

5. Application Drawings

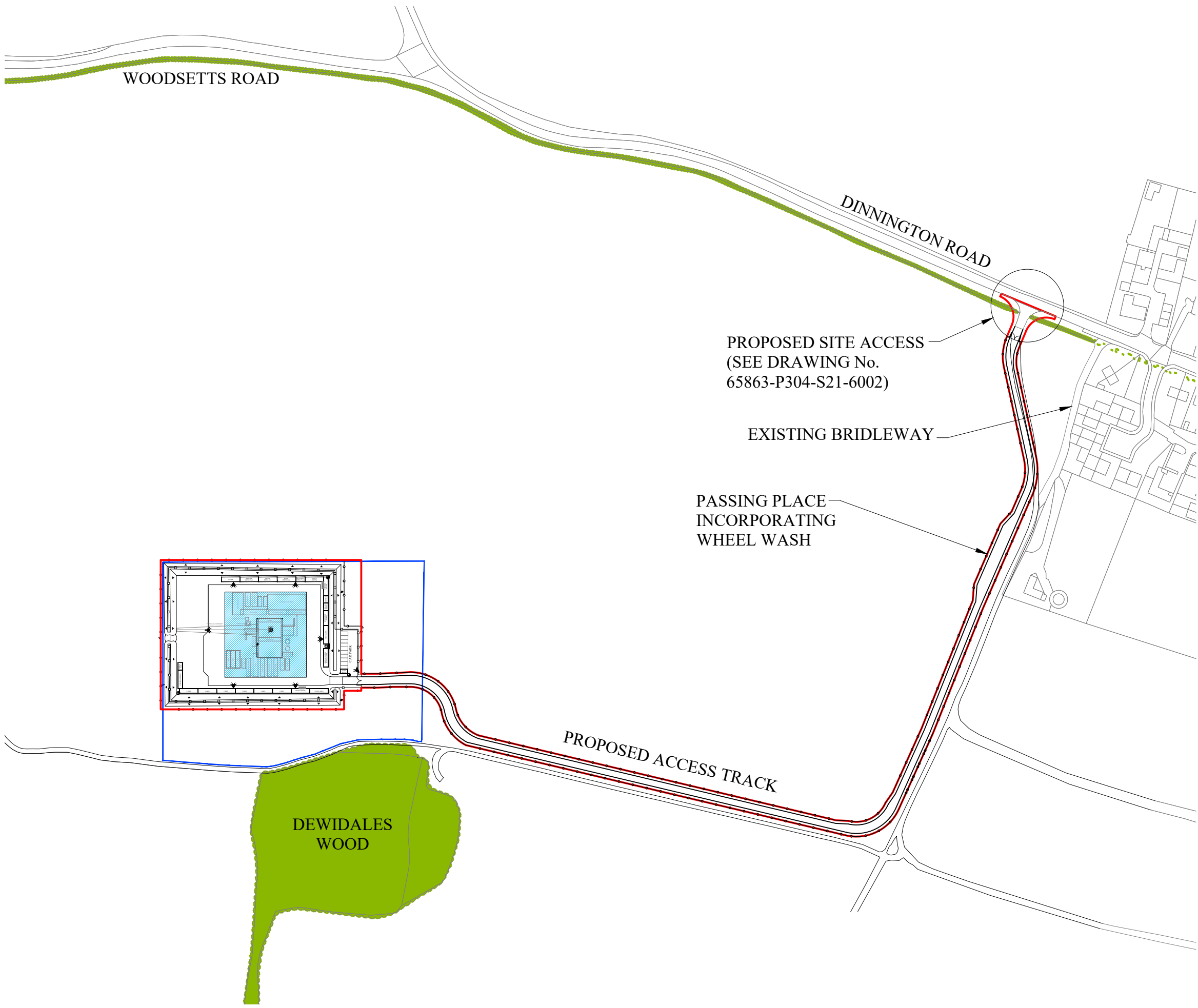
Land adjacent to
Dinnington Road, Woodsetts

Construction of a well site and creation of a new access track, mobilisation of drilling, ancillary equipment and contractor welfare facilities to drill 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 Dinnington Road, Woodsetts.

October 2017

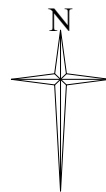
List of Application Plans

P304-S21-PA-1001	Pre-Site Access Plan
P304-S21-PA-00	Strategic Location Plan
P304-S21-PA-01	Application Site Plan
P304-S21-PA-04	Existing Ground Plan
P304-S21-PA-05	Proposed Site Entrance & Highway works
P304-S21-PA-06	Proposed Site Layout Plan - Construction
P304-S21-PA-07	Proposed Site Layout Plan - Drilling Stage
P304-S21-PA-08	Proposed Site Layout Plan - Listening Stage
P304-S21-PA-09	Proposed Site Restoration
P304-S21-PA-10	Proposed Lighting Plan - Drilling & Coring
P304-S21-PA-11	Proposed Drainage Plan
P304-S21-PA-12	Proposed Site Layout Plan - Suspension
P304-S21-PA-13	Proposed Internal Access Plan
P304-S21-PA-16	Proposed Sections & Details
P304-S21-PA-17	Proposed Site Layout Plan - Possible workover
P304-S21-PA-21	Parameter Sections - Develop. & Establish
P304-S21-PA-22	Parameter Sections - Drilling & Coring
P304-S21-PA-23	Parameter Sections - Suspension
P304-S21-PA-24	Parameter Sections - Work over of Well
P304-S21-PA-25	Parameter Sections - Listening Stage
P304-S21-PA-26	Parameter Sections - Abandonment
P304-S21-PA-30	Fence Details
P304-S21-PA-31	Lighting Examples

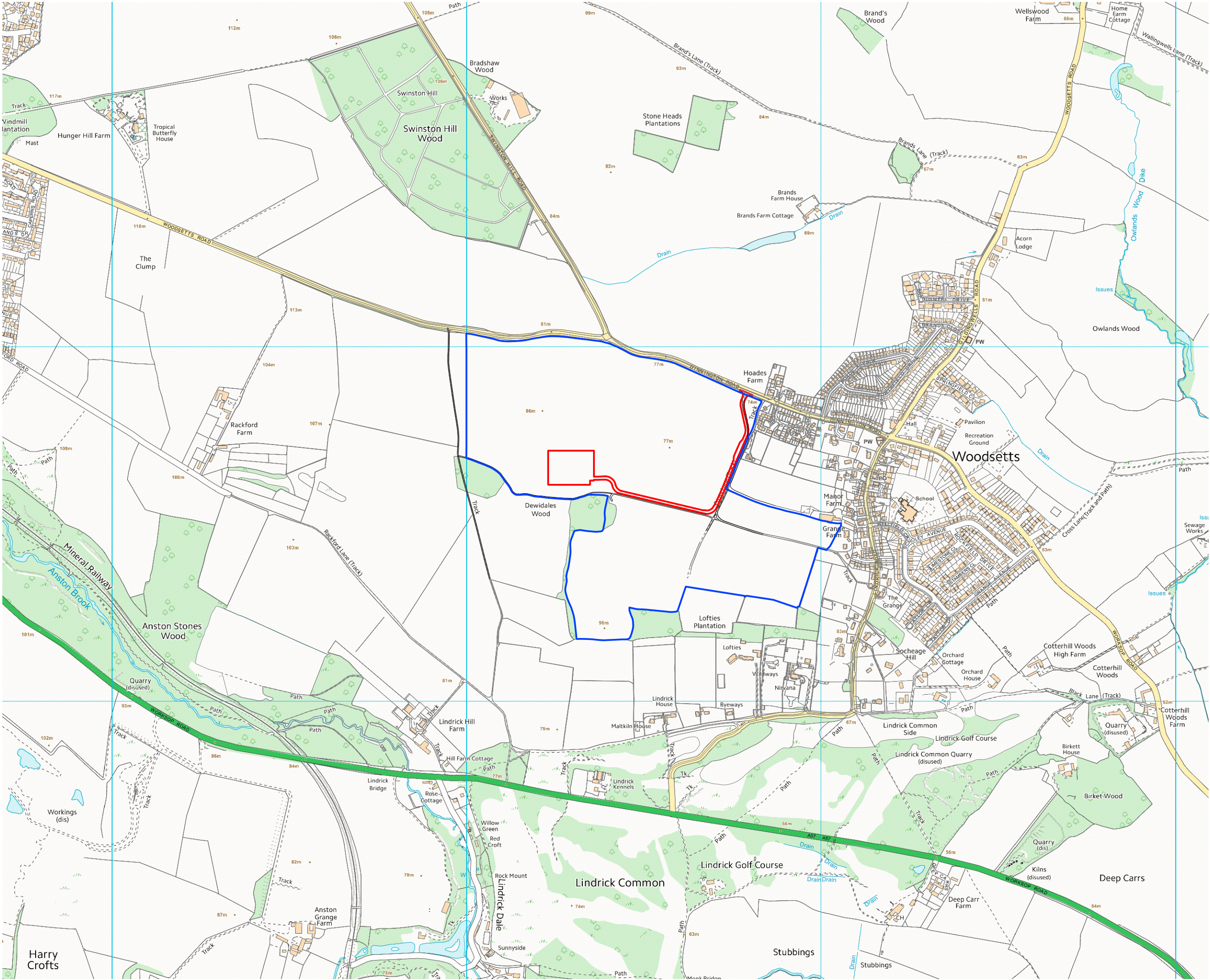


APPLICATION BOUNDARY
AND EXTENT OF SURFACE
WORKS

LAND WITHIN APPLICANT
CONTROL

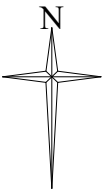


REV	DESCRIPTION	DATE
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Project Title: P304 - S21 COMPOUND		
Drawing Title: PRE SITE ACCESS PLAN		
Drawing Status: APPROVAL		
Project Number: 17061		
Drawing Number: P304-S21-1001		Revision:
Drawing Scale: 1:2500		
Paper Size: A3	Date:	04.07.17

