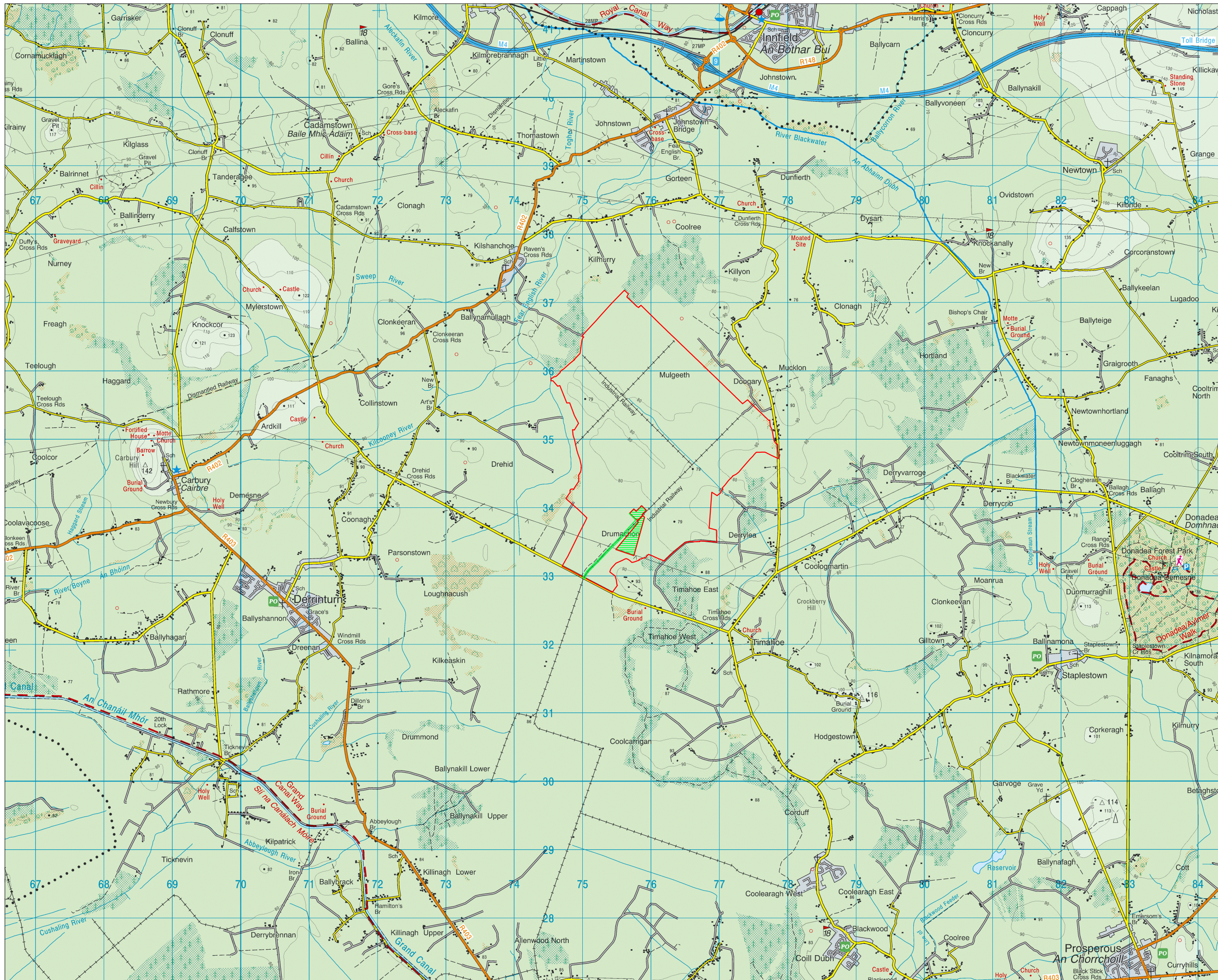


Appendix 4-1

Site Layout Planning Drawings



Drawing Notes

All dimensions are in meters, unless noted otherwise.

All dimensions to be checked on site and any discrepancy to be reported to the engineer.

Panel angle, orientation and location may be subject to change depending on the final design, PV panel & system manufacturer in order to maximize the efficiency of the installation. The number and location of invertors and other electrical equipment may also be subject to change.

Final position of CCTV stands to be decided at construction stage.

Drains which encroach on panel layout to be culverted.

Drawing Legend

- KCC Application Boundary
- S182A Application Boundary

Location Context Map

DRAWING TITLE:
Timahoe North Project, Co. Kildare

DRAWING BY: Joseph O'Brien	CHECKED BY: Jimmy Green
PROJECT No.: 160727	DRAWING No.: 0727 - 01
SCALE: 1:50,000 @ A3	DATE: 13.12.2018
OS SHEET No.: OS2622, OS2624, OS2822, OS2824	

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Drawing Notes

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Final position of CCTV stands to be decided at construction stage.

Drains which encroach on panel layout to be culverted.

- Drawing Legend**
- KCC Application Boundary
 - S182A Application Boundary
 - EXISTING DRAINS
 - PV TABLE
 - EXISTING ACCESS ROAD TO BE UPGRADED
 - NEW ACCESS ROADS
 - BRIDGE OVER DRAIN WITH ACCESS ROAD
 - INVERTER STATION WITH PAD AND LABELING (PAD SIZE: 25m x 25m)
 - DEER FENCE (PROJECT BOUNDARIES)
 - BRIDGING STRUCTURE OVER DRAIN FOR THE DEER FENCE CROSSING
 - ACCESS GATES
 - SHEEP FENCE (AROUND DRAINS)
 - SUBSTATION FENCE
 - TEMPORARY COMPOUND FENCE
 - PEAT STORAGE AREA
 - SUBSTATION AREA
 - HYDROLOGICAL BUFFER ZONE
 - TEMPORARY COMPOUND AREA
 - MAIN COMPOUND AREA
 - CCTV CAMERA
 - SWITCHBOARD (NORTH SIDE)
 - 20ft CONTAINER (WELFARE OR STORAGE)
 - 40ft CONTAINER (WELFARE OR STORAGE)
 - NEW DRAIN
 - CONCRETE DRAINAGE CULVERT
 - OH POWER LINES ROUTE & OH STRUCTURE LABEL
 - EXISTING OH POWER LINES ROUTE & OH STRUCTURE LABEL (SYMBOLS NOT TO SCALE)
 - SECTION OF THE EXISTING OH POWER LINE TO BE REMOVED (SYMBOLS NOT TO SCALE)
 - U-TURN AREAS (THREE TYPES)



DRAWING TITLE:
Aerial Map

PROJECT TITLE:
Timahoe North Project, Co. Kildare

DRAWING BY: **Joseph O Brien** CHECKED BY: **Jimmy Green**

PROJECT No.: **160727** DRAWING No.: **0727 - 03**

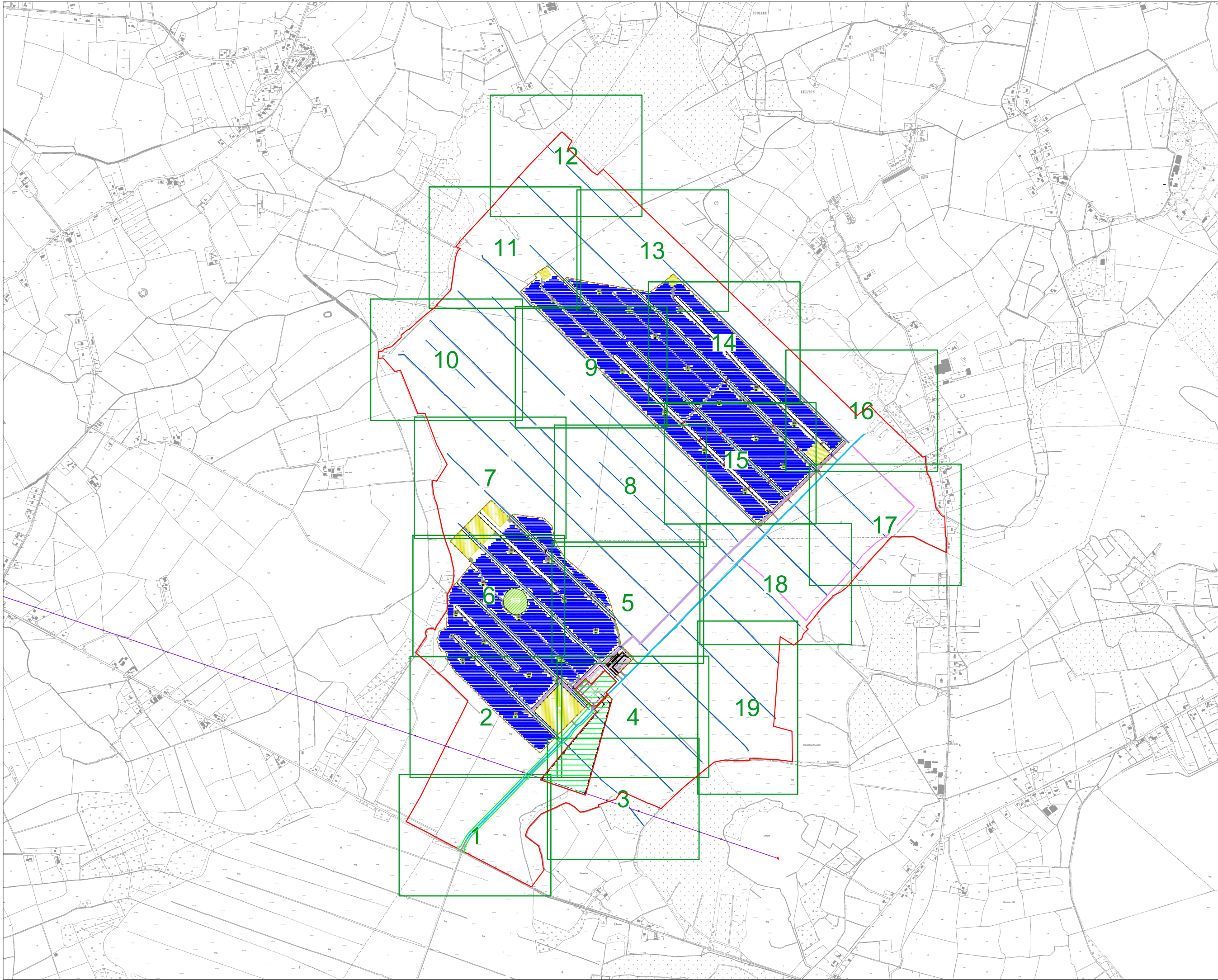
SCALE: **1:20,000 @ A3** DATE: **13.12.2018**

OS SHEET No.:



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Final position of CCTV stands to be decided at construction stage.

Drains which encroach on panel layout to be culverted.

- Drawing Legend**
- KCC Application Boundary
 - S182A Application Boundary
 - EXISTING DRAINS
 - PV TABLE
 - EXISTING ACCESS ROAD TO BE UPGRADED
 - NEW ACCESS ROADS
 - BRIDGE OVER DRAIN WITH ACCESS ROAD
 - X INVERTER STATION WITH PAD AND LABELING (PAD SIZE: 25m x 25m)
 - DEER FENCE (PROJECT BOUNDARIES)
 - BRIDGING STRUCTURE OVER DRAIN FOR THE DEER FENCE CROSSING
 - ACCESS GATES
 - SHEEP FENCE (AROUND DRAINS)
 - SUBSTATION FENCE
 - TEMPORARY COMPOUND FENCE
 - PEAT STORAGE AREA
 - SUBSTATION AREA
 - HYDROLOGICAL BUFFER ZONE
 - TEMPORARY COMPOUND AREA
 - MAIN COMPOUND AREA
 - ▶ CCTV CAMERA
 - Switchboard SWITCHBOARD (NORTH SIDE)
 - 20ft CONTAINER (WELFARE OR STORAGE)
 - 40ft CONTAINER (WELFARE OR STORAGE)
 - NEW DRAIN
 - CONCRETE DRAINAGE CULVERT
 - OH POWER LINES ROUTE & OH STRUCTURE LABEL
 - EXISTING OH POWER LINES ROUTE & OH STRUCTURE LABEL (SYMBOLS NOT TO SCALE)
 - SECTION OF THE EXISTING OH POWER LINE TO BE REMOVED (SYMBOLS NOT TO SCALE)
 - U-TURN AREAS (THREE TYPES)

