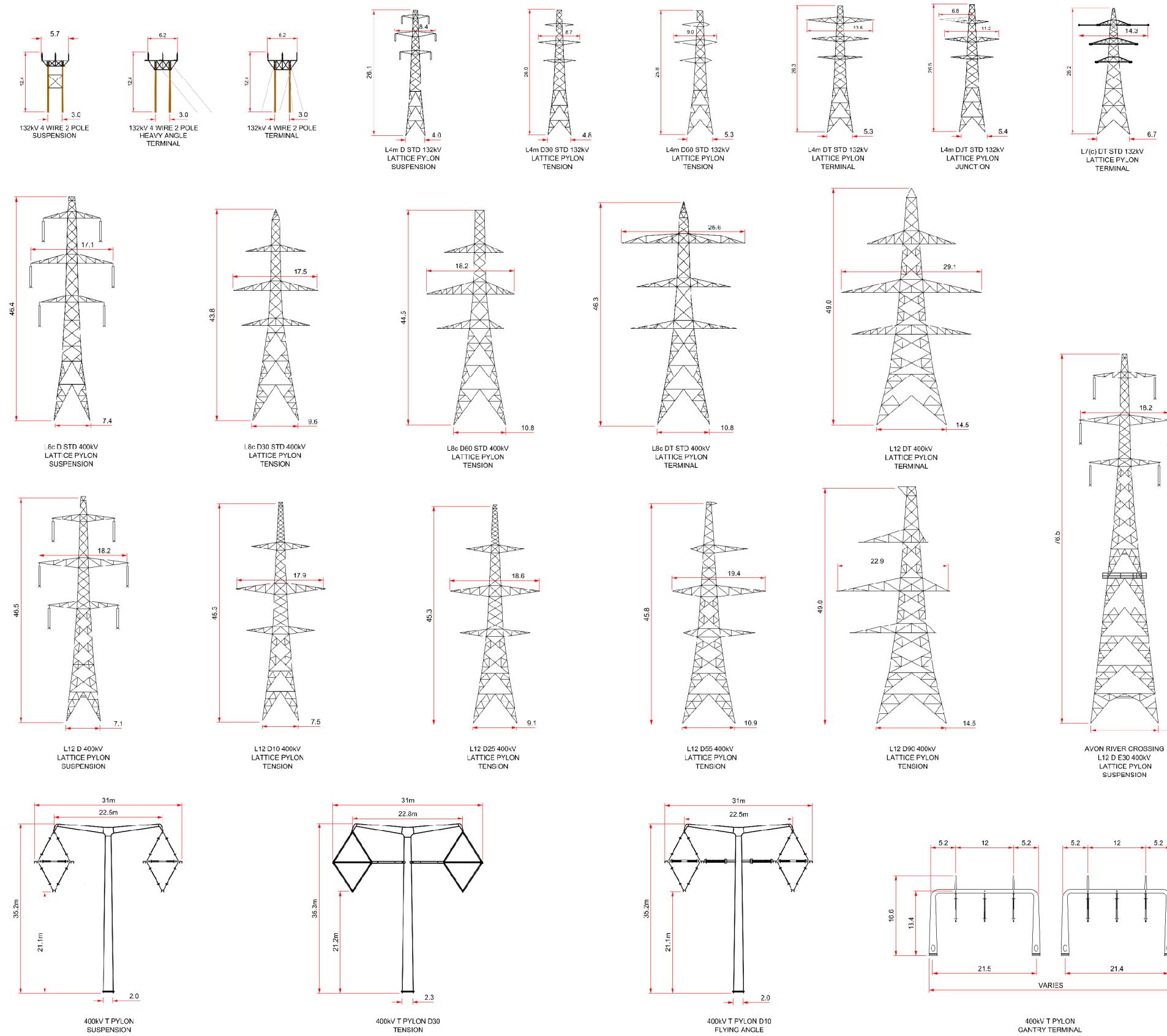


Figure 3.8 - Pylon Profiles



NOTE:
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ALL DIMENSIONS IN METRES

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ISSUE	DATE	COMMENTS	DRAW	CHKD	APP'D

Title
NATIONAL GRID (HINKLEY POINT C CONNECTION PROJECT)
ENVIRONMENTAL STATEMENT VOLUME 5.3.3

PYLON PROFILES -
400kV AND 132kV PYLONS

nationalgrid

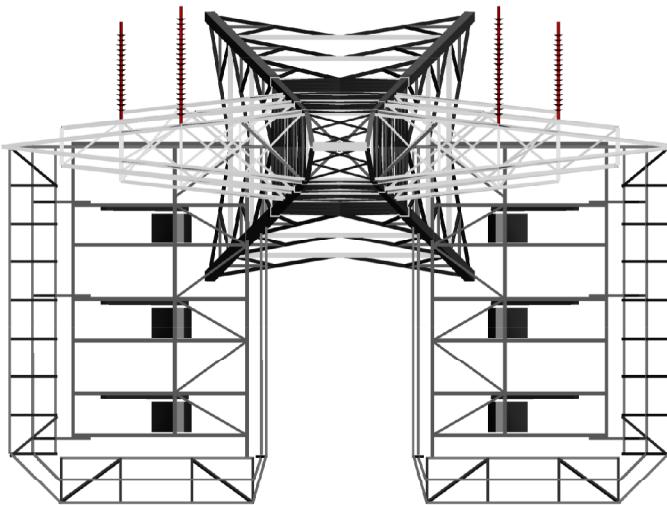
National Grid plc, Warwick Technology Park, Gallows Hill, Warwick, CV34 6DA

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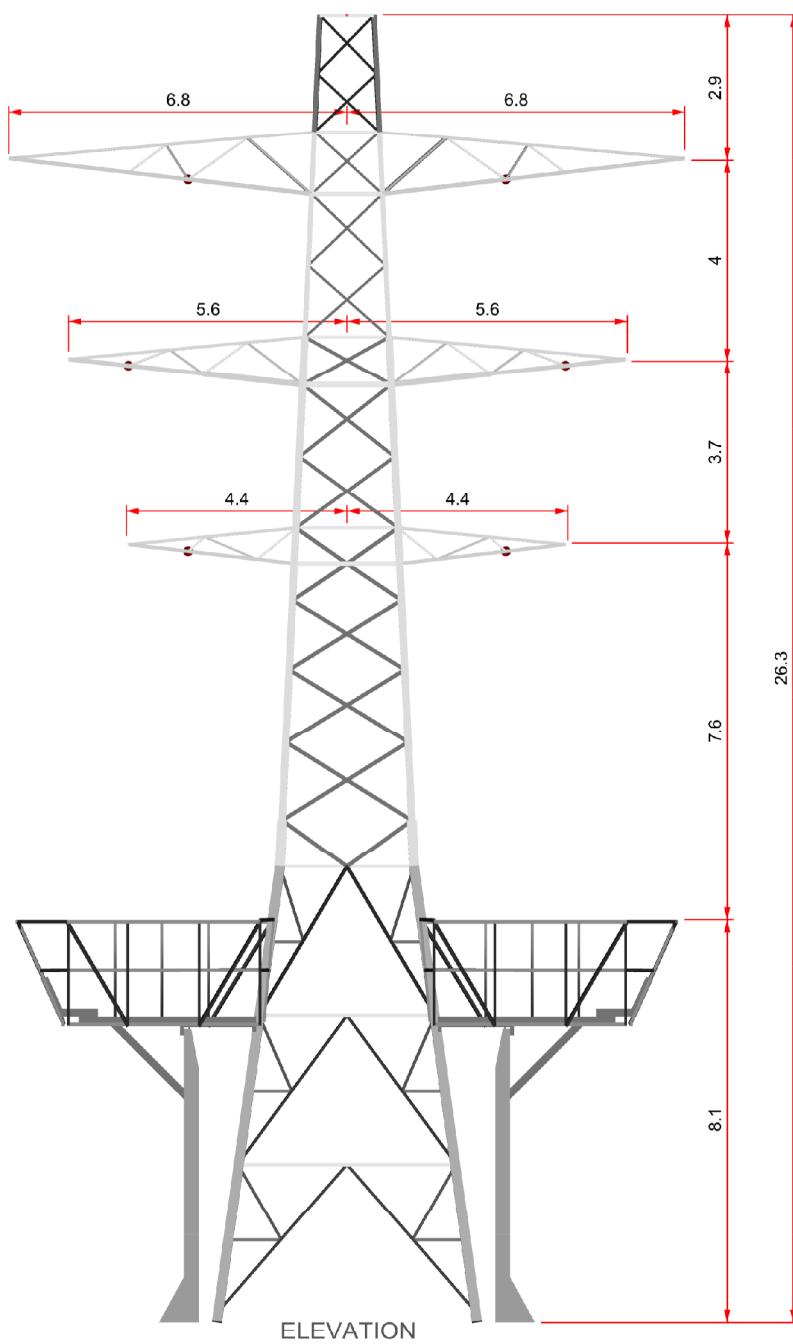
SHEET 1 of 6

ISSUE A

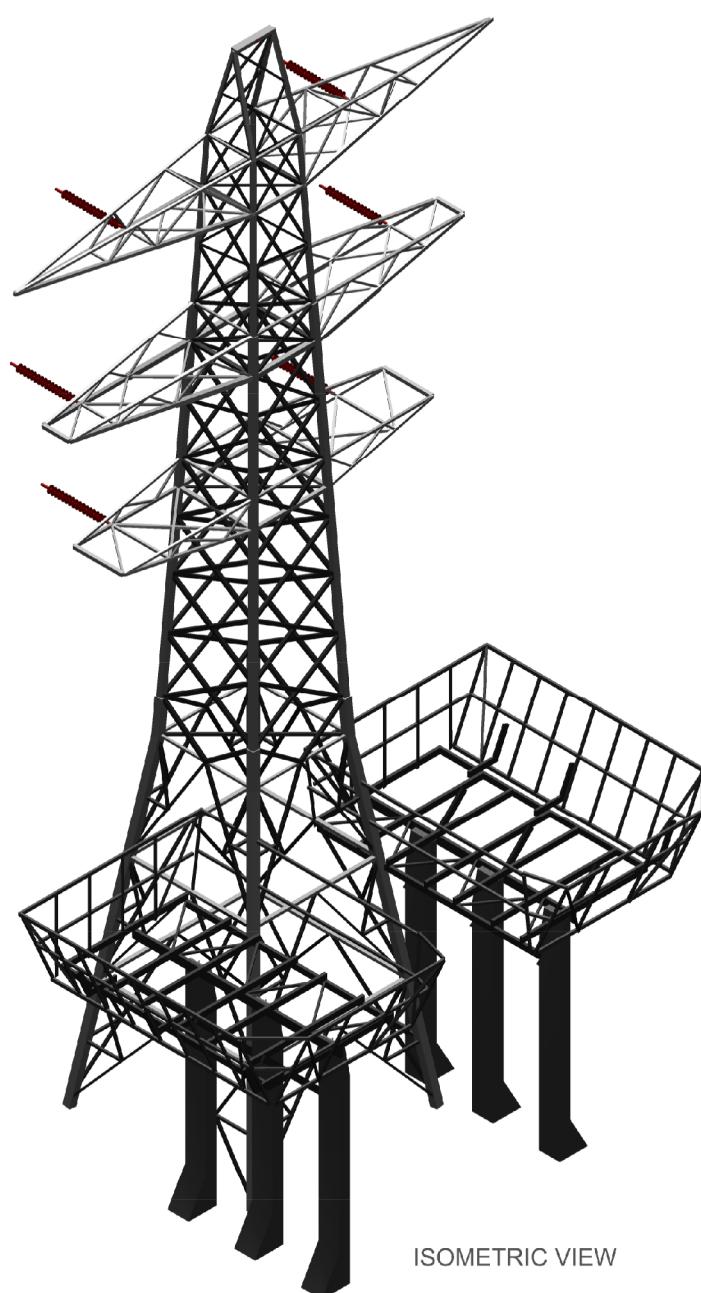
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PLAN