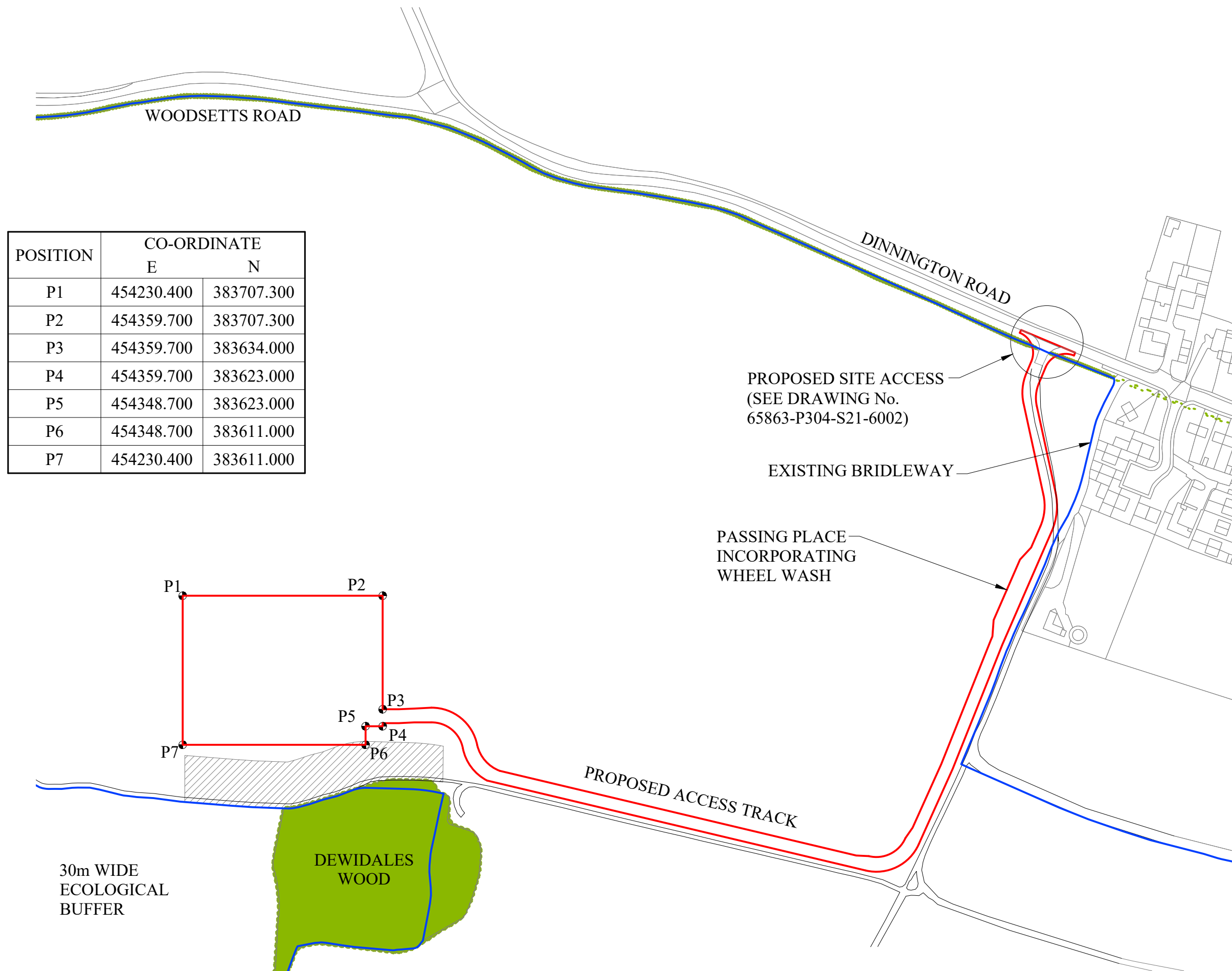


APPLICATION BOUNDARY
AND EXTENT OF SURFACE
WORKS

LAND WITHIN APPLICANT
CONTROL



REV	DESCRIPTION	DATE
INEOS		
Project Title: P304 - S21 COMPOUND		
Drawing Title: STRATEGIC LOCATION PLAN		
Drawing Status: PRELIMINARY		
Project Number: 17061		
Drawing Number: P304-S21-PA-00		Revision:
Drawing Scale: 1:10,000		
Paper Size: A3		Date: 11.08.17

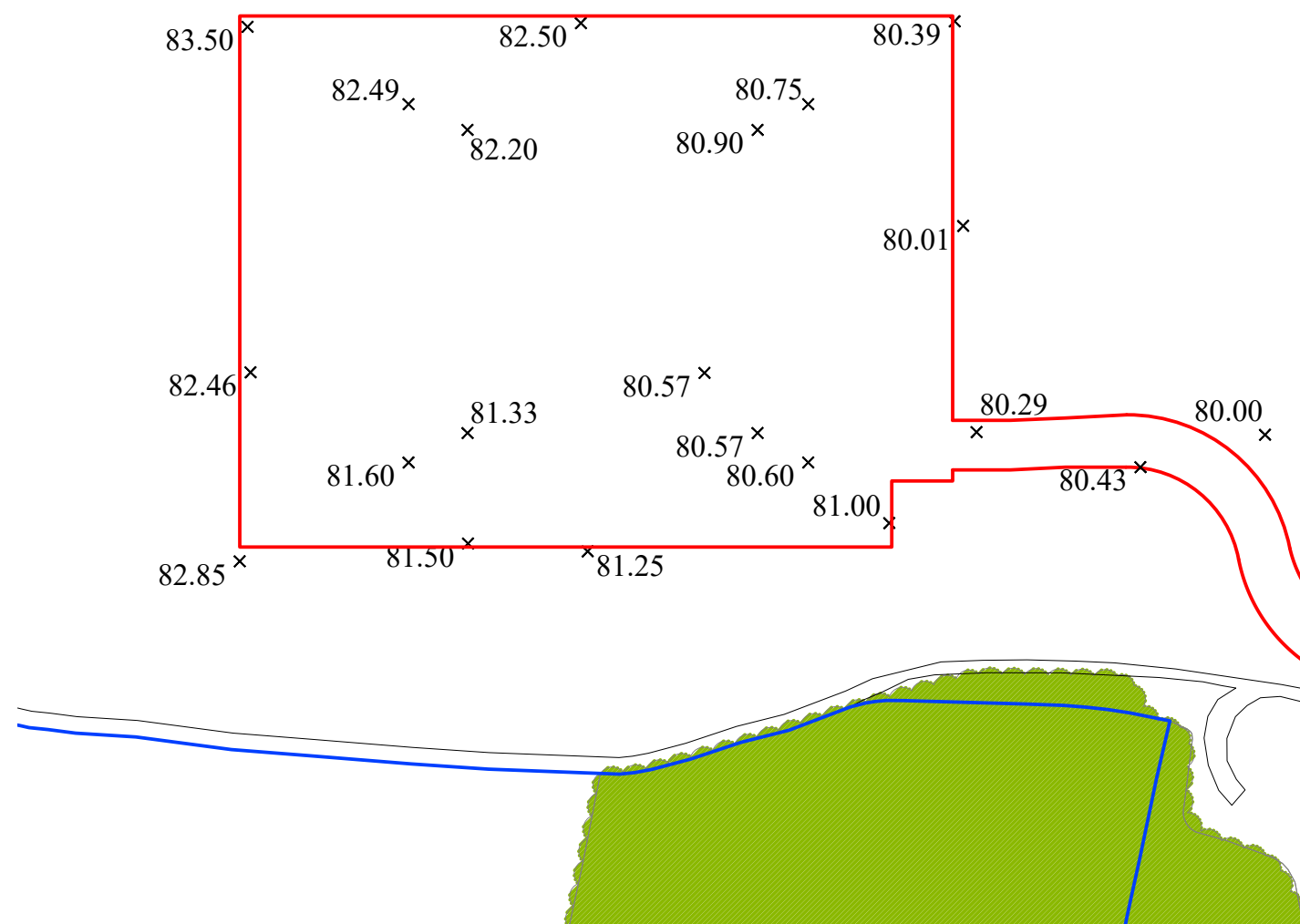


APPLICATION BOUNDARY AND EXTENT OF SURFACE WORKS

LAND WITHIN APPLICANT CONTROL

REV	DESCRIPTION	DATE
Project Title: P304 - S21 COMPOUND		
Drawing Title: APPLICATION SITE PLAN		
Drawing Status: APPROVAL		
Project Number: 17061		
Drawing Number: P304-S21-PA-01 Revision:		
Drawing Scale: 1:2500		
Paper Size: A3 Date: 11.08.17		

AREA WITHIN RED LINE
BOUNDARY IS CURRENTLY
IN AGRICULTURAL USE

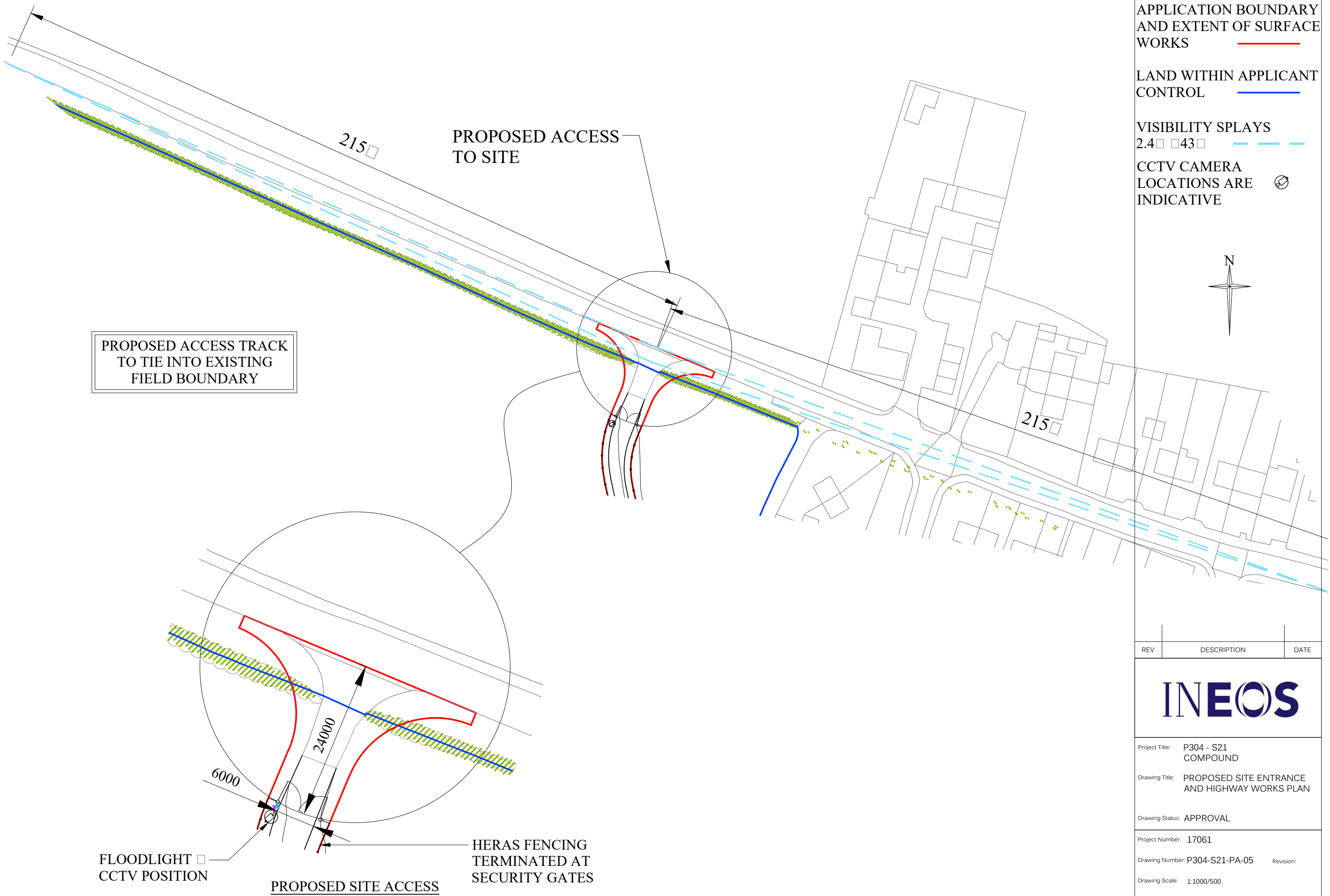


APPLICATION BOUNDARY
AND EXTENT OF SURFACE
WORKS

LAND WITHIN APPLICANT
CONTROL



REV	DESCRIPTION	DATE
INEOS		
Project Title: P304 - S21 COMPOUND		
Drawing Title: EXISTING GROUND PLAN		
Drawing Status: APPROVAL		
Project Number: 17022		
Drawing Number: P304-S21-PA-04		Revision:
Drawing Scale: 1:1250		
Paper Size: A3	Date:	11.08.17

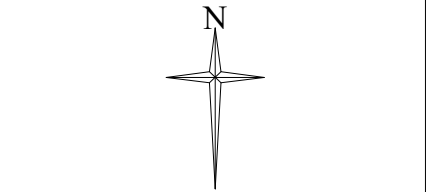


APPLICATION BOUNDARY
AND EXTENT OF SURFACE
WORKS

LAND WITHIN APPLICANT
CONTROL

VISIBILITY SPLAYS
2.4 43

CCTV CAMERA
LOCATIONS ARE
INDICATIVE



REV	DESCRIPTION	DATE
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Project Title: P304 - S21
COMPOUND

Drawing Title: PROPOSED SITE ENTRANCE
AND HIGHWAY WORKS PLAN

Drawing Status: APPROVAL

Project Number: 17061

Drawing Number: P304-S21-PA-05 Revision:

Drawing Scale: 1:1000/500

Paper Size: A3 Date: 11.08.17



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

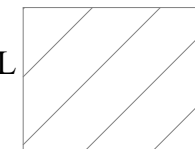
CCTV CAMERA
LOCATIONS ARE
INDICATIVE

MOVEABLE LIGHTING COLUMNS

WELLHEAD CELLAR

CATCH PIT WITH COVER

30m WIDE
ECOLOGICAL
BUFFER



REV	DESCRIPTION	DATE
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INEOS

Project Title:	P304 - S21 COMPOUND
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Drawing Title: PROPOSED SITE LAYOUT
PLAN
CONSTRUCTION STAGE

