

5. Application Drawings

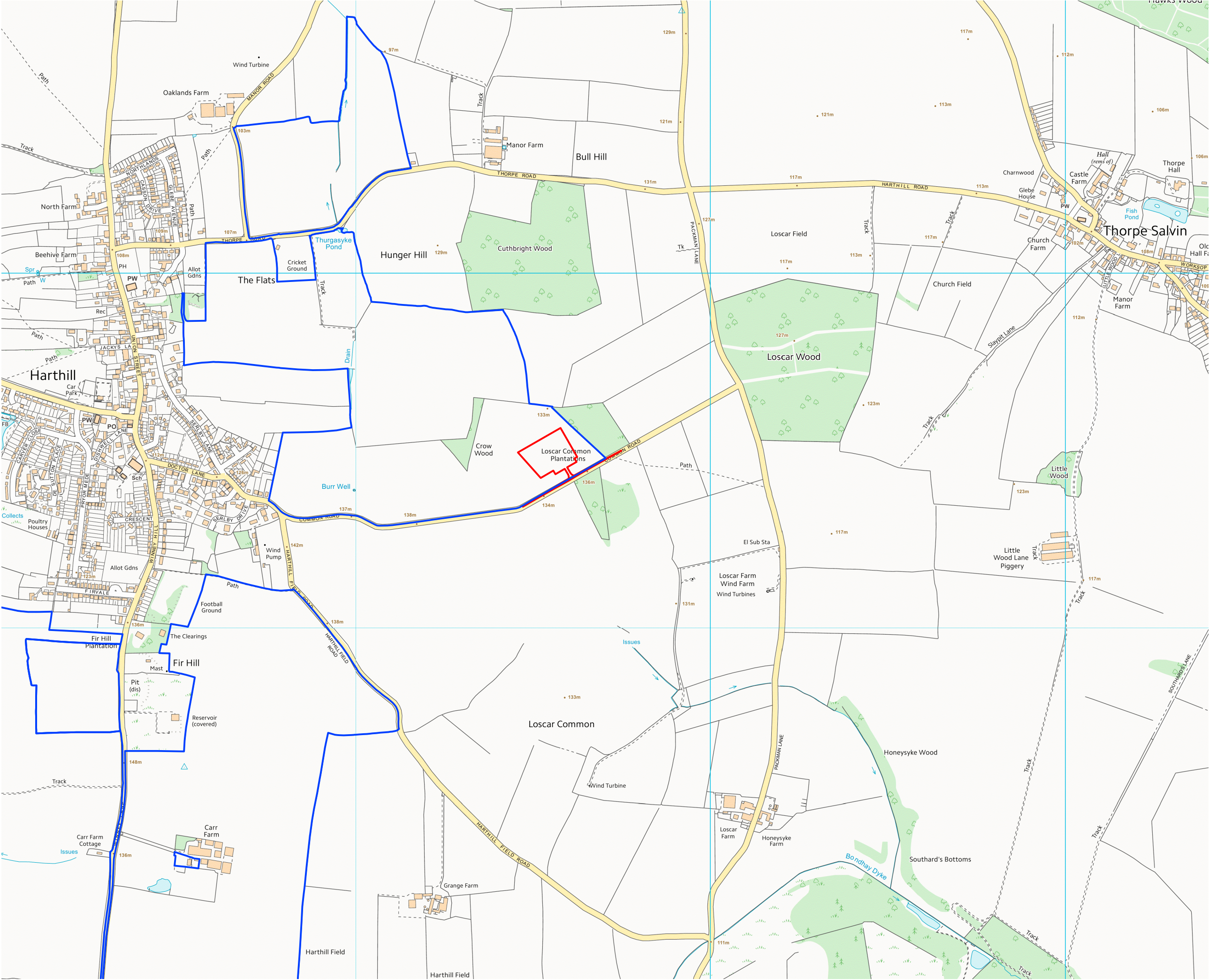
Land adjacent to
Common Road, Harthill, Rotherham

Construction of a well site and creation of a new access track, mobilisation of drilling, ancillary equipment and contractor welfare facilities to drill and pressure transient test a vertical hydrocarbon exploratory core well and mobilisation of workover rig, listening well operations, and retention of the site and wellhead assembly gear for a temporary period of five years on land adjacent to Common Road, near Harthill.

May 2017

List of Application Plans

P304-S2-PA-00 Rev A	Strategic Location Plan
P304-S2 -PA-01 Rev G	Application Site Plan
P304-S2-PA-04 Rev C	Existing Ground Plan
P304-S2-PA-05 Rev B	Proposed Site Entrance & Highway works
P304-S2-PA-06 Rev C	Proposed Site Layout Plan - Construction
P304-S2-PA-07 Rev F	Proposed Site Layout Plan - Drilling Stage
P304-S2-PA-08 Rev B	Proposed Site Layout Plan - Listening Stage
P304-S2-PA-09 Rev B	Proposed Site Restoration
P304-S2-PA-10 Rev B	Proposed Lighting Plan - Drilling & Coring
P304-S2-PA-11 Rev B	Proposed Drainage Plan
P304-S2-PA-12 Rev B	Proposed Site Layout Plan - Suspension
P304-S2-PA-13 Rev B	Proposed Internal Access Plan
P304-S2-PA-16 Rev A	Proposed Sections & Details
P304-S2-PA-17 Rev B	Proposed Site Layout Plan - Possible workover
P304-S2-PA-21 Rev A	Parameter Sections - Develop. & Establish
P304-S2-PA-22 Rev A	Parameter Sections - Drilling & Coring
P304-S2-PA-23 Rev A	Parameter Sections - Suspension
P304-S2-PA-24 Rev A	Parameter Sections - Work over of Well
P304-S2-PA-25 Rev A	Parameter Sections - Listening Stage
P304-S2-PA-26 Rev A	Parameter Sections – Abandonment
P304-S2-PA-30 Rev A	Heras Fence Details
P304-S2-PA-31	Lighting Examples



APPLICATION BOUNDARY
AND EXTENT OF SURFACE
WORKS

LAND WITHIN APPLICANT
CONTROL

A	UPDATED FOR APPROVAL	25.05.17
REV	DESCRIPTION	DATE

Project Title: P304 - S2
COMPOUND

Drawing Title: STRATEGIC
LOCATION PLAN

Drawing Status: FOR APPROVAL

Project Number: 17022

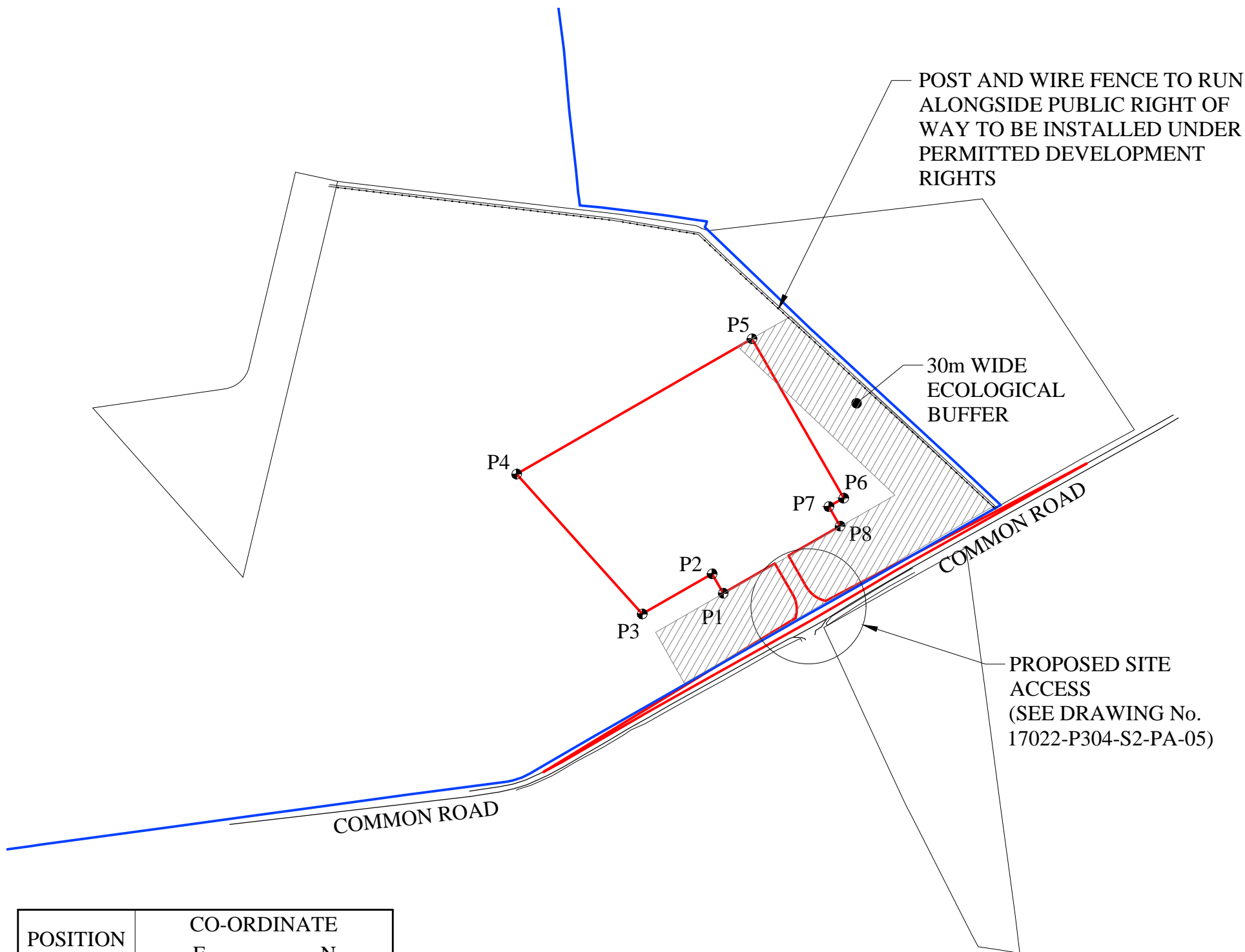
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Drawing Scale: 1:10,000

Paper Size: A3

Revision: A

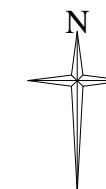
Date: 22.05.17



POSITION	CO-ORDINATE	
	E	N
P1	450563.105	380433.640
P2	450557.370	380443.608
P3	450521.599	380423.029
P4	450457.289	380494.708
P5	450577.773	380564.023
P6	450624.748	380482.371
P7	450617.200	380478.028
P8	450622.934	380468.060

APPLICATION BOUNDARY
AND EXTENT OF SURFACE
WORKS

LAND WITHIN APPLICANT
CONTROL



G	UPDATED FOR APPROVAL	25.05.17
F	UPDATED FOR APPROVAL	22.05.17
E	SITE POSITION ADJUSTED.	17.05.17
D	UPDATED FOR APPROVAL	11.05.17
C	UPDATED FOR APPROVAL	09.05.17
B	ECOLOGICAL BUFFER SHOWN. PERIMETER FENCE SHOWN. P4 RE-LOCATED.	03.05.17
A	CO-ORDINATES UPDATED TO SUIT BLUE LINE.	25.04.17
REV	DESCRIPTION	DATE

INEOS

Project Title:	P304 - S2 COMPOUND	
Drawing Title:	APPLICATION SITE PLAN	
Drawing Status:	APPROVAL	
Project Number:	17022	
Drawing Number:	P304-S2-PA-01	Revision: G
Drawing Scale:	1:2500	
Paper Size:	A3	Date: 06.04.17