DRAWING TITLE:
Site Layout - Overview Sheet

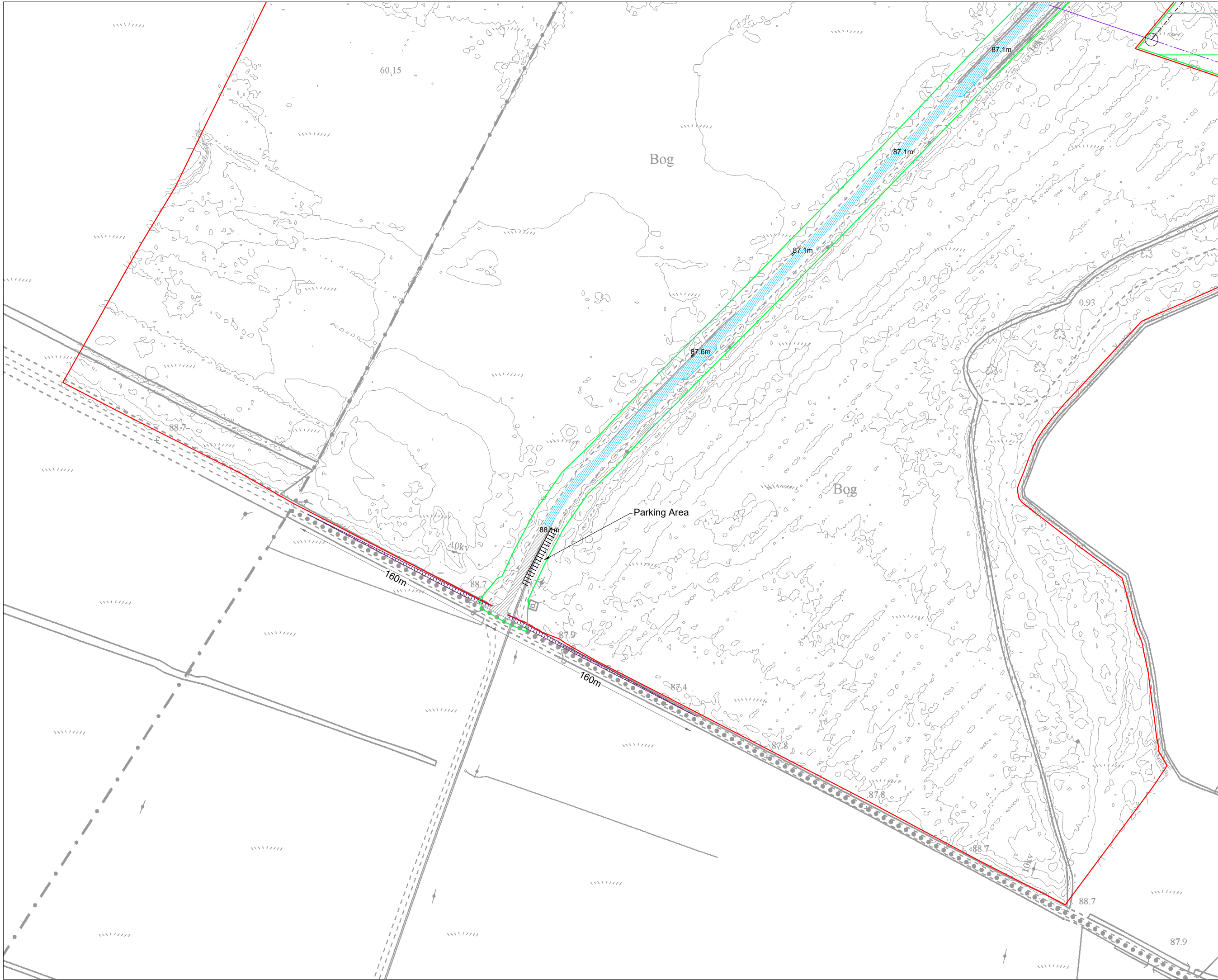
PROJECT TITLE:
Timahoe North Project, Co. Kildare

DRAWING BY: Joseph O'Brien	CHECKED BY: Jimmy Green
PROJECT No.: 160727	DRAWING No.: 0727 - 04
SCALE: 1:20,000 @ A3	DATE: 13.12.2018

OS SHEET No.: 3187, 3188, 3253, 3254

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Final position of CCTV stands to be decided at construction stage.

Drains which encroach on panel layout to be culverted.

- Drawing Legend**
- KCC Application Boundary
 - S182A Application Boundary
 - EXISTING ACCESS ROAD TO BE UPGRADED
 - NEW ACCESS ROADS
 - Sight Lines
 - OH POWER LINES ROUTE & OH STRUCTURE LABEL
 - EXISTING OH POWER LINES ROUTE & OH STRUCTURE LABEL (SYMBOLS NOT TO SCALE)
 - SECTION OF THE EXISTING OH POWER LINE TO BE REMOVED (SYMBOLS NOT TO SCALE)



Site Layout - Sheet 1 of 19

PROJECT TITLE: **Timahoe North Project, Co. Kildare**

DRAWING BY: **Joseph O'Brien** CHECKED BY: **Jimmy Green**

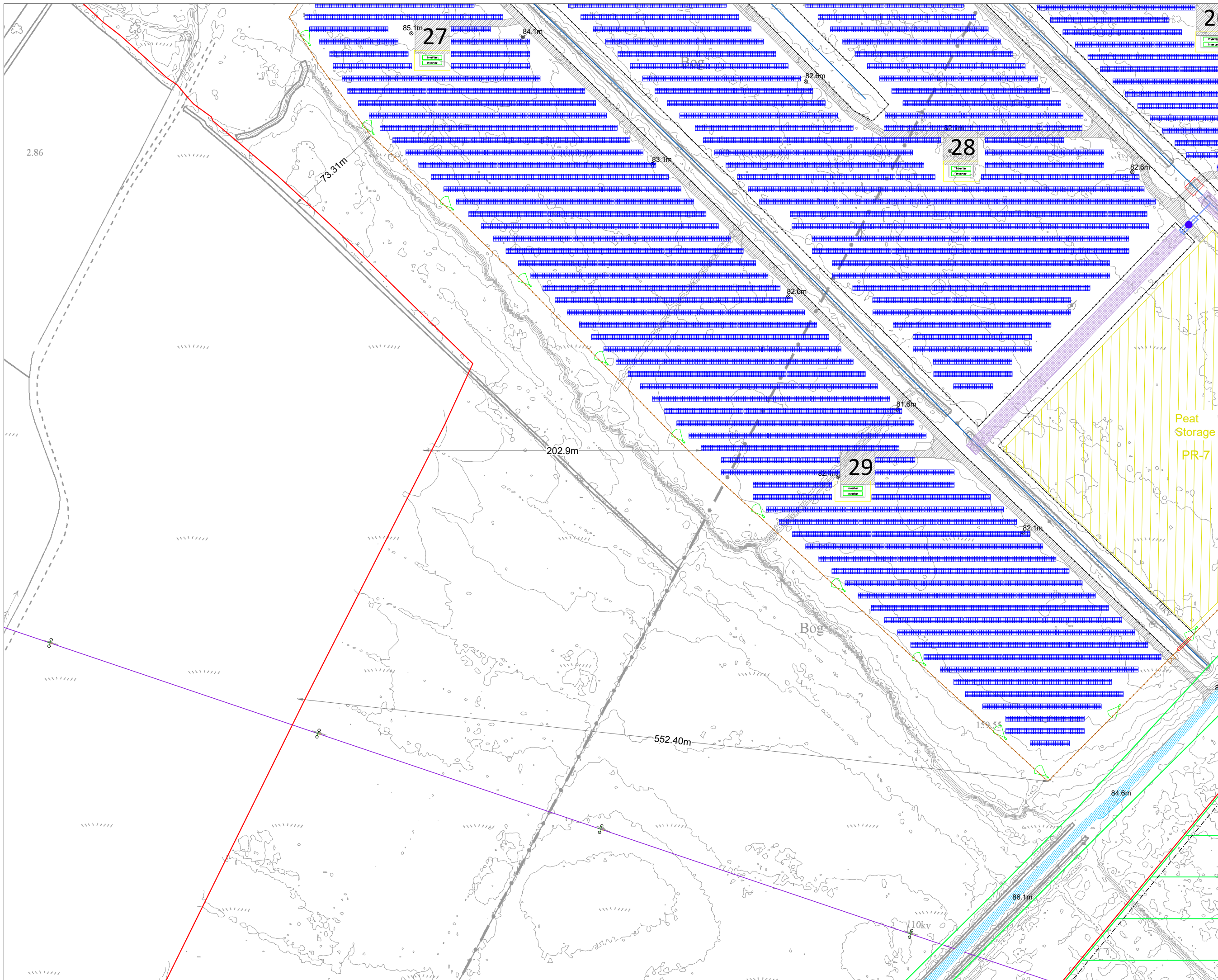
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SCALE: **1:2,500 @ A3** DATE: **13.12.2018**

OS SHEET No: **3187, 3188, 3253, 3254**

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Drawing Notes

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Final position of CCTV stands to be decided at construction stage.

Drains which encroach on panel layout to be culverted.

- ### Drawing Legend
- KCC Application Boundary
 - S182A Application Boundary
 - EXISTING DRAINS
 - ▨ PV TABLE
 - ▨ EXISTING ACCESS ROAD TO BE UPGRADED
 - ▨ NEW ACCESS ROADS
 - ▭ BRIDGE OVER DRAIN WITH ACCESS ROAD
 - X INVERTER STATION WITH PAD AND LABELING (PAD SIZE: 25m x 25m)
 - DEER FENCE (PROJECT BOUNDARIES)
 - BRIDGING STRUCTURE OVER DRAIN FOR THE DEER FENCE CROSSING
 - ACCESS GATES
 - SHEEP FENCE (AROUND DRAINS)
 - ▨ PEAT STORAGE AREA
 - ▭ CCTV CAMERA
 - NEW DRAIN
 - CONCRETE DRAINAGE CULVERT
 - OH POWER LINES ROUTE & OH STRUCTURE LABEL
 - EXISTING OH POWER LINES ROUTE & OH STRUCTURE LABEL (SYMBOLS NOT TO SCALE)
 - SECTION OF THE EXISTING OH POWER LINE TO BE REMOVED (SYMBOLS NOT TO SCALE)
 - ▨ U-TURN AREAS (THREE TYPES)

N

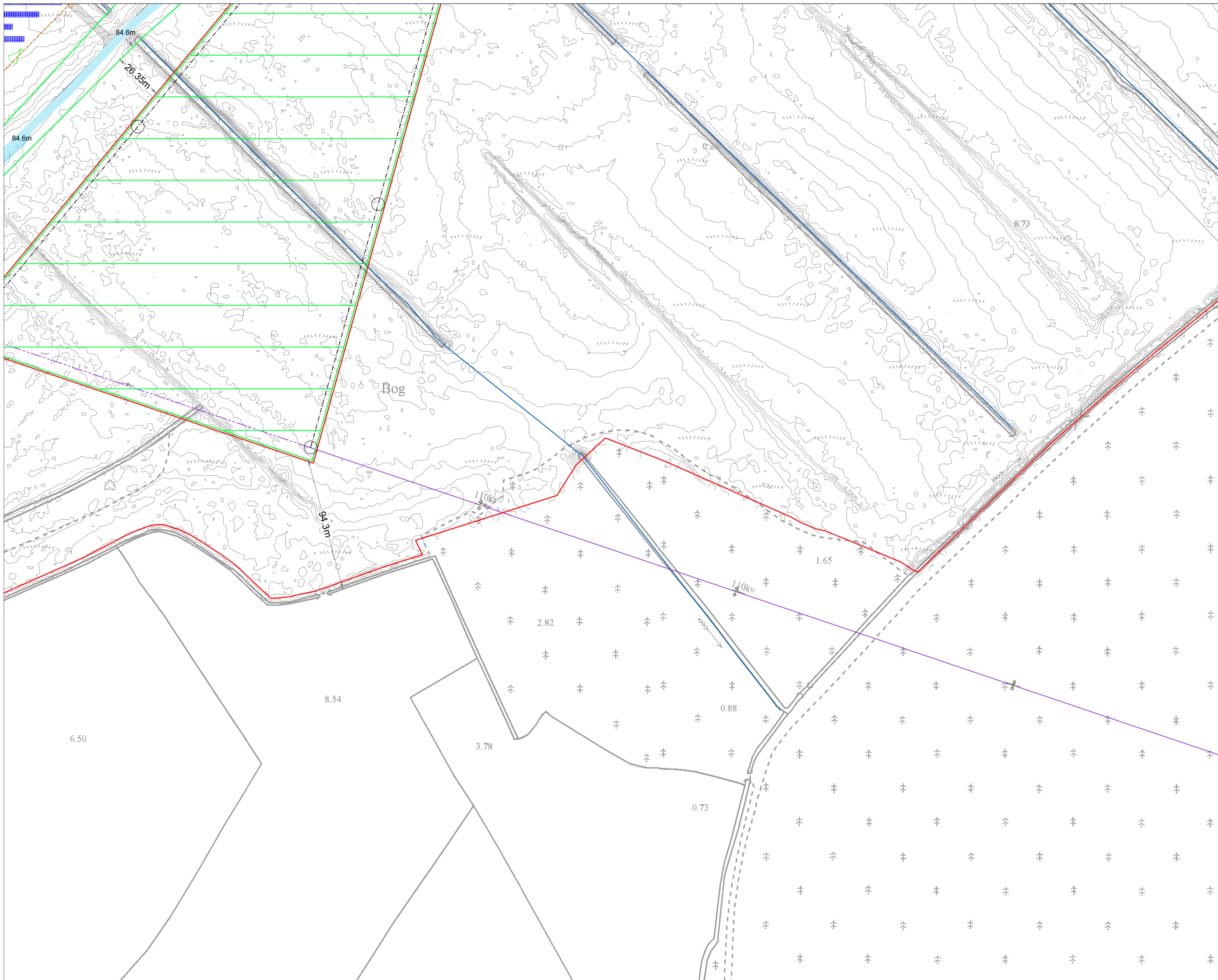
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DRAWING TITLE:
Site Layout - Sheet 2 of 19

PROJECT TITLE:
Timahoe North Project, Co. Kildare

DRAWING BY: Joseph O'Brien	CHECKED BY: Jimmy Green
PROJECT NO.: 160727	DRAWING NO.: 0727 - 06
SCALE: 1:2,500 @ A3	DATE: 13.12.2018
OS SHEET NO.: 3187, 3188, 3253, 3254	

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Drawing Notes

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Final position of CCTV stands to be decided at construction stage.