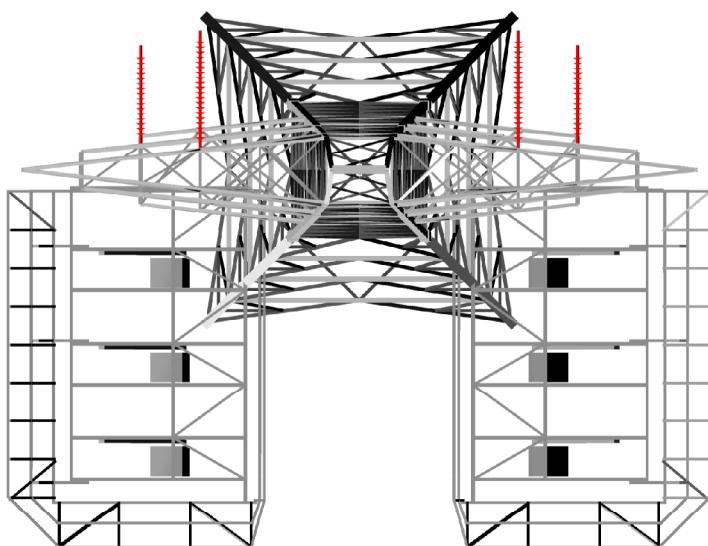
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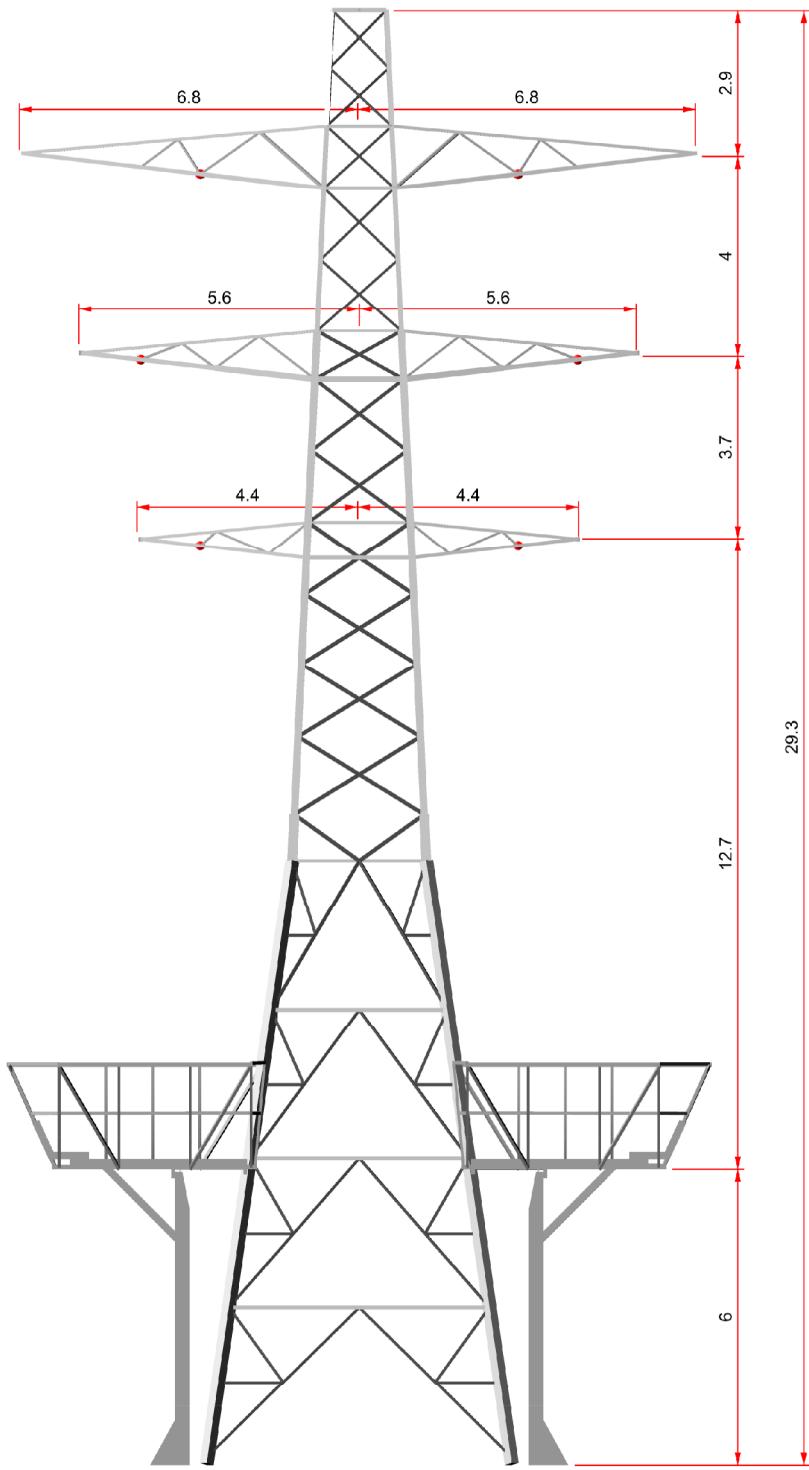
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NOTE:
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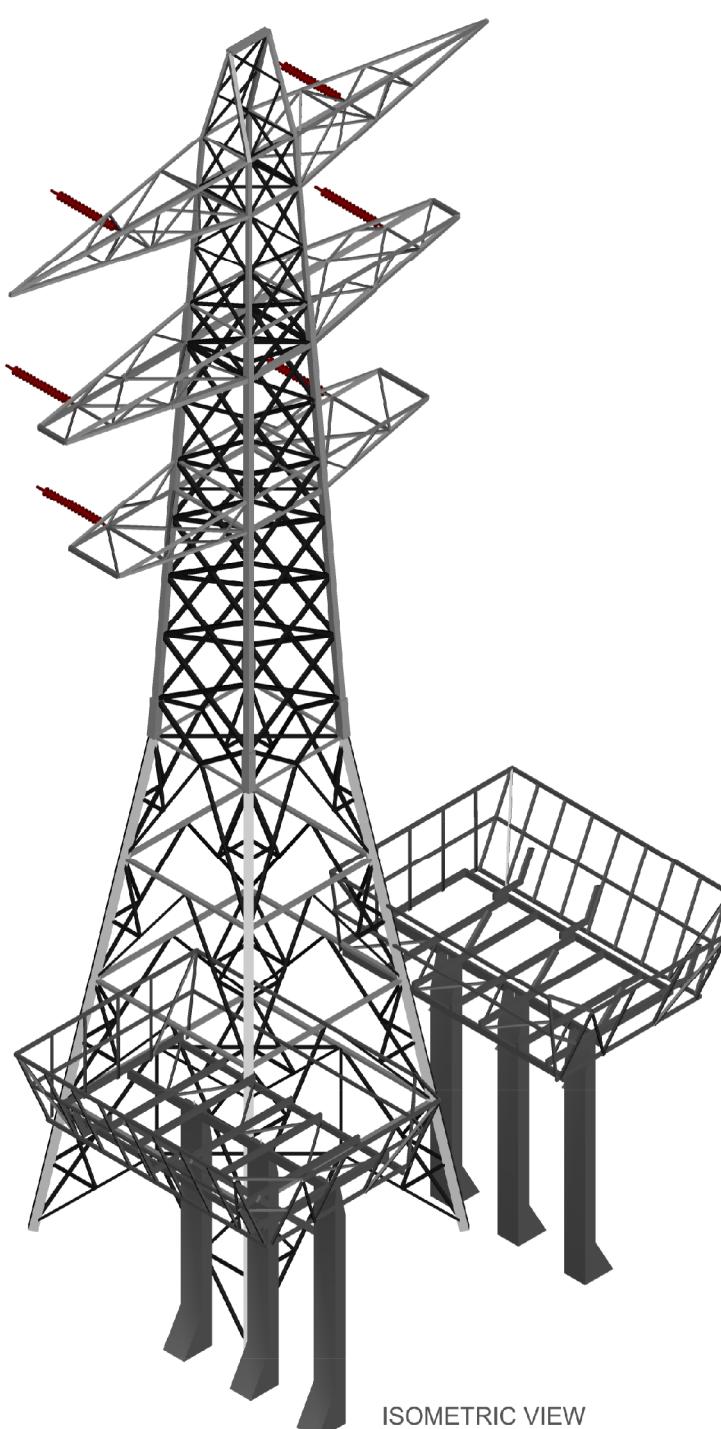
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PLAN



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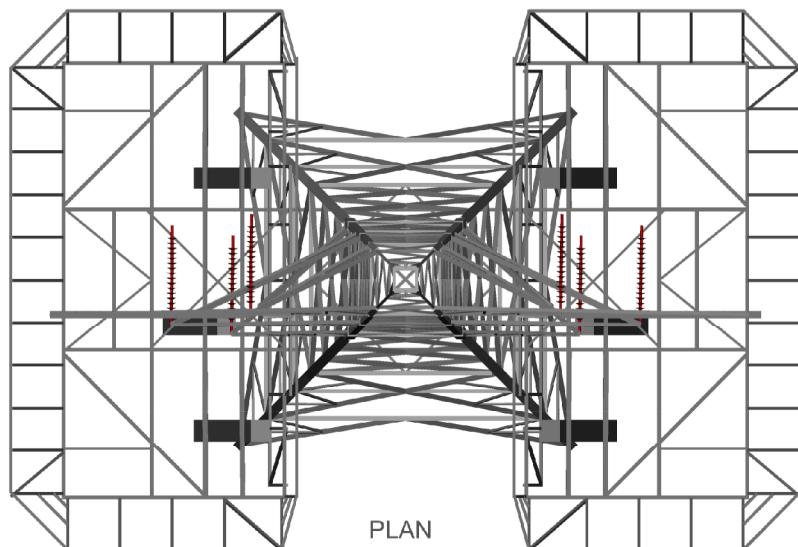


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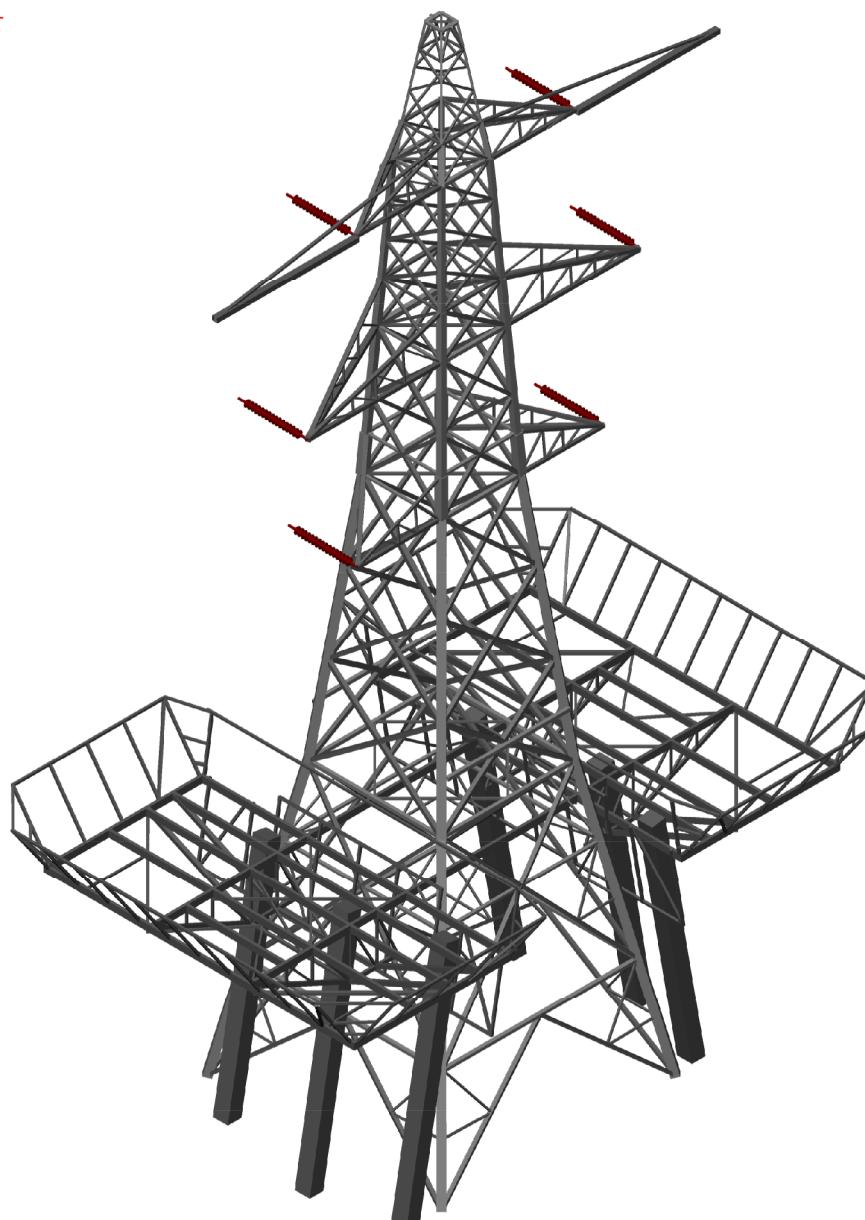
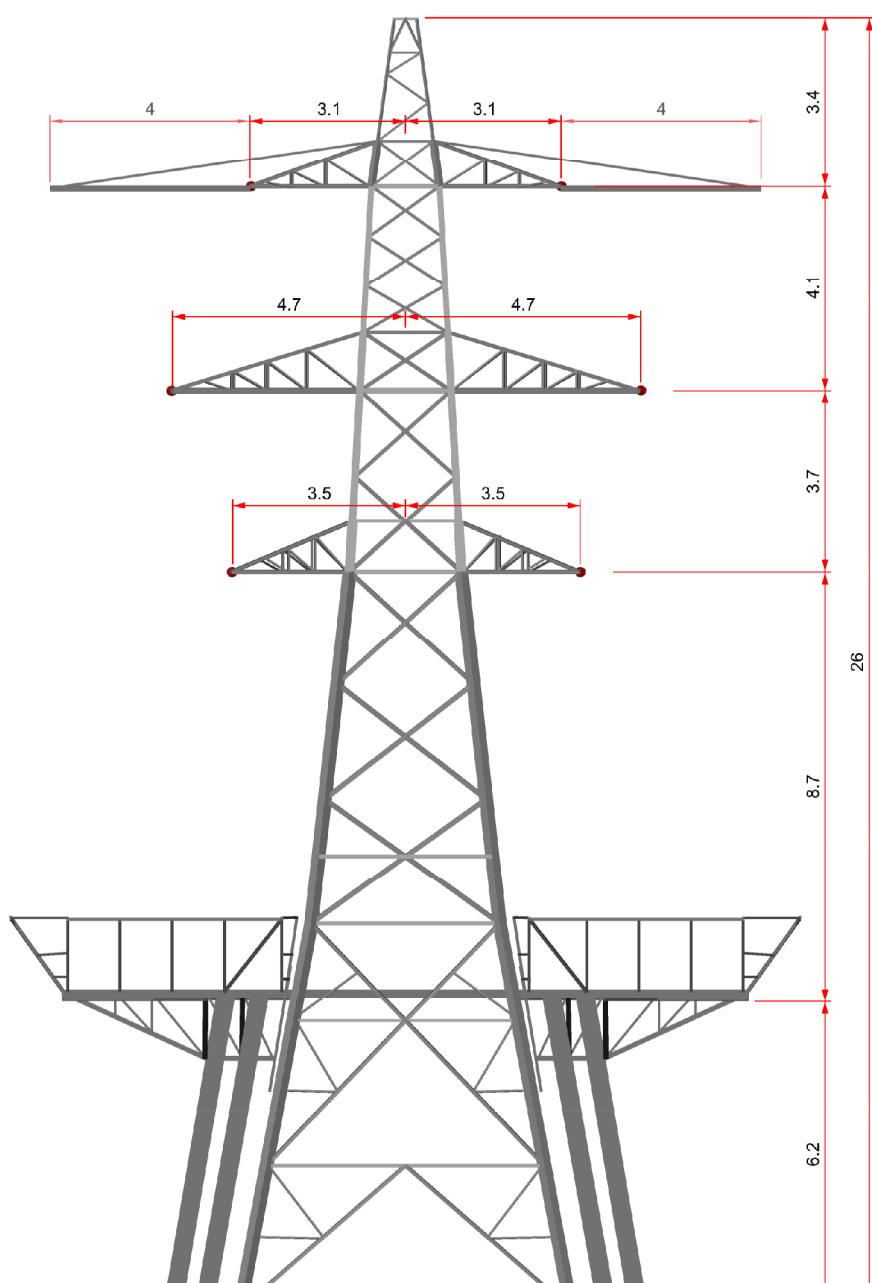
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SHEET 3 OF 6					