AREA WITHIN RED LINE
BOUNDARY IS CURRENTLY
IN AGRICULTURAL USE

APPLICATION BOUNDARY
AND EXTENT OF SURFACE
WORKS

LAND WITHIN APPLICANT
CONTROL



C	UPDATED FOR APPROVAL	22.05.17
B	UPDATED FOR APPROVAL	18.05.17
A	UPDATED FOR APPROVAL	10.05.17
REV	DESCRIPTION	DATE

INEOS

Project Title: **P304 - S2
COMPOUND**

Drawing Title: **EXISTING GROUND PLAN**

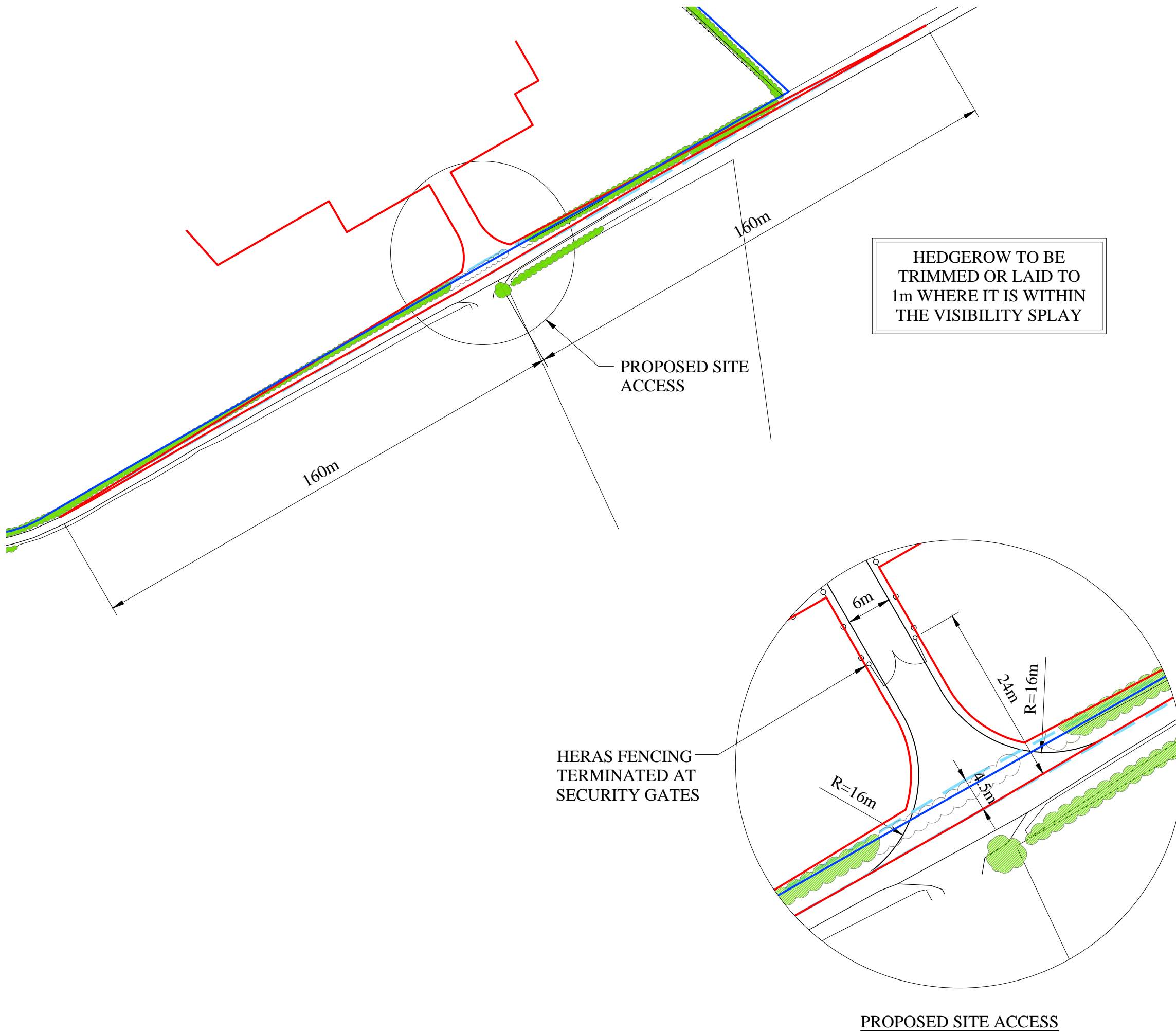
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Project Number: **17022**

Drawing Number: **P304-S2-PA-04** Revision: **C**

Drawing Scale: **1:1250**

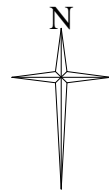
Paper Size: **A3** Date: **06.04.17**



APPLICATION BOUNDARY
AND EXTENT OF SURFACE
WORKS

LAND WITHIN APPLICANT
CONTROL

VISIBILITY SPLAYS
4.5m x 160m

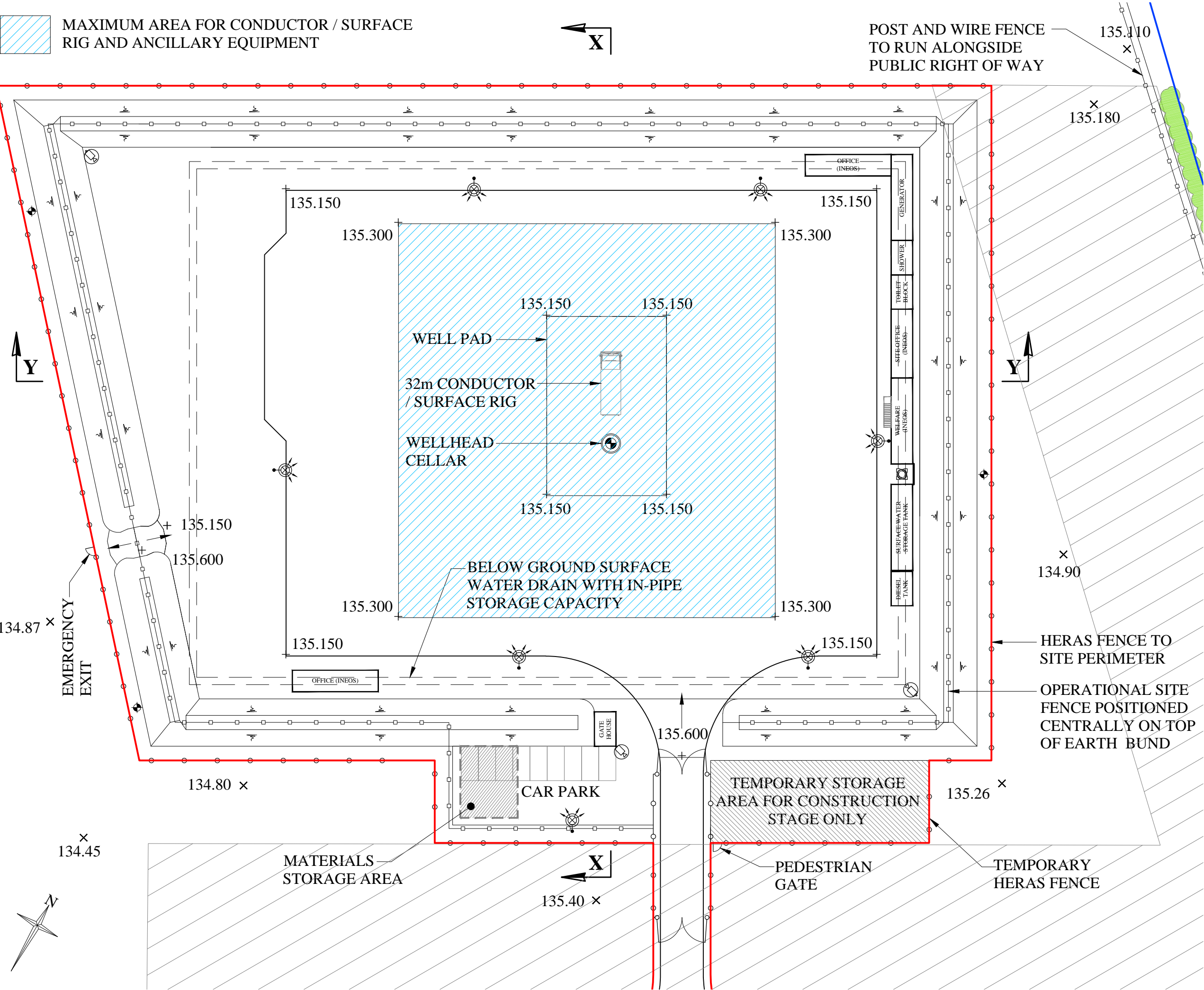


B	UPDATED FOR APPROVAL	22.05.17
A	UPDATED FOR APPROVAL	18.05.17
REV	DESCRIPTION	DATE



Project Title:	P304 - S2 COMPOUND	
Drawing Title:	PROPOSED SITE ENTRANCE AND HIGHWAY WORKS PLAN	
Drawing Status:	APPROVAL	
Project Number:	17022	
Drawing Number:	P304-S2-PA-05	Revision: B
Drawing Scale:	1:1000/500	
Paper Size:	A3	Date: 10.05.17