Drains which encroach on panel layout to be culverted.

- Drawing Legend**
- KCC Application Boundary
 - S182A Application Boundary
 - EXISTING DRAINS
 - PV TABLE
 - EXISTING ACCESS ROAD TO BE UPGRADED
 - NEW ACCESS ROADS
 - BRIDGE OVER DRAIN WITH ACCESS ROAD
 - DEER FENCE (PROJECT BOUNDARIES)
 - BRIDGING STRUCTURE OVER DRAIN FOR THE DEER FENCE CROSSING ACCESS GATES
 - OH POWER LINES ROUTE & OH STRUCTURE LABEL
 - EXISTING OH POWER LINES ROUTE & OH STRUCTURE LABEL (SYMBOLS NOT TO SCALE)
 - SECTION OF THE EXISTING OH POWER LINE TO BE REMOVED (SYMBOLS NOT TO SCALE)
 - U-TURN AREAS (THREE TYPES)



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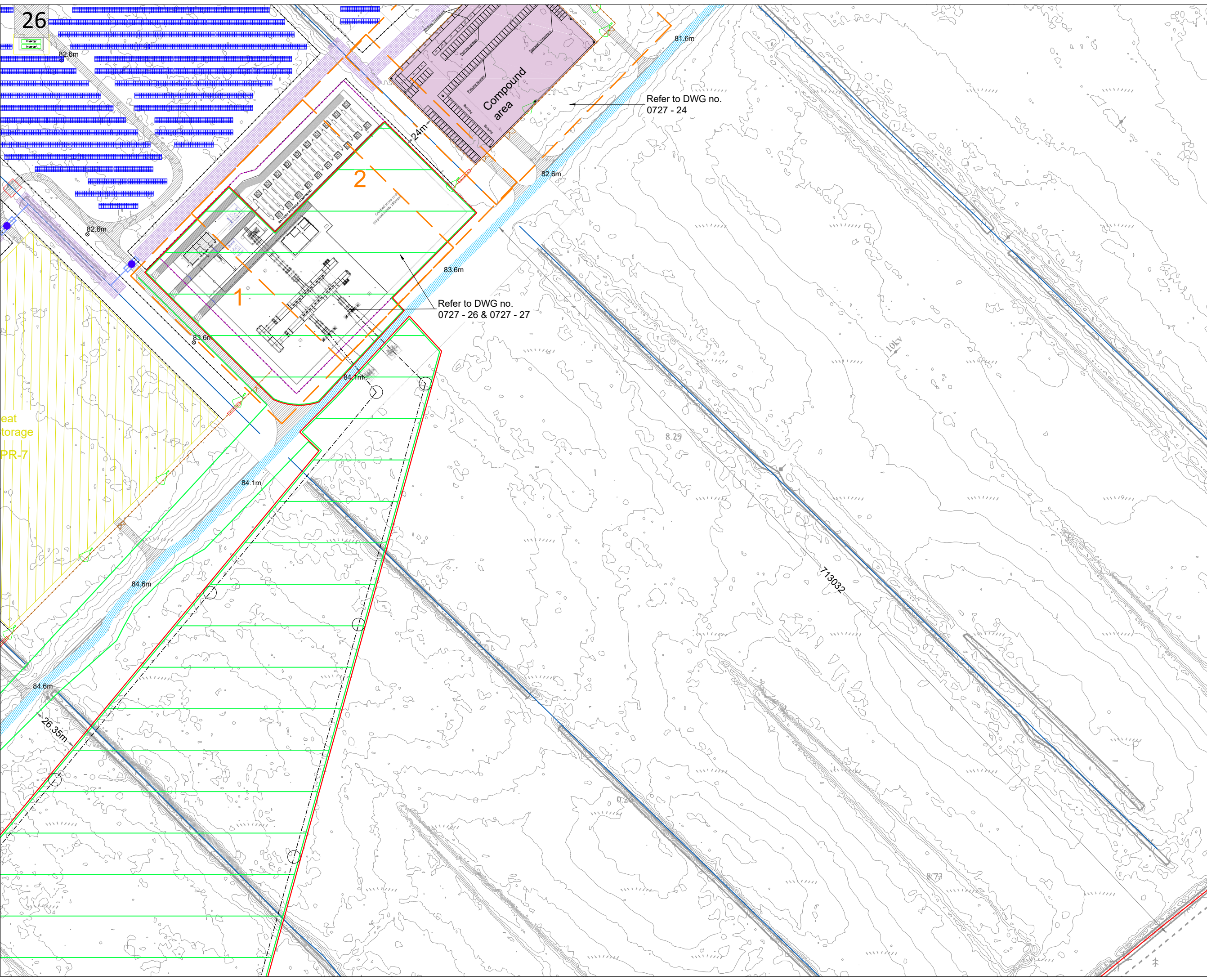
DRAWING TITLE:
Site Layout - Sheet 3 of 19

PROJECT TITLE:
Timahoe North Project, Co. Kildare

DRAWING BY: Joseph O'Brien	CHECKED BY: Jimmy Green
PROJECT No: 160727	DRAWING No.: 0727 - 07
SCALE: 1:2,500 @ A3	DATE: 13.12.2018

OS SHEET No.: **3187, 3188, 3253, 3254**

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26

peat storage
PR-7

Compound
area

Refer to DWG no.
0727 - 24

Refer to DWG no.
0727 - 26 & 0727 - 27

Drawing Notes

All dimensions are in meters, unless noted otherwise.
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 Final position of CCTV stands to be decided at construction stage.
 Drains which encroach on panel layout to be culverted.

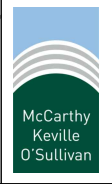
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- S182A Application Boundary
- EXISTING DRAINS
- PV TABLE
- EXISTING ACCESS ROAD TO BE UPGRADED
- NEW ACCESS ROADS
- BRIDGE OVER DRAIN WITH ACCESS ROAD
- INVERTER STATION WITH PAD AND LABELING (PAD SIZE: 25m x 25m)
- DEER FENCE (PROJECT BOUNDARIES)
- BRIDGING STRUCTURE OVER DRAIN FOR THE DEER FENCE CROSSING
- ACCESS GATES
- SHEEP FENCE (AROUND DRAINS)
- SUBSTATION FENCE
- PEAT STORAGE AREA
- SUBSTATION AREA
- MAIN COMPOUND AREA
- CCTV CAMERA
- 20R CONTAINER (WELFARE OR STORAGE)
- 40R CONTAINER (WELFARE OR STORAGE)
- NEW DRAIN
- CONCRETE DRAINAGE CULVERT
- OH POWER LINES ROUTE & OH STRUCTURE LABEL
- U-TURN AREAS (THREE TYPES)

DRAWING TITLE: **Site Layout - Sheet 4 of 19**

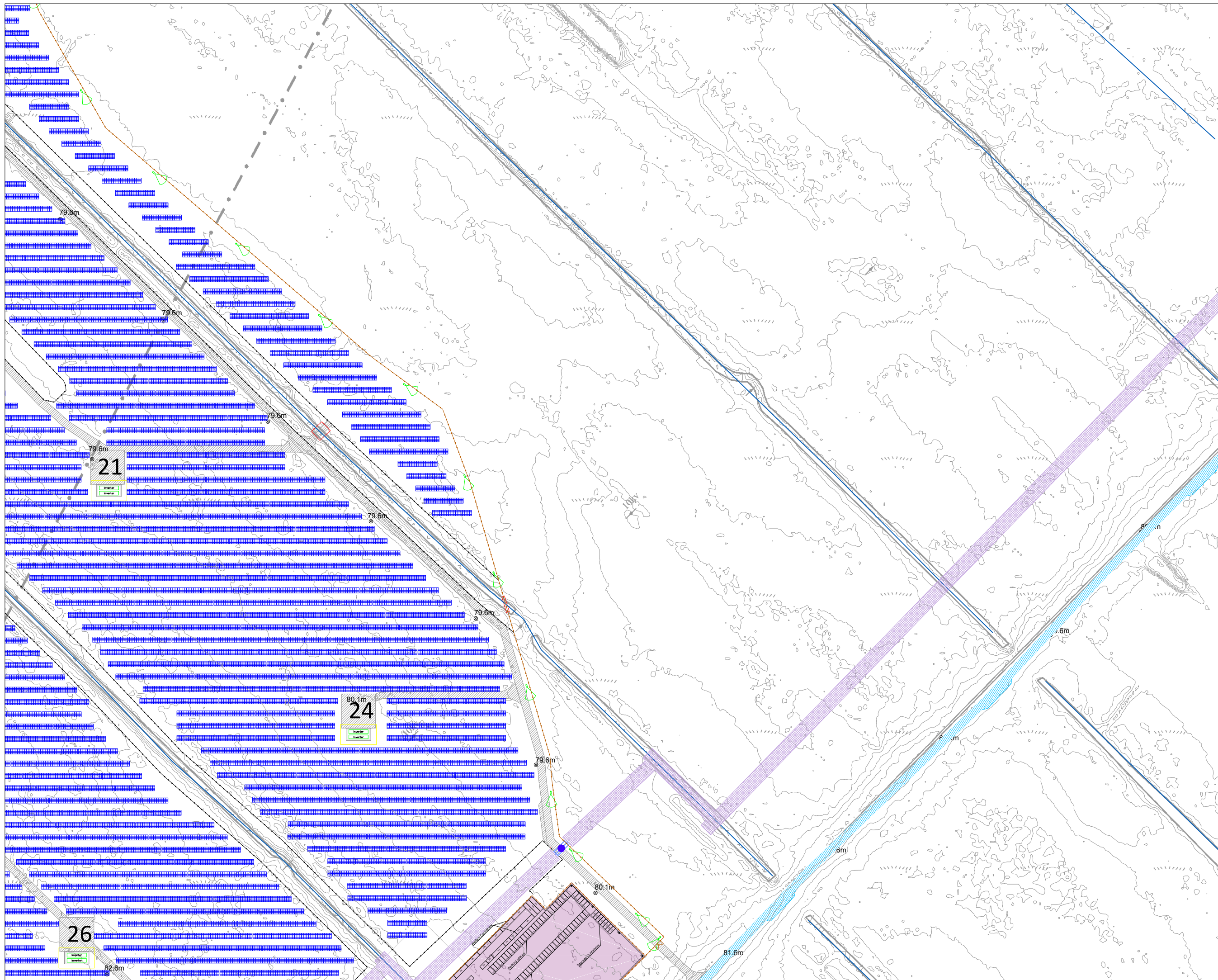
PROJECT TITLE: **Timahoe North Project, Co. Kildare**

DRAWING BY: Joseph O Brien	CHECKED BY: Jimmy Green
PROJECT No: 160727	DRAWING No: 0727 - 08
SCALE: 1:2,500 @ A3	DATE: 13.12.2018
OS SHEET No: 3187, 3188, 3253, 3254	



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Final position of CCTV stands to be decided at construction stage.

Drains which encroach on panel layout to be culverted.