Development Stage: STAGE 1: SITE DEVELOPMENT AND ESTABLISHMENT

Drawing Status: APPROVAL

Project Number: 17061

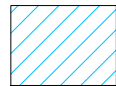
Drawing Number: P304-S21-PA-06

Revision

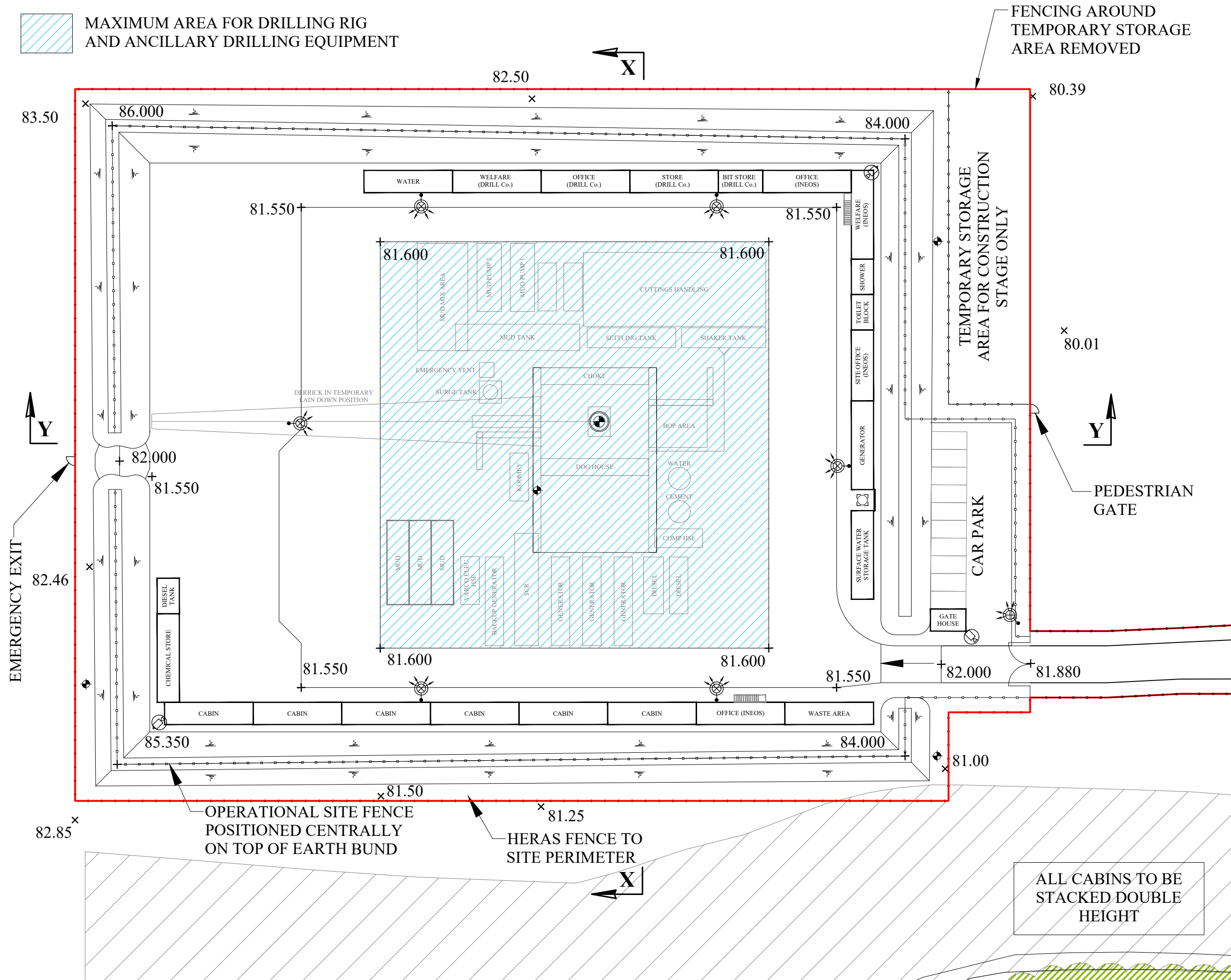
Drawing Scale: 1:500

Paper Size: A3

Date: 11.08.17



MAXIMUM AREA FOR DRILLING RIG
AND ANCILLARY DRILLING EQUIPMENT



APPLICATION BOUNDARY
AND EXTENT OF SURFACE
WORKS

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

PEDESTRIAN
GATE

REV	DESCRIPTION	DATE
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INEOS

Project Title: P304 - S21
COMPOUND

Drawing Title: PROPOSED SITE LAYOUT
PLAN
DRILLING STAGE

Development
Stage: STAGE 2: DRILLING, CORING
AND SUSPENSION

Drawing Status: APPROVAL

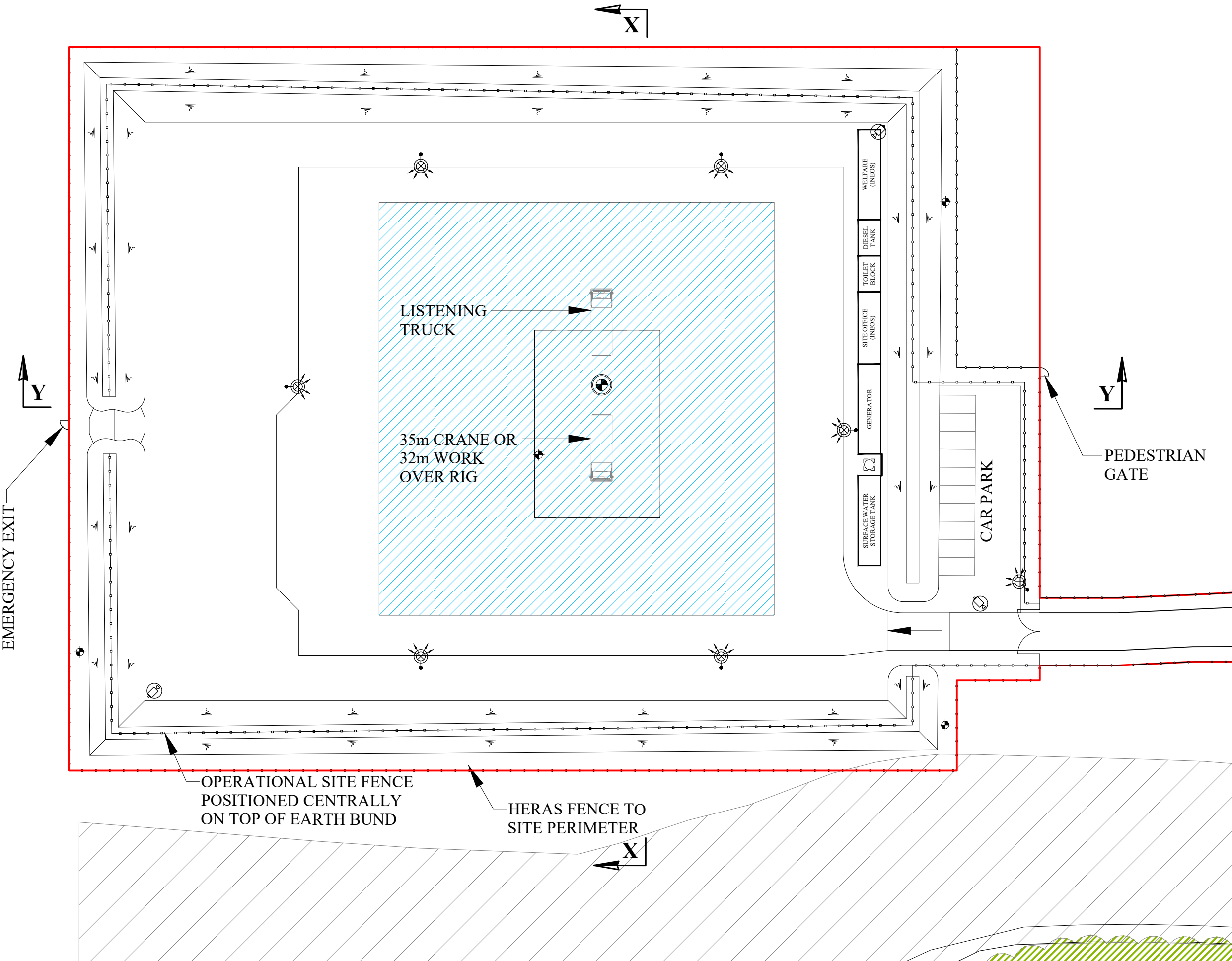
Project Number: 17061

Drawing Number: P304-S21-PA-07 Revision:

Drawing Scale: 1:500

Paper Size: A3 Date: 11.08.17

MAXIMUM AREA FOR POSITIONING
OF LISTENING EQUIPMENT



APPLICATION BOUNDARY
AND EXTENT OF SURFACE
WORKS

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
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INEOS

Project Title: P304 - S21
COMPOUND

Drawing Title: PROPOSED SITE LAYOUT
PLAN
LISTENING STAGE

Development
Stage: STAGE 4: LISTENING STAGE

Drawing Status: APPROVAL

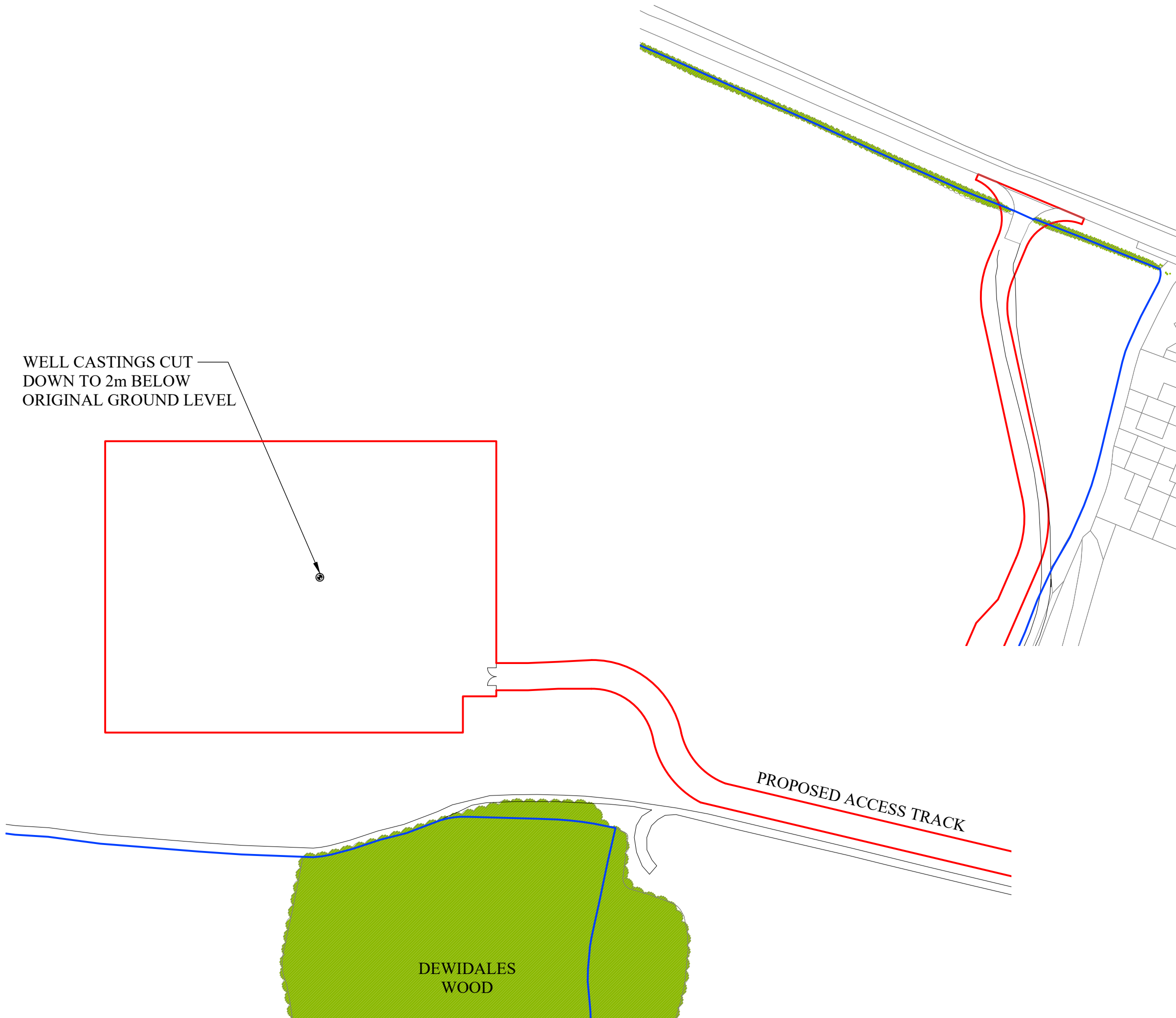
Project Number: 17061

Drawing Number: P304-S21-PA-08

Drawing Scale: 1:500

Paper Size: A3

Date: 11.08.17



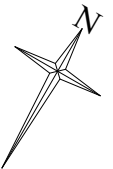
ALL IMPORTED MATERIAL
TO BE TAKEN OFF SITE WITH
EXISTING GROUND LEVELS
REINSTATED USING STORED
HARDCORE AND TOPSOIL.