MAXIMUM AREA FOR CONDUCTOR / SURFACE RIG AND ANCILLARY EQUIPMENT



APPLICATION BOUNDARY AND EXTENT OF SURFACE WORKS

LAND WITHIN APPLICANT CONTROL

MONITORING BOREHOLE LOCATIONS ARE INDICATIVE AND WILL BE AGREED WITH THE ENVIRONMENT AGENCY

CCTV CAMERA LOCATIONS ARE INDICATIVE

MOVEABLE LIGHTING COLUMNS

WELLHEAD CELLAR

CATCH PIT WITH COVER

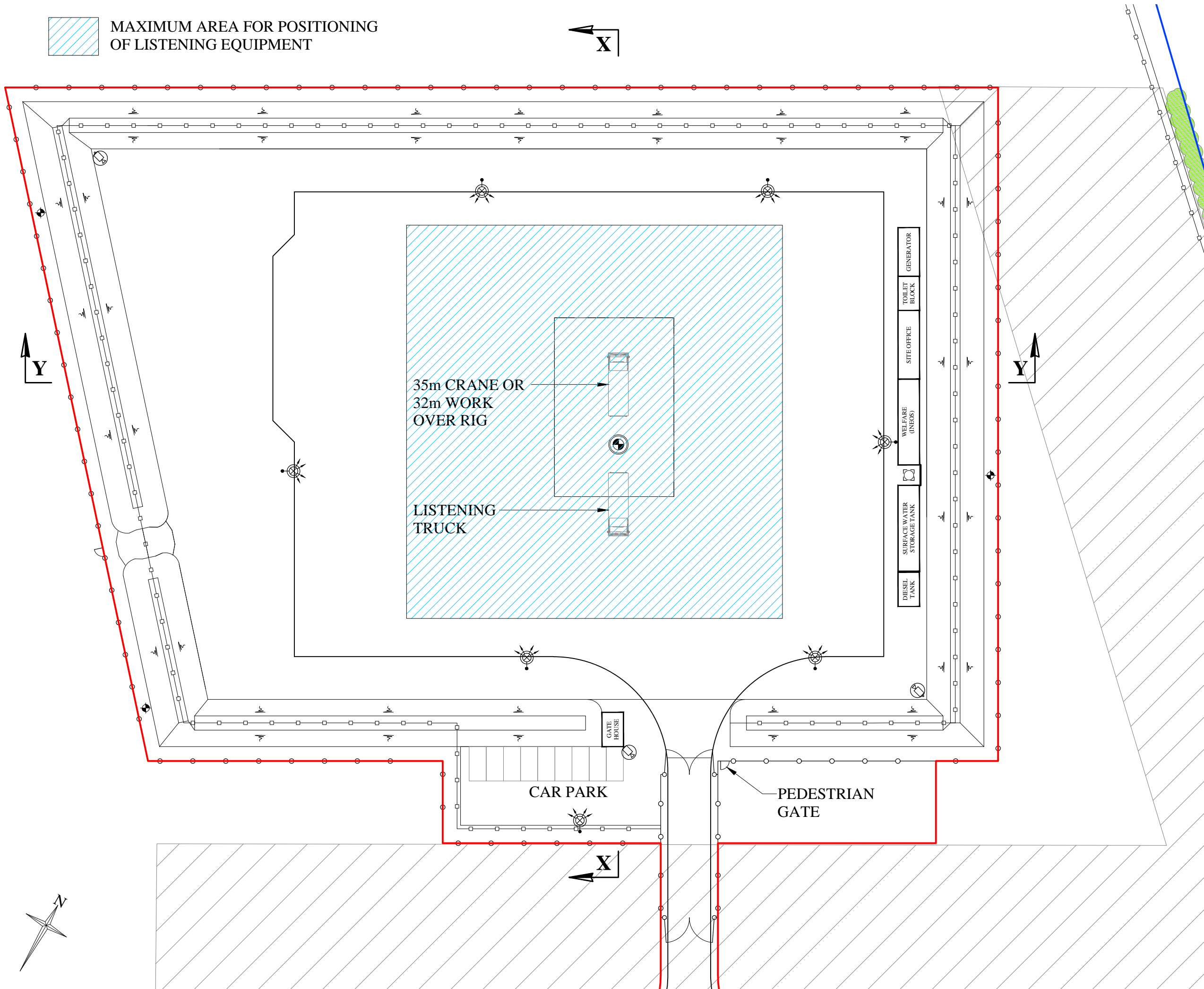
30m WIDE ECOLOGICAL BUFFER

C	UPDATED FOR APPROVAL	22.05.17
B	UPDATED FOR APPROVAL	18.05.17
A	UPDATED FOR APPROVAL	16.05.17
REV	DESCRIPTION	DATE

INEOS

Project Title: P304 - S2 COMPOUND
Drawing Title: PROPOSED SITE LAYOUT PLAN CONSTRUCTION STAGE
Development Stage: STAGE 1: SITE DEVELOPMENT AND ESTABLISHMENT

Drawing Status: APPROVAL
Project Number: 17022
Drawing Number: P304-S2-PA-06 Revision: C
Drawing Scale: 1:500
Paper Size: A3 Date: 10.05.17



APPLICATION BOUNDARY AND EXTENT OF SURFACE WORKS

LAND WITHIN APPLICANT CONTROL

MONITORING BOREHOLE LOCATIONS ARE INDICATIVE AND WILL BE AGREED WITH THE ENVIRONMENT AGENCY

CCTV CAMERA LOCATIONS ARE INDICATIVE

MOVEABLE LIGHTING COLUMNS

WELLHEAD CELLAR

CATCH PIT WITH COVER

30m WIDE ECOLOGICAL BUFFER

REV	DESCRIPTION	DATE
B	UPDATED FOR APPROVAL	22.05.17
A	UPDATED FOR APPROVAL	18.05.17

INEOS

Project Title: **P304 - S2 COMPOUND**

Drawing Title: **PROPOSED SITE LAYOUT PLAN LISTENING STAGE**

Development Stage: **STAGE 4: LISTENING STAGE**

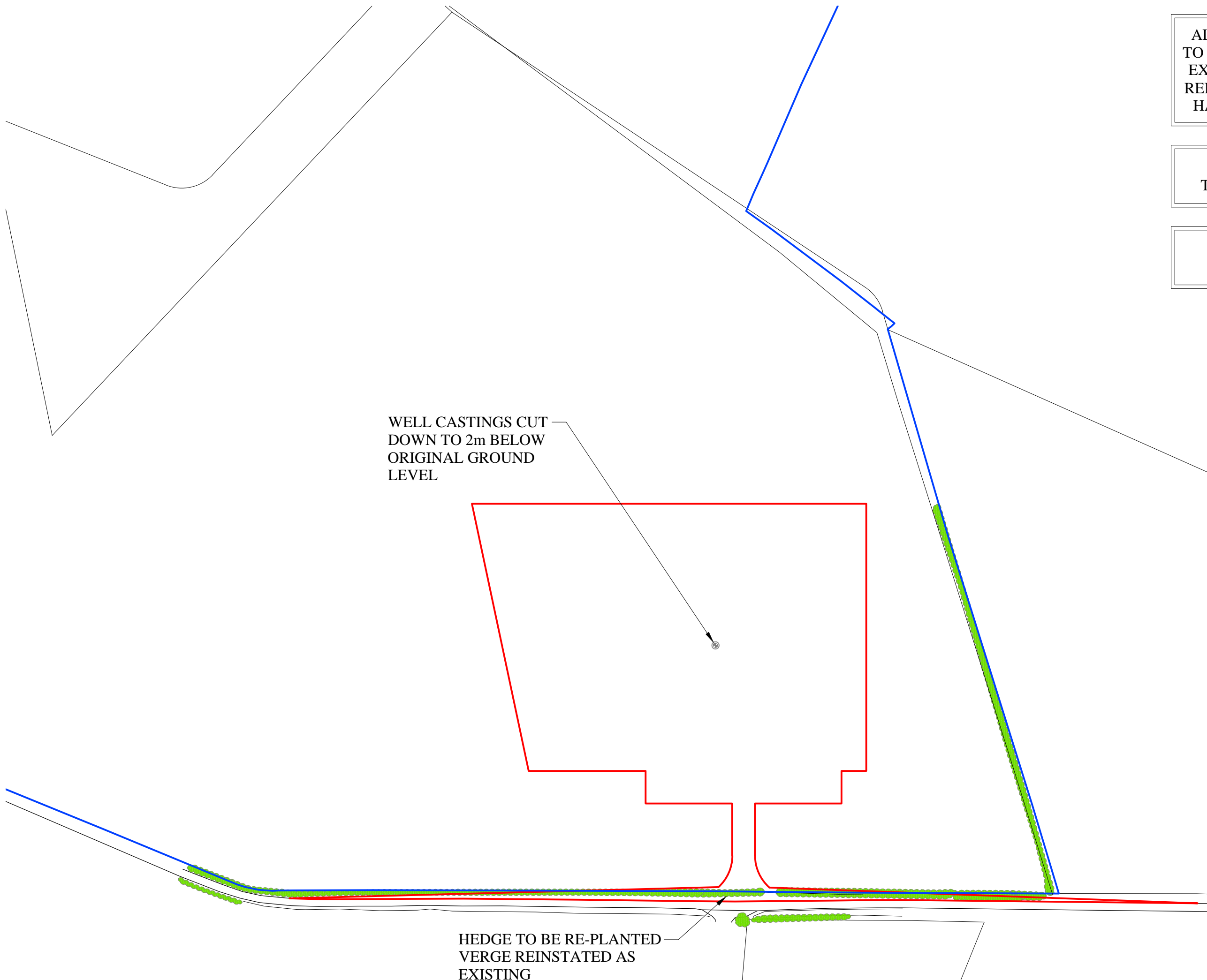
Drawing Status: **APPROVAL**

Project Number: **17022**

Drawing Number: **P304-S2-PA-08** Revision: **B**

Drawing Scale: **1:500**

Paper Size: **A3** Date: **10.05.17**



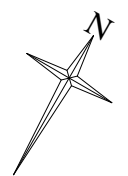
ALL IMPORTED MATERIAL
TO BE TAKEN OFF SITE WITH
EXISTING GROUND LEVELS
REINSTATED USING STORED
HARDCORE AND TOPSOIL.

SITE TO BE RESTORED
TO AGRICULTURAL USE

SITE SHOWN IN THE
FINAL STAGES

APPLICATION BOUNDARY
AND EXTENT OF SURFACE
WORKS

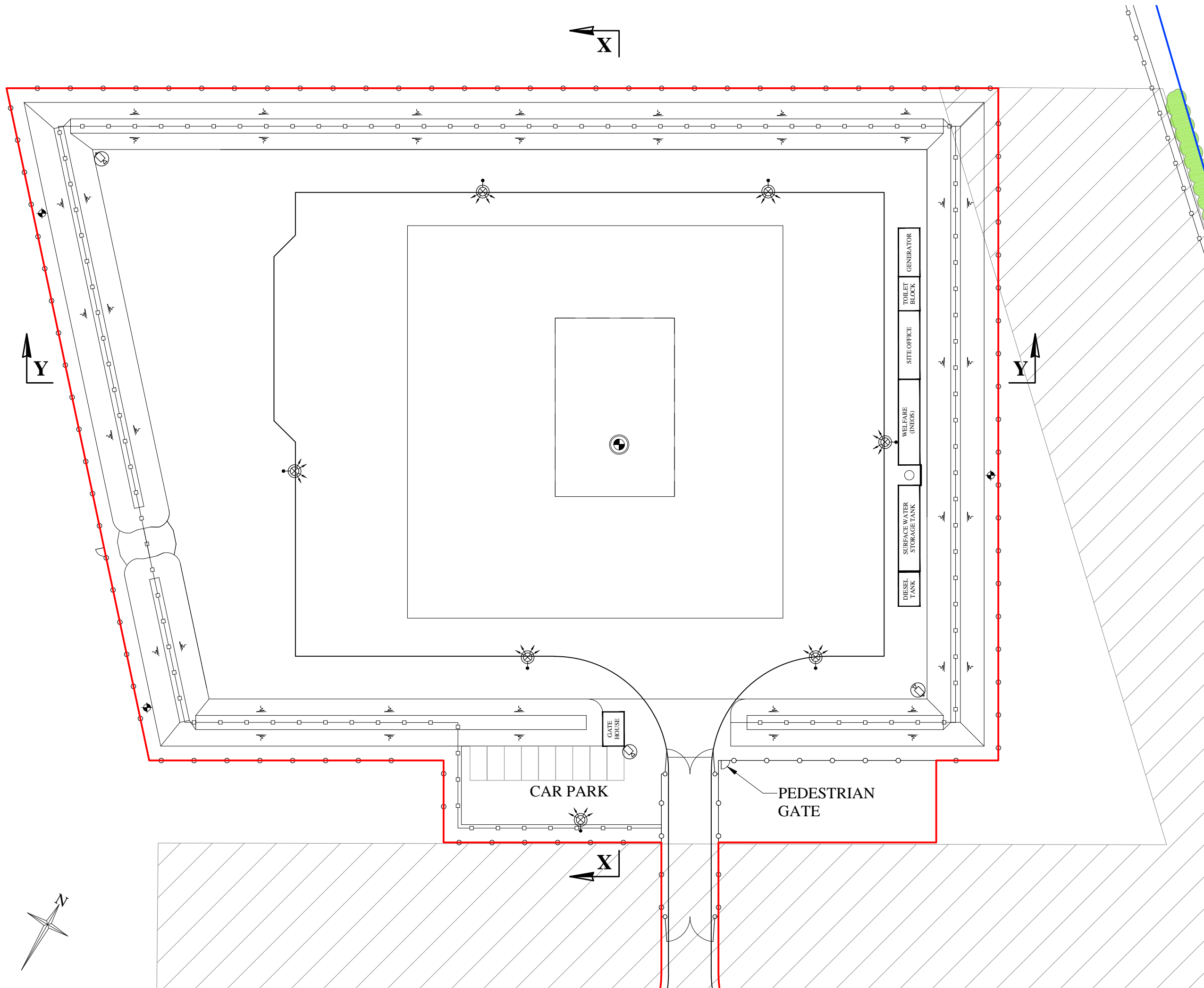
LAND WITHIN APPLICANT
CONTROL



B	UPDATED FOR APPROVAL	22.05.17
A	UPDATED FOR APPROVAL	18.05.17
REV	DESCRIPTION	DATE



Project Title:	P304 - S2 COMPOUND	
Drawing Title:	PROPOSED SITE RESTORATION	
Development Stage:	STAGE 5: ABANDONMENT AND RESTORATION	
Drawing Status:	APPROVAL	
Project Number:	17022	
Drawing Number:	P304-S2-PA-09	Revision: B
Drawing Scale:	1:1250	
Paper Size:	A3	Date: 10.05.17