PYLON PROFILES -
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PLAN



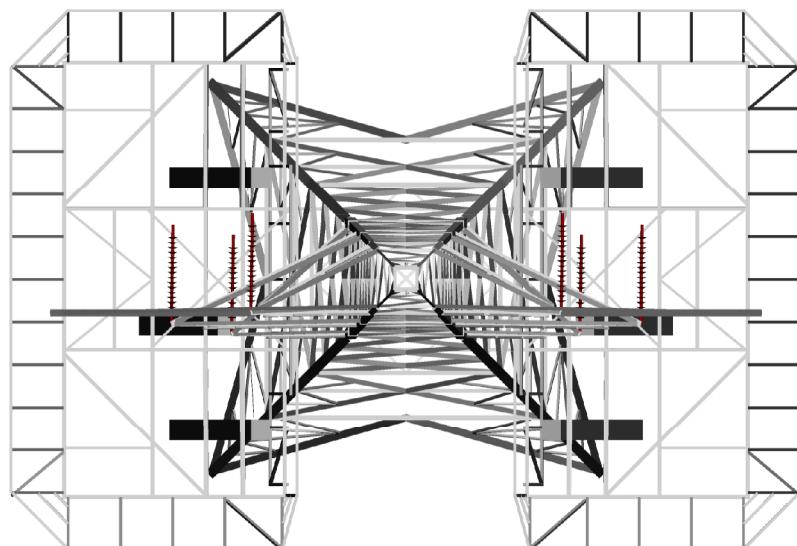
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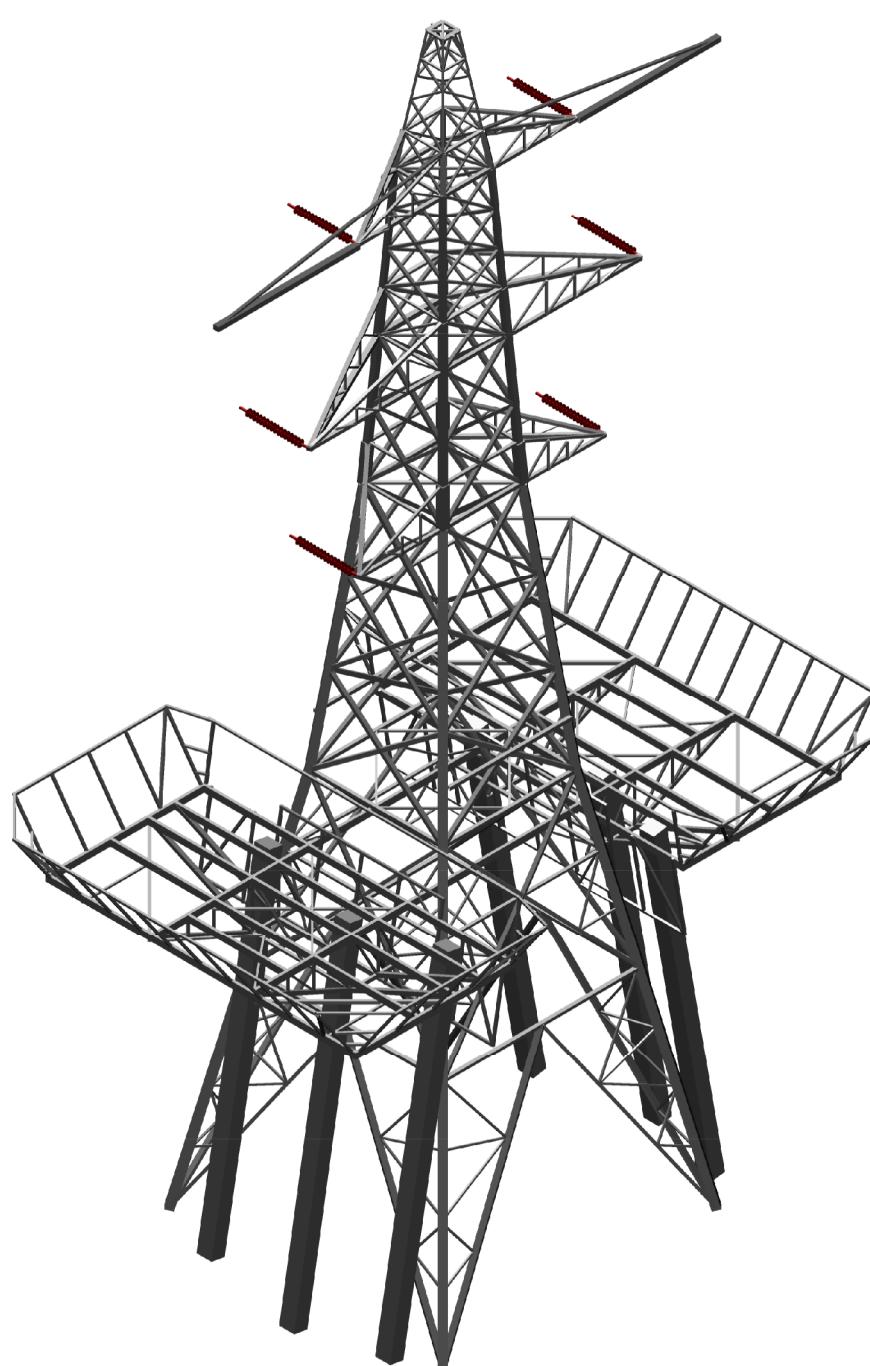
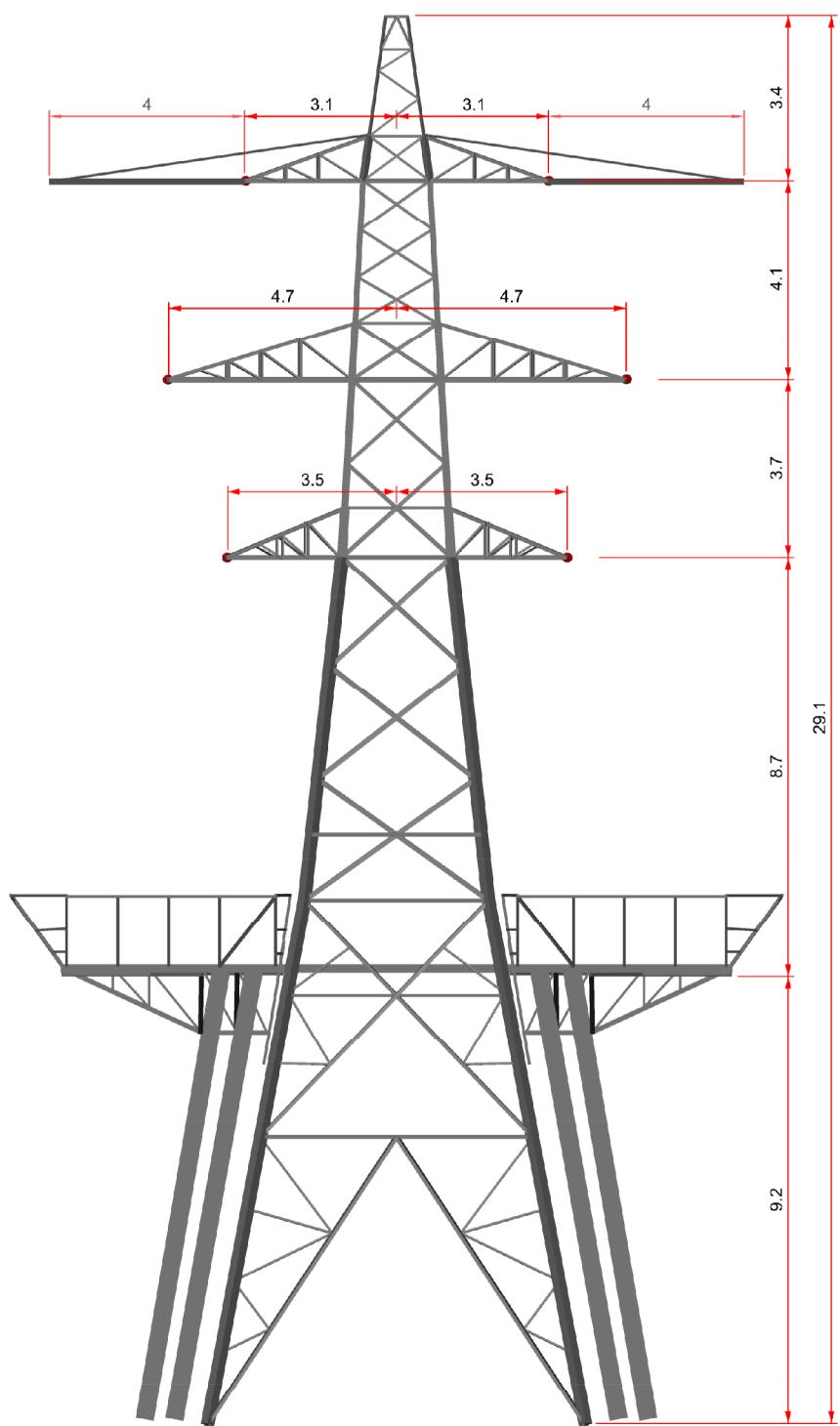
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nationalgrid					
National Grid plc, Warwick Technology Park, Galows Hill, Warwick, CV24 6DA					
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SHEET 4 OF 6					

PYLON PROFILES -
L7C DT E3 132kV CABLE SEALING END PLATFORM PYLON



PLAN



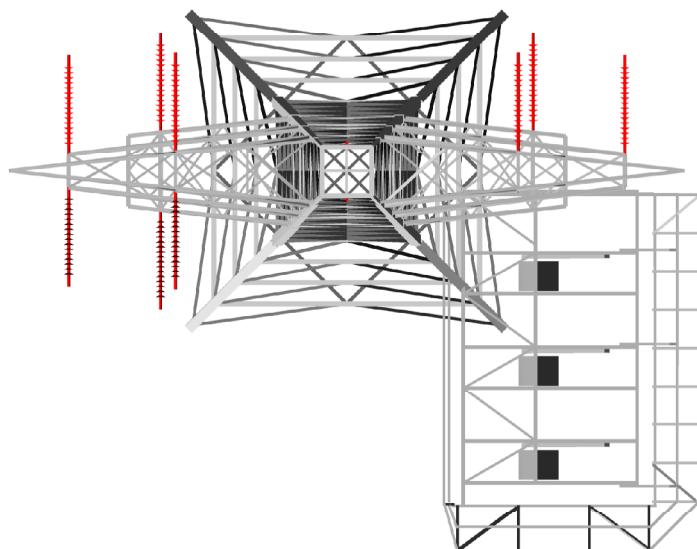
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General Notes:
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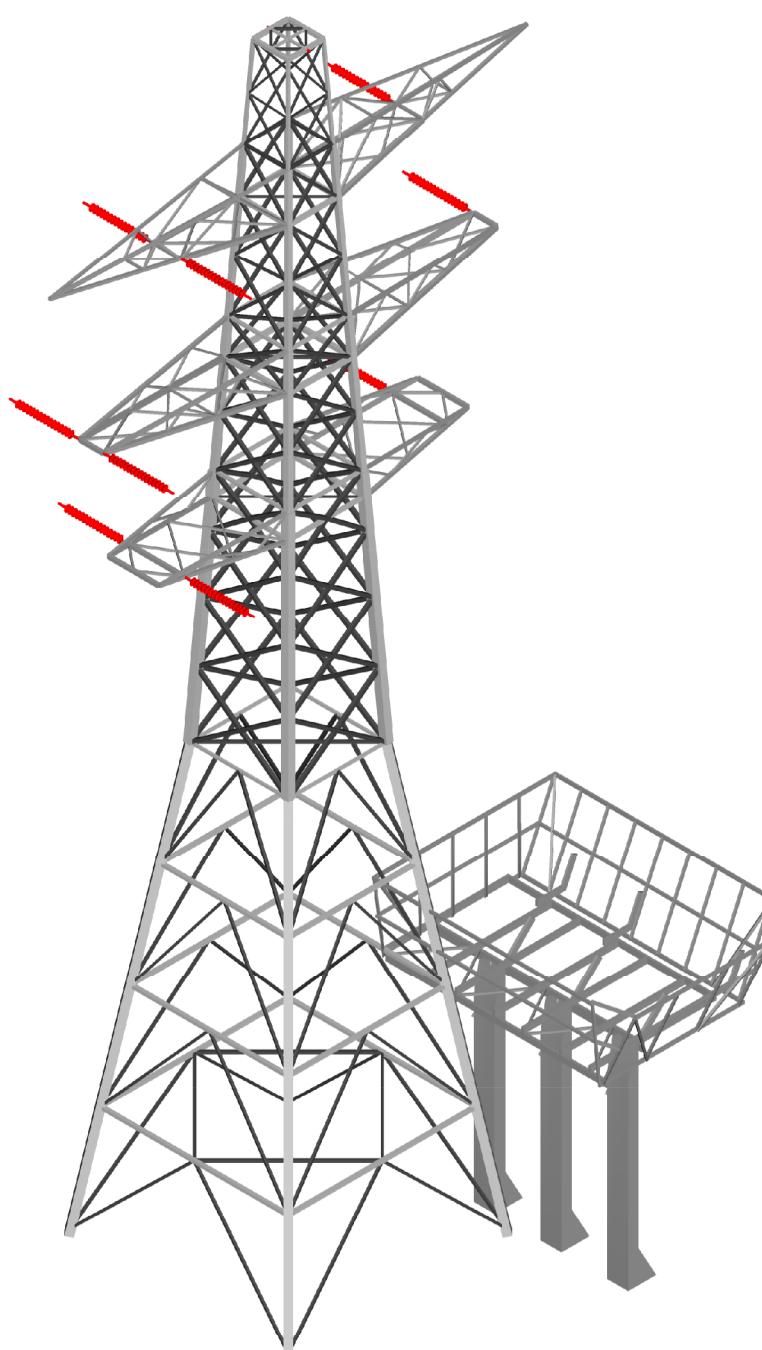
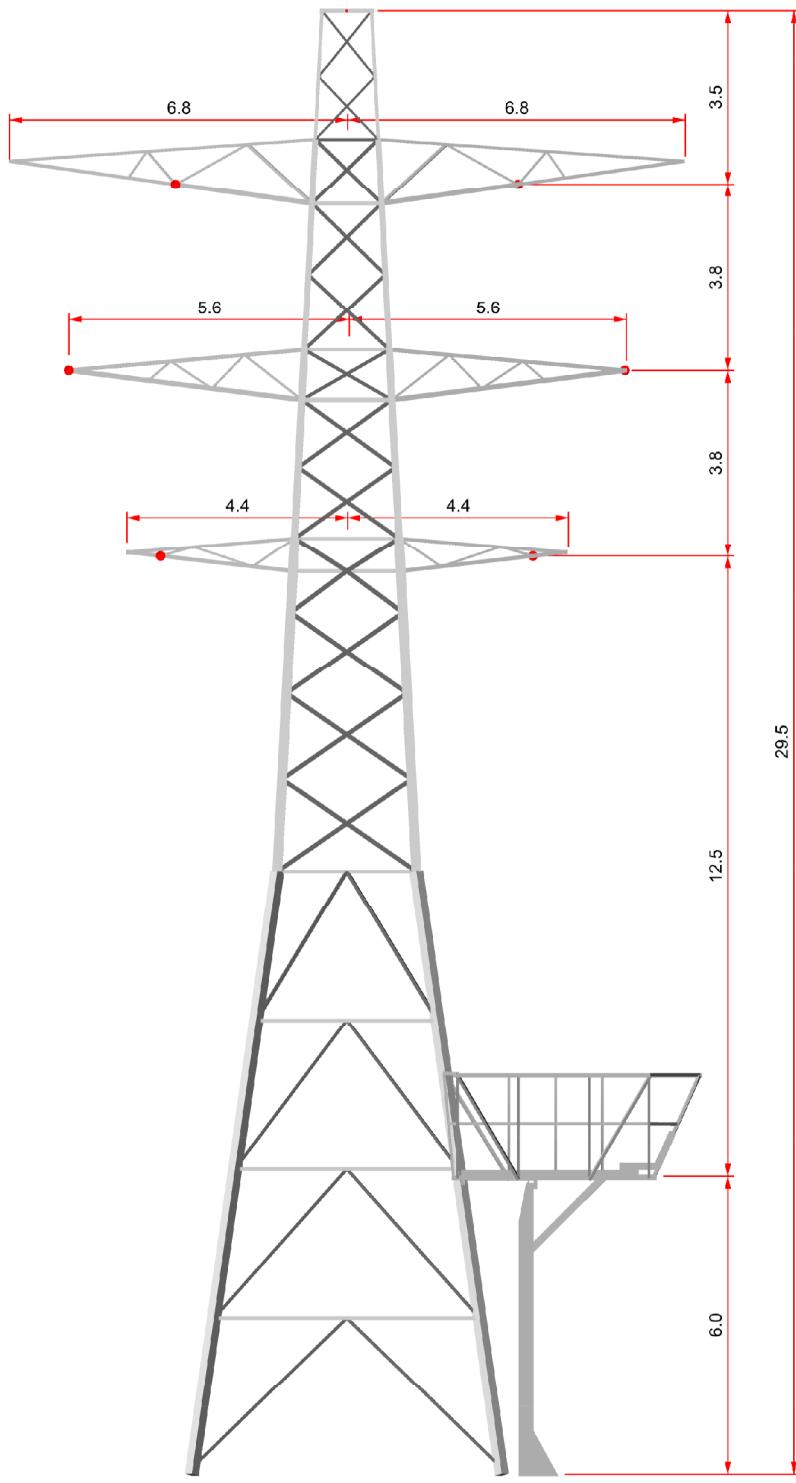
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National Grid plc, Warwick Technology Park, Galows Hill, Warwick, CV34 6DA					
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SHEET 5 OF 6					