- Drawing Legend**
- EXISTING DRAINS
 - PV TABLE
 - EXISTING ACCESS ROAD TO BE UPGRADED
 - NEW ACCESS ROADS
 - BRIDGE OVER DRAIN WITH ACCESS ROAD
 - INVERTER STATION WITH PAD AND LABELING (PAD SIZE: 25m x 25m)
 - DEER FENCE (PROJECT BOUNDARIES)
 - BRIDGING STRUCTURE OVER DRAIN FOR THE DEER FENCE CROSSING
 - ACCESS GATES
 - SHEEP FENCE (AROUND DRAINS)
 - MAIN COMPOUND AREA
 - CCTV CAMERA
 - 20R CONTAINER (WELFARE OR STORAGE)
 - 40R CONTAINER (WELFARE OR STORAGE)
 - NEW DRAIN
 - CONCRETE DRAINAGE CULVERT
 - U-TURN AREAS (THREE TYPES)

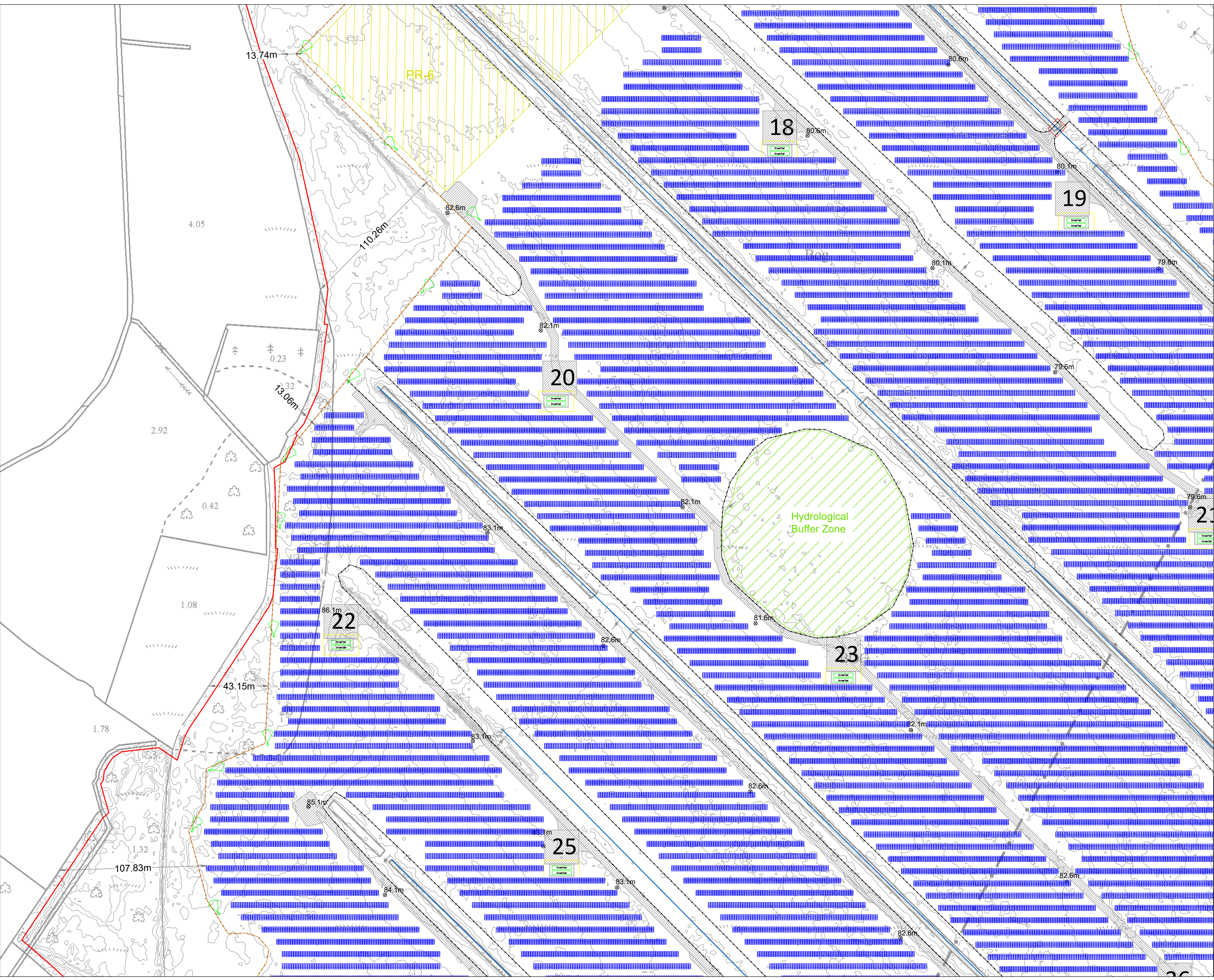
DRAWING TITLE: Site Layout - Sheet 5 of 19

PROJECT TITLE: Timahoe North Project, Co. Kildare

DRAWING BY: Joseph O'Brien	CHECKED BY: Jimmy Green
PROJECT No.: 160727	DRAWING No.: 0727 - 09
SCALE: 1:2,500 @ A3	DATE: 13.12.2018
OS SHEET No.: 3187, 3188, 3253, 3254	

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Final position of CCTV stands to be decided at construction stage.

Drains which encroach on panel layout to be culverted.

Drawing Legend

- KCC Application Boundary
- EXISTING DRAINS
- PV TABLE
- NEW ACCESS ROADS
- BRIDGE OVER DRAIN WITH ACCESS ROAD
- INVERTER STATION WITH PAD AND LABELING (PAD SIZE: 25m x 25m)
- DEER FENCE (PROJECT BOUNDARIES)
- BRIDGING STRUCTURE OVER DRAIN FOR THE DEER FENCE CROSSING
- ACCESS GATES
- SHEEP FENCE (AROUND DRAINS)
- CCTV CAMERA
- HYDROLOGICAL BUFFER ZONE
- U-TURN AREAS (THREE TYPES)

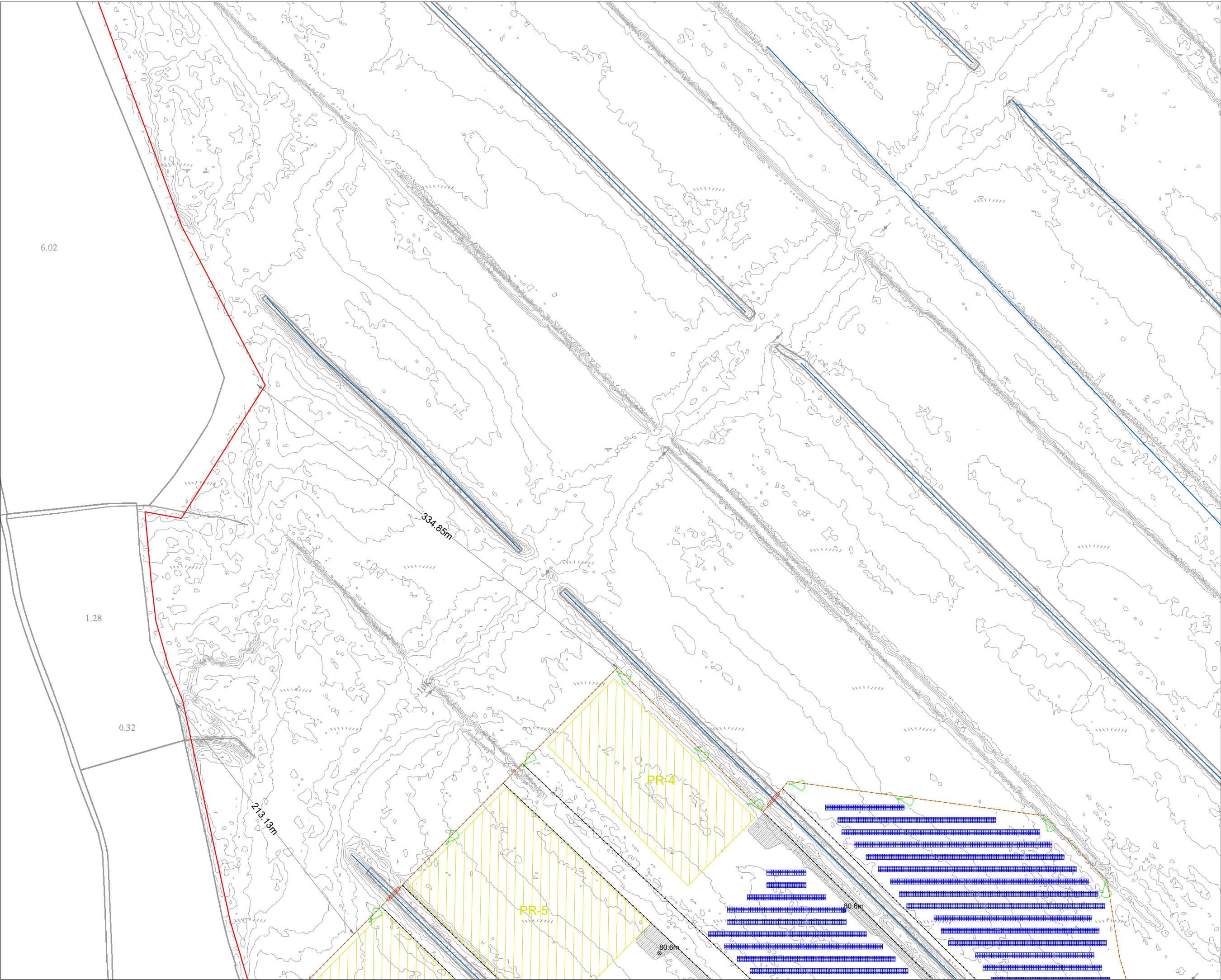
DRAWING TITLE: Site Layout - Sheet 6 of 19

PROJECT TITLE: Timahoe North Project, Co. Kildare

DRAWING BY:	Joseph O'Brien	CHECKED BY:	Jimmy Green
PROJECT NO.:	160727	DRAWING No.:	0727 - 10
SCALE:	1:2,500 @ A3	DATE:	13.12.2018
OS SHEET No.:	3187, 3188, 3253, 3254		

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Drawing Notes

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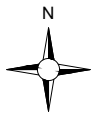
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Final position of CCTV stands to be decided at construction stage.

Drains which encroach on panel layout to be culverted.

- Drawing Legend**
- KCC Application Boundary
 - EXISTING DRAINS
 - PV TABLE
 - NEW ACCESS ROADS
 - BRIDGE OVER DRAIN WITH ACCESS ROAD
 - INVERTER STATION WITH PAD AND LABELING (PAD SIZE: 25m x 25m)
 - DEER FENCE (PROJECT BOUNDARIES)
 - BRIDGING STRUCTURE OVER DRAIN FOR THE DEER FENCE CROSSING
 - ACCESS GATES
 - SHEEP FENCE (AROUND DRAINS)
 - CCTV CAMERA
 - PEAT STORAGE AREA
 - U-TURN AREAS (THREE TYPES)



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DRAWING TITLE:
Site Layout - Sheet 7 of 19

PROJECT TITLE:
Timahoe North Project, Co. Kildare

DRAWING BY: Joseph O'Brien	CHECKED BY: Jimmy Green
PROJECT No.: 160727	DRAWING No.: 0727 - 11
SCALE: 1:2,500 @ A3	DATE: 13.12.2018
OS SHEET No.: 3187, 3188, 3253, 3254	

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6.02

1.28

0.32

213.13m

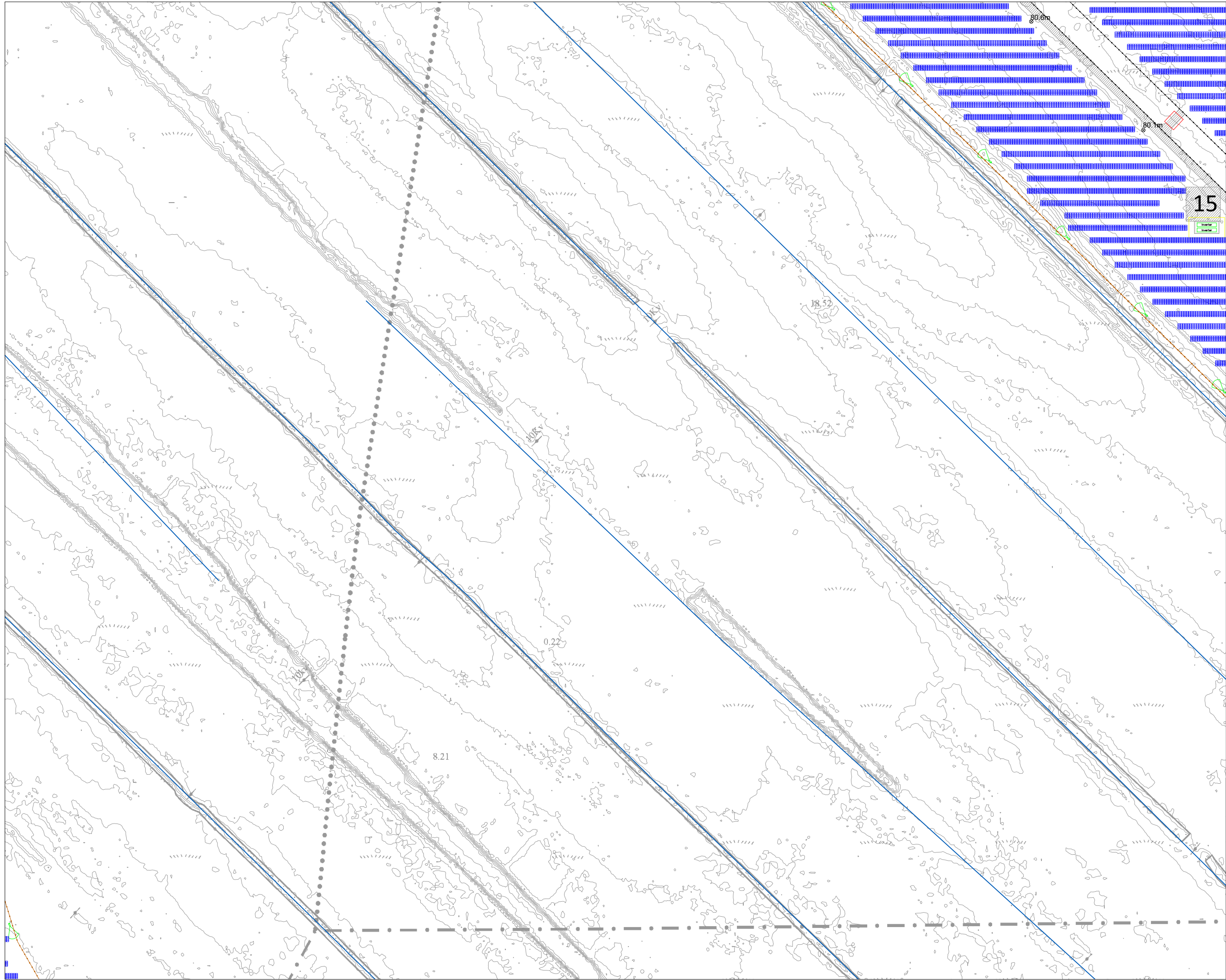
334.85m

PR-4

PR-5

80.6m

80.6m



Drawing Notes

All dimensions are in meters, unless noted otherwise.