SITE TO BE RESTORED
TO AGRICULTURAL USE

SITE SHOWN IN THE
FINAL STAGES

APPLICATION BOUNDARY
AND EXTENT OF SURFACE
WORKS

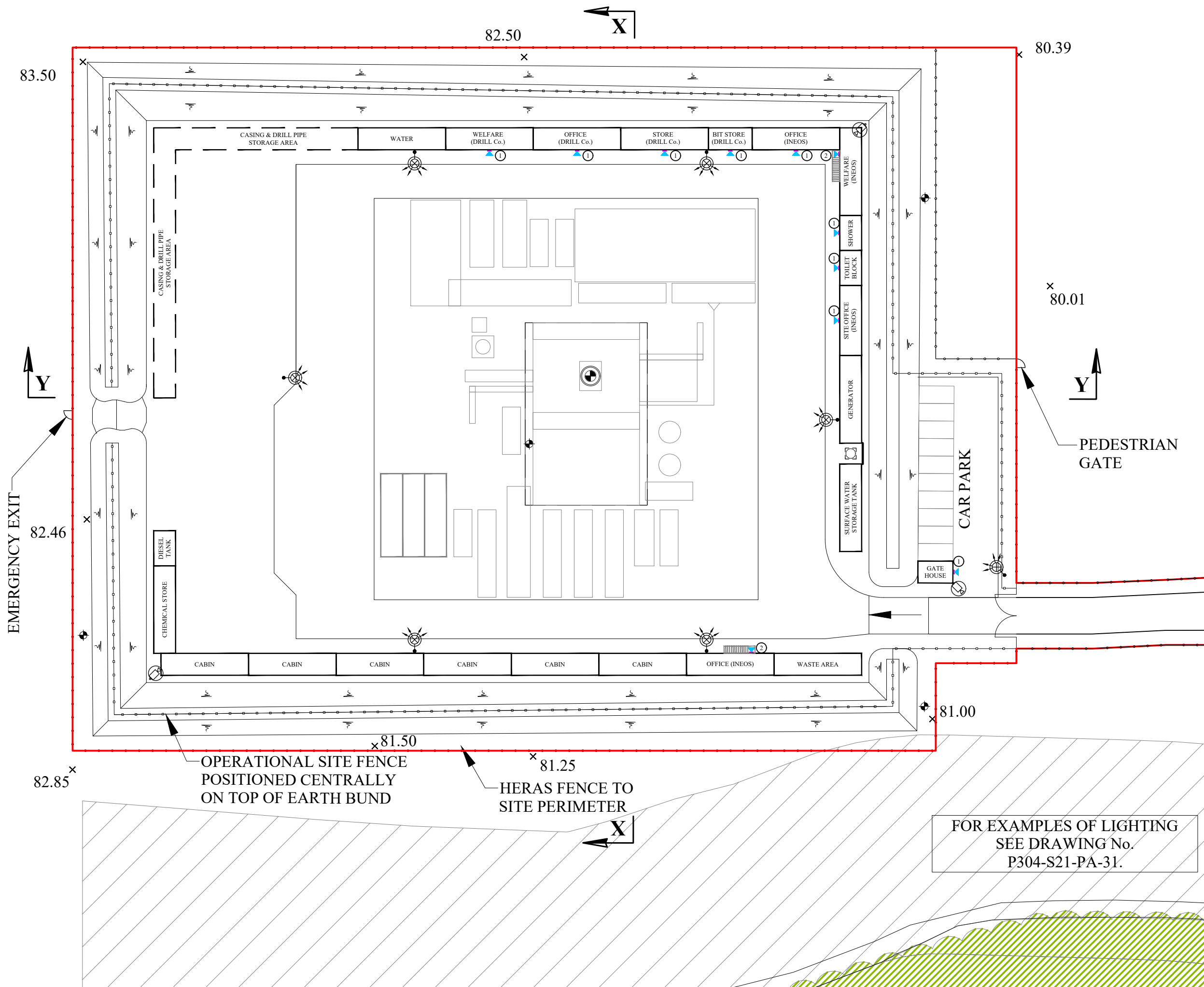
LAND WITHIN APPLICANT
CONTROL



REV	DESCRIPTION	DATE
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INEOS

Project Title:	P304 - S21 COMPOUND	
Drawing Title:	PROPOSED SITE RESTORATION	
Development Stage:	STAGE 5: ABANDONMENT AND RESTORATION	
Drawing Status:	APPROVAL	
Project Number:	17061	
Drawing Number:	P304-S21-PA-09	Revision:
Drawing Scale:	1:1250	
Paper Size:	A3	Date: 11.08.17



APPLICATION BOUNDARY AND EXTENT OF SURFACE WORKS

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

1 LIGHT OVER DOOR: ①

1 LIGHT OVER DOOR AT BOTH LEVELS: ②

30m WIDE ECOLOGICAL BUFFER

REV	DESCRIPTION	DATE

INEOS

Project Title: P304 - S21 COMPOUND

Drawing Title: PROPOSED LIGHTING PLAN STAGE 2 DRILLING, CORING AND SUSPENSION

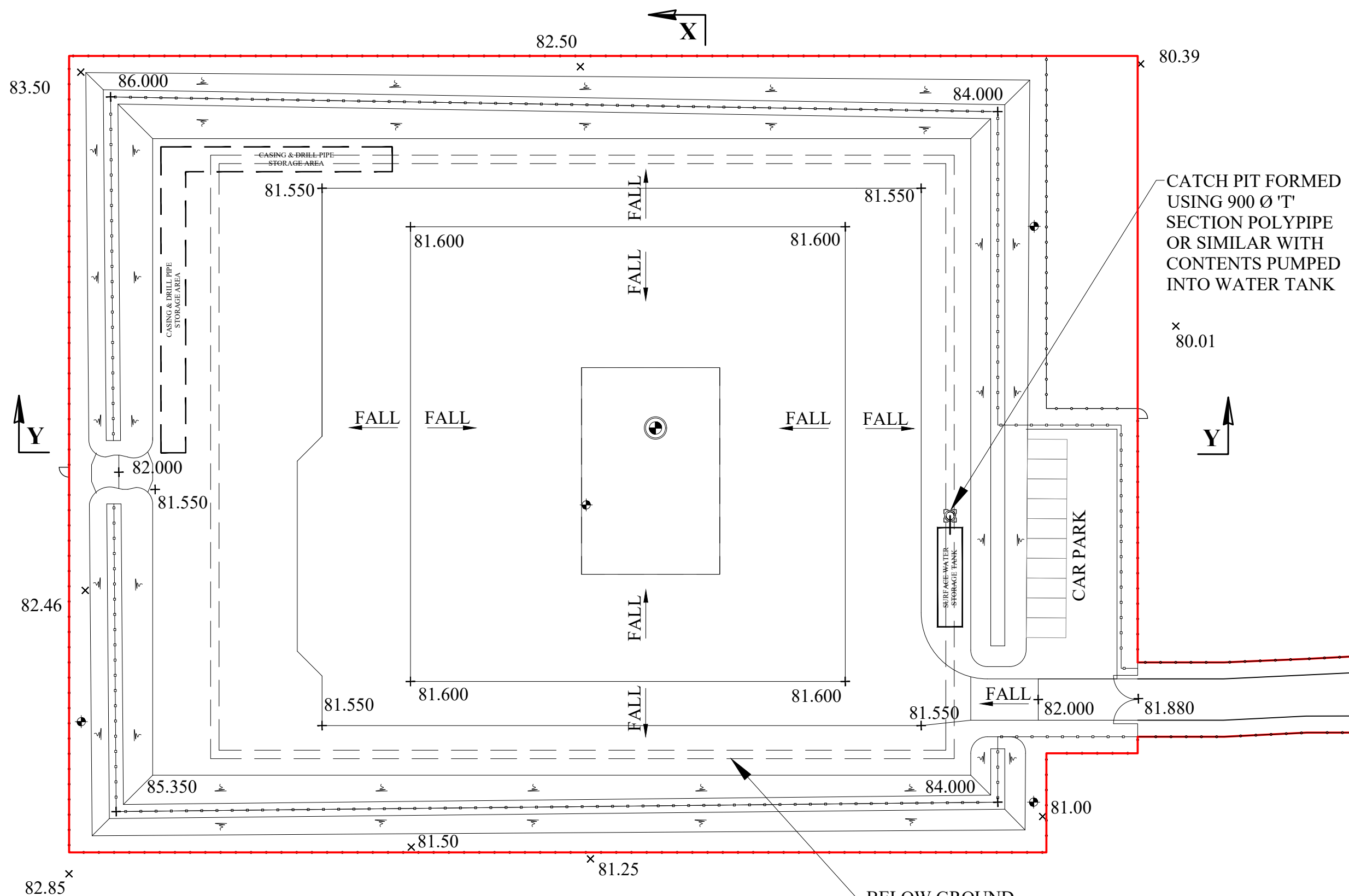
Drawing Status: APPROVAL

Project Number: 17061

Drawing Number: P304-S21-PA-10 Revision:

Drawing Scale: 1:500

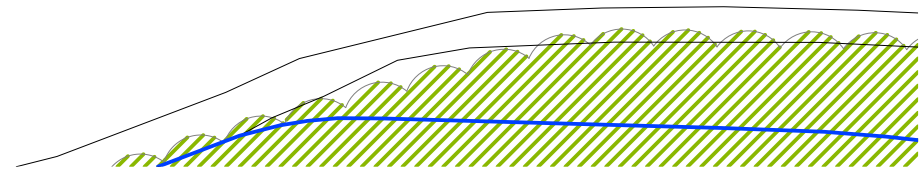
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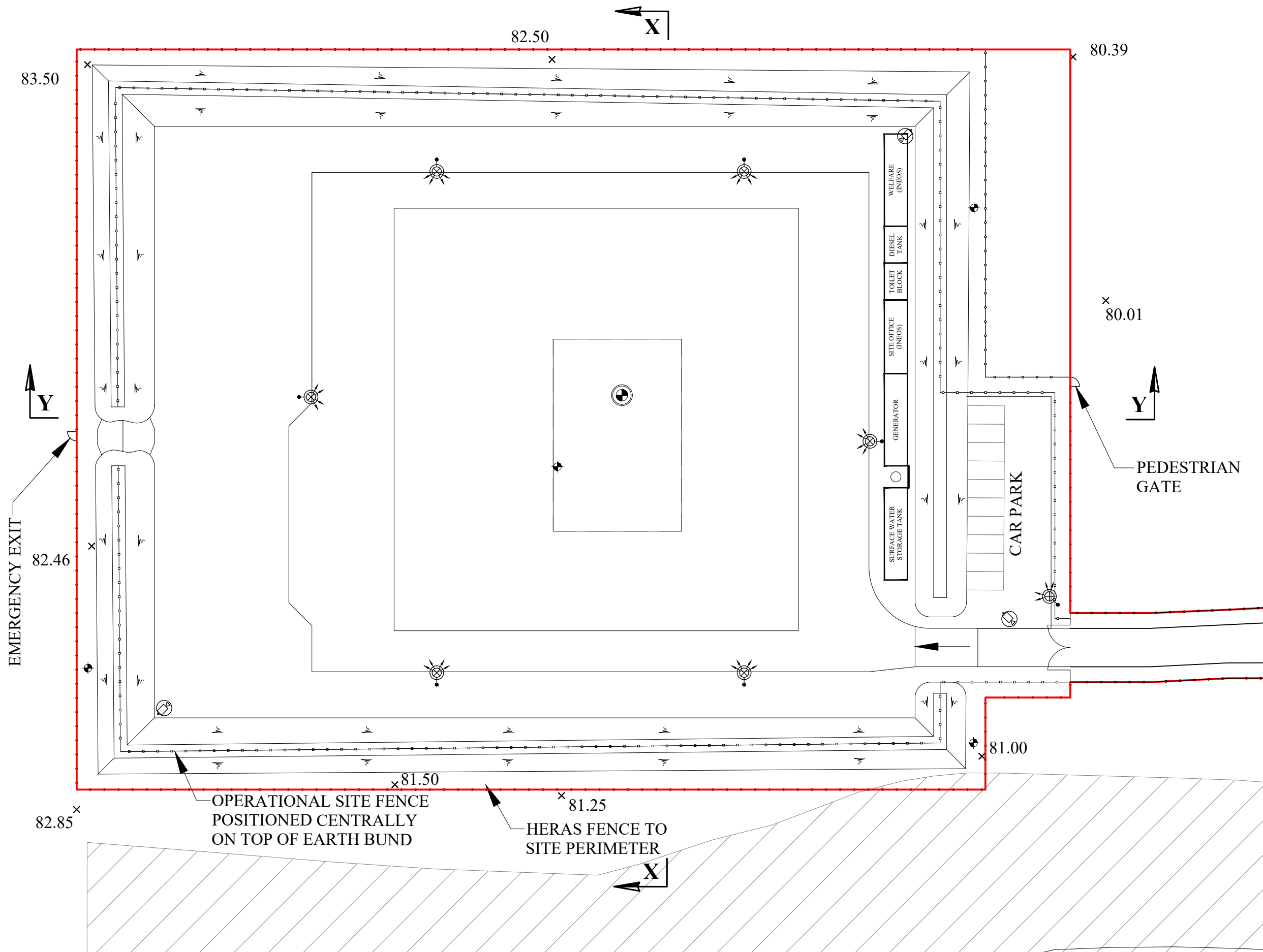


APPLICATION BOUNDARY
AND EXTENT OF SURFACE
WORKS

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

REV	DESCRIPTION	DATE
INEOS		
Project Title: P304 - S21 COMPOUND		
Drawing Title: PROPOSED DRAINAGE PLAN STAGES 1 - 4		
Drawing Status: APPROVAL		
Project Number: 17061		
Drawing Number: P304-S21-PA-11		Revision:
Drawing Scale: 1:500		
Paper Size: A3	Date:	11.08.17





APPLICATION BOUNDARY
AND EXTENT OF SURFACE
WORKS

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

INEOS

Project Title: P304 - S21
COMPOUND

Drawing Title: PROPOSED SITE LAYOUT
PLAN
SUSPENSION STAGE

Development
Stage: STAGE 3: SUSPENSION

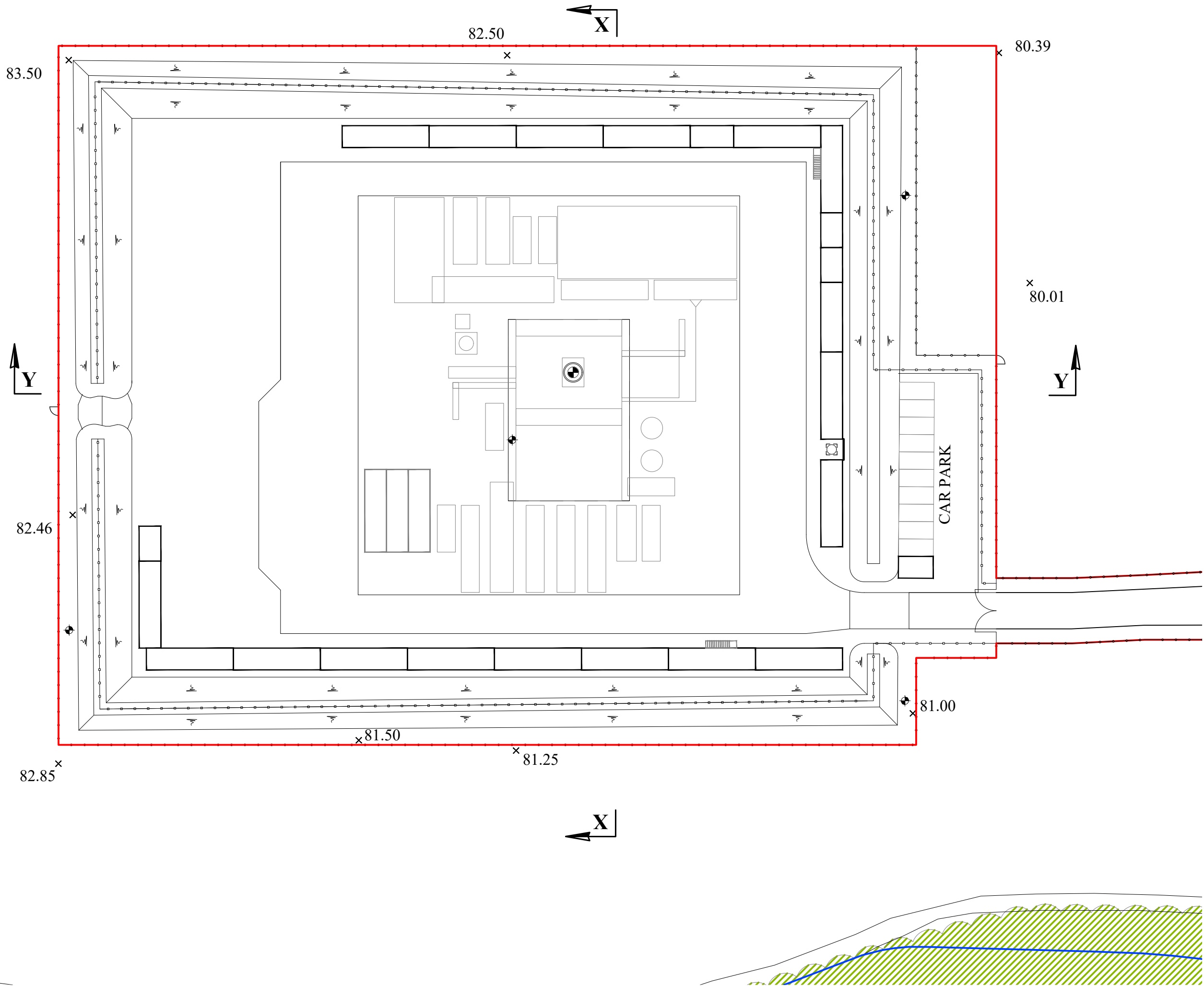
Drawing Status: APPROVAL

Project Number: 17061

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

Drawing Scale: 1:500

Paper Size: A3 Date: 11.08.17



APPLICATION BOUNDARY
AND EXTENT OF SURFACE
WORKS

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

REV	DESCRIPTION	DATE
INEOS		
Project Title: P304 - S21 COMPOUND		
Drawing Title: PROPOSED INTERNAL ACCESS PLAN		
Drawing Status: APPROVAL		
Project Number: 17061		
Drawing Number: P304-S21-PA-13		Revision:
Drawing Scale: 1:500		
Paper Size: A3	Date:	11.08.17

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

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

HERAS FENCE

OPERATIONAL SITE FENCE

PERMEABLE FINISH COMPRISING 150mm TYPE 1 STONE ON 300mm RECYCLED AGGREGATE

900 Ø DRAIN & STORAGE PIPE OR SIMILAR I.L. 80.150

TOP SOIL REMOVED AND REPLACED WITH COMPACTED GRANULAR FILL TO MAKE UP LEVELS

300mm COMPACTED RECYCLED AGGREGATE BELOW LINER ON TERRAM GEOTEXTILE MEMBRANE (OR SIMILAR)

PERMEABLE FINISH COMPRISING 150mm TYPE 1 STONE ON 300mm RECYCLED AGGREGATE

CONCRETE SURROUND TO WELL CELLAR

EXTENT OF WELL PAD

HDPE LINER

GREENFIX COVAMAT - PLUS TYPE 3 OR SIMILAR APPROVED FIXED TO FACE OF BUND

2mm HDPE LINER TAKEN UP THE INSIDE FACE OF THE BUND AND TUCKED IN WITH ADDITIONAL SOIL OVER TO PROVIDE FIXING FOR COVAMAT

150mm TYPE 1 STONE FINISH

300mm THICKNESS OF RECYCLED AGGREGATE

TEMPORARY SOIL STORAGE AREA APPROXIMATELY 3m HIGH

OPERATIONAL SITE FENCE

HERAS FENCE

PROFILE OF EXISTING GROUND

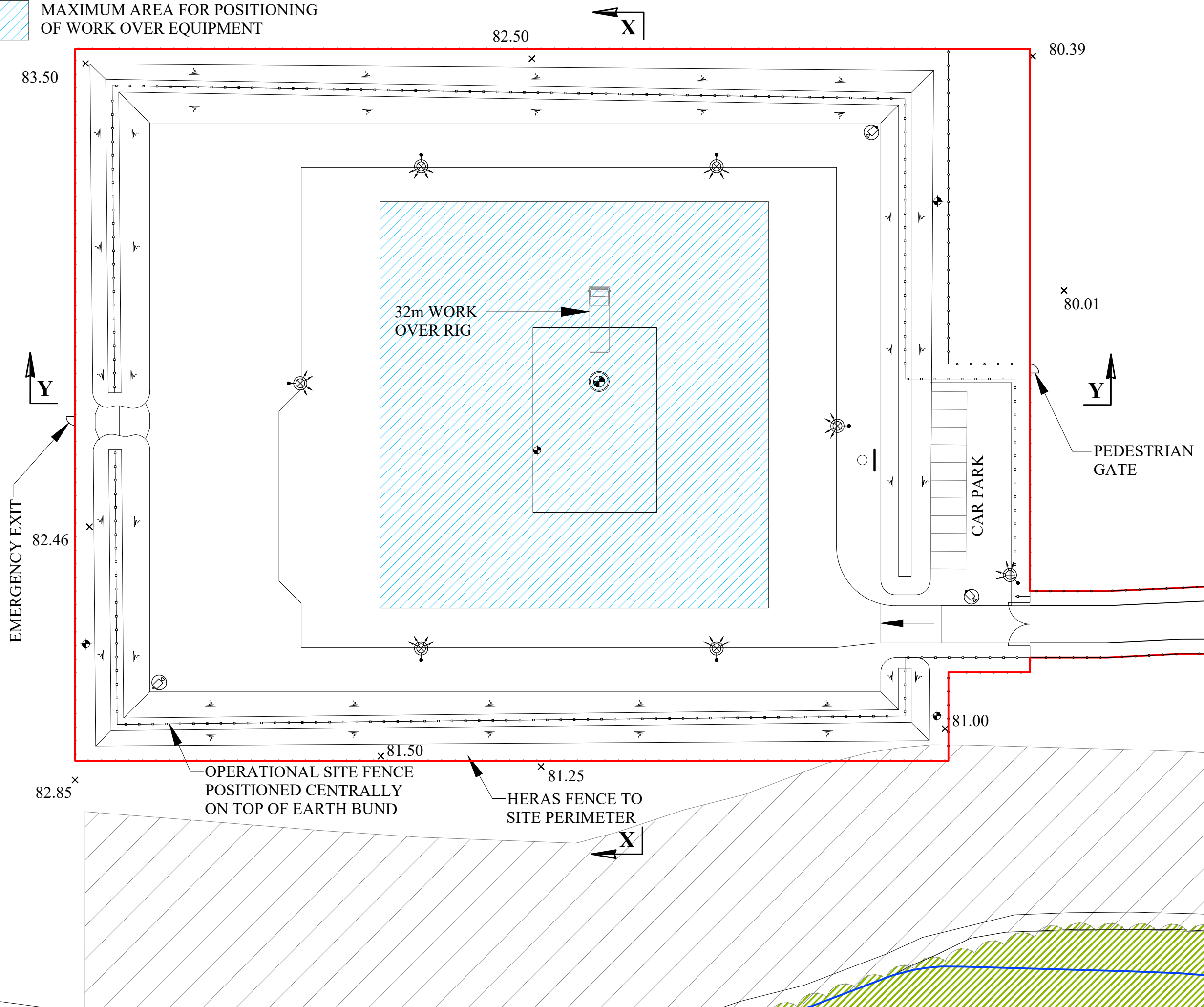
900 Ø DRAIN & STORAGE PIPE OR SIMILAR I.L. 80.150