PYLON PROFILES -
L4M DJT E3 132kV CABLE SEALING END PLATFORM PYLON



PLAN

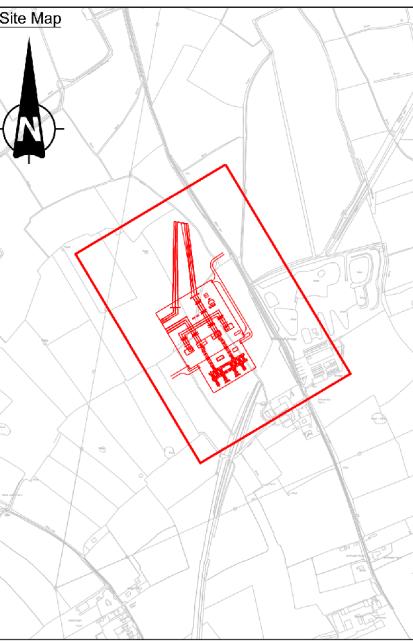


General Notes:
1. All dimensions in metres

NOTE:
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20897	EN020001				A3
FIGURE No.	DRAWING No.				SCALE
3.8.6	G1979.2108.6C				NTS
					ISSUE
					A

Figure 3.9 - Sandford 400/132kV Substation



Key

- NEW EQUIPMENT
- ELECTRIFIED FENCELINE
- CABLE

- 1 SHUNT REACTOR
- 2 SUPERGRID TRANSFORMER
- 3 DUMP TANK FOR HYDROCARBON CONTAINMENT
- 4 WATER TANK
- 5 DIESEL GENERATOR
- 6 TEMPORARY DIESEL GENERATOR
- 7 CONTROL BUILDING
- 8 AMENITY BUILDING
- 9 WORKSHOP
- 10 EARTH STORE
- 11 LVAC

- CB CIRCUIT BREAKER
- CSE CABLE SEALING END
- CT CURRENT TRANSFORMER
- DC DISCONNECTOR
- ES EARTH SWITCH
- HIS HIGHLY INTEGRATED SWITCHGEAR
- PI POST INSULATOR
- SA SURGE ARRESTOR
- VT VOLTAGE TRANSFORMER

Notes

- ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.
- ALL DIMENSIONS SHOWN ARE TYPICAL AND MAY BE ADJUSTED TO SUIT MANUFACTURER'S EQUIPMENT PROVIDED THAT THE SPECIFIED CLEARANCES ARE MAINTAINED. ANY PROPOSED CHANGES MUST NOT IMPEDE THE FUTURE DEVELOPMENT OF THE SUBSTATION.
- BASED ON ORIGINATORS DRAWING NO: 13/J2M/3840001.
- THIS DRAWING IS FOR PLANNING PURPOSES ONLY.
- CABLE ROUTE SHOWN IS INDICATIVE ONLY.

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ISSUE	DATE	COMMENTS	DRAW	CHKD	APP'D

Title

NATIONAL GRID (HINKLEY POINT C
CONNECTION PROJECT)
ENVIRONMENTAL STATEMENT
VOLUME 5.3.3

SANDFORD 400/132kV SUBSTATION -
SITE PLAN

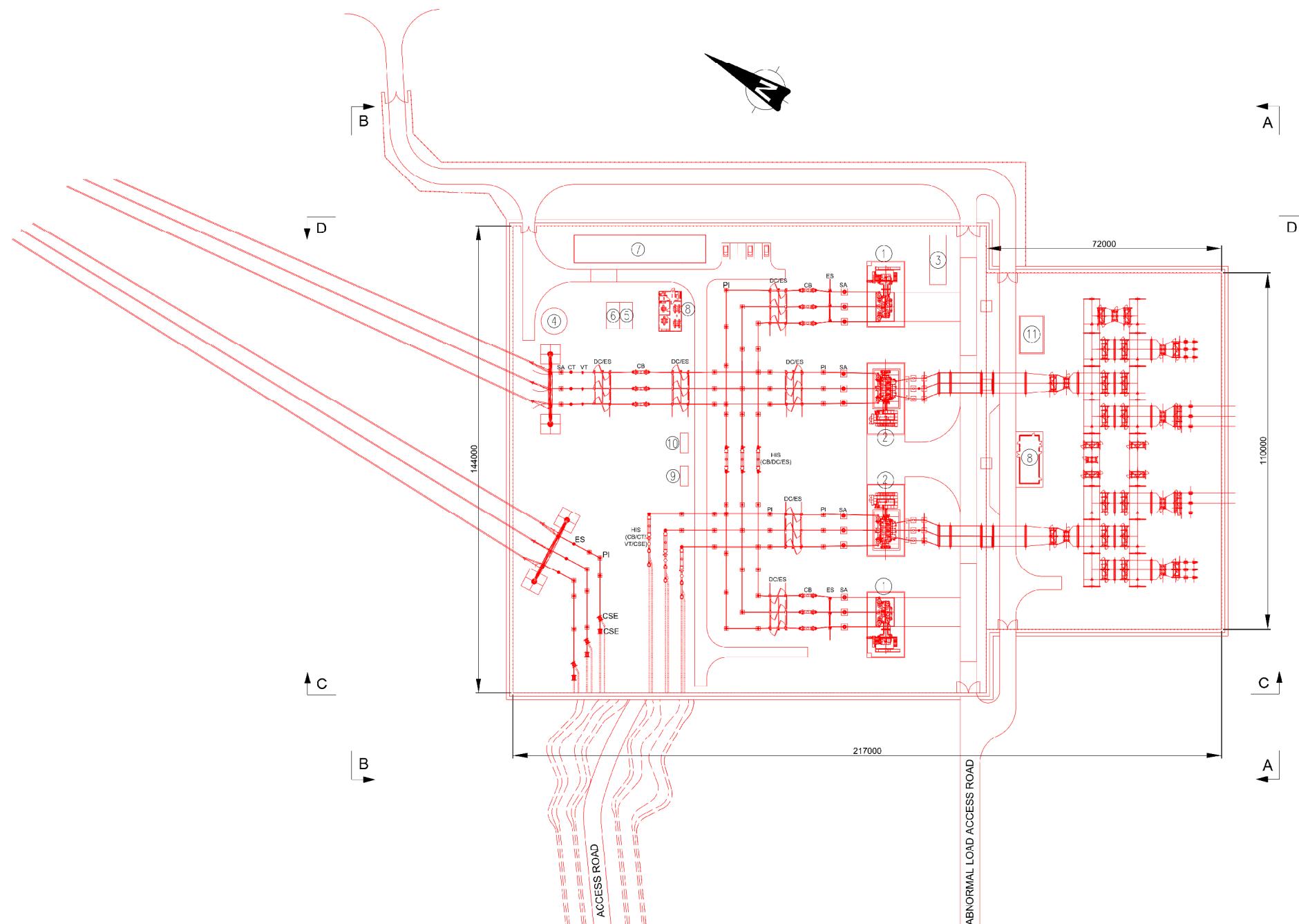
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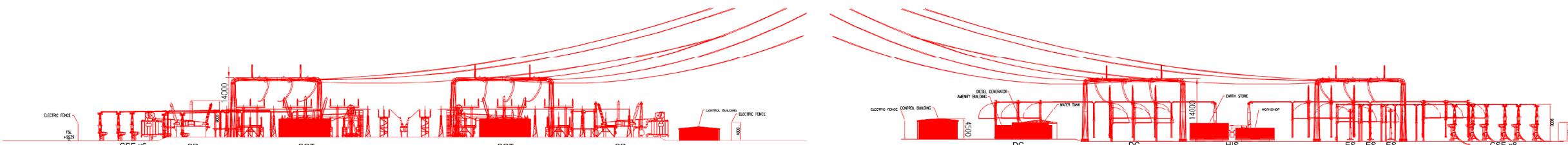
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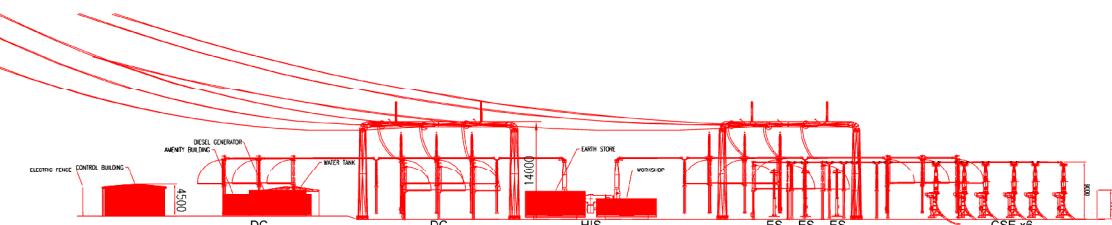
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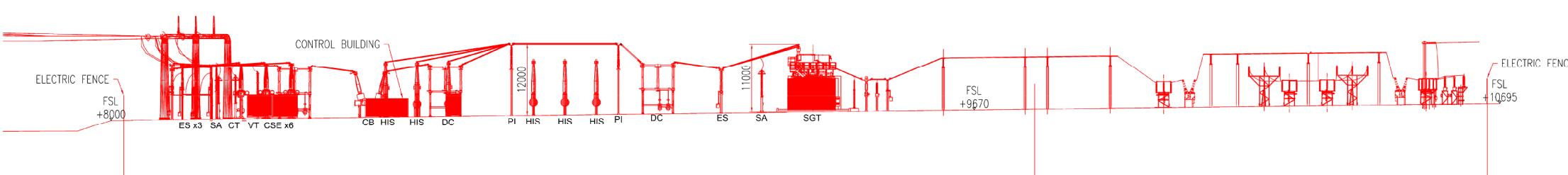




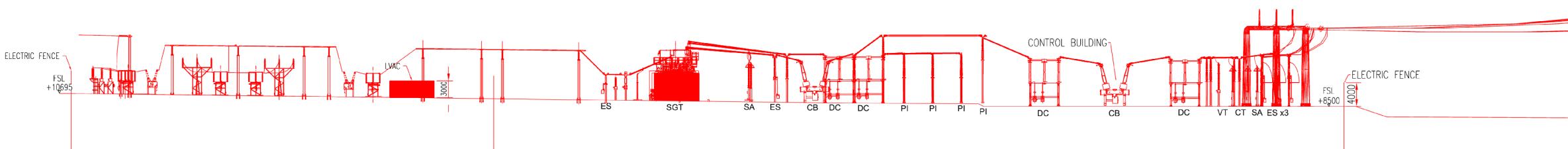
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SECTION C - C
(1:400)



SECTION D - D
(1:400)

Key	- NEW EQUIPMENT
CB	- CIRCUIT BREAKER
CSE	- CABLE SEALING END
CT	- CURRENT TRANSFORMER
DC	- DISCONNECTOR
ES	- EARTH SWITCH
HIS	- HIGHLY INTEGRATED SWITCHGEAR
PI	- POST INSULATOR
SA	- SURGE ARRESTOR
VT	- VOLTAGE TRANSFORMER