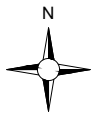
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Final position of CCTV stands to be decided at construction stage.

Drains which encroach on panel layout to be culverted.

- Drawing Legend**
- EXISTING DRAINS
 - PV TABLE
 - NEW ACCESS ROADS
 - BRIDGE OVER DRAIN WITH ACCESS ROAD
 - INVERTER STATION WITH PAD AND LABELING (PAD SIZE: 25m x 25m)
 - DEER FENCE (PROJECT BOUNDARIES)
 - BRIDGING STRUCTURE OVER DRAIN FOR THE DEER FENCE CROSSING
 - ACCESS GATES
 - SHEEP FENCE (AROUND DRAINS)
 - CCTV CAMERA
 - U-TURN AREAS (THREE TYPES)



DRAWING TITLE:
Site Layout - Sheet 8 of 19

PROJECT TITLE:
Timahoe North Project, Co. Kildare

DRAWING BY: Joseph O'Brien	CHECKED BY: Jimmy Green
PROJECT No.: 160727	DRAWING No.: 0727 - 12
SCALE: 1:2,500 @ A3	DATE: 13.12.2018
OS SHEET No.: 3187, 3188, 3253, 3254	

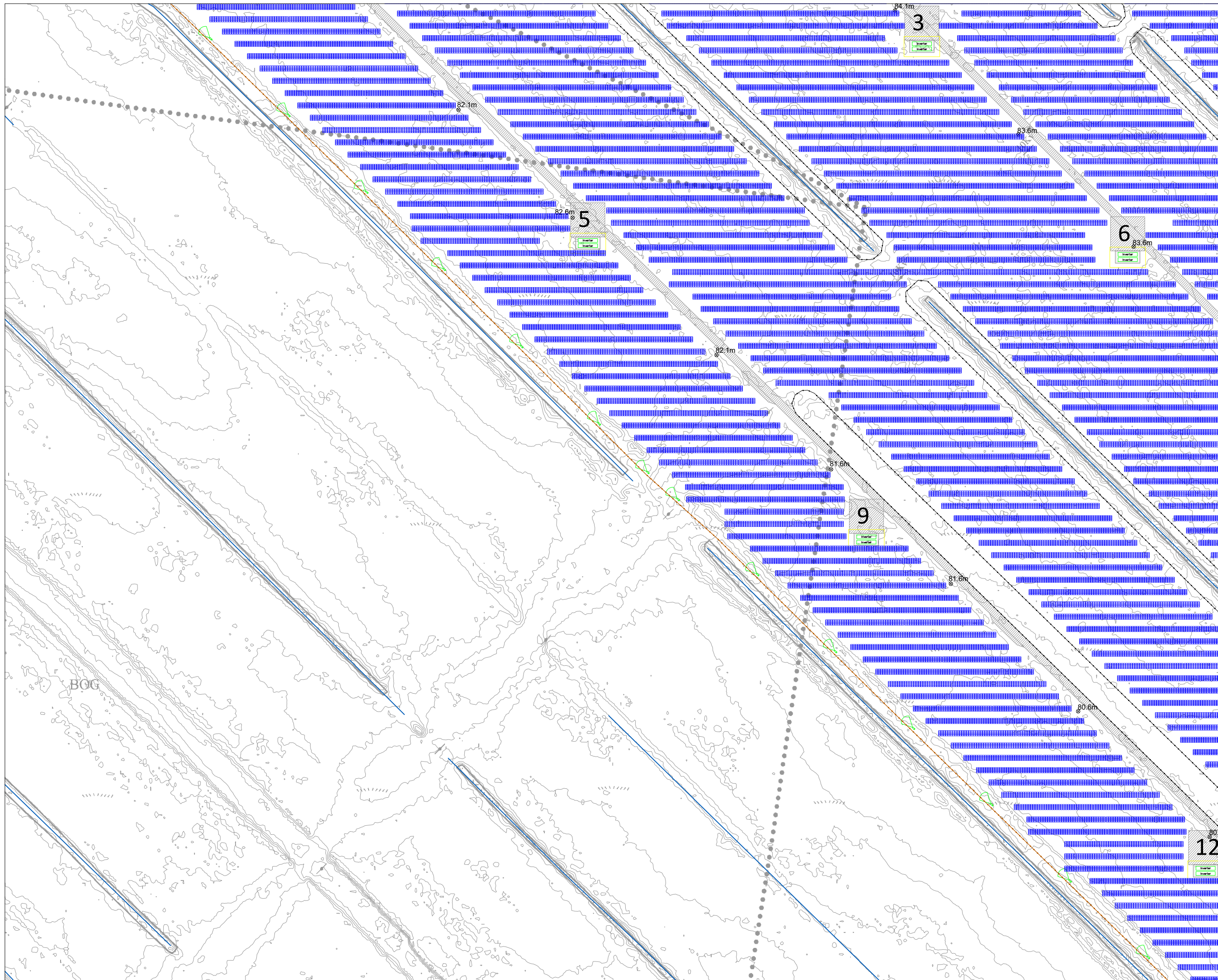


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Drawing Notes

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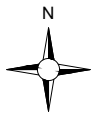
All dimensions to be checked on site and any discrepancy to be reported to the engineer.

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Final position of CCTV stands to be decided at construction stage.

Drains which encroach on panel layout to be culverted.

- Drawing Legend**
- EXISTING DRAINS
 - PV TABLE
 - NEW ACCESS ROADS
 - BRIDGE OVER DRAIN WITH ACCESS ROAD
 - INVERTER STATION WITH PAD AND LABELING (PAD SIZE: 25m x 25m)
 - DEER FENCE (PROJECT BOUNDARIES)
 - BRIDGING STRUCTURE OVER DRAIN FOR THE DEER FENCE CROSSING
 - ACCESS GATES
 - SHEEP FENCE (AROUND DRAINS)
 - CCTV CAMERA
 - U-TURN AREAS (THREE TYPES)



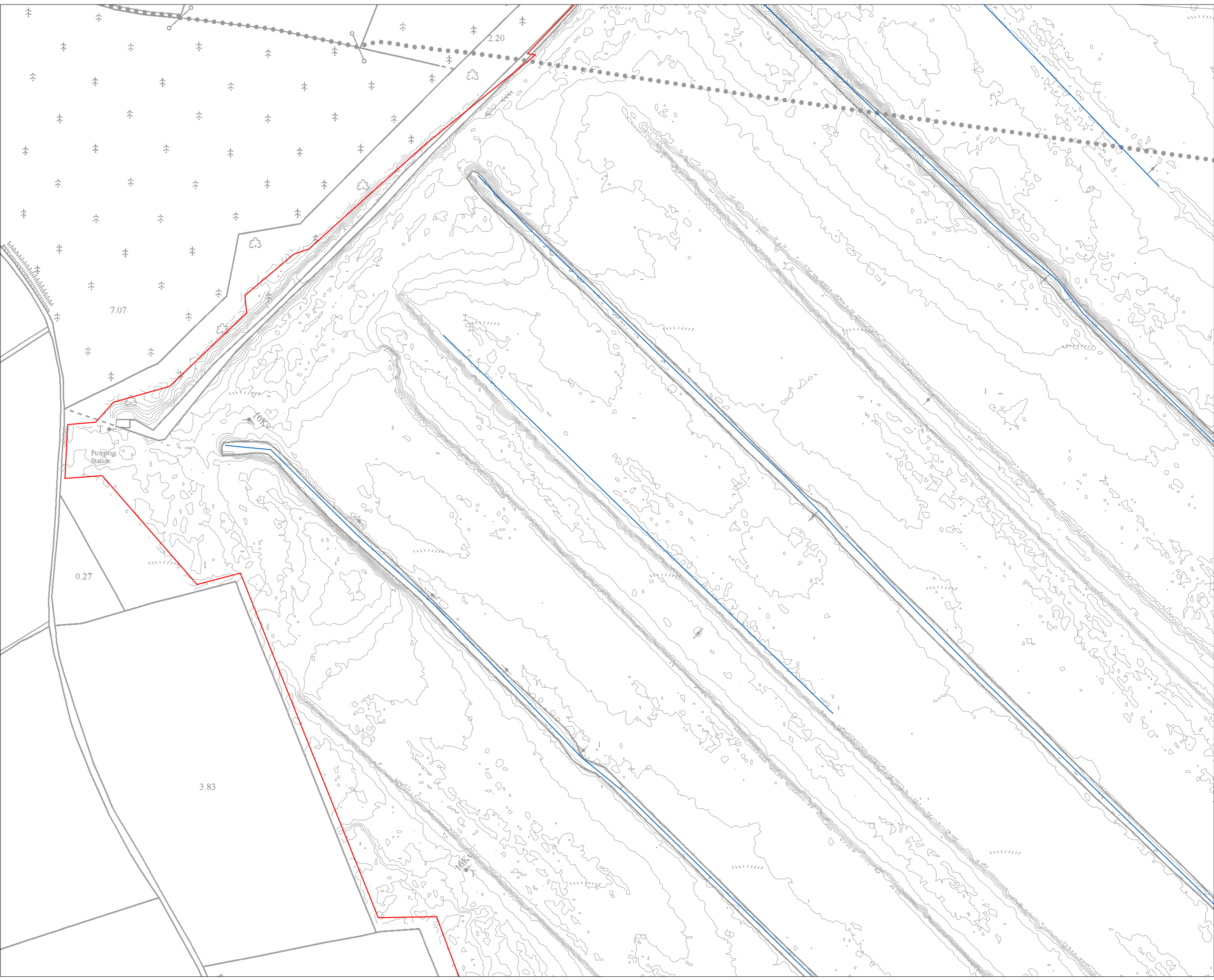
Drawing Title: Site Layout - Sheet 9 of 19

Project Title: Timahoe North Project, Co. Kildare

DRAWING BY: Joseph O'Brien	CHECKED BY: Jimmy Green
PROJECT No.: 160727	DRAWING No.: 0727 - 13
SCALE: 1:2,500 @ A3	DATE: 13.12.2018
OS SHEET No.: 3187, 3188, 3253, 3254	

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 Fax: +353 91 771279

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Drawing Notes

All dimensions are in meters, unless noted otherwise.
 All dimensions to be checked on site and any discrepancy to be reported to the engineer.
 Panel angle, orientation and location may be subject to change depending on the final design, PV panel & system manufacturer in order to maximize the efficiency of the installation. The number and location of invertors and other electrical equipment may also be subject to change.
 Final position of CCTV stands to be decided at construction stage.
 Drains which encroach on panel layout to be culverted.