APPLICATION BOUNDARY AND EXTENT OF SURFACE WORKS

LAND WITHIN APPLICANT CONTROL

MONITORING BOREHOLE LOCATIONS ARE INDICATIVE AND WILL BE AGREED WITH THE ENVIRONMENT AGENCY

CCTV CAMERA LOCATIONS ARE INDICATIVE

MOVEABLE LIGHTING COLUMNS

30m WIDE ECOLOGICAL BUFFER

REV	DESCRIPTION	DATE
B	UPDATED FOR APPROVAL	22.05.17
A	UPDATED FOR APPROVAL	18.05.17

INEOS

Project Title: **P304 - S2 COMPOUND**

Drawing Title: **PROPOSED SITE LAYOUT PLAN SUSPENSION STAGE**

Development Stage: **STAGE 3: SUSPENSION**

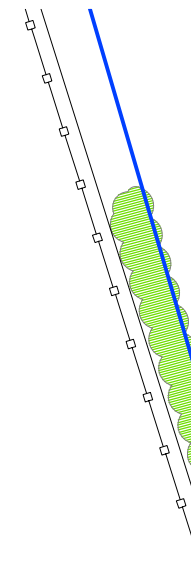
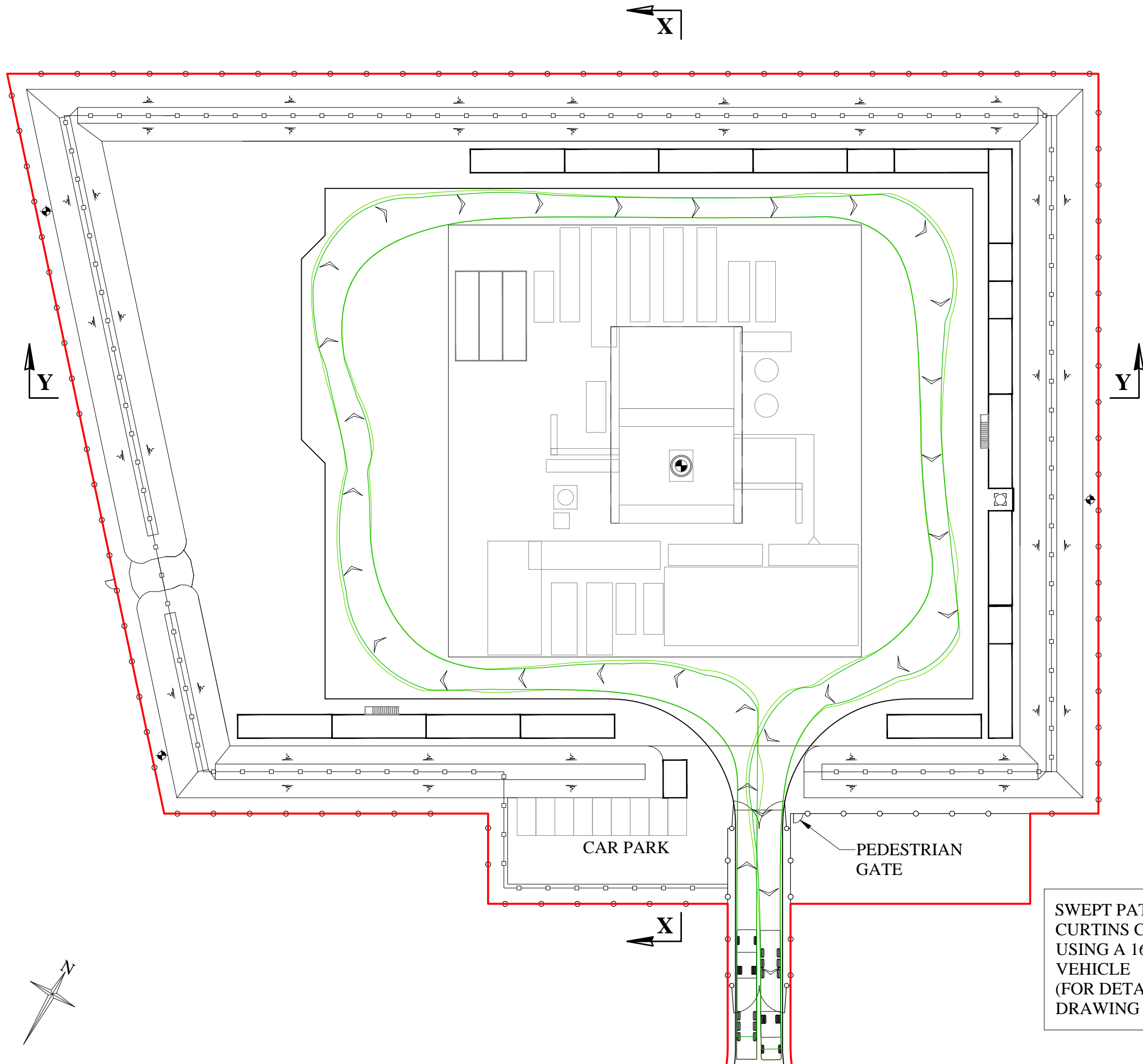
Drawing Status: **APPROVAL**

Project Number: **17022**

Drawing Number: **P304-S2-PA-12** Revision: **B**

Drawing Scale: **1:500**

Paper Size: **A3** Date: **10.05.17**



APPLICATION BOUNDARY
AND EXTENT OF SURFACE
WORKS

LAND WITHIN APPLICANT
CONTROL

MONITORING BOREHOLE
LOCATIONS ARE
INDICATIVE AND WILL
BE AGREED WITH THE
ENVIRONMENT AGENCY

B	UPDATED FOR APPROVAL	23.05.17
A	UPDATED FOR APPROVAL	18.05.17
REV	DESCRIPTION	DATE

INEOS

Project Title: P304 - S2
COMPOUND

Drawing Title: PROPOSED INTERNAL
ACCESS PLAN

Drawing Status: APPROVAL

Project Number: 17022

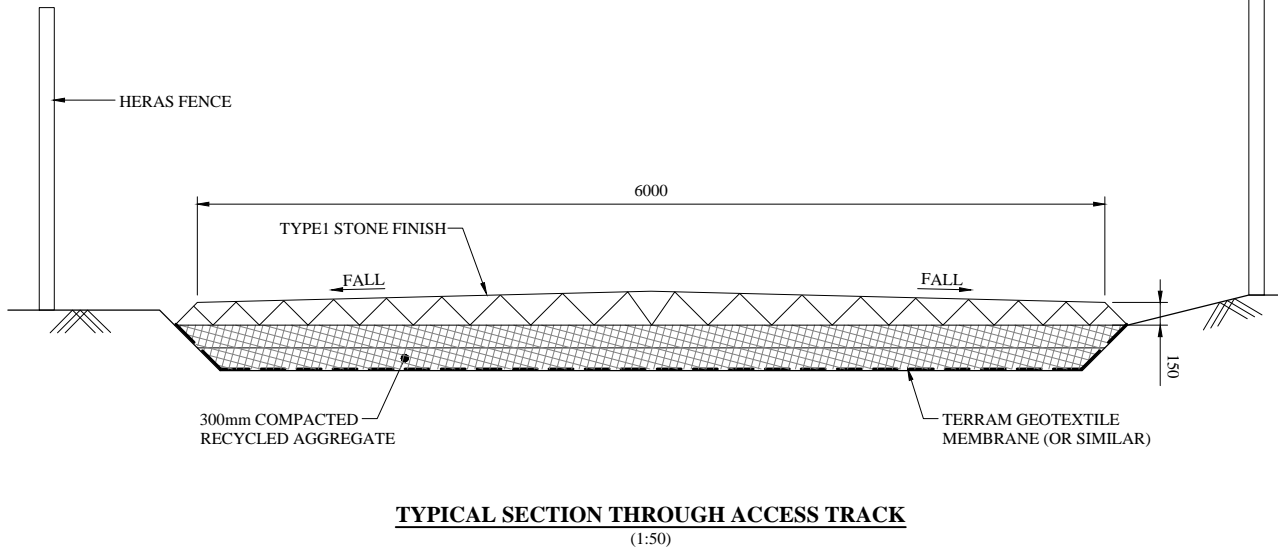
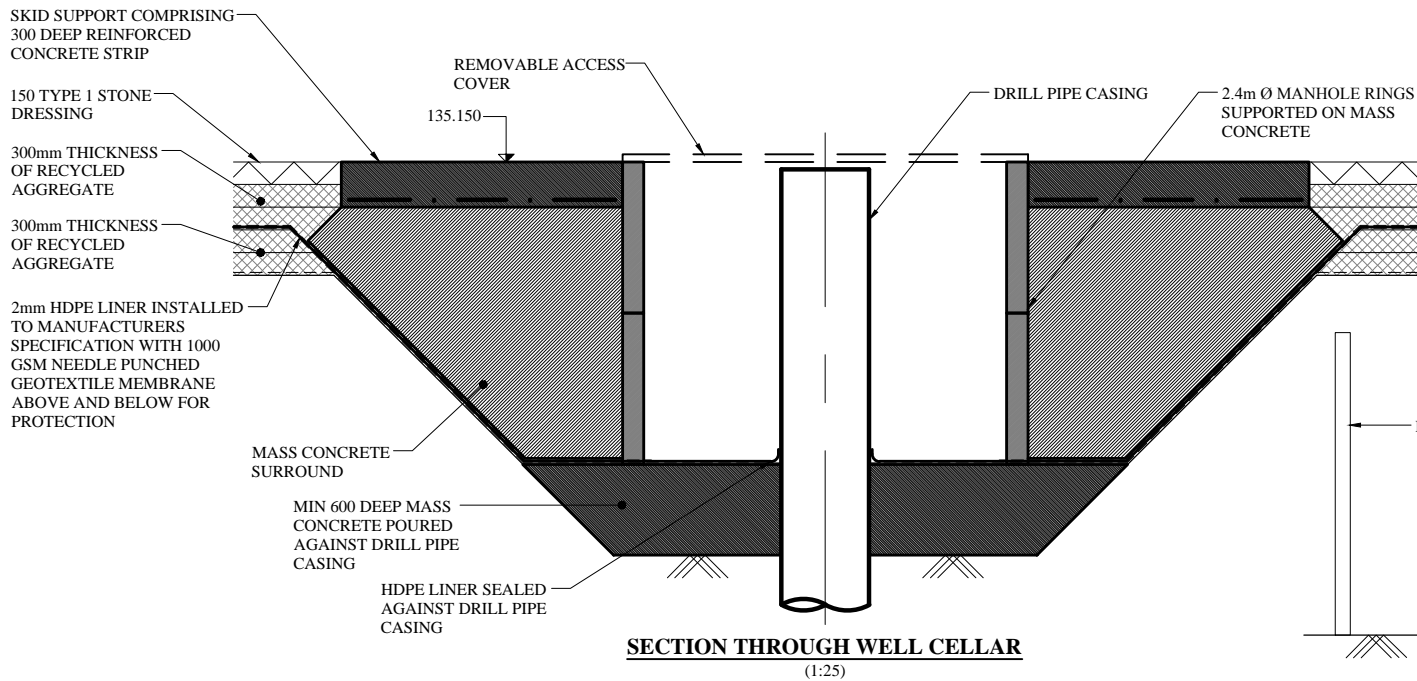
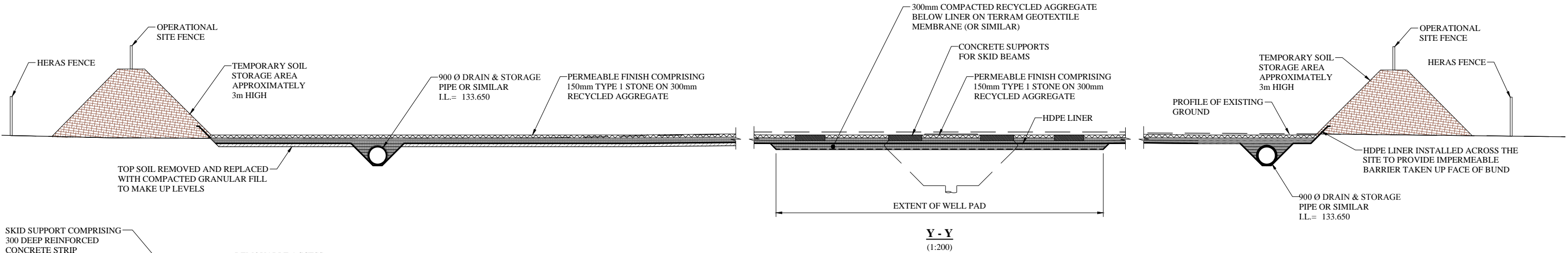
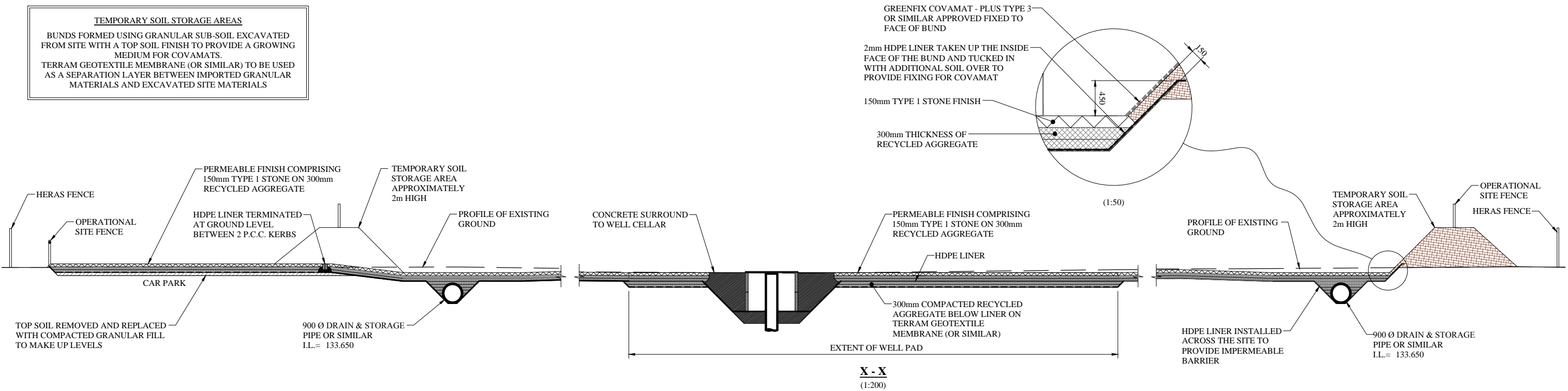
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Drawing Scale: 1:500