Notes

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.
2. ALL DIMENSIONS SHOWN ARE TYPICAL AND MAY BE ADJUSTED TO SUIT MANUFACTURER'S EQUIPMENT PROVIDED THAT THE SPECIFIED CLEARANCES ARE MAINTAINED. ANY PROPOSED CHANGES MUST NOT IMPEDE THE FUTURE DEVELOPMENT OF THE SUBSTATION.
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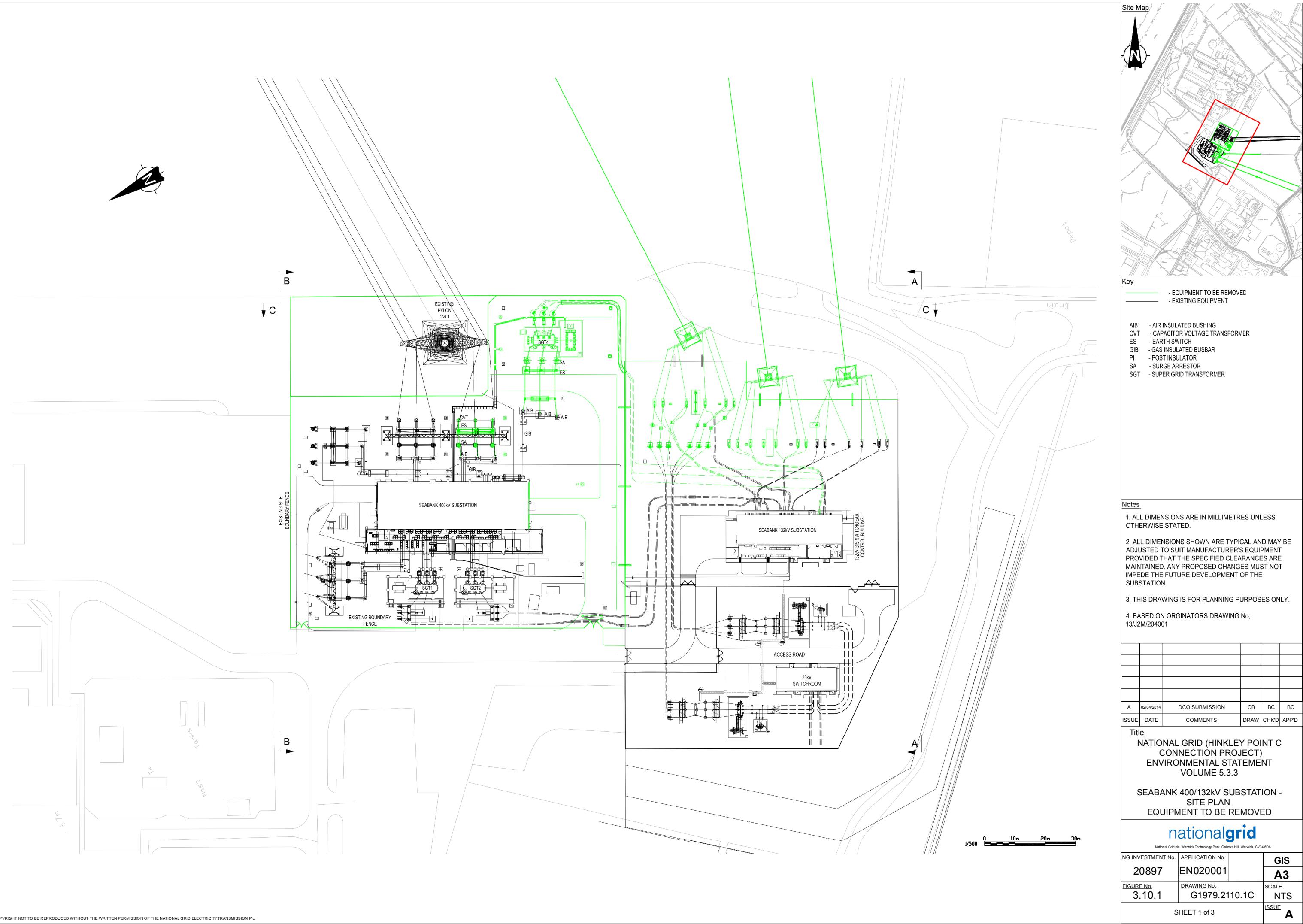
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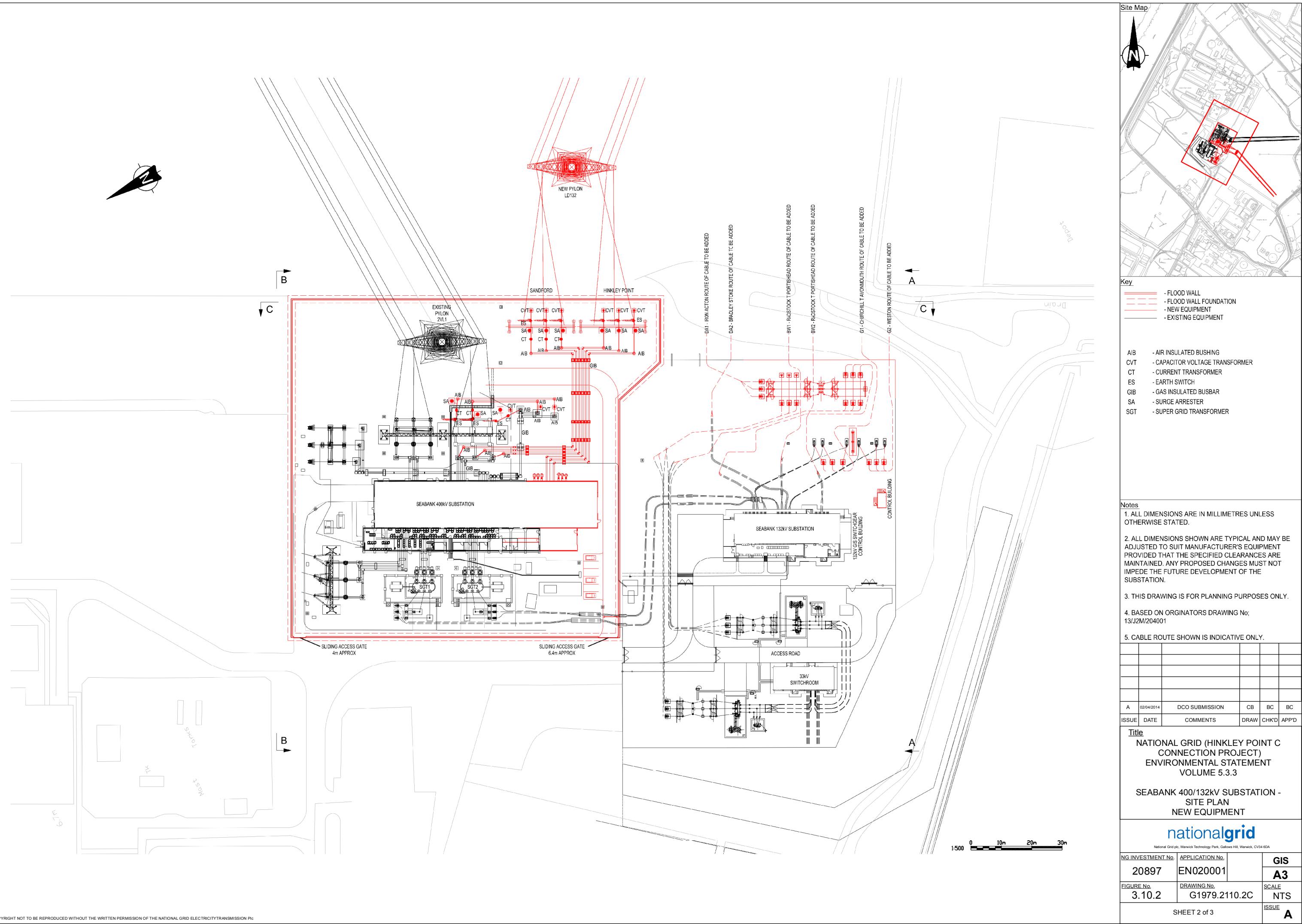
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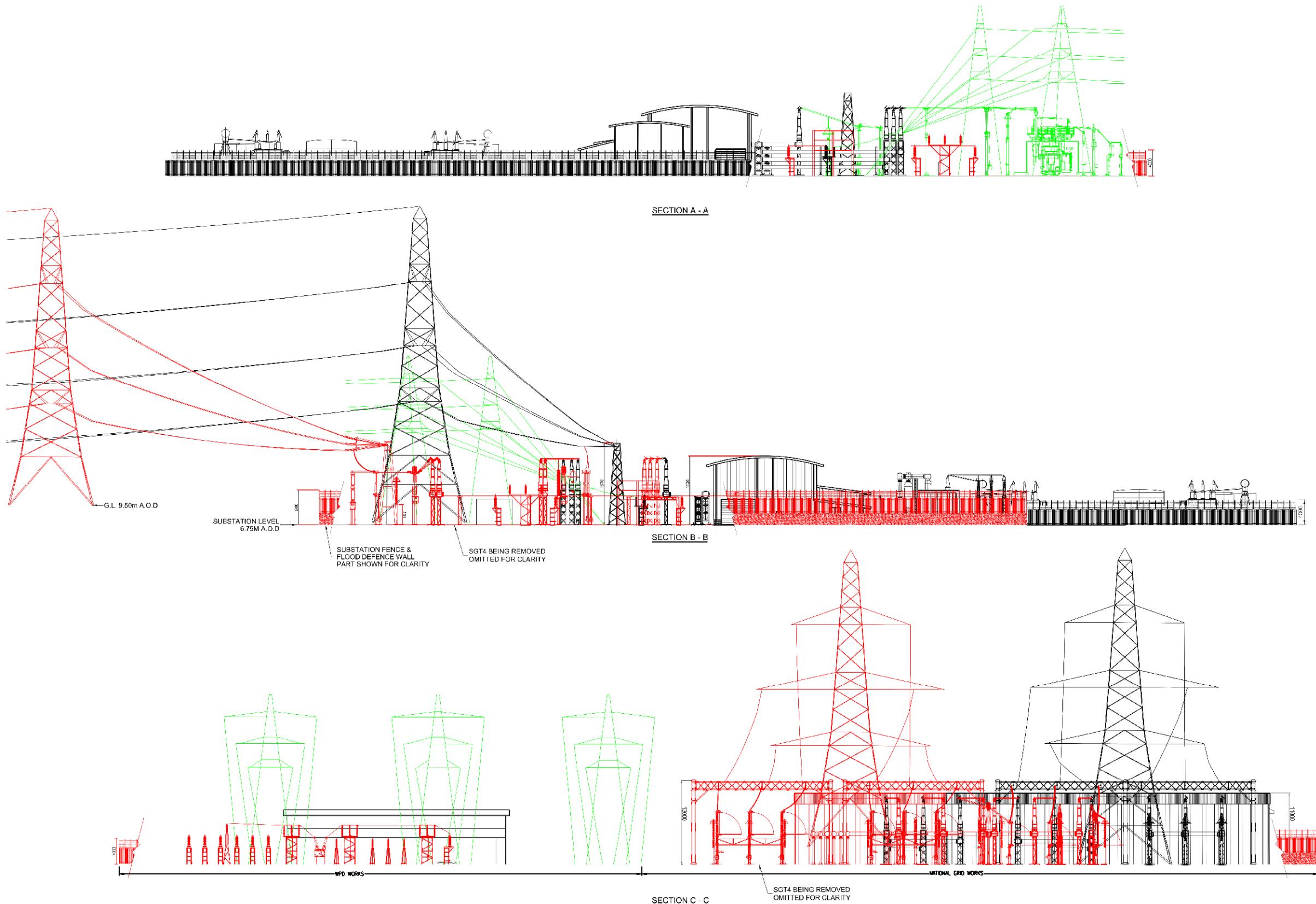
National Grid plc, Warwick Technology Park, Galows Hill, Warwick, CV34 6DA

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3.9.2	G1979.2109.2D	NTS
SHEET 2 of 2		ISSUE
		A

Figure 3.10 - Seabank 400/132kV Substation







Key:

- NEW EQUIPMENT
- EQUIPMENT BEING REMOVED
- EXISTING EQUIPMENT

Notes:

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.
2. ALL DIMENSIONS SHOWN ARE TYPICAL AND MAY BE ADJUSTED TO SUIT MANUFACTURER'S EQUIPMENT PROVIDED THAT THE SPECIFIED CLEARANCES ARE MAINTAINED. ANY PROPOSED CHANGES MUST NOT IMPEDE THE FUTURE DEVELOPMENT OF THE SUBSTATION.
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SEABANK 400/132kV SUBSTATION - SITE ELEVATIONS