Drawing Legend

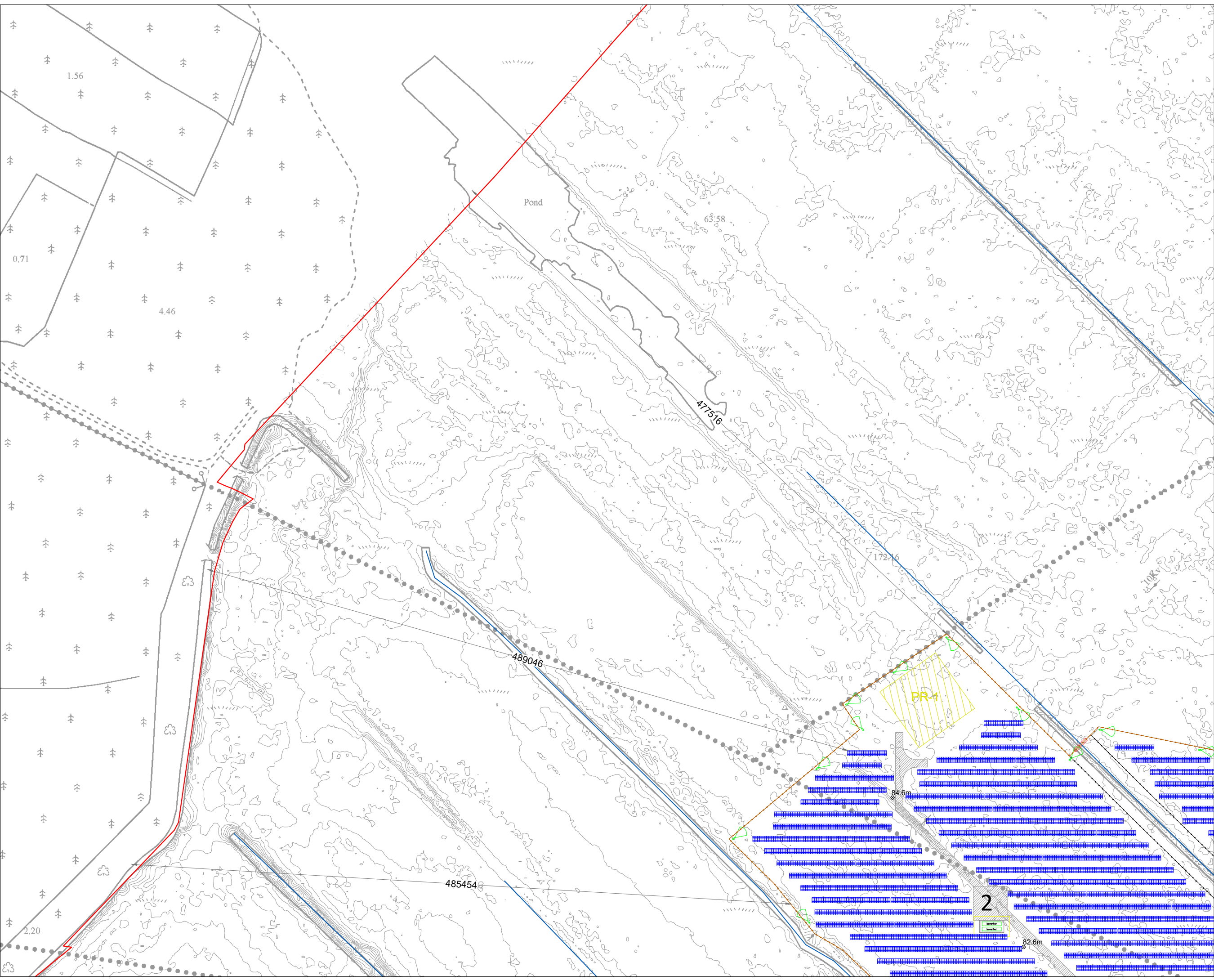
- KCC Application Boundary
- EXISTING DRAINS



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Site Layout - Sheet 10 of 19	
PROJECT TITLE: Timahoe North Project, Co. Kildare	
DRAWING BY: Joseph O'Brien	CHECKED BY: Jimmy Green
PROJECT No.: 160727	DRAWING No.: 0727 - 14
SCALE: 1:2,500 @ A3	DATE: 13.12.2018
OS SHEET No.: 3187, 3188, 3253, 3254	

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Drawing Notes

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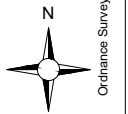
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Final position of CCTV stands to be decided at construction stage.

Drains which encroach on panel layout to be culverted.

- Drawing Legend**
- KCC Application Boundary
 - EXISTING DRAINS
 - PV TABLE
 - NEW ACCESS ROADS
 - BRIDGE OVER DRAIN WITH ACCESS ROAD
 - INVERTER STATION WITH PAD AND LABELING (PAD SIZE: 25m x 25m)
 - DEER FENCE (PROJECT BOUNDARIES)
 - BRIDGING STRUCTURE OVER DRAIN FOR THE DEER FENCE CROSSING
 - ACCESS GATES
 - SHEEP FENCE (AROUND DRAINS)
 - PEAT STORAGE AREA
 - CCTV CAMERA
 - U-TURN AREAS (THREE TYPES)



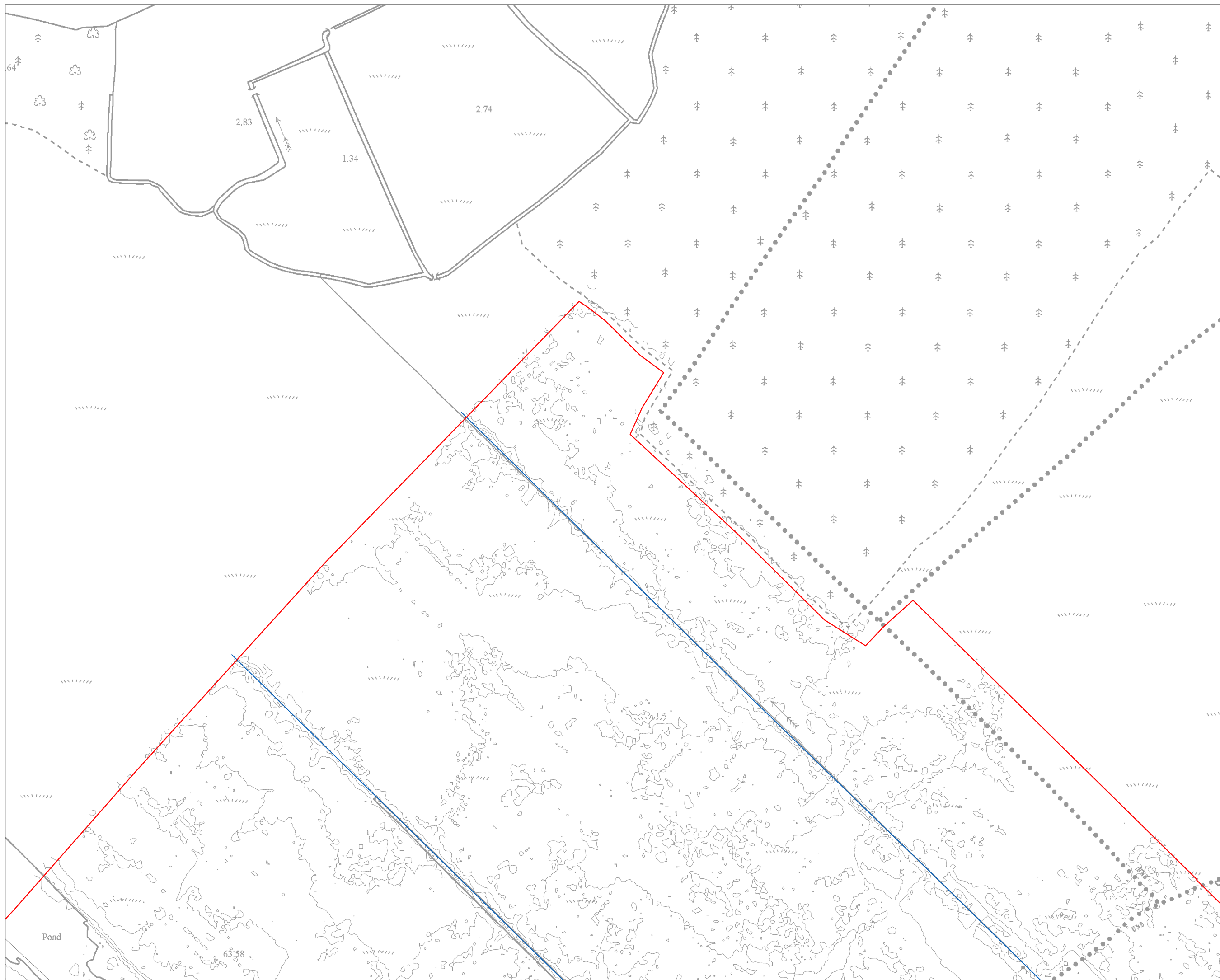
DRAWING TITLE
Site Layout - Sheet 11 of 19

PROJECT TITLE
Timahoe North Project, Co. Kildare

DRAWING BY Joseph O'Brien	CHECKED BY Jimmy Green
PROJECT No. 160727	DRAWING No. 0727 - 15
SCALE: 1:2,500 @ A3	DATE: 13.12.2018
OS SHEET No.: 3187, 3188, 3253, 3254	

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Drawing Notes

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All dimensions to be checked on site and any discrepancy to be reported to the engineer.

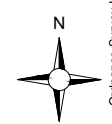
Panel angle, orientation and location may be subject to change depending on the final design, PV panel & system manufacturer in order to maximize the efficiency of the installation. The number and location of invertors and other electrical equipment may also be subject to change.

Final position of CCTV stands to be decided at construction stage.

Drains which encroach on panel layout to be culverted.

Drawing Legend

- KCC Application Boundary
- EXISTING DRAINS



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DRAWING TITLE:
Site Layout - Sheet 12 of 19

PROJECT TITLE:
Timahoe North Project, Co. Kildare

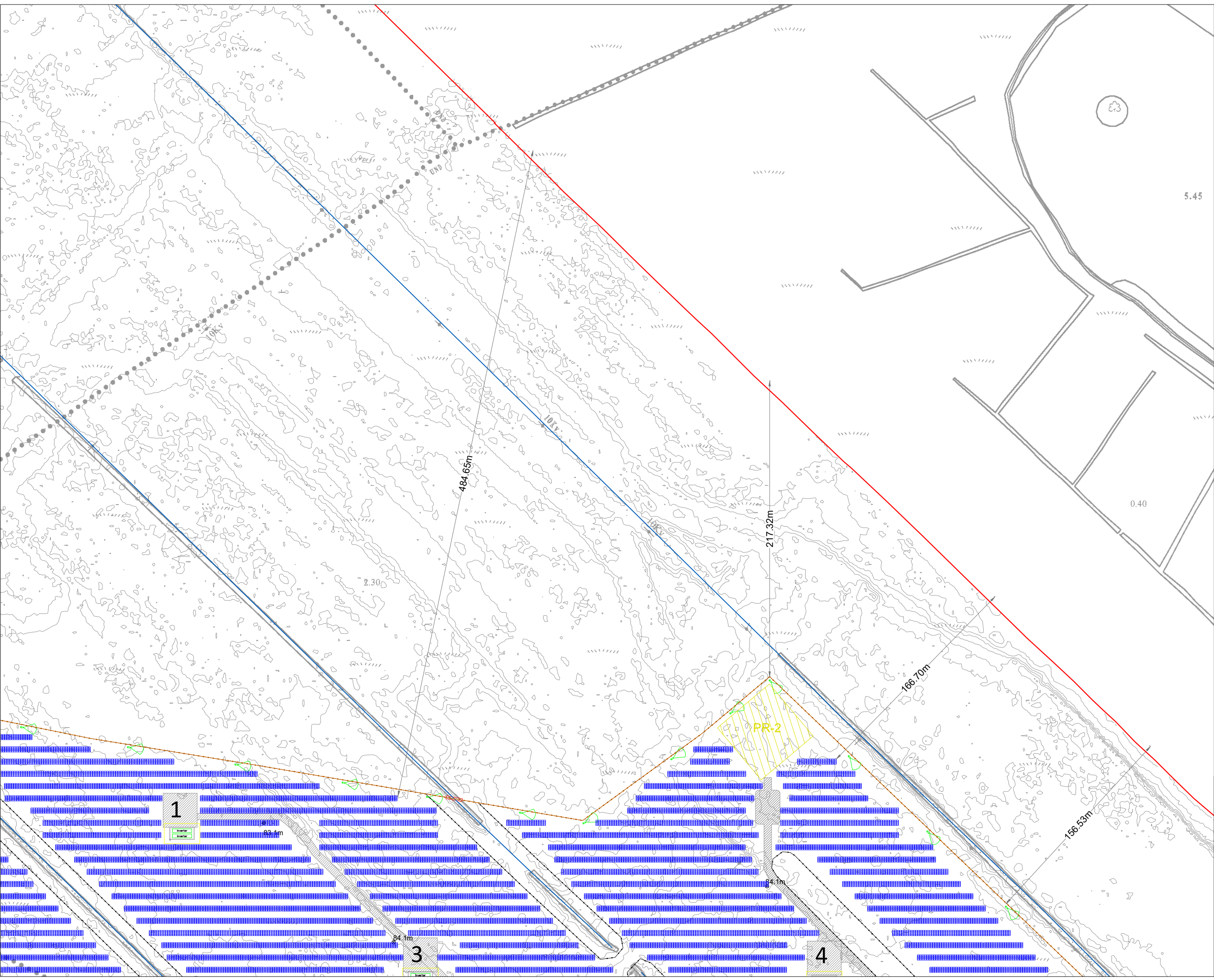
DRAWING BY: Joseph O'Brien	CHECKED BY: Jimmy Green
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PROJECT No: 160727	DRAWING No.: 0727 - 16
------------------------------	----------------------------------

SCALE: 1:2,500 @ A3	DATE: 13.12.2018
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OS SHEET No.: **3187, 3188, 3253, 3254**

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Drawing Notes

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Final position of CCTV stands to be decided at construction stage.

Drains which encroach on panel layout to be culverted.