HDPE LINER INSTALLED ACROSS THE SITE TO PROVIDE IMPERMEABLE BARRIER TAKEN UP FACE OF BUND

X (1:200)

REV	DESCRIPTION	DATE
		
Project Title:	P304 - S21 COMPOUND	
Drawing Title:	PROPOSED SECTIONS & DETAILS STAGE 1 SITE DEVELOPMENT & ESTABLISHMENT	
Drawing Status:	APPROVAL	
Project Number:	17061	
Drawing Number:	P304-S21-PA-16	Revision:
Drawing Scale:	1:200/50	
Paper Size:	A3	Date: 11.08.17

MAXIMUM AREA FOR POSITIONING
OF WORK OVER EQUIPMENT



APPLICATION BOUNDARY
AND EXTENT OF SURFACE
WORKS

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
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INEOS

Project Title: P304 - S21
COMPOUND

Drawing Title: PROPOSED SITE LAYOUT
PLAN
POSSIBLE WORK OVER

Development
Stage: STAGE 3a:
POSSIBLE WORK OVER

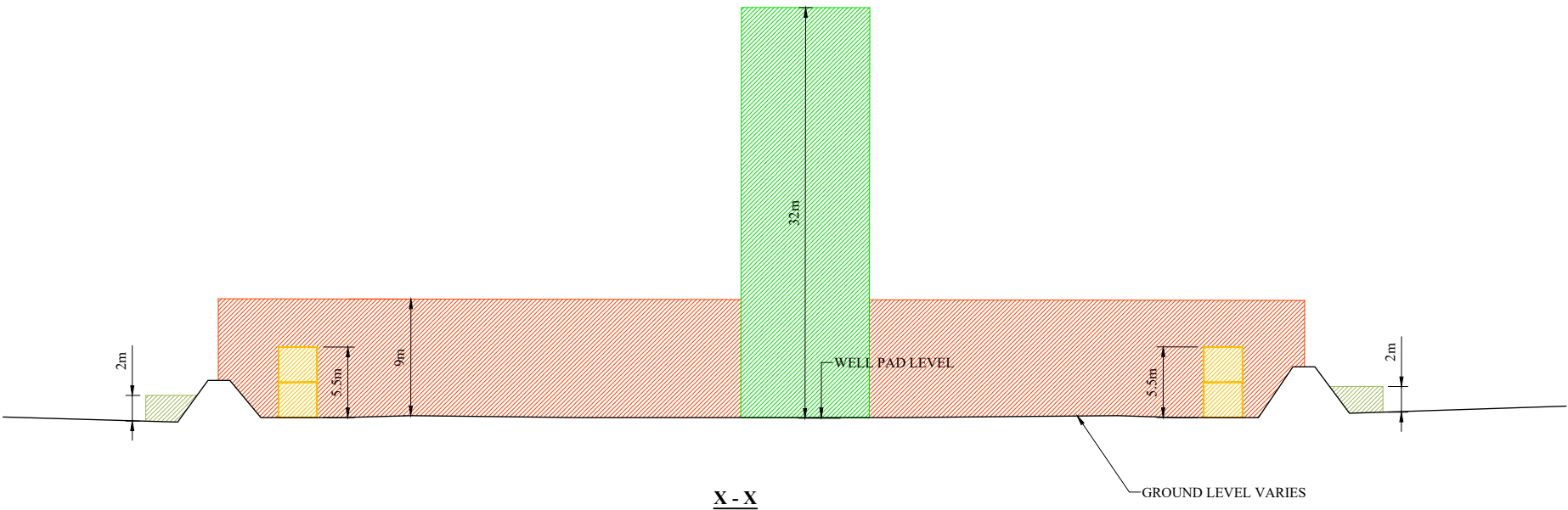
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Project Number: 17061

Drawing Number: P304-S21-PA-17 Revision:

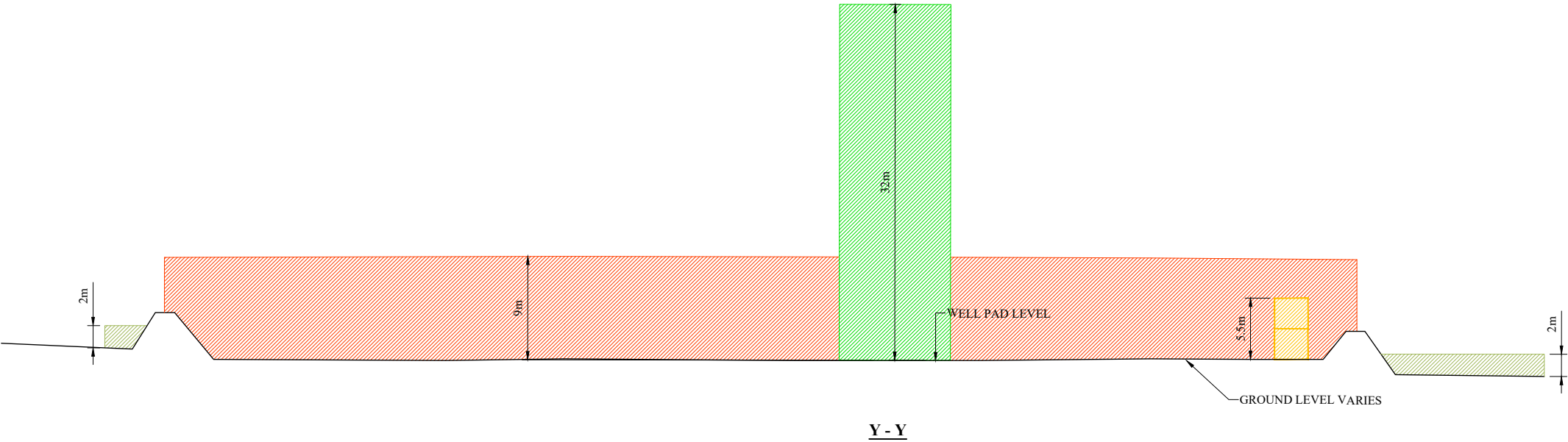
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Paper Size: A3 Date: 11.08.17

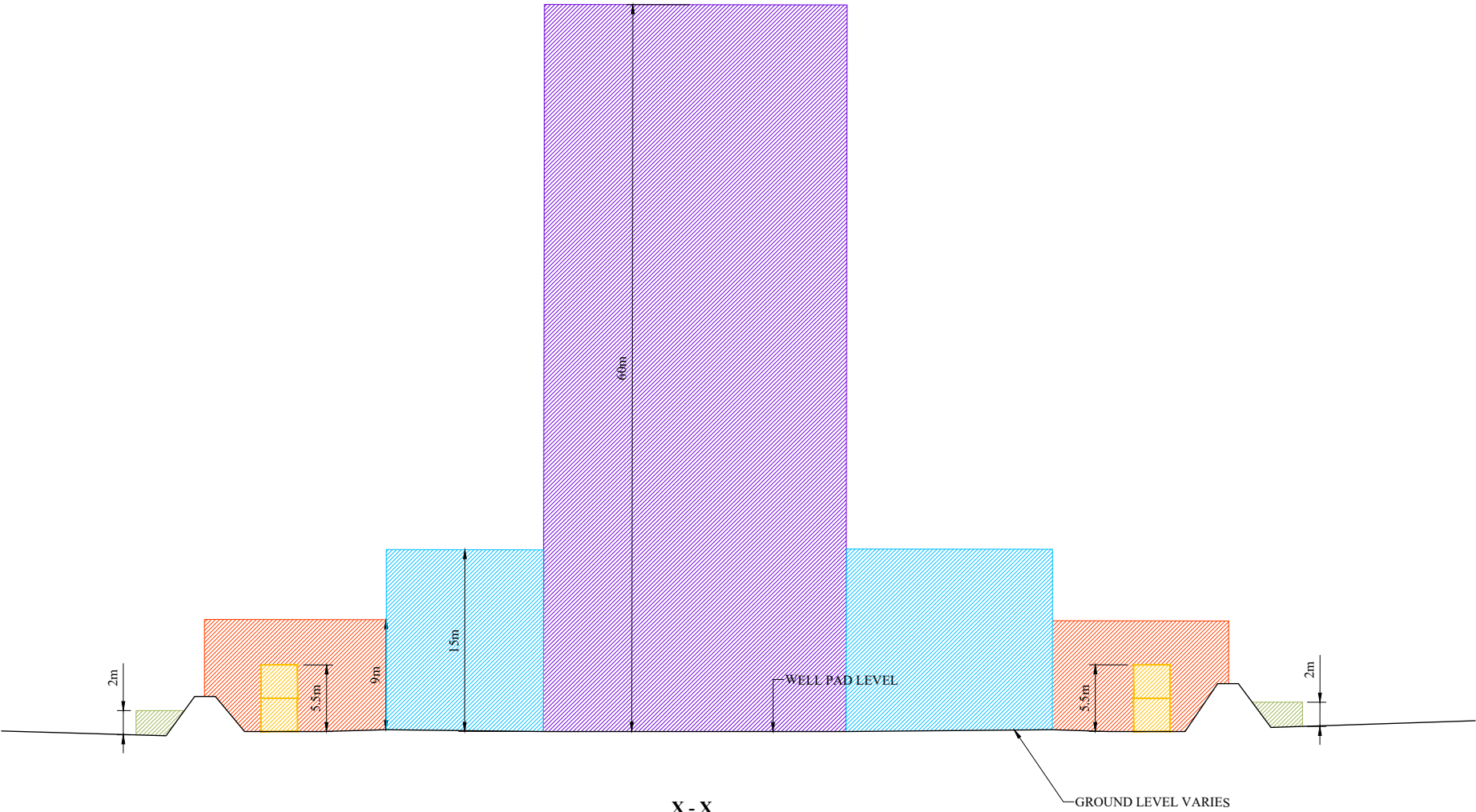


KEY:

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	

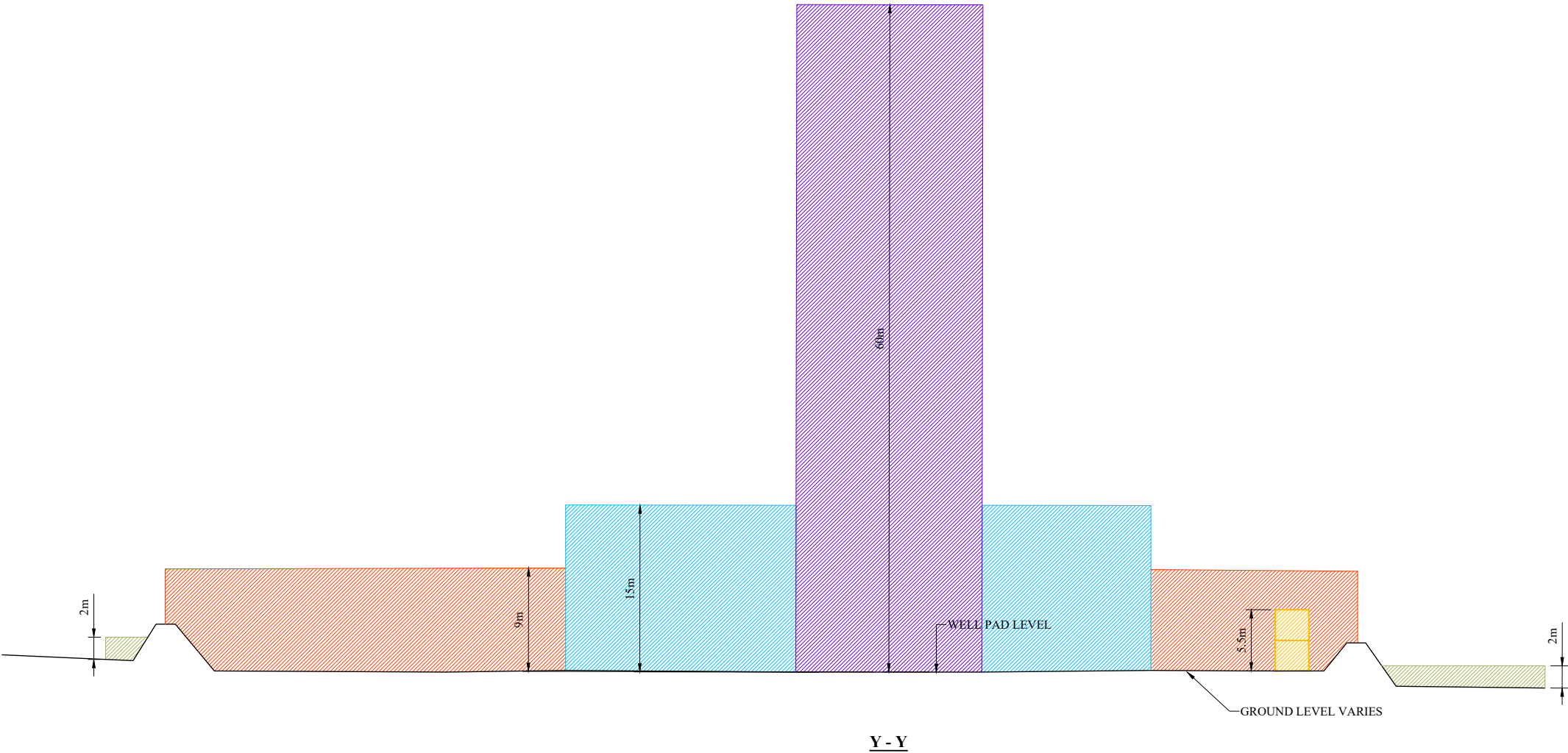


REV	DESCRIPTION	DATE
Project Title:	P304 - S21 COMPOUND	
Drawing Title:	PARAMETER SECTIONS	
Development Stage:	STAGE 1: SITE DEVELOPMENT AND ESTABLISHMENT	
Drawing Status:	APPROVAL	
Project Number:	17061	
Drawing Number:	P304-S21-PA-21	Revision:
Drawing Scale:	1:500	
Paper Size:	A3	Date: 11.08.17



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	



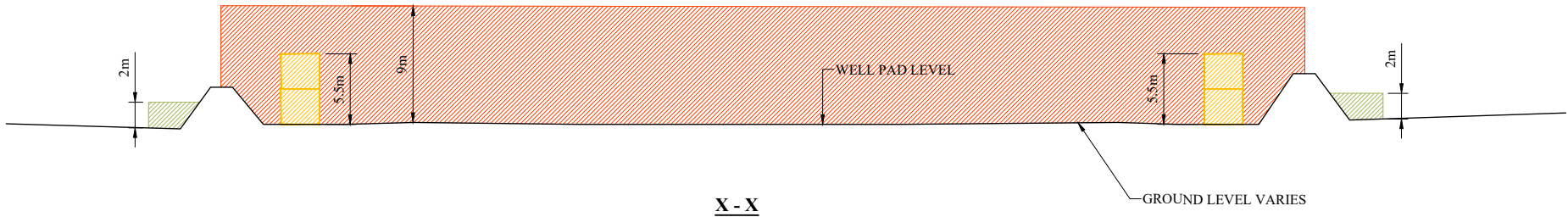
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Project Title:	P304 - S21 COMPOUND	
Drawing Title:	PARAMETER SECTIONS	
Development Stage:	STAGE 2: DRILLING, CORING AND SUSPENSION	
Drawing Status:	APPROVAL	
Project Number:	17061	
Drawing Number:	P304-S21-PA-22	Revision:
Drawing Scale:	1:500	
Paper Size:	A3	Date: 11.08.17

KEY:

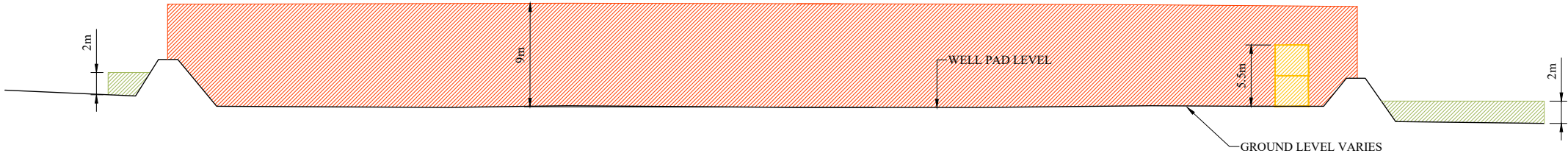
ZONE FOR HERAS FENCING
MAXIMUM HEIGHT 2m

MAXIMUM HEIGHT OF DOUBLE
STACKED CABINS 5.5m

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

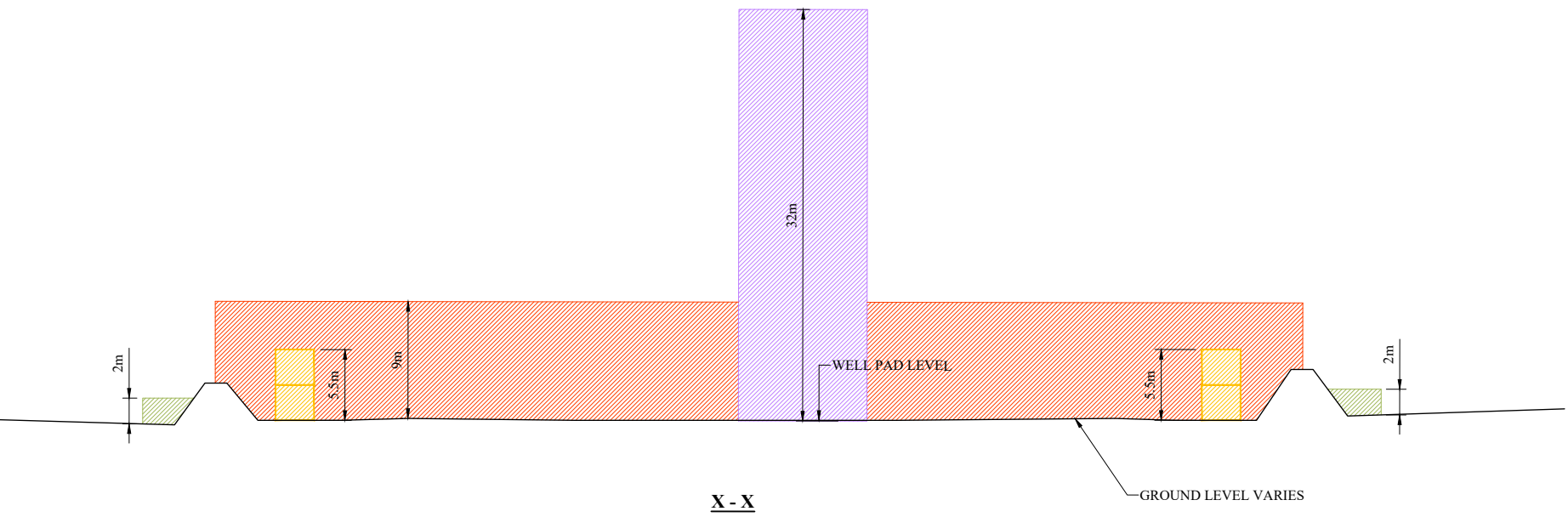


X - X



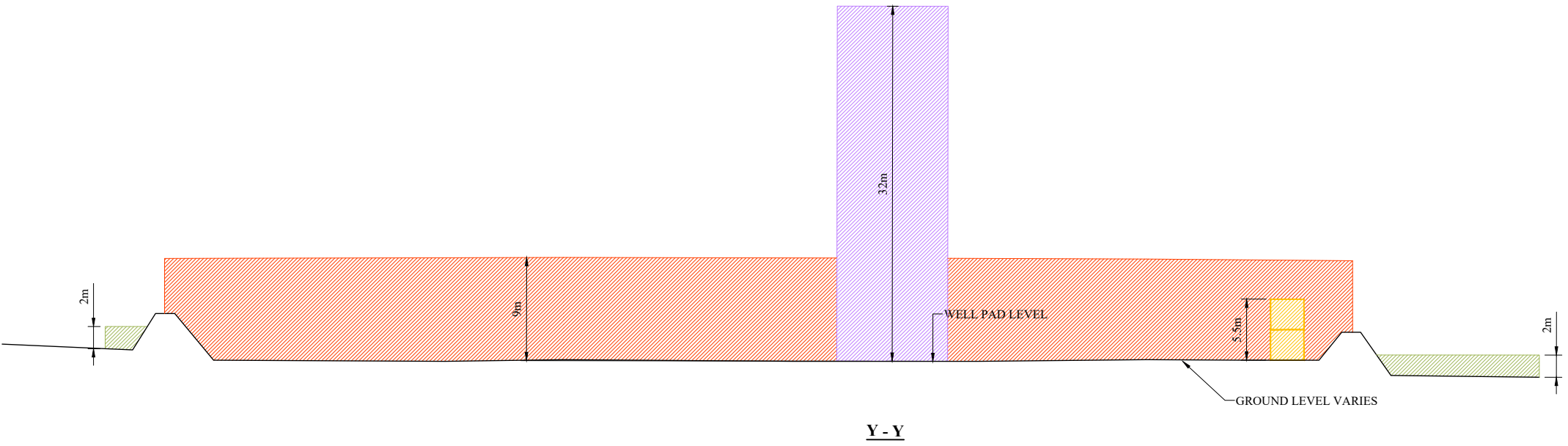
Y - Y

REV	DESCRIPTION	DATE
INEOS		
Project Title:	P304 - S21 COMPOUND	
Drawing Title:	PARAMETER SECTIONS	
Development Stage:	STAGE 3: MAINTENANCE AND SUSPENSION WELL	
Drawing Status:	APPROVAL	
Project Number:	17061	
Drawing Number:	P304-S21-PA-23	Revision:
Drawing Scale:	1:500	
Paper Size:	A3	Date: 11.08.17