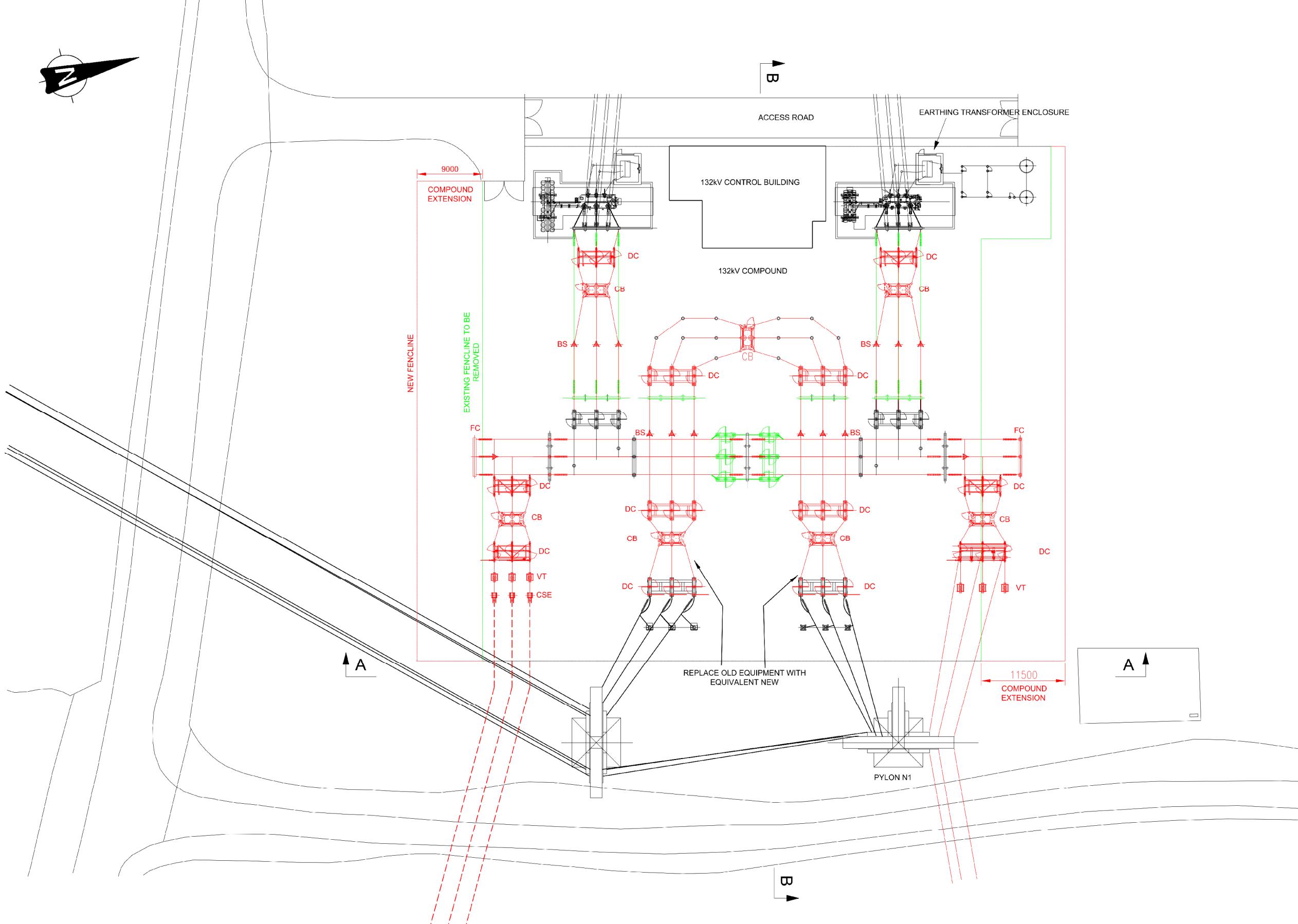
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nationalgrid

National Grid plc, Warwick Technology Park, Galows Hill, Warwick, CV34 6DA

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FIGURE No.	DRAWING No.	SCALE
3.10.3	G1979.2110.3D	NTS
SHEET 3 of 3		ISSUE
		A

Figure 3.11 - Churchill 132/33kV Substation



Key:

- EXISTING - BLACK
- EQUIPMENT TO BE REMOVED - GREEN
- NEW EQUIPMENT - RED
- CSE - CABLE SEALING END
- BS - BUSBAR SUPPORT
- DC - DISCONNECTOR
- CB - CIRCUIT BREAKER
- FC - FLEXIBLE CONDUCTOR SUPPORT
- VT - VOLTAGE TRANSFORMER
- UNDERGROUND CABLE - RED LINE

Notes:
CABLE ROUTE SHOWN IS INDICATIVE ONLY

A	02/04/2014	DCO SUBMISSION	CB	BC	BC
ISSUE	DATE	COMMENTS	DRAW	CHKD	APP'D

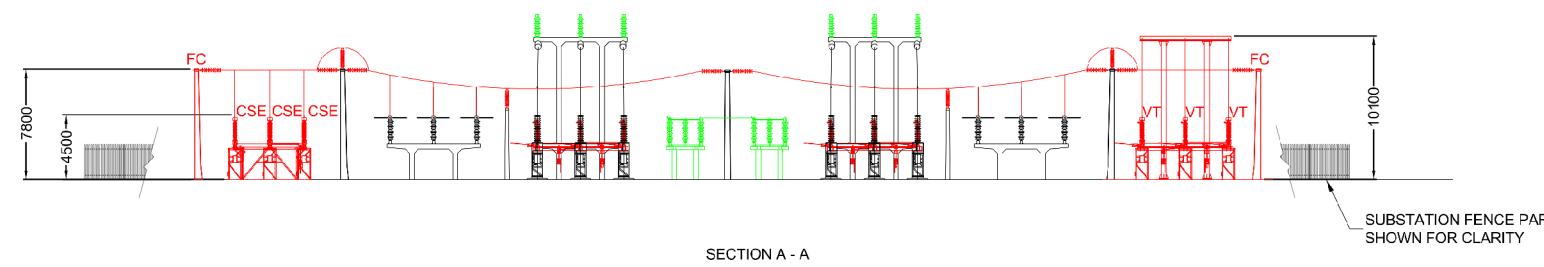
Title:
NATIONAL GRID (HINKLEY POINT C
CONNECTION PROJECT)
ENVIRONMENTAL STATEMENT
VOLUME 5.3.3

CHURCHILL 132/33kV SUBSTATION -
SITE PLAN

nationalgrid

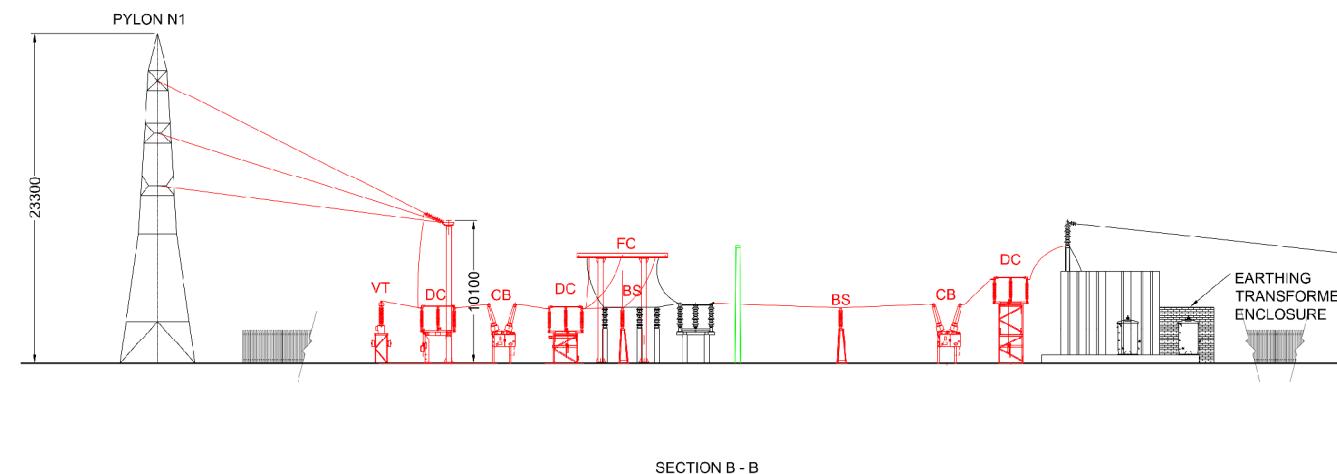
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FIGURE No.	DRAWING No.	SCALE
3.11.1	G1979.2111.1C	NTS
SHEET 1 of 2		ISSUE
		A



Key

EXISTING - BLACK
 EQUIPMENT TO BE REMOVED - GREEN
 NEW EQUIPMENT - RED
 CSE - CABLE SEALING END
 BS - BUSBAR SUPPORT
 DC - DISCONNECTOR
 CB - CIRCUIT BREAKER
 FC - FLEXIBLE CONDUCTOR SUPPORT
 VT - VOLTAGE TRANSFORMER



Notes

A	02/04/2014	DCO SUBMISSION	CB	BC	BC
ISSUE	DATE	COMMENTS	DRAW	CHKD	APP'D

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NATIONAL GRID (HINKLEY POINT C
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 ENVIRONMENTAL STATEMENT
 VOLUME 5.3.3

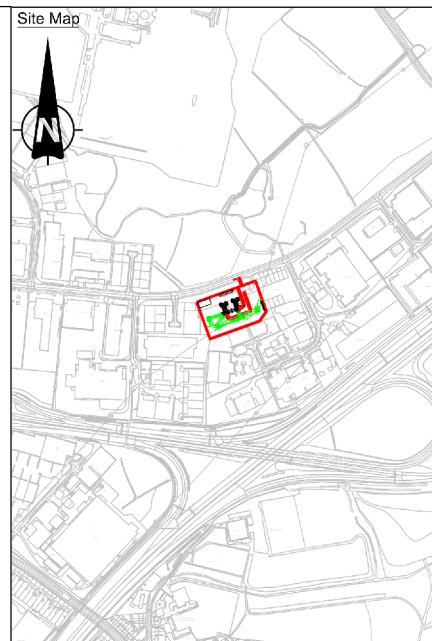
CHURCHILL 132/33KV SUBSTATION -
 SITE ELEVATIONS

nationalgrid

National Grid plc, Warwick Technology Park, Galows Hill, Warwick, CV34 6DA

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FIGURE No.	DRAWING No.	SCALE
3.11.2	G1979.2111.2C	NTS
SHEET 2 of 2		ISSUE
		A

Figure 3.12 - Avonmouth 132/33kV Substation



Key

EXISTING - BLACK

EQUIPMENT TO BE REMOVED - GREEN

NEW EQUIPMENT - RED

CSE - CABLE SEALING END

BS - BUSBAR SUPPORT

DC - DISCONNECTOR

OH - OVERHEAD TERMINATION

— — UNDERGROUND CABLE

Notes
CABLE ROUTE SHOWN IS INDICATIVE
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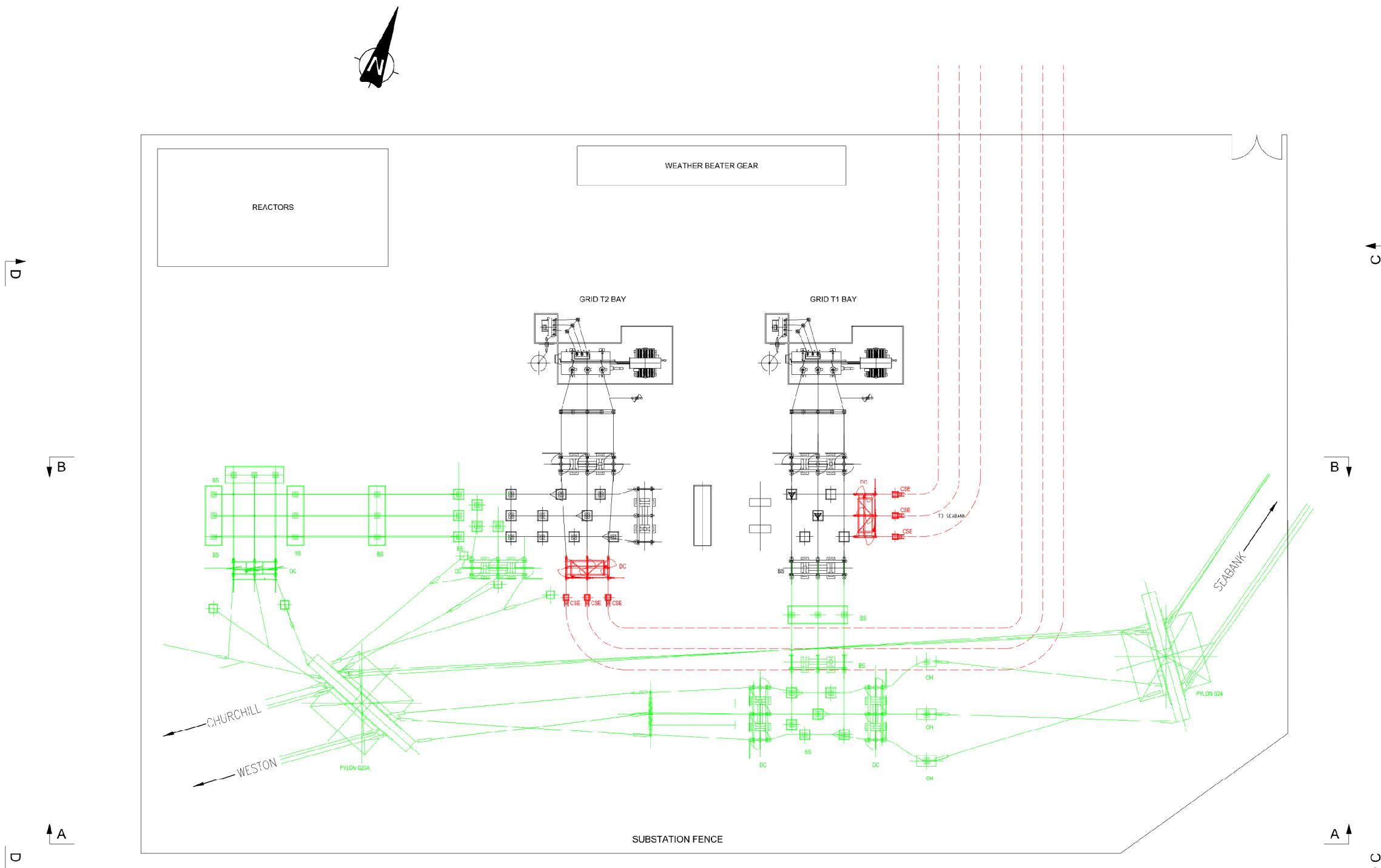
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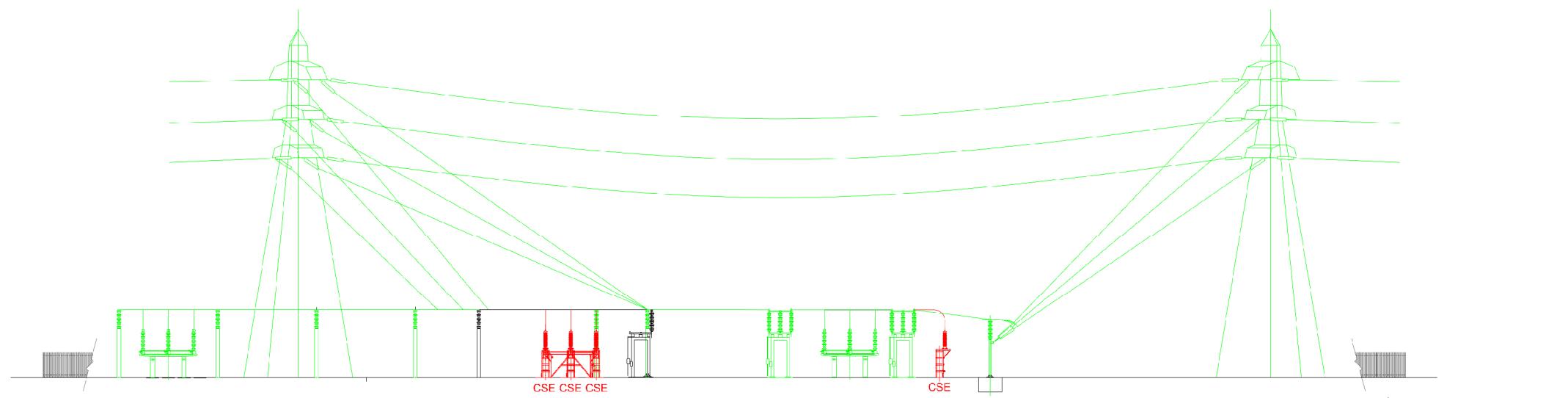
AVONMOUTH 132/33kV SUBSTATION - SITE PLAN