- Drawing Legend**
- KCC Application Boundary
 - EXISTING DRAINS
 - PV TABLE
 - NEW ACCESS ROADS
 - BRIDGE OVER DRAIN WITH ACCESS ROAD
 - INVERTER STATION WITH PAD AND LABELING (PAD SIZE: 25m x 25m)
 - DEER FENCE (PROJECT BOUNDARIES)
 - BRIDGING STRUCTURE OVER DRAIN FOR THE DEER FENCE CROSSING
 - ACCESS GATES
 - SHEEP FENCE (AROUND DRAINS)
 - PEAT STORAGE AREA
 - CCTV CAMERA
 - U-TURN AREAS (THREE TYPES)

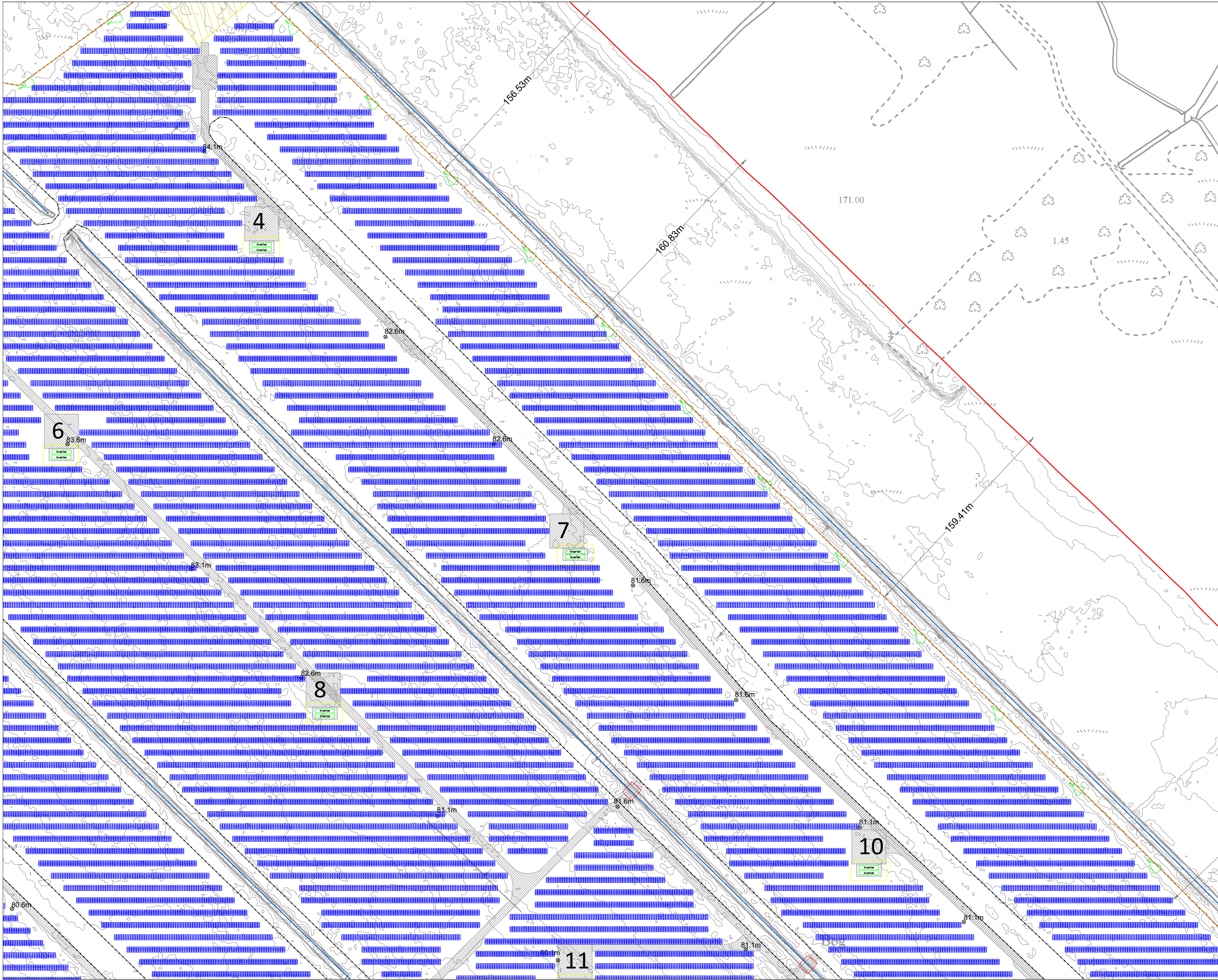
DRAWING TITLE: **Site Layout - Sheet 13 of 19**

PROJECT TITLE: **Timahoe North Project, Co. Kildare**

DRAWING BY: Joseph O'Brien	CHECKED BY: Jimmy Green
PROJECT No: 160727	DRAWING No: 0727 - 17
SCALE: 1:2,500 @ A3	DATE: 13.12.2018
OS SHEET No.: 3187, 3188, 3253, 3254	

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Final position of CCTV stands to be decided at construction stage.

Drains which encroach on panel layout to be culverted.

- Drawing Legend**
- KCC Application Boundary
 - EXISTING DRAINS
 - PV TABLE
 - NEW ACCESS ROADS
 - BRIDGE OVER DRAIN WITH ACCESS ROAD
 - INVERTER STATION WITH PAD AND LABELING (PAD SIZE: 25m x 25m)
 - DEER FENCE (PROJECT BOUNDARIES)
 - BRIDGING STRUCTURE OVER DRAIN FOR THE DEER FENCE CROSSING
 - ACCESS GATES
 - SHEEP FENCE (AROUND DRAINS)
 - PEAT STORAGE AREA
 - CCTV CAMERA
 - U-TURN AREAS (THREE TYPES)



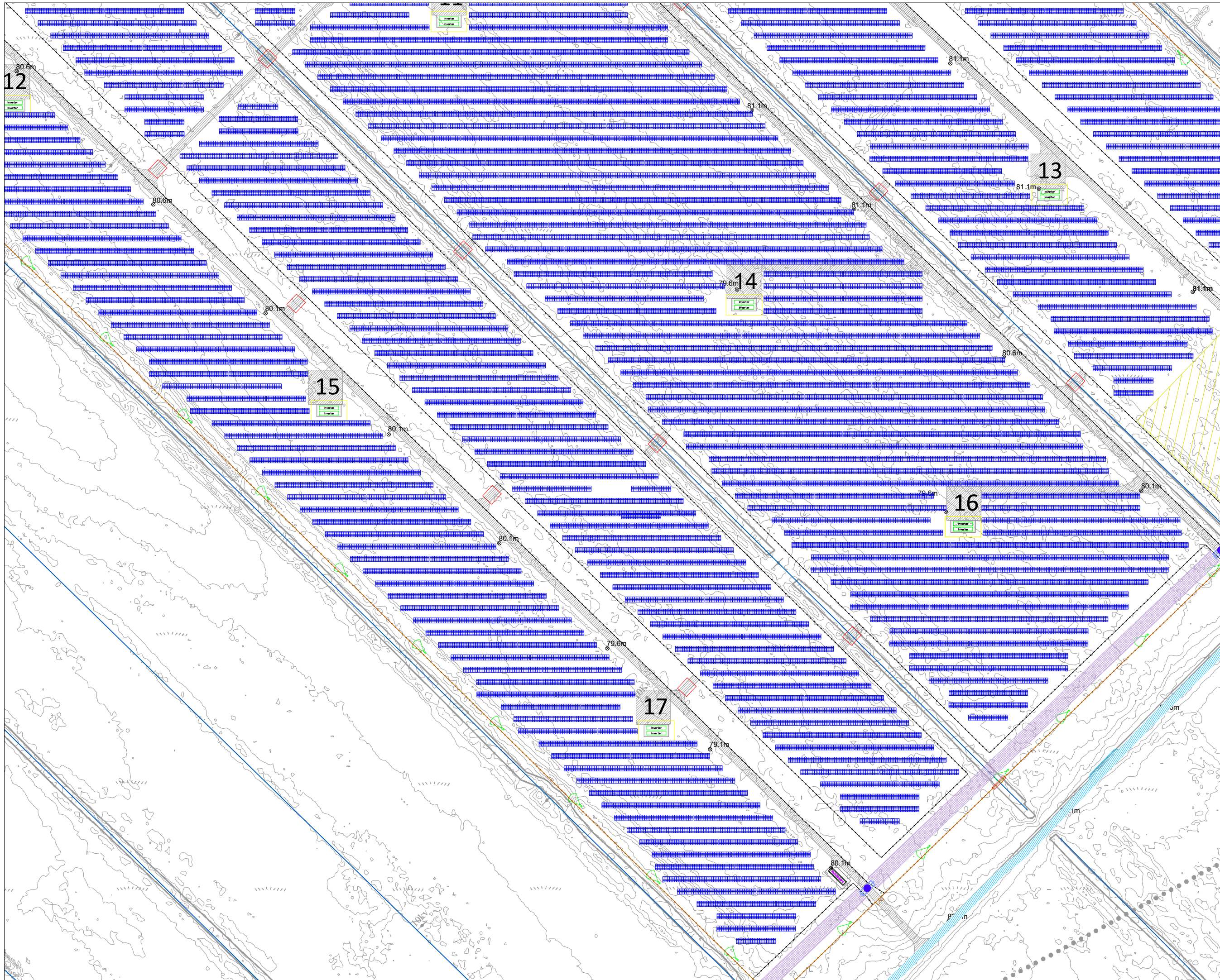
DRAWING TITLE: Site Layout - Sheet 14 of 19

PROJECT TITLE: Timahoe North Project, Co. Kildare

DRAWING BY: Joseph O'Brien	CHECKED BY: Jimmy Green
PROJECT No.: 160727	DRAWING No.: 0727 - 18
SCALE: 1:2,500 @ A3	DATE: 13.12.2018
OS SHEET No.: 3187, 3188, 3253, 3254	

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Final position of CCTV stands to be decided at construction stage.

Drains which encroach on panel layout to be culverted.

- Drawing Legend**
- EXISTING DRAINS
 - PV TABLE
 - EXISTING ACCESS ROAD TO BE UPGRADED
 - NEW ACCESS ROADS
 - BRIDGE OVER DRAIN WITH ACCESS ROAD
 - INVERTER STATION WITH PAD AND LABELING (PAD SIZE: 25m x 25m)
 - DEER FENCE (PROJECT BOUNDARIES)
 - BRIDGING STRUCTURE OVER DRAIN FOR THE DEER FENCE CROSSING
 - ACCESS GATES
 - SHEEP FENCE (AROUND DRAINS)
 - PEAT STORAGE AREA
 - CCTV CAMERA
 - SWITCHBOARD (NORTH SIDE)
 - NEW DRAIN
 - CONCRETE DRAINAGE CULVERT
 - U-TURN AREAS (THREE TYPES)