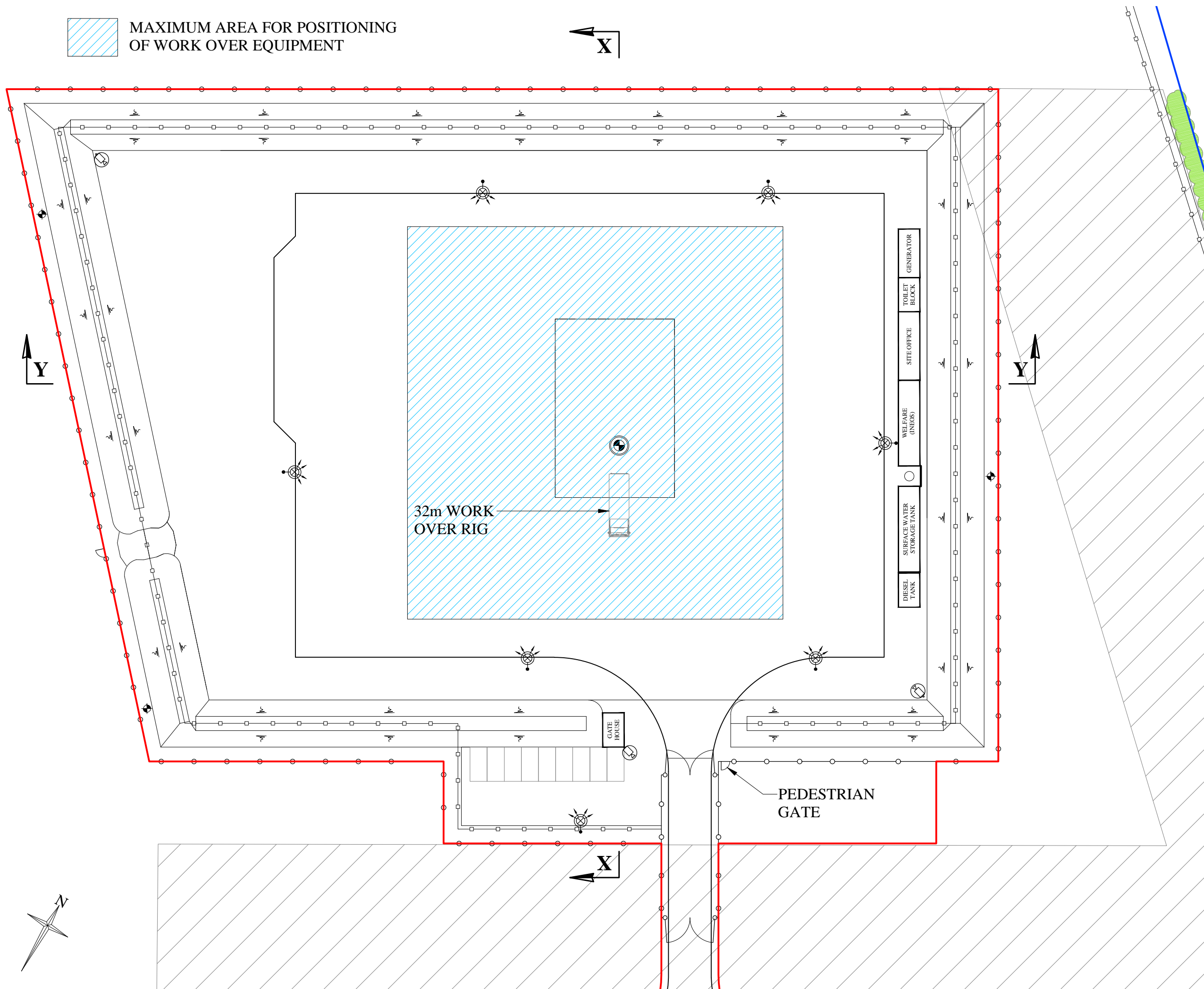
Paper Size: A3 Date: 10.05.17

SWEPT PATH PROVIDED BY
CURTINS CONSULTING LTD.
USING A 16.5m ARTICULATED
VEHICLE
(FOR DETAILS SEE CURTINS
DRAWING No. TPMA1529-126)

TEMPORARY SOIL STORAGE AREAS
BUNDS FORMED USING GRANULAR SUB-SOIL EXCAVATED FROM SITE WITH A TOP SOIL FINISH TO PROVIDE A GROWING MEDIUM FOR COVAMATS.
TERRAM GEOTEXTILE MEMBRANE (OR SIMILAR) TO BE USED AS A SEPARATION LAYER BETWEEN IMPORTED GRANULAR MATERIALS AND EXCAVATED SITE MATERIALS



A	UPDATED FOR APPROVAL	18.05.17
REV	DESCRIPTION	DATE
INEOS		
Project Title:	P304 - S2 COMPOUND	
Drawing Title:	PROPOSED SECTIONS & DETAILS STAGE 1 SITE DEVELOPMENT & ESTABLISHMENT	
Drawing Status:	APPROVAL	
Project Number:	17022	
Drawing Number:	P304-S2-PA-16	Revision: A
Drawing Scale:	1:200/50/25	
Paper Size:	A3	Date: 10.05.17



APPLICATION BOUNDARY AND EXTENT OF SURFACE WORKS

LAND WITHIN APPLICANT CONTROL

MONITORING BOREHOLE LOCATIONS ARE INDICATIVE AND WILL BE AGREED WITH THE ENVIRONMENT AGENCY

CCTV CAMERA LOCATIONS ARE INDICATIVE

MOVEABLE LIGHTING COLUMNS

WELLHEAD CELLAR

CATCH PIT WITH COVER

30m WIDE ECOLOGICAL BUFFER

REV	DESCRIPTION	DATE
B	UPDATED FOR APPROVAL	22.05.17
A	UPDATED FOR APPROVAL	18.05.17

INEOS

Project Title: **P304 - S2 COMPOUND**

Drawing Title: **PROPOSED SITE LAYOUT PLAN POSSIBLE WORK OVER**

Development Stage: **STAGE 3a: POSSIBLE WORK OVER**

Drawing Status: **APPROVAL**

Project Number: **17022**

Drawing Number: **P304-S2-PA-17** Revision: **B**

Drawing Scale: **1:500**

Paper Size: **A3** Date: **10.05.17**

KEY:

ZONE FOR HERAS FENCING
MAXIMUM HEIGHT 2m

MAXIMUM HEIGHT OF DOUBLE
STACKED CABINS 5.5m

ZONE FOR OPERATIONAL SITE
FENCING MAXIMUM HEIGHT 7m
LIGHTING & CCTV COLUMNS
MAXIMUM HEIGHT 9m

ZONE FOR CONDUCTOR /
SURFACING RIG
MAXIMUM HEIGHT 32m

This cross-section diagram, labeled 'X - X', illustrates the vertical profile of a well pad area. The ground level is indicated by a horizontal line at the base. A central vertical structure, colored green with diagonal hatching, represents the conductor or surfacing rig, with a height dimension of 32m. On either side of this central structure are rectangular areas representing the operational site, colored red with diagonal hatching. Within these red areas are smaller yellow rectangles representing double-stacked cabins, with a height dimension of 5.5m. The overall height of the operational site area is marked as 9m. At the far left and right edges, there are small green hatched areas representing heras fencing, with a height dimension of 2m. A label 'WELL PAD LEVEL' points to the base of the central structure. A note 'GROUND LEVEL VARIES' with an arrow points to the ground line on the right side.

This cross-section diagram, labeled 'Y - Y', shows the vertical profile of the well pad area from a different perspective. It features the same central green hatched structure with a 32m height. The red hatched operational site area is shown with a height of 9m. Yellow hatched double-stacked cabins with a height of 5.5m are positioned on the right side of the operational site. Small green hatched heras fencing areas with a height of 2m are located at the far left and right. The 'WELL PAD LEVEL' is indicated at the base of the central structure. A note 'GROUND LEVEL VARIES' with an arrow points to the ground line on the right side.