nationalgrid

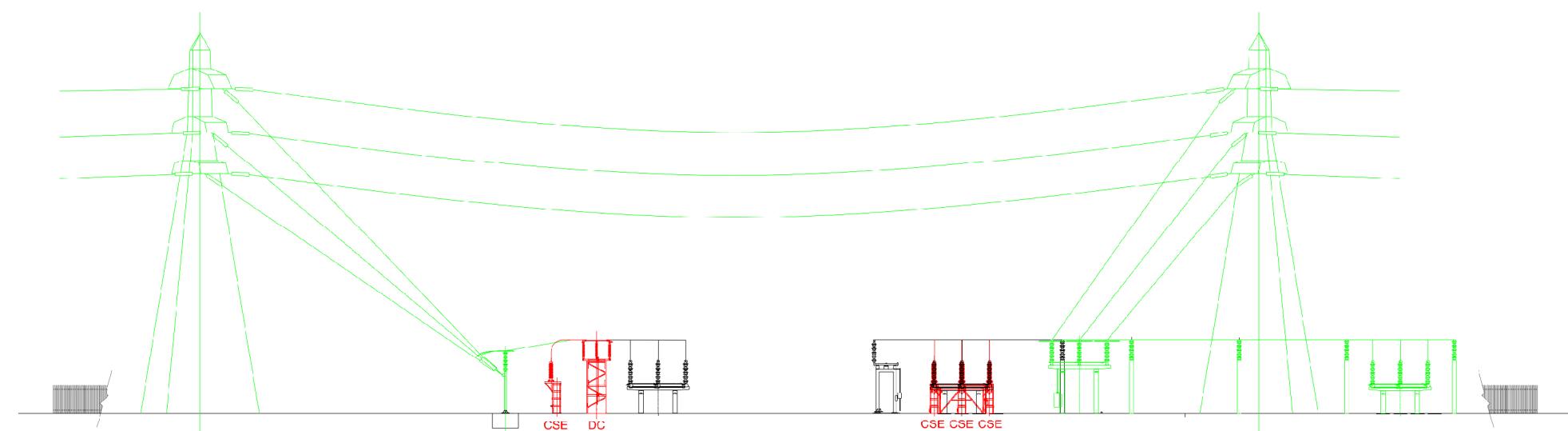
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SHEET 1 of 2		ISSUE
		A

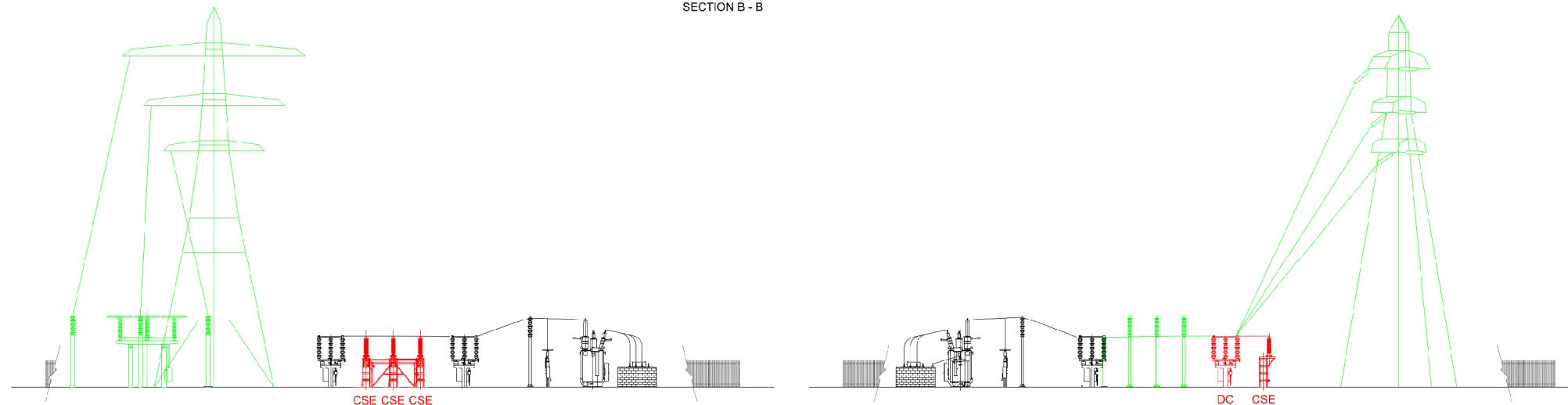




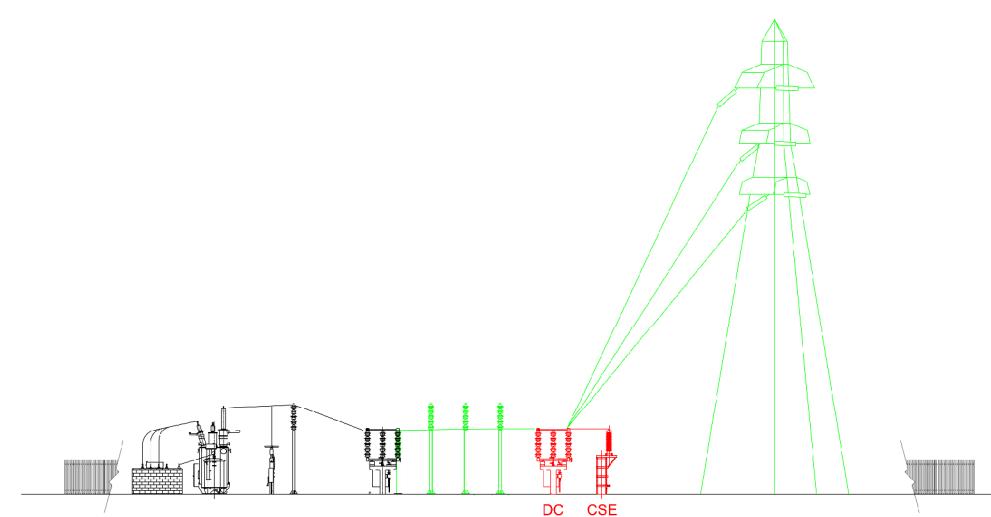
SECTION A - A



SECTION B - B



SECTION C - C



SECTION D - D

Key
 EXISTING - BLACK
 EQUIPMENT TO BE REMOVED - GREEN
 NEW EQUIPMENT - RED
 CSE - CABLE SEALING END
 DC - DISCONNECTOR

Notes

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Title

NATIONAL GRID (HINKLEY POINT C
 CONNECTION PROJECT)
 ENVIRONMENTAL STATEMENT
 VOLUME 5.3.3

AVONMOUTH 132/33kV SUBSTATION -
 SITE ELEVATIONS

nationalgrid

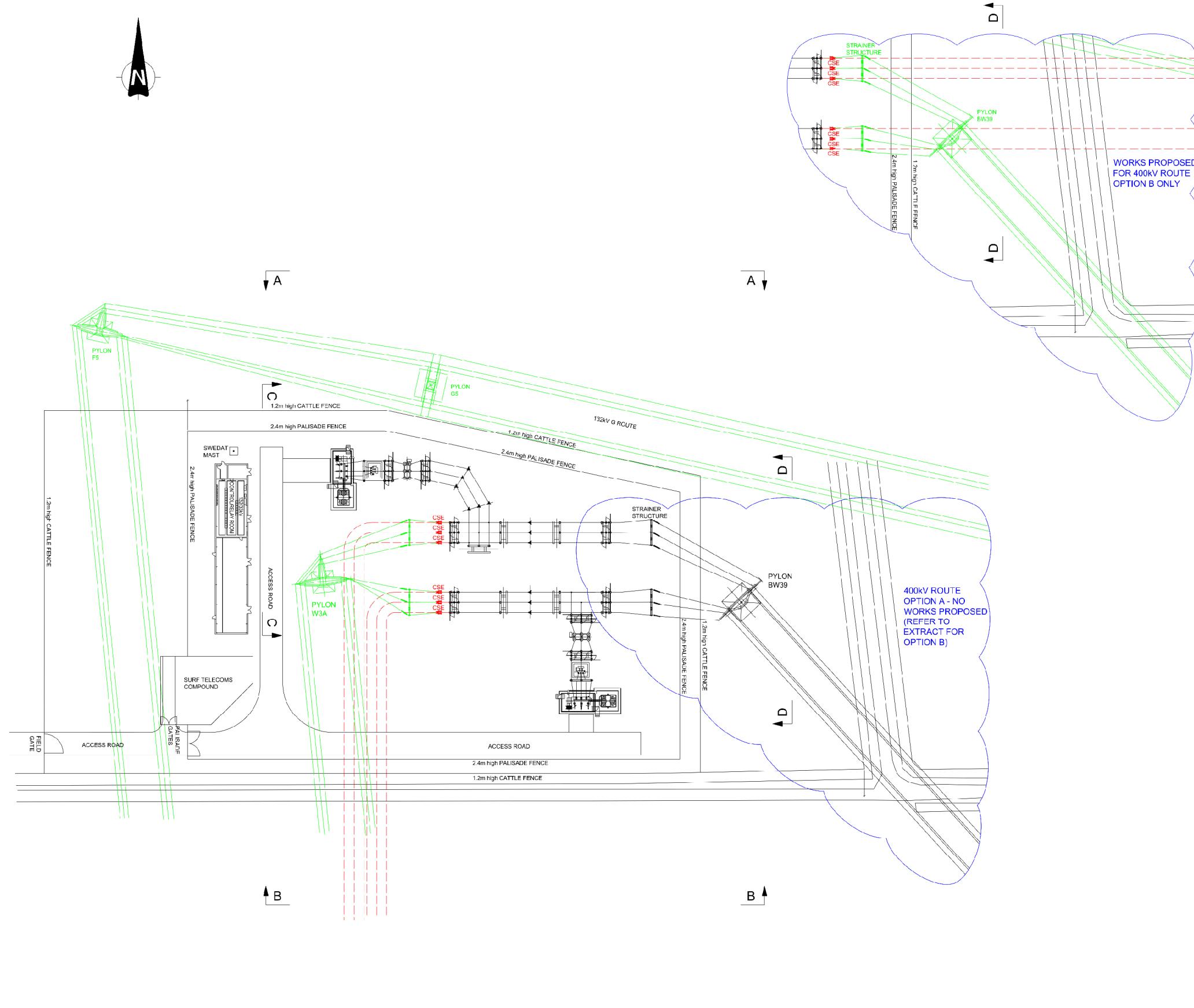
National Grid plc, Warwick Technology Park, Galows Hill, Warwick, CV34 6DA

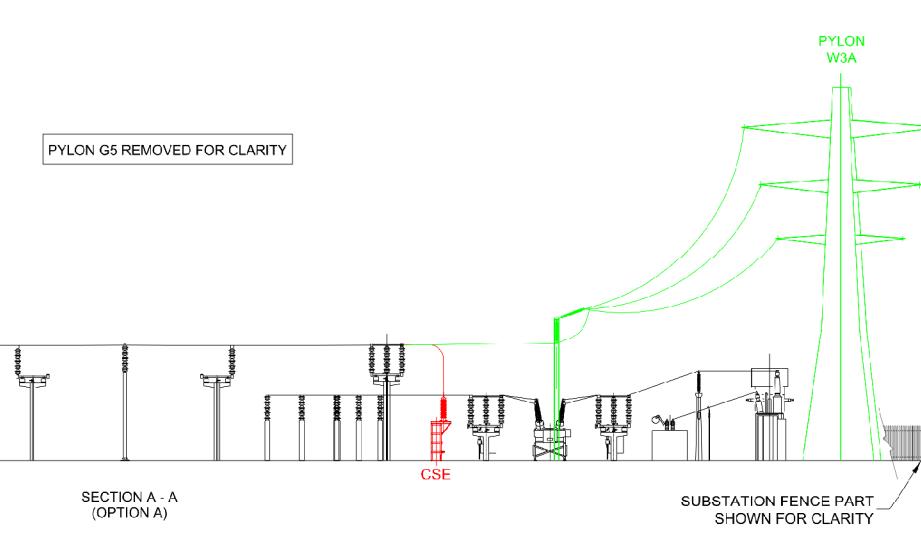
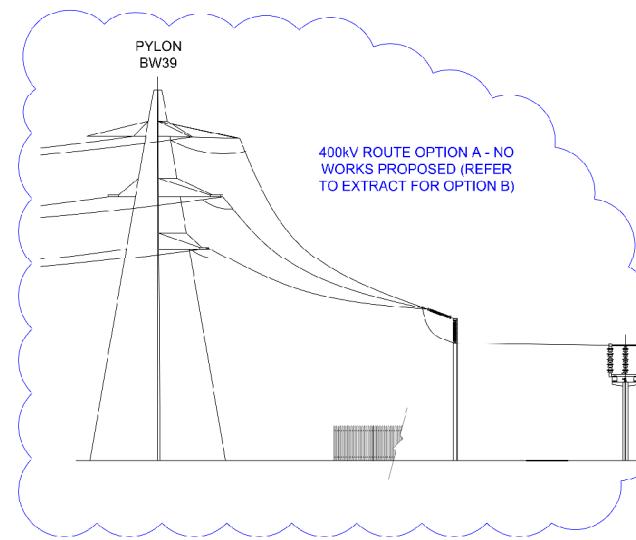
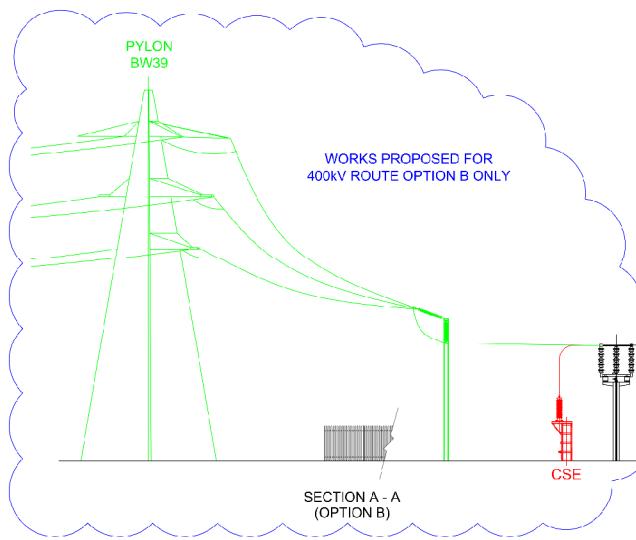
NG INVESTMENT No.	APPLICATION No.	GIS
20897	EN020001	A3
FIGURE No.	DRAWING No.	SCALE
3.12.2	G1979.2112.2C	NTS