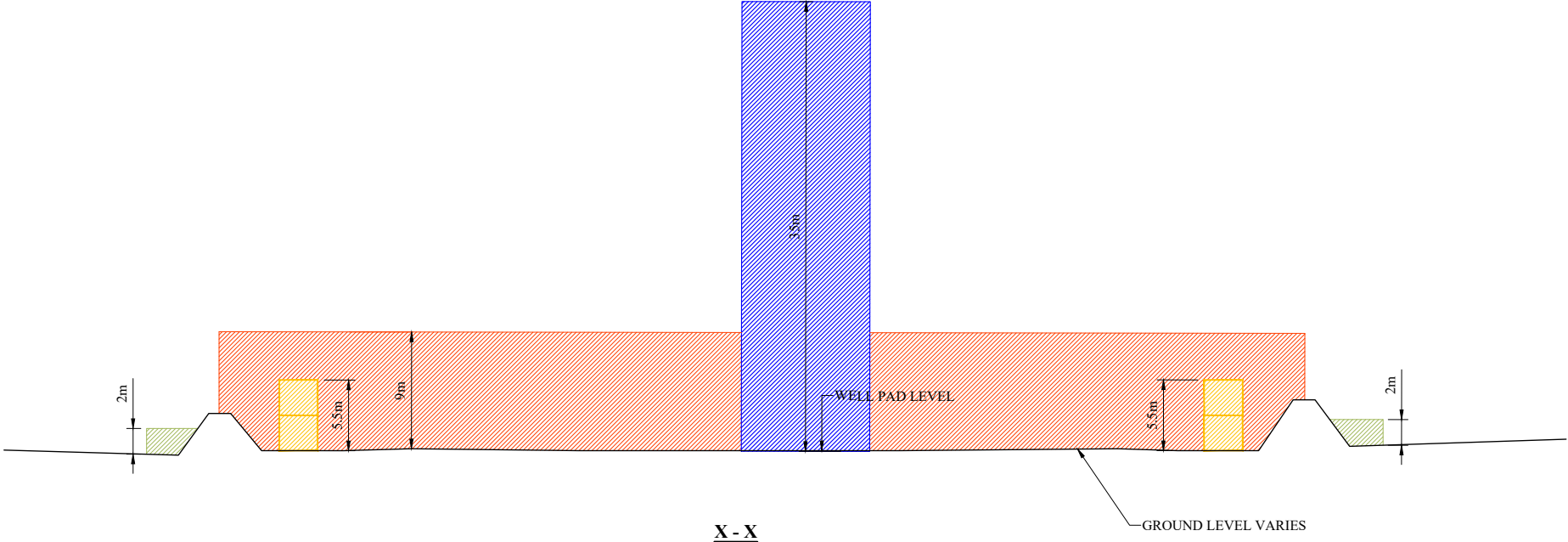


KEY:

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	

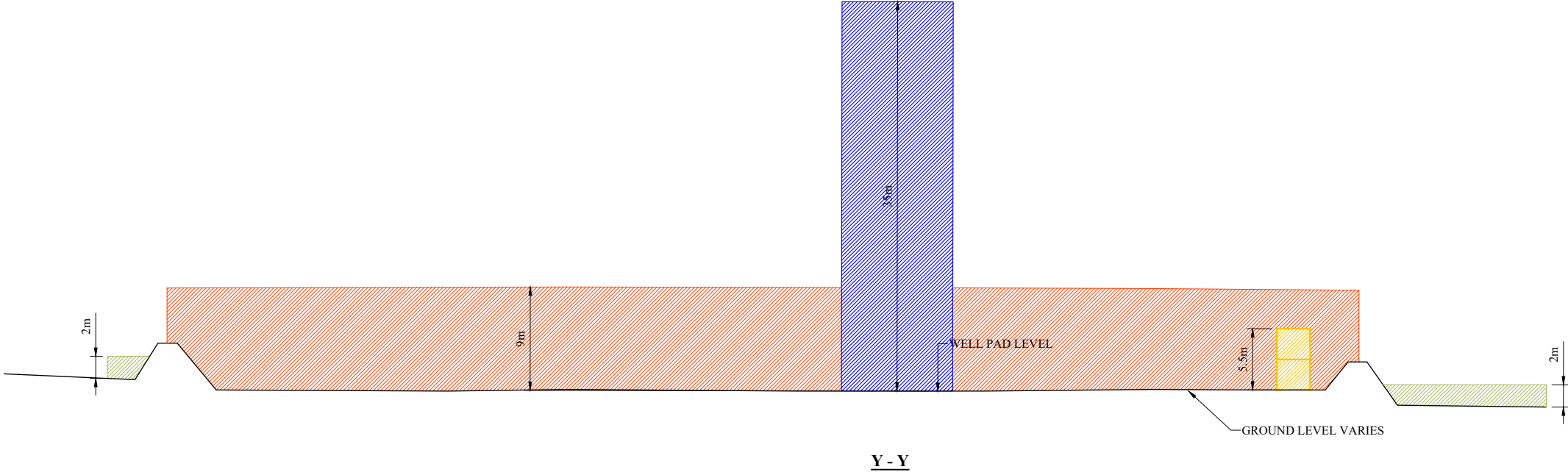


REV	DESCRIPTION	DATE
Project Title:	P304 - S21 COMPOUND	
Drawing Title:	PARAMETER SECTIONS	
Development Stage:	STAGE 3a: POTENTIAL WORK OVER OF WELL	
Drawing Status:	APPROVAL	
Project Number:	17061	
Drawing Number:	P304-S21-PA-24	Revision:
Drawing Scale:	1:500	
Paper Size:	A3	Date: 11.08.17

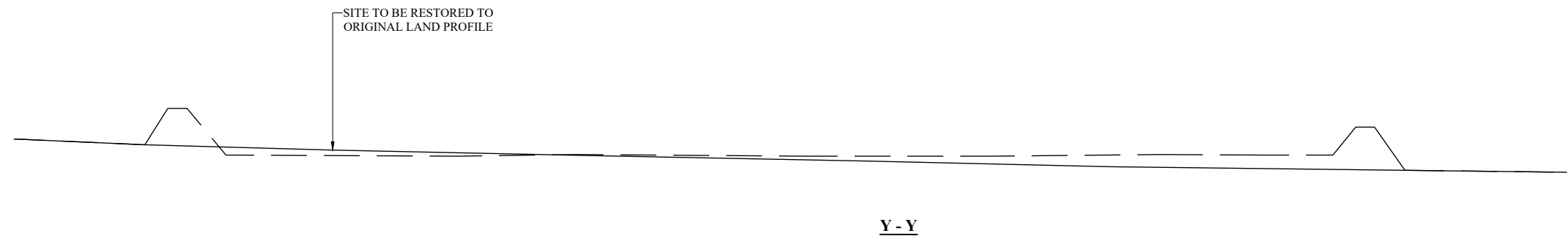
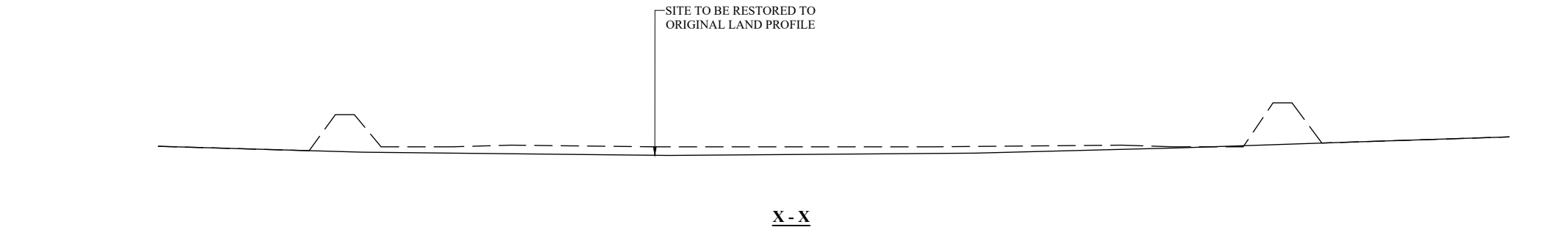


KEY:

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 CRANE AND LISTENING EQUIPMENT MAXIMUM HEIGHT 35m	



REV	DESCRIPTION	DATE
Project Title:	P304 - S21 COMPOUND	
Drawing Title:	PARAMETER SECTIONS	
Development Stage:	STAGE 4: LISTENING STAGE	
Drawing Status:	APPROVAL	
Project Number:	17061	
Drawing Number:	P304-S21-PA-25	Revision:
Drawing Scale:	1:500	
Paper Size:	A3	Date: 11.08.17



REV	DESCRIPTION	DATE
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INEOS

Project Title: P304 - S21 COMPOUND

Drawing Title: PARAMETER SECTIONS

Development Stage: STAGE 5: ABANDONMENT AND RESTORATION

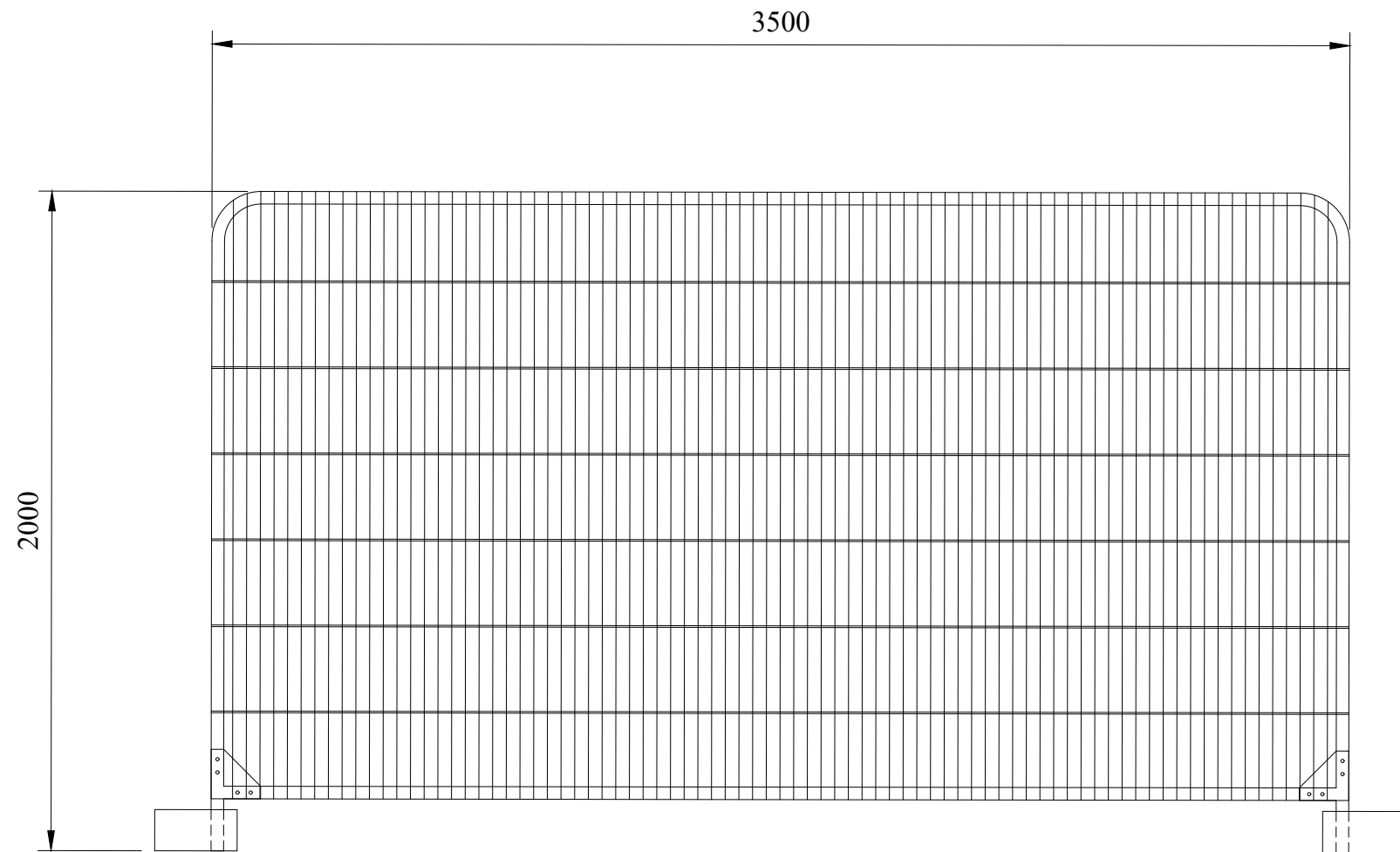
Drawing Status: APPROVAL

Project Number: 17061

Drawing Number: P304-S21-PA-26 Revision:

Drawing Scale: 1:500

Paper Size: A3 Date: 11.08.17



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

REV	DESCRIPTION	DATE
Project Title:	P304 - S21 COMPOUND	
Drawing Title:	FENCE DETAILS	
Drawing Status:	APPROVAL	
Project Number:	17061	
Drawing Number:	P304-S21-PA-30	Revision:
Drawing Scale:	1:20	
Paper Size:	A3	Date: 11.08.17

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
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Project Title: P304 - S21 COMPOUND		
Drawing Title: LIGHTING EXAMPLES		
Drawing Status: APPROVAL		
Project Number: 17061		
Drawing Number: P304-S21-PA-31		Revision:
Drawing Scale: N.T.S.		
Paper Size: A3	Date:	11.08.17