A

UPDATED FOR APPROVAL

18.05.17

REV

DESCRIPTION

DATE

INEOS

Project Title:

P304 - S2
COMPOUND

Drawing Title:

PARAMETER SECTIONS

Development Stage:

STAGE 1: SITE DEVELOPMENT
AND ESTABLISHMENT

Drawing Status:

APPROVAL

Project Number:

17022

Drawing Number:

P304-S2-PA-21

Revision:

A

Drawing Scale:

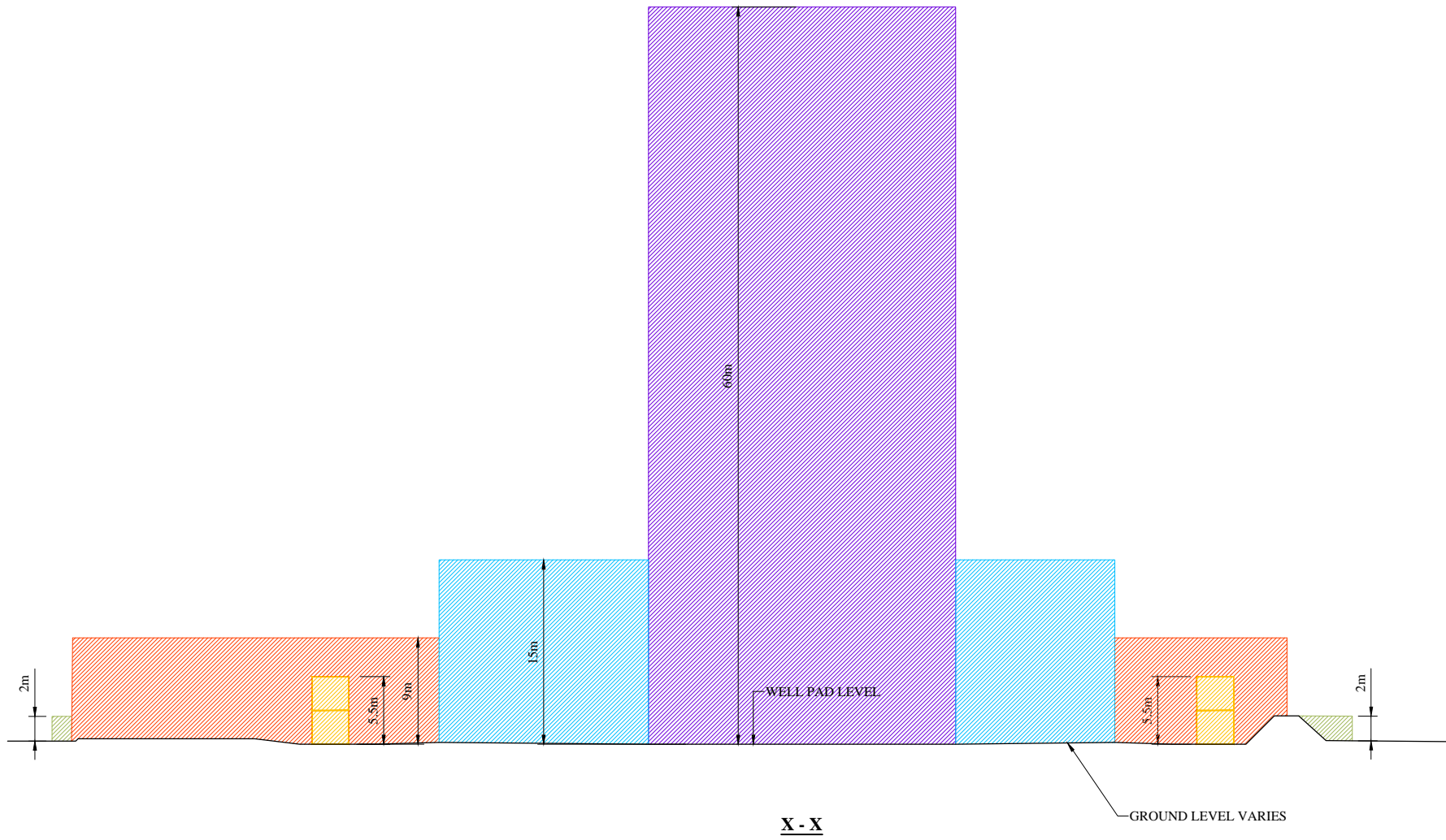
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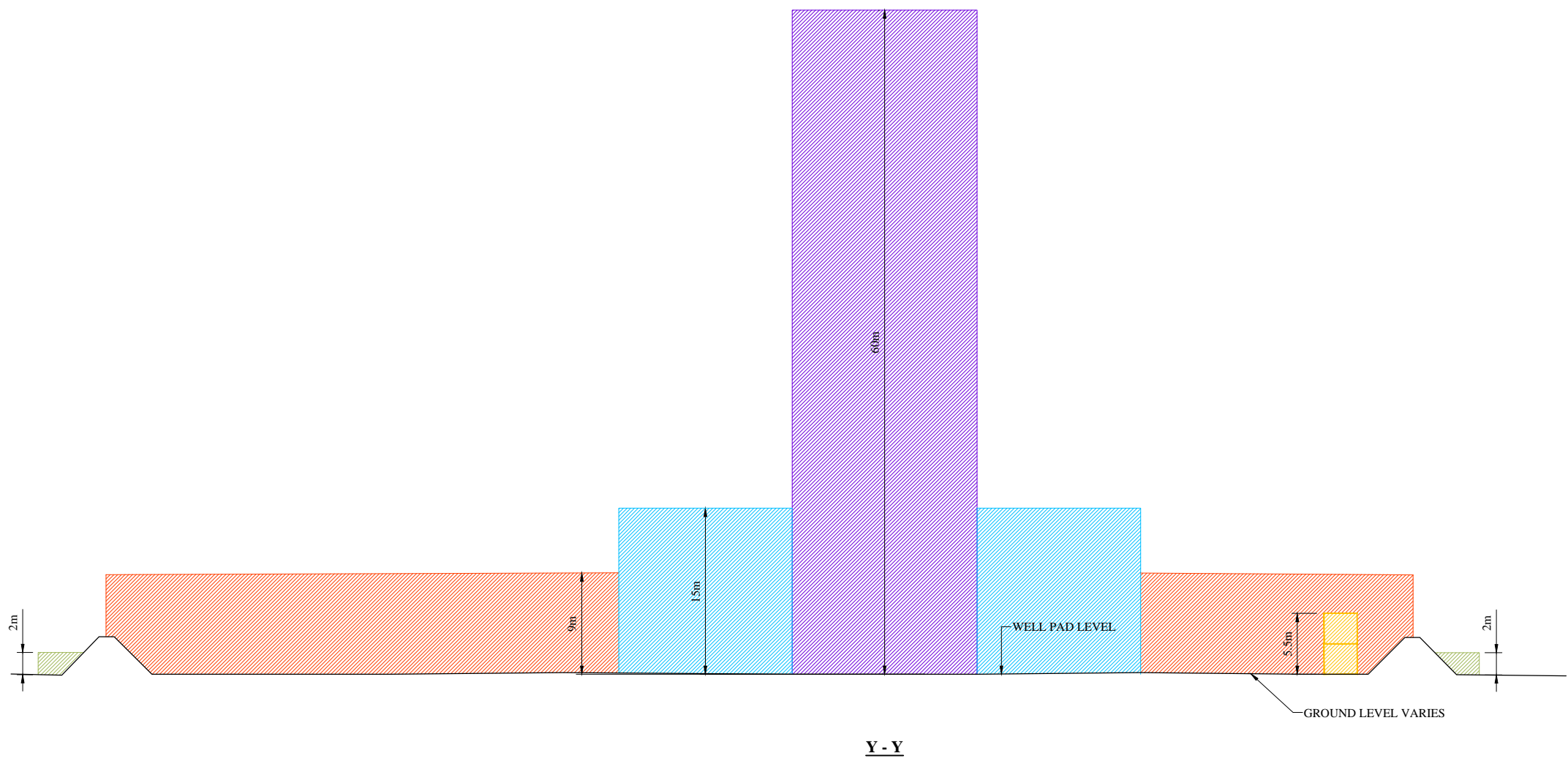
A3

Date:

10.05.17



- KEY:**
- ZONE FOR HERAS FENCING
MAXIMUM HEIGHT 2m
 - MAXIMUM HEIGHT OF DOUBLE
STACKED CABINS 5.5m
 - ZONE FOR OPERATIONAL SITE
FENCING MAXIMUM HEIGHT 7m
LIGHTING & CCTV COLUMNS
MAXIMUM HEIGHT 9m
 - ZONE FOR SUBSTRUCTURE &
ANCILLARY DRILLING EQUIPMENT
MAXIMUM HEIGHT 15m
 - ZONE FOR DRILLING RIG
MAXIMUM HEIGHT 60m



A	APPROVAL	18.05.17
REV	DESCRIPTION	DATE

Project Title: **P304 - S2 COMPOUND**

Drawing Title: **PARAMETER SECTIONS**

Development Stage: **STAGE 2: DRILLING, CORING AND SUSPENSION**

Drawing Status: **APPROVAL**

Project Number: **17022**

Drawing Number: **P304-S2-PA-22** Revision: **A**

Drawing Scale: **1:500**

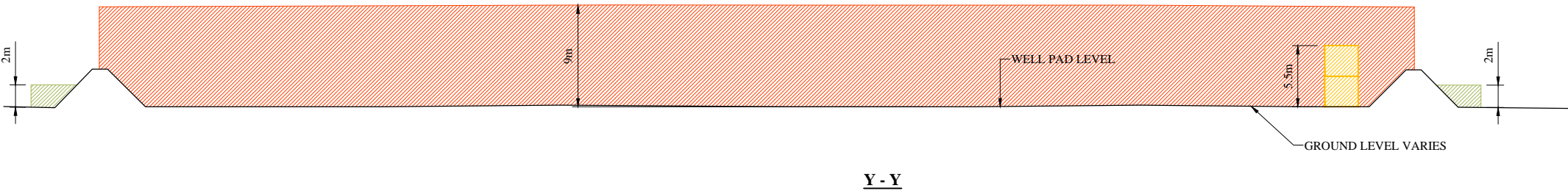
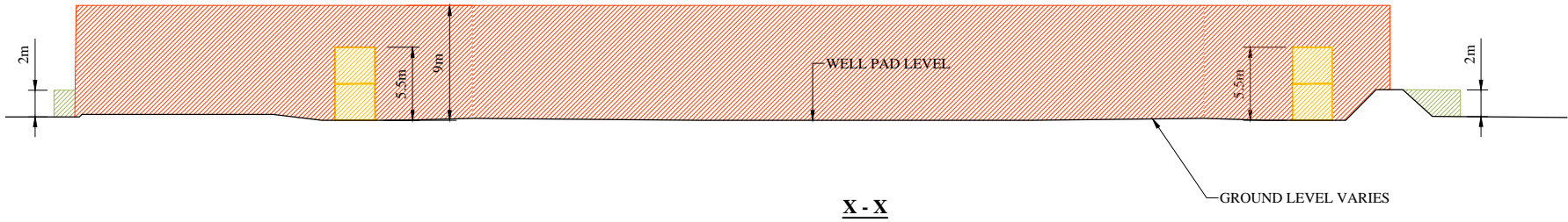
Paper Size: **A3** Date: **10.05.17**

KEY:





ZONE FOR HERAS FENCING
MAXIMUM HEIGHT 2m

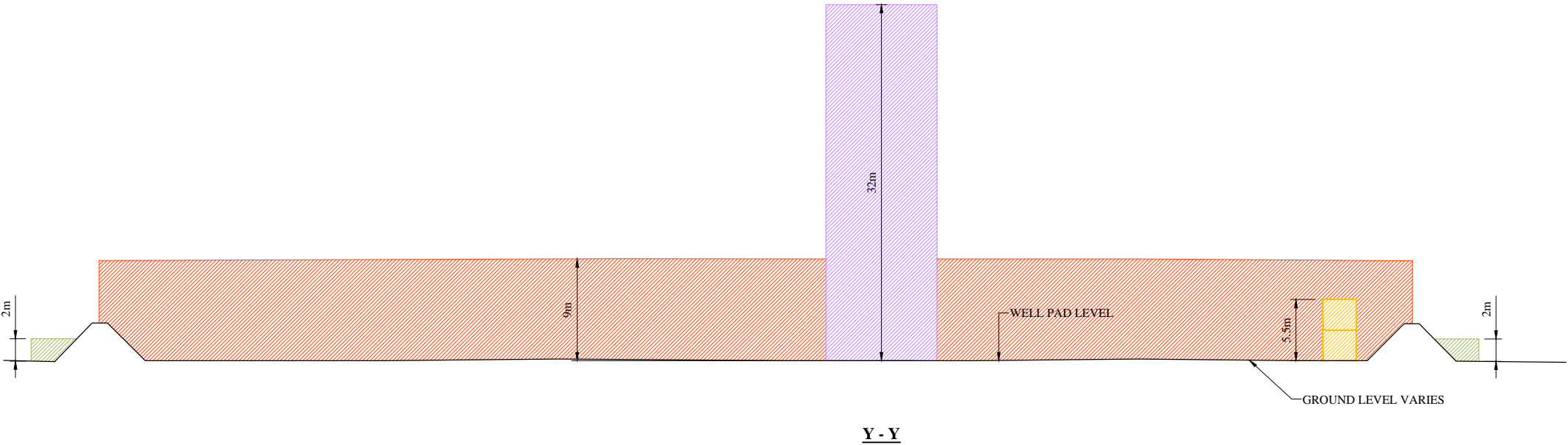
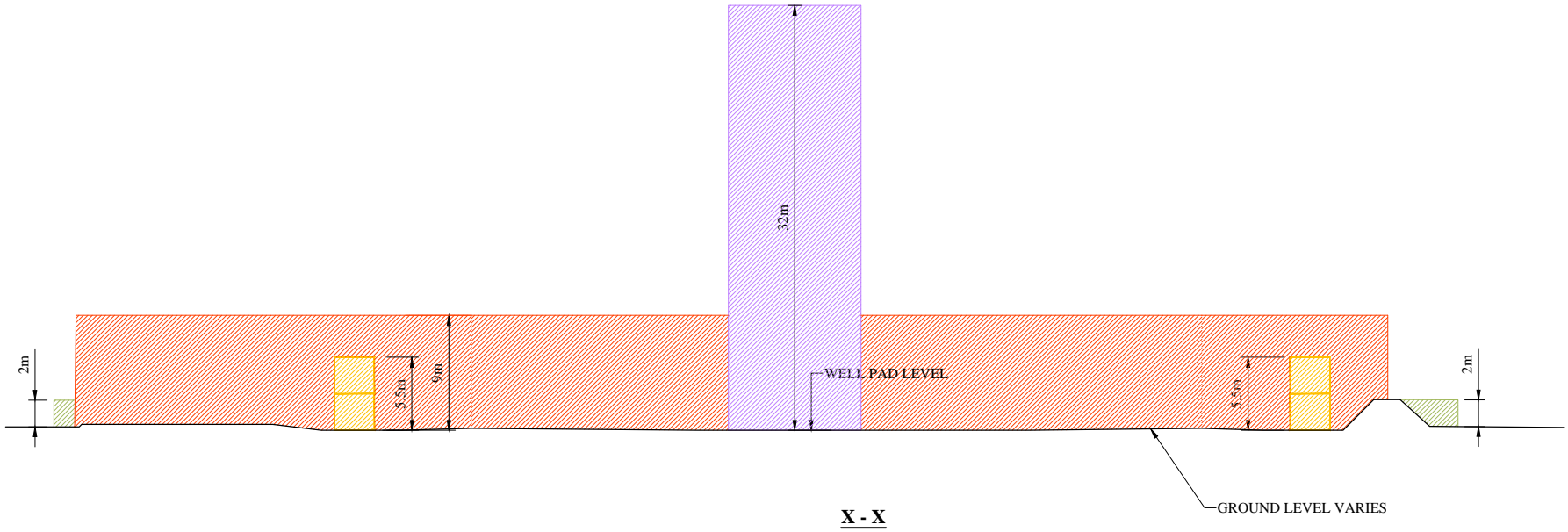
MAXIMUM HEIGHT OF DOUBLE
STACKED CABINS 5.5m


ZONE FOR OPERATIONAL SITE
FENCING MAXIMUM HEIGHT 7m
LIGHTING & CCTV COLUMNS
MAXIMUM HEIGHT 9m



A		
UPDATED FOR APPROVAL		
18.05.17		
REV	DESCRIPTION	DATE
INEOS		
Project Title:	P304 - S2 COMPOUND	
Drawing Title:	PARAMETER SECTIONS	
Development Stage:	STAGE 3: MAINTENANCE AND SUSPENSION WELL	
Drawing Status:	APPROVAL	
Project Number:	17022	
Drawing Number:	P304-S2-PA-23	Revision: A
Drawing Scale:	1:500	
Paper Size:	A3	Date: 10.05.17

KEY:	
ZONE FOR HERAS FENCING MAXIMUM HEIGHT 2m	
MAXIMUM HEIGHT OF DOUBLE STACKED CABINS 5.5m	
ZONE FOR OPERATIONAL SITE FENCING MAXIMUM HEIGHT 7m LIGHTING & CCTV COLUMNS MAXIMUM HEIGHT 9m	
ZONE FOR WORK OVER RIG MAXIMUM HEIGHT 32m	



A	UPDATED FOR APPROVAL	18.05.17
REV	DESCRIPTION	DATE
		
Project Title:	P304 - S2 COMPOUND	
Drawing Title:	PARAMETER SECTIONS	
Development Stage:	STAGE 3a: POTENTIAL WORK OVER OF WELL	
Drawing Status:	APPROVAL	
Project Number:	17022	
Drawing Number:	P304-S2-PA-24	Revision: A
Drawing Scale:	1:500	
Paper Size:	A3	Date: 10.05.17

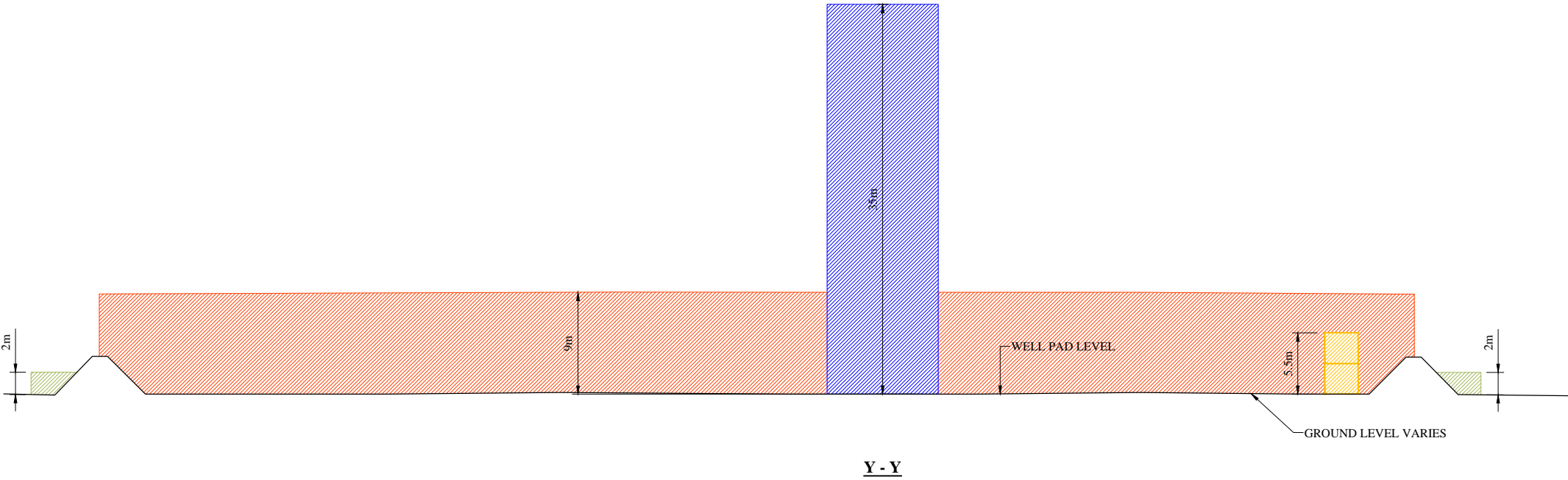
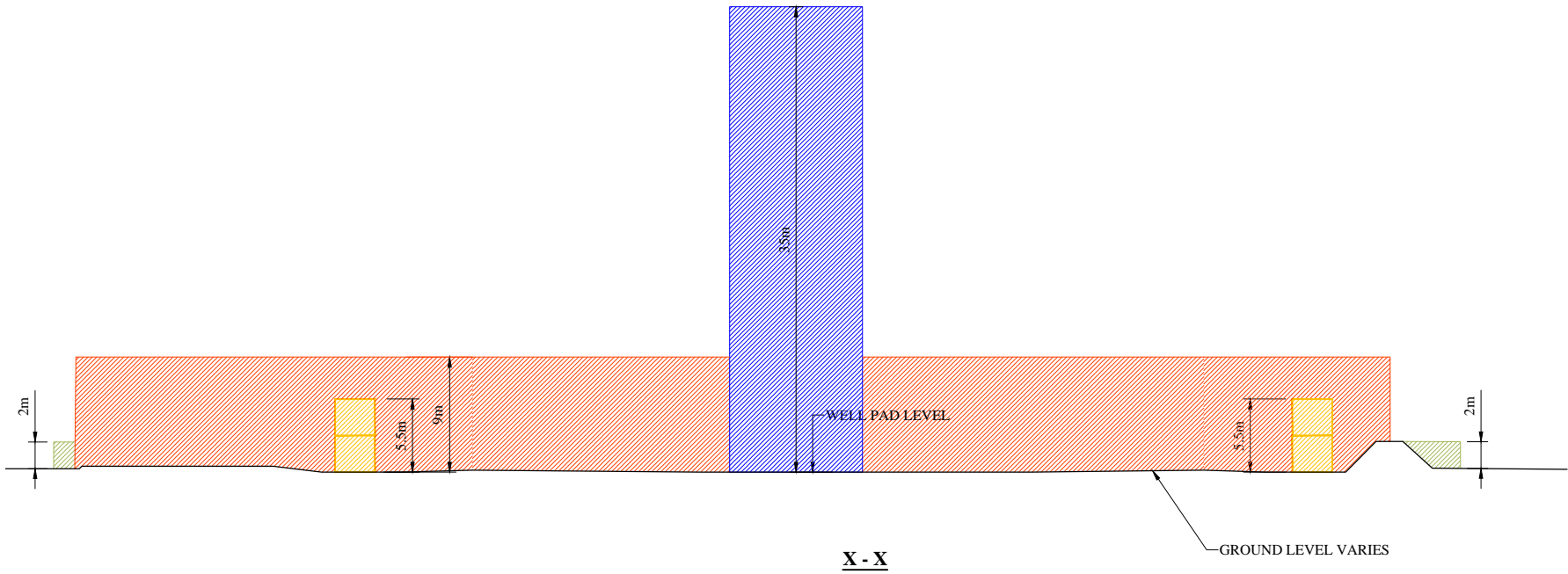
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ZONE FOR HERAS FENCING
MAXIMUM HEIGHT 2m

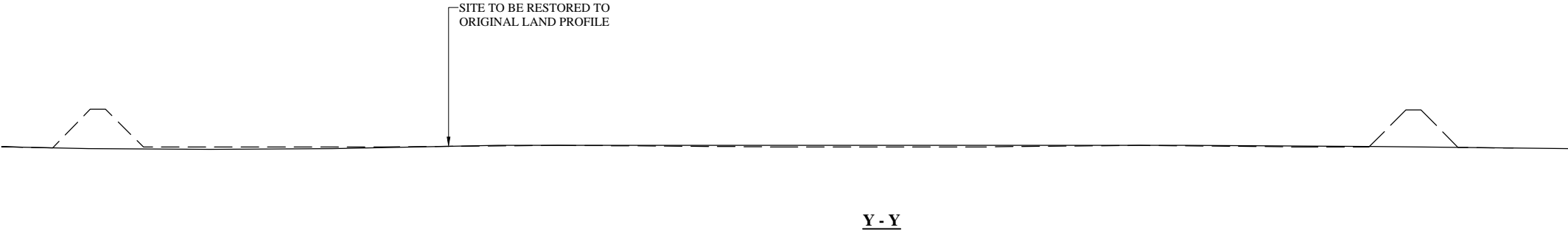
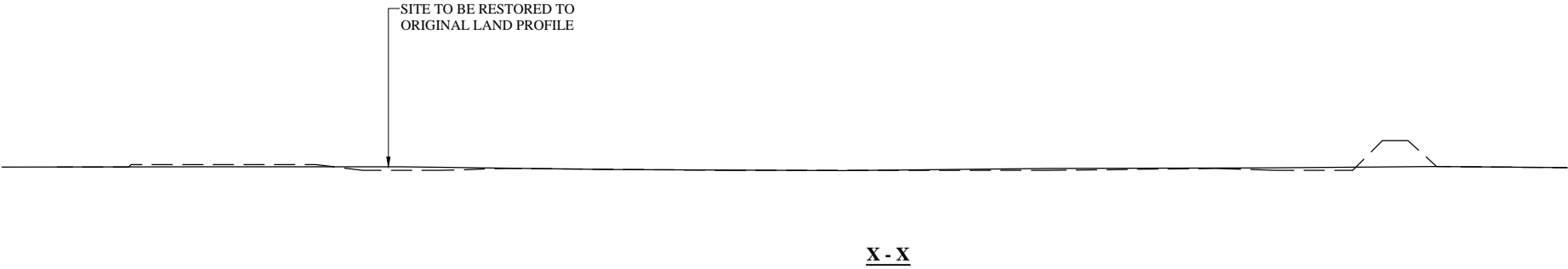
MAXIMUM HEIGHT OF DOUBLE
STACKED CABINS 5.5m