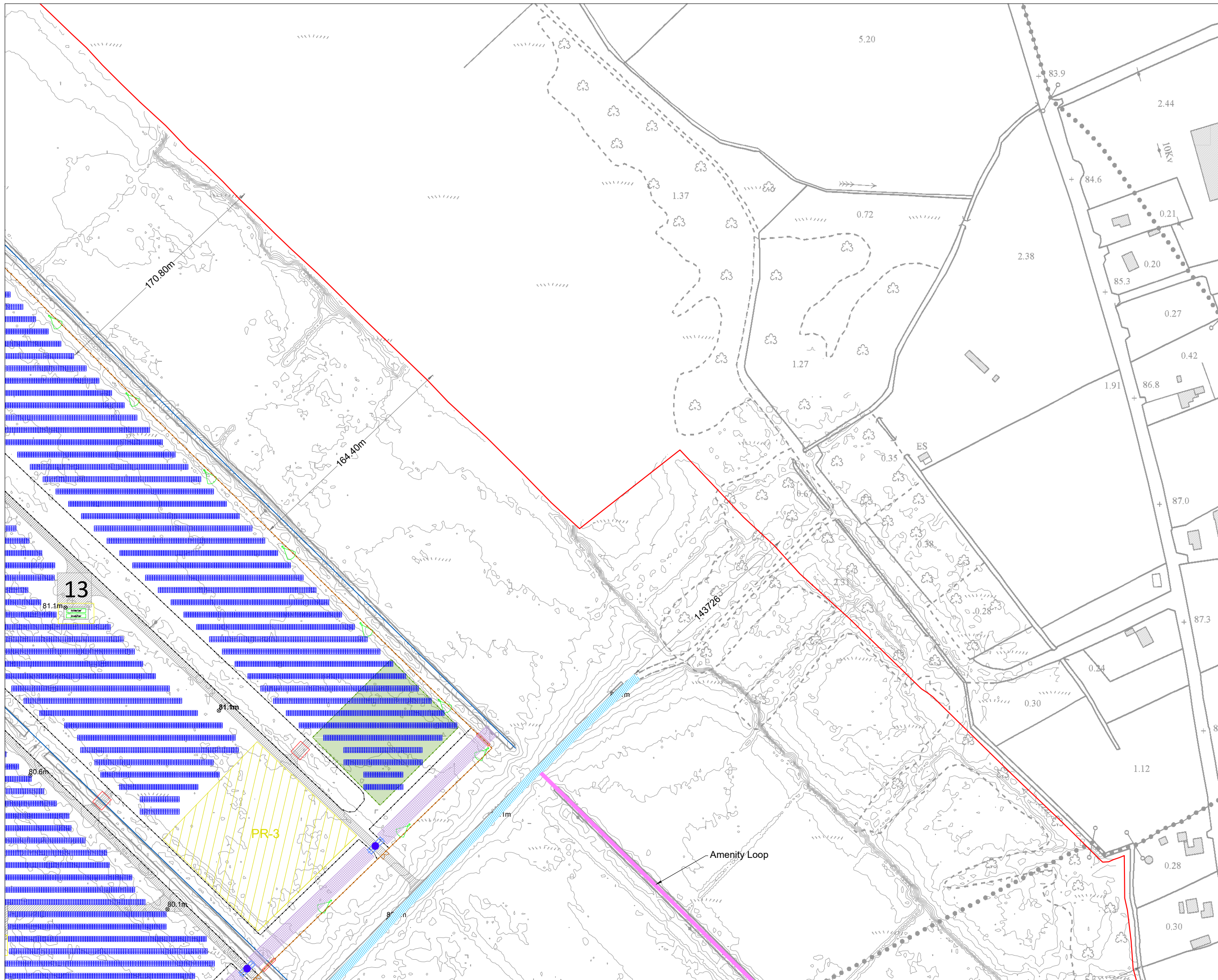
Site Layout - Sheet 15 of 19

PROJECT TITLE: **Timahoe North Project, Co. Kildare**

DRAWING BY: Joseph O'Brien	CHECKED BY: Jimmy Green
PROJECT NO: 160727	DRAWING NO: 0727 - 19
SCALE: 1:2,500 @ A3	DATE: 13.12.2018
OS SHEET NO.: 3187, 3188, 3253, 3254	

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Final position of CCTV stands to be decided at construction stage.

Drains which encroach on panel layout to be culverted.

- Drawing Legend**
- KCC Application Boundary
 - EXISTING DRAINS
 - PV TABLE
 - EXISTING ACCESS ROAD TO BE UPGRADED
 - NEW ACCESS ROADS
 - BRIDGE OVER DRAIN WITH ACCESS ROAD
 - INVERTER STATION WITH PAD AND LABELING (PAD SIZE: 25m x 25m)
 - DEER FENCE (PROJECT BOUNDARIES)
 - BRIDGING STRUCTURE OVER DRAIN FOR THE DEER FENCE CROSSING
 - ACCESS GATES
 - SHEEP FENCE (AROUND DRAINS)
 - TEMPORARY COMPOUND FENCE
 - PEAT STORAGE AREA
 - TEMPORARY COMPOUND AREA
 - CCTV CAMERA
 - NEW DRAIN
 - CONCRETE DRAINAGE CULVERT
 - U-TURN AREAS (THREE TYPES)

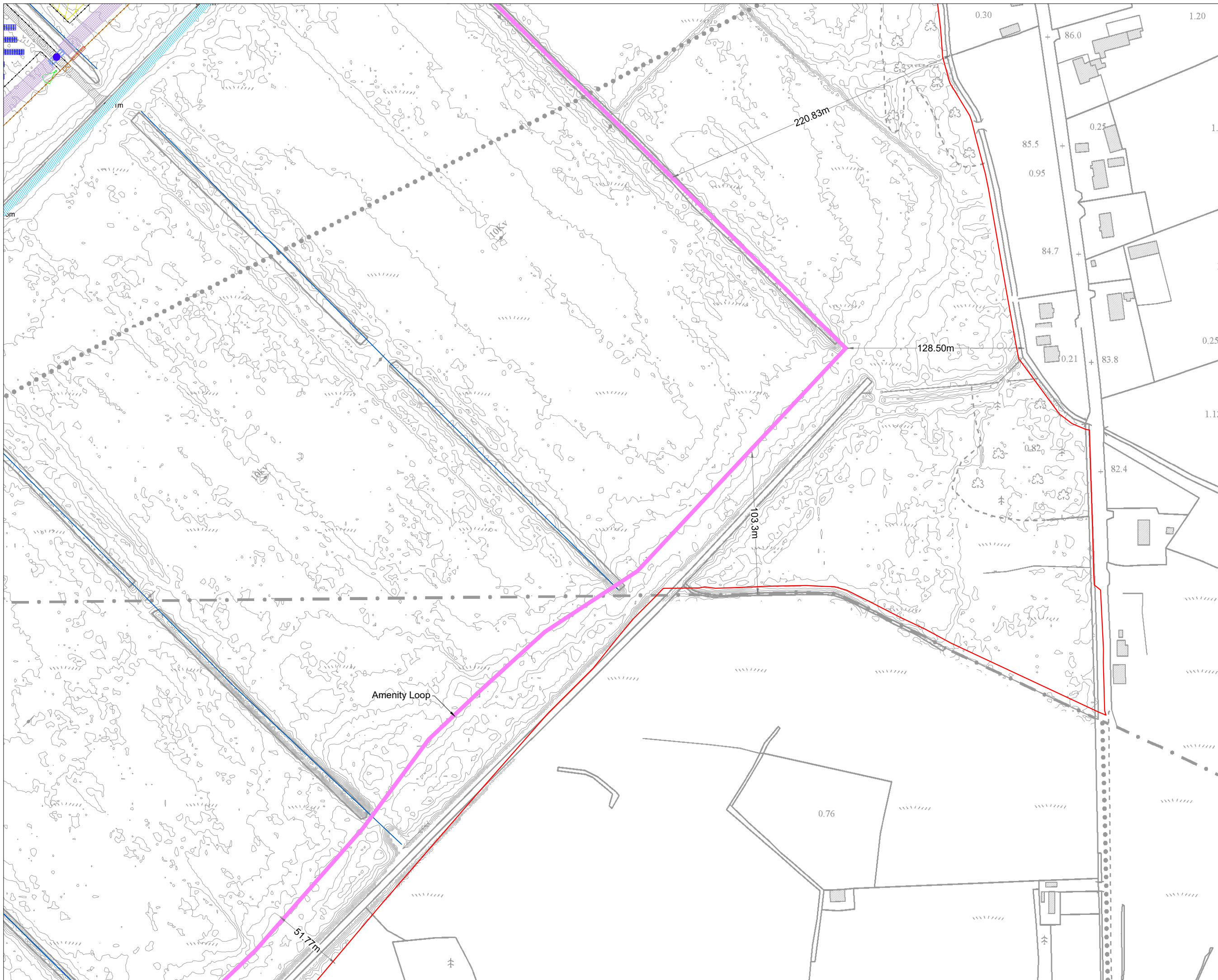
DRAWING TITLE
Site Layout - Sheet 16 of 19

PROJECT TITLE
Timahoe North Project, Co. Kildare

DRAWING BY Joseph O'Brien	CHECKED BY Jimmy Green
PROJECT NO. 160727	DRAWING NO. 0727 - 20
SCALE: 1:2,500 @ A3	DATE: 13.12.2018
OS SHEET No.: 3187, 3188, 3253, 3254	

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1.3 Final position of CCTV stands to be decided at construction stage.

Drains which encroach on panel layout to be culverted.

- Drawing Legend**
- KCC Application Boundary
 - EXISTING DRAINS
 - PV TABLE
 - EXISTING ACCESS ROAD TO BE UPGRADED
 - NEW ACCESS ROADS
 - BRIDGE OVER DRAIN WITH ACCESS ROAD
 - Amenity Walk Loop
 - DEER FENCE (PROJECT BOUNDARIES)
 - BRIDGING STRUCTURE OVER DRAIN FOR THE DEER FENCE CROSSING
 - ACCESS GATES
 - SHEEP FENCE (AROUND DRAINS)
 - PEAT STORAGE AREA
 - CCTV CAMERA
 - NEW DRAIN
 - CONCRETE DRAINAGE CULVERT
 - U-TURN AREAS (THREE TYPES)

DRAWING TITLE:
Site Layout - Sheet 17 of 19

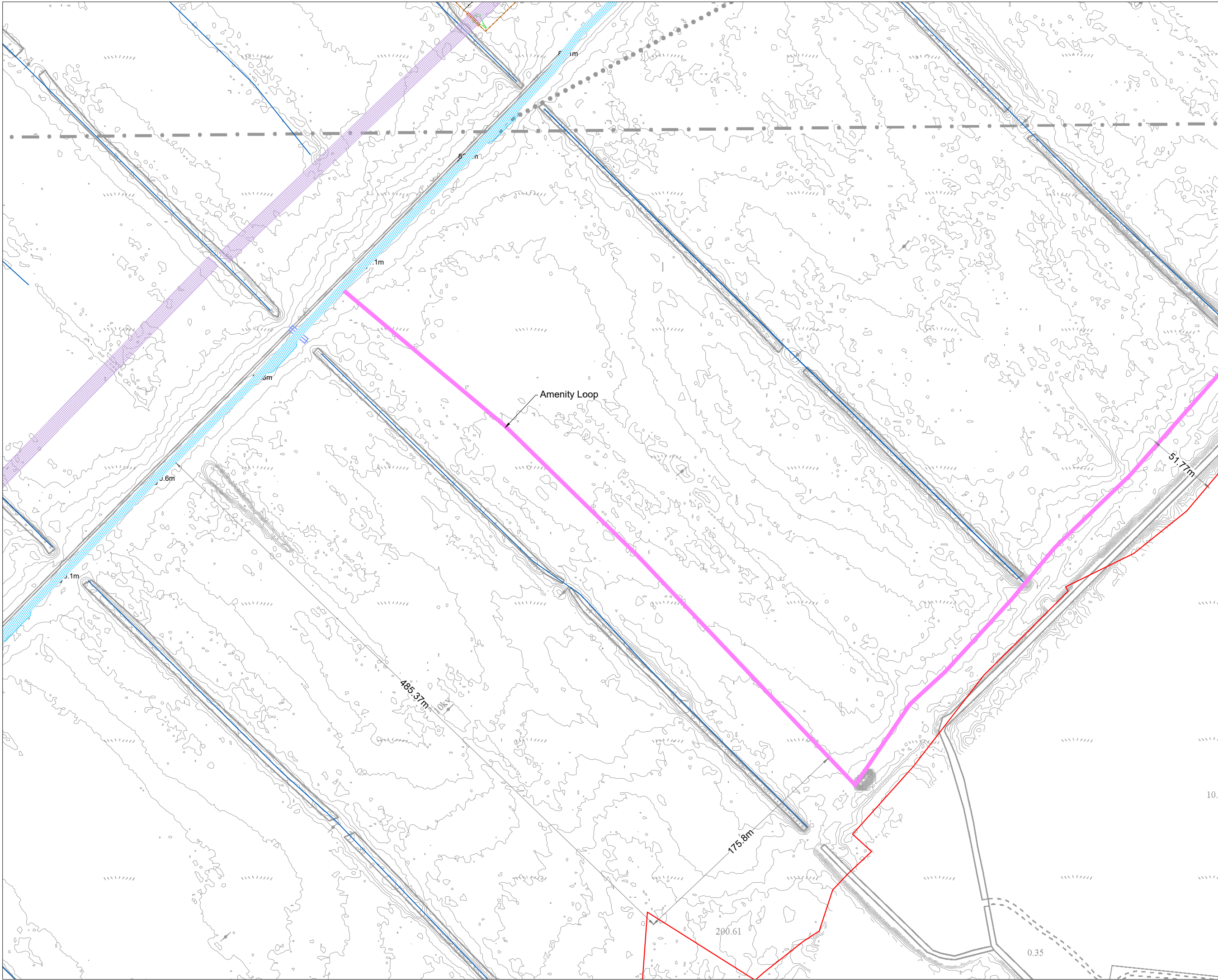
PROJECT TITLE:
Timahoe North Project, Co. Kildare

DRAWING BY: Joseph O'Brien	CHECKED BY: Jimmy Green
PROJECT No.: 160727	DRAWING No.: 0727 - 21
SCALE: 1:2,500 @ A3	DATE: 13.12.2018

OS SHEET No.: 3187, 3188, 3253, 3254

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Drawing Notes

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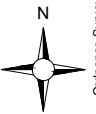
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Final position of CCTV stands to be decided at construction stage.

Drains which encroach on panel layout to be culverted.

- Drawing Legend**
- KCC Application Boundary
 - EXISTING DRAINS
 - EXISTING ACCESS ROAD TO BE UPGRADED
 - DEER FENCE (PROJECT BOUNDARIES)
 - BRIDGING STRUCTURE OVER DRAIN FOR THE DEER FENCE CROSSING
 - ACCESS GATES
 - SHEEP FENCE (AROUND DRAINS)
 - CCTV CAMERA
 - NEW DRAIN
 - CONCRETE DRAINAGE CULVERT
 - Amenity Walk Loop



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