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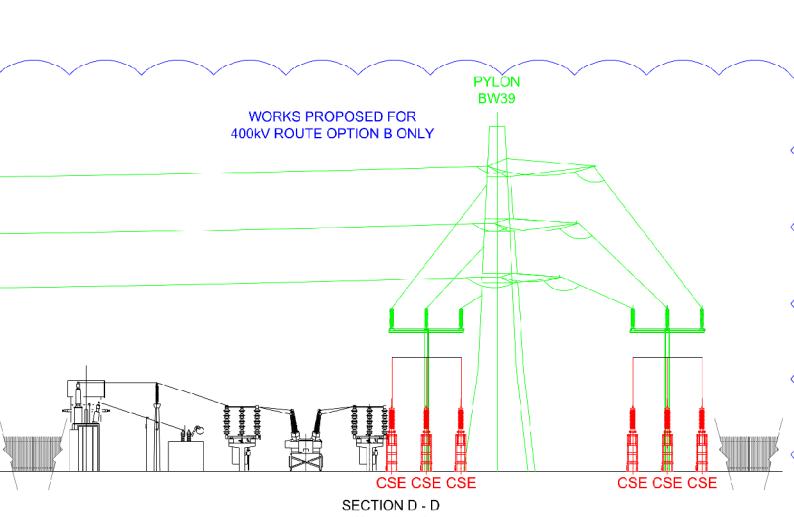
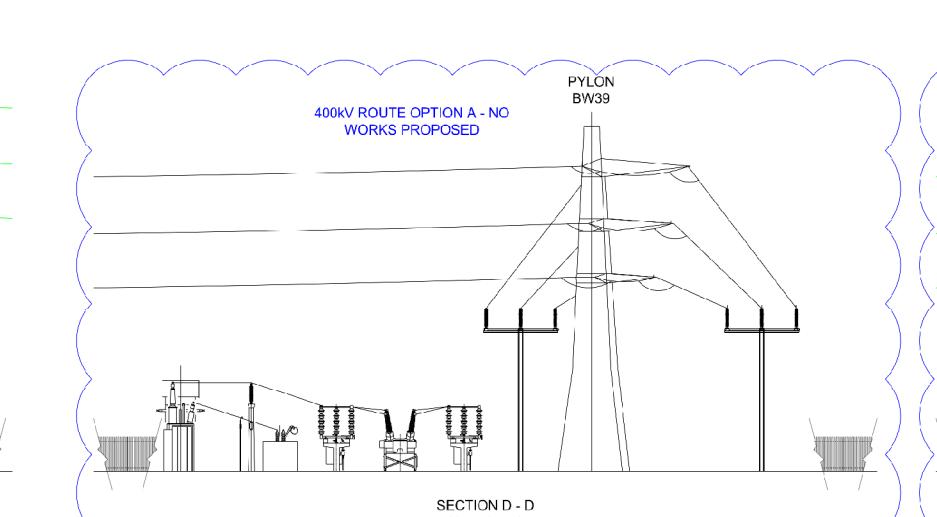
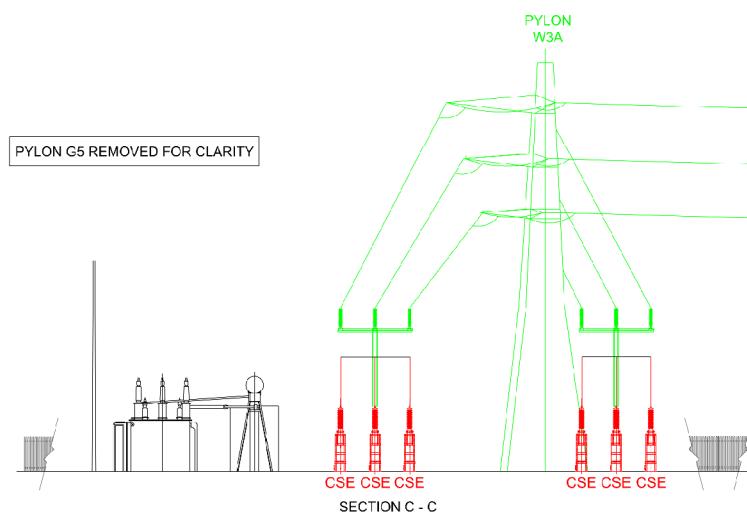
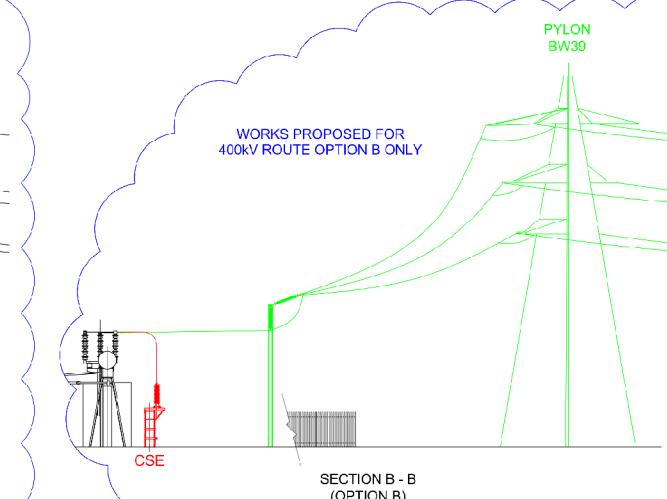
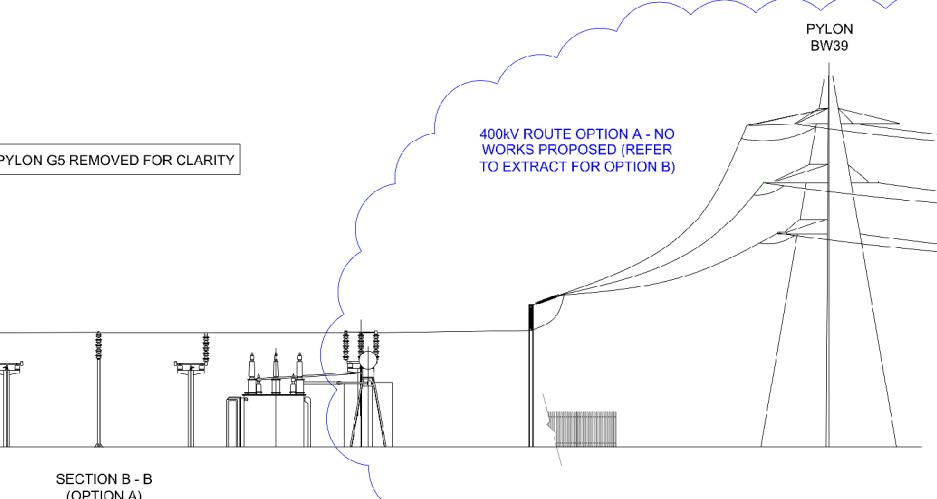
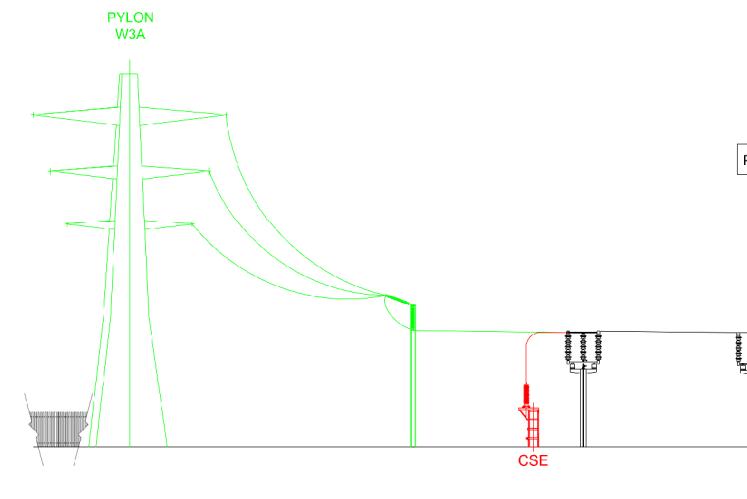
ISSUE A

Figure 3.13 - Portishead 132/33kV Substation





Key
 EXISTING - BLACK
 EQUIPMENT TO BE REMOVED - GREEN
 NEW EQUIPMENT - RED
 CSE - CABLE SEALING END



Notes

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NATIONAL GRID (HINKLEY POINT C CONNECTION PROJECT)
ENVIRONMENTAL STATEMENT
VOLUME 5.3.3

PORTISHEAD 132/33kV SUBSTATION - SITE ELEVATIONS

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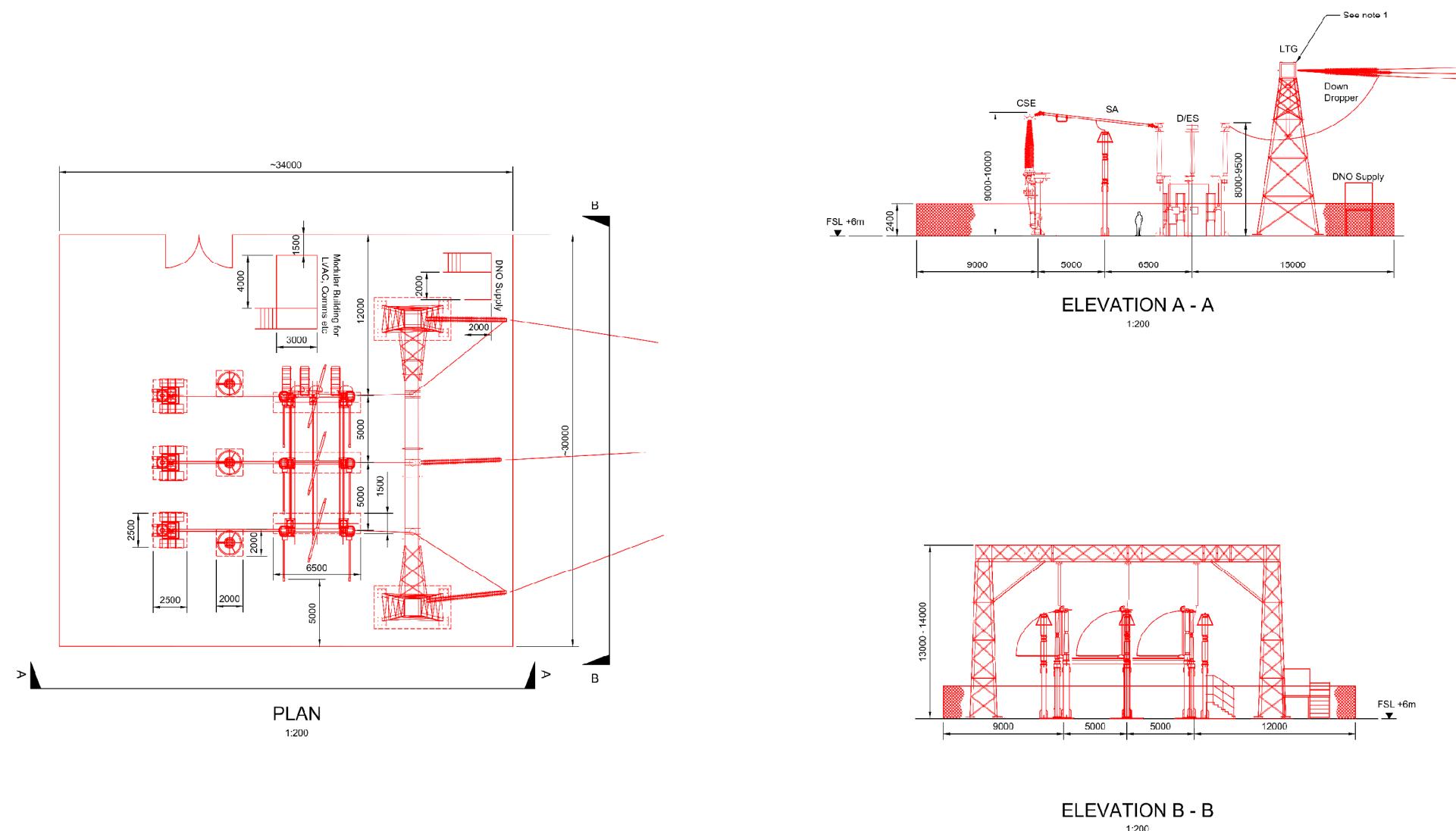
National Grid plc, Warwick Technology Park, Gallops Hill, Warwick, CV34 6DA

NG INVESTMENT No.	APPLICATION No.	GIS
20897	EN020001	A3
FIGURE No.	DRAWING No.	SCALE
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Figure 3.14 - Bridgwater Tee Cable Sealing End Compounds



Key	
—	New Equipment
CSE	- Cable Sealing End
SA	- Surge Arrester
D/ES	- Disconnector/Earth Switch
LTG	- Low Tension Gantry
—	- Equipment Foundations

Notes

1. For illustration purpose only.
2. Proposed arrangement shown for indicative purposes only. Dimensions and design may vary depending on site and installation conditions.
3. Sensitive equipment to be installed at a minimum of 7.6m AOD according to Flood Risk Assessment 10/J2M/2046931 P2 - ES Volume 5.23.1.
4. Drawing only illustrates principal CSEC structures. Provision for lighting and security to be designed as requested. Permanent lighting to be for access only.

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NATIONAL GRID (HINKLEY POINT C CONNECTION PROJECT) ENVIRONMENTAL STATEMENT VOLUME 5.3.3

BRIDGWATER TEE CABLE SEALING END COMPOUNDS

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20897	EN020001	A3
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3.14	G1979.2114.1C	NTS

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