ZONE FOR OPERATIONAL SITE
FENCING MAXIMUM HEIGHT 7m
LIGHTING & CCTV COLUMNS
MAXIMUM HEIGHT 9m

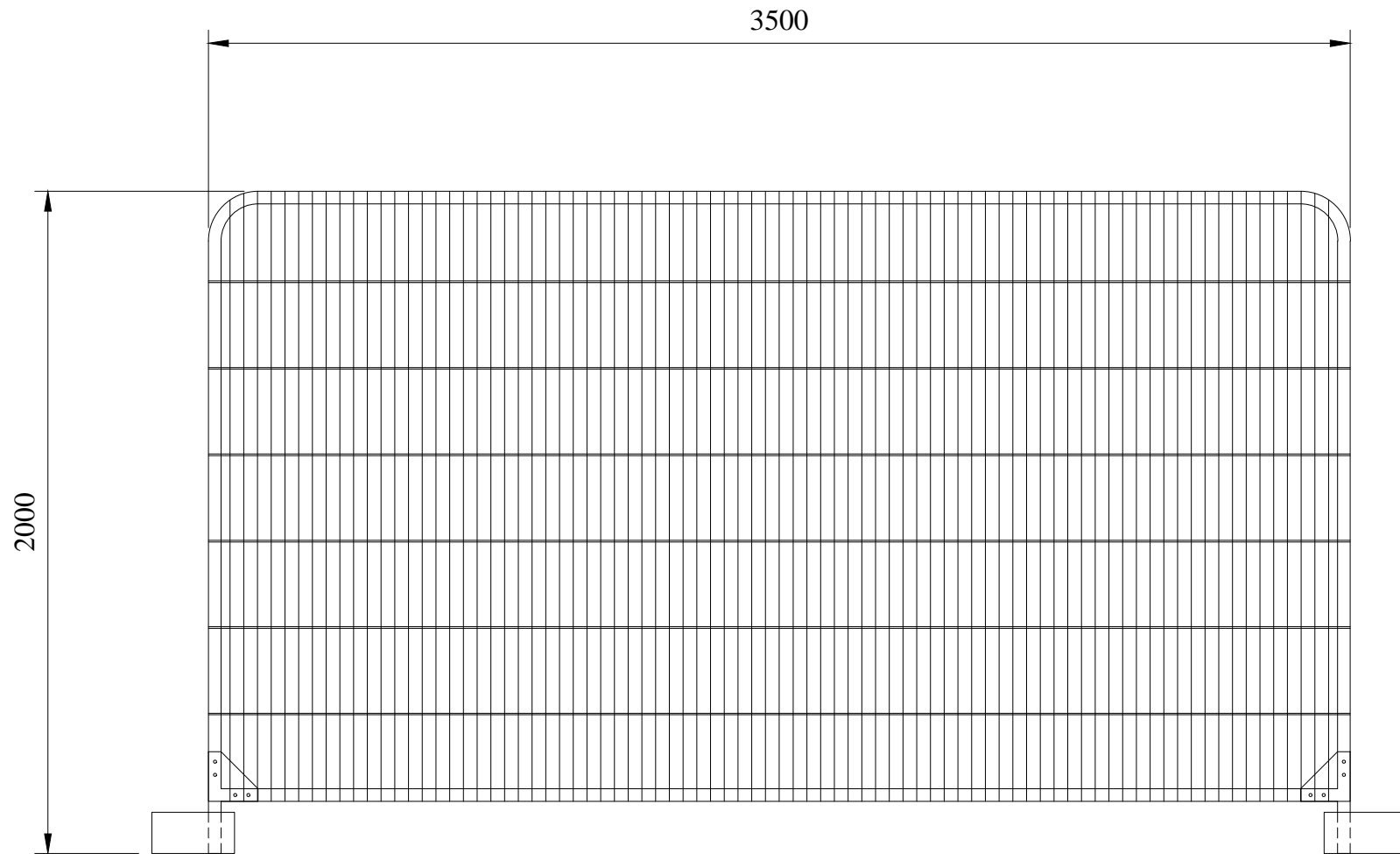
ZONE FOR CRANE AND LISTENING
EQUIPMENT MAXIMUM HEIGHT 35m



A	UPDATED FOR APPROVAL	18.05.17
REV	DESCRIPTION	DATE
<div>INEOS</div>		
Project Title:	P304 - S2 COMPOUND	
Drawing Title:	PARAMETER SECTIONS	
Development Stage:	STAGE 4: LISTENING STAGE	
Drawing Status:	APPROVAL	
Project Number:	17022	
Drawing Number:	P304-S2-PA-25	Revision: A
Drawing Scale:	1:500	
Paper Size:	A3	Date: 10.05.17



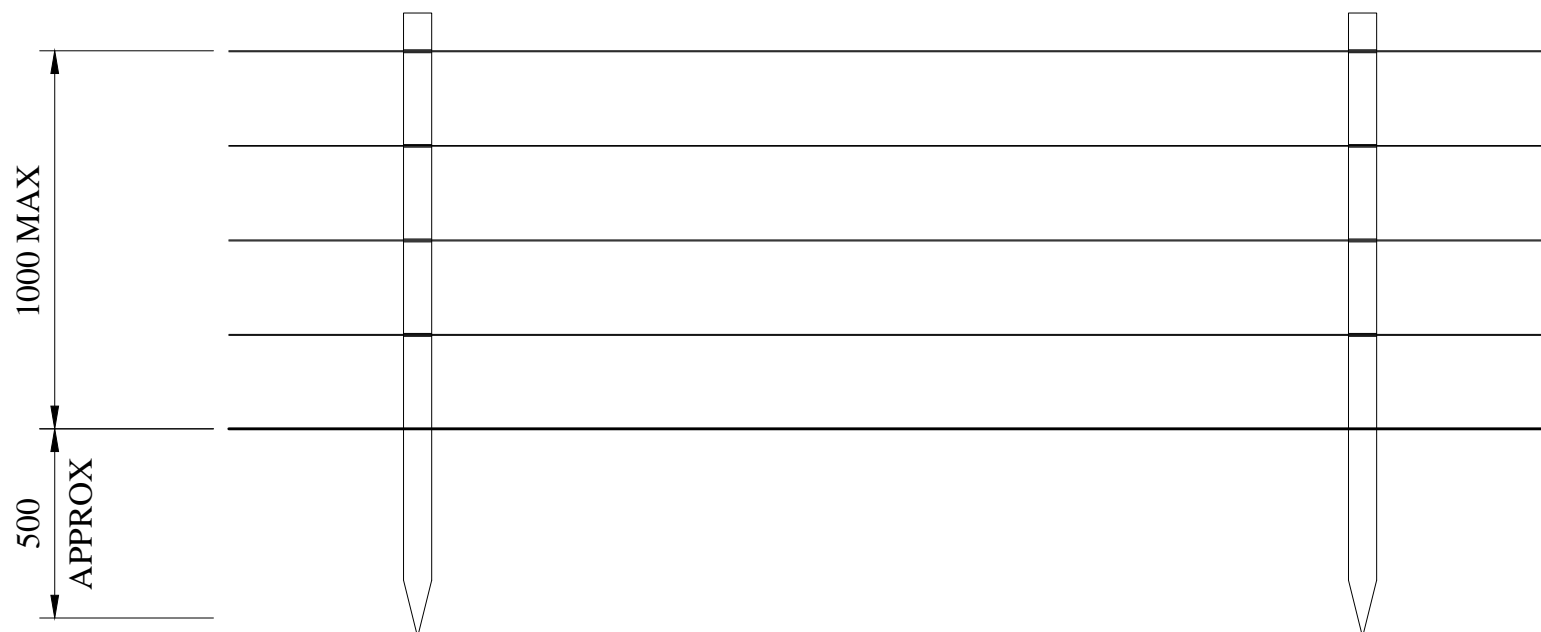
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REV	DESCRIPTION	DATE
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Project Title:	P304 - S2 COMPOUND	
Drawing Title:	PARAMETER SECTIONS	
Development Stage:	STAGE 5: ABANDONMENT AND RESTORATION	
Drawing Status:	APPROVAL	
Project Number:	17022	
Drawing Number:	P304-S2-PA-26	Revision: A
Drawing Scale:	1:500	
Paper Size:	A3	Date: 10.05.17



HERAS PANEL SPECIFICATIONS

PANEL DIMENSIONS	2000mm (H) 3500mm (W)
HORIZONTAL TUBE	38.1mm
VERTICAL TUBE	38.1mm
REINFORCED CORNERS	YES
WEIGHT	17kg
FINISH	COLOUR TO BE AGREED WITH MINERALS PLANNING AUTHORITY

HERAS ROUND TOP PANEL







POST AND WIRE FENCE SPECIFICATIONS

POSTS	MIN 1500mm (L) 75mmØ TREATED SOFTWOOD
POST CENTRES	2000mm - 3000mm
WIRE TYPE	COLOUR AND MATERIAL TO BE AGREED WITH MINERALS PLANNING AUTHORITY

POST AND WIRE FENCE

A	UPDATED FOR APPROVAL	18.05.17
REV	DESCRIPTION	DATE
INEOS		
Project Title:	P304 - S2 COMPOUND	
Drawing Title:	FENCE DETAILS	
Drawing Status:	APPROVAL	
Project Number:	17022	
Drawing Number:	P304-S2-PA-30	Revision: A
Drawing Scale:	1:20	
Paper Size:	A3	Date: 10.05.17

EXAMPLES OF THE PROPOSED LIGHTING UNITS ARE:

TOWARDS TOMORROW ENERGY - TTE-FL-80		80W LED FLOODLIGHT SILVER POWDER COATED ALLOY SENSOR COMPATIBLE SIZE 365mm x 285mm x 120mm
DESIGNPLAN LIGHTING - QUADRATO		22W LED BLACK POWDER COATED DIE CAST ALUMINIUM BODY SENSOR COMPATIBLE SIZE 305mm x 305mm x 145mm
DESIGNPLAN LIGHTING - BERGEN		21W LED TITANIUM POWDER COATED STEEL SIZE 400mm x 200mm x 100mm
VT1 ECO LIGHTING TOWER 9m		10kva MOVABLE UNIT WITH 360° ROTATION

REV	DESCRIPTION	DATE
<div>INEOS</div>		
Project Title: P304 - S2 COMPOUND		
Drawing Title: LIGHTING EXAMPLES		
Drawing Status: APPROVAL		
Project Number: 17022		
Drawing Number: P304-S2-PA-31		Revision:
Drawing Scale: N.T.S.		
Paper Size: A3	Date:	10.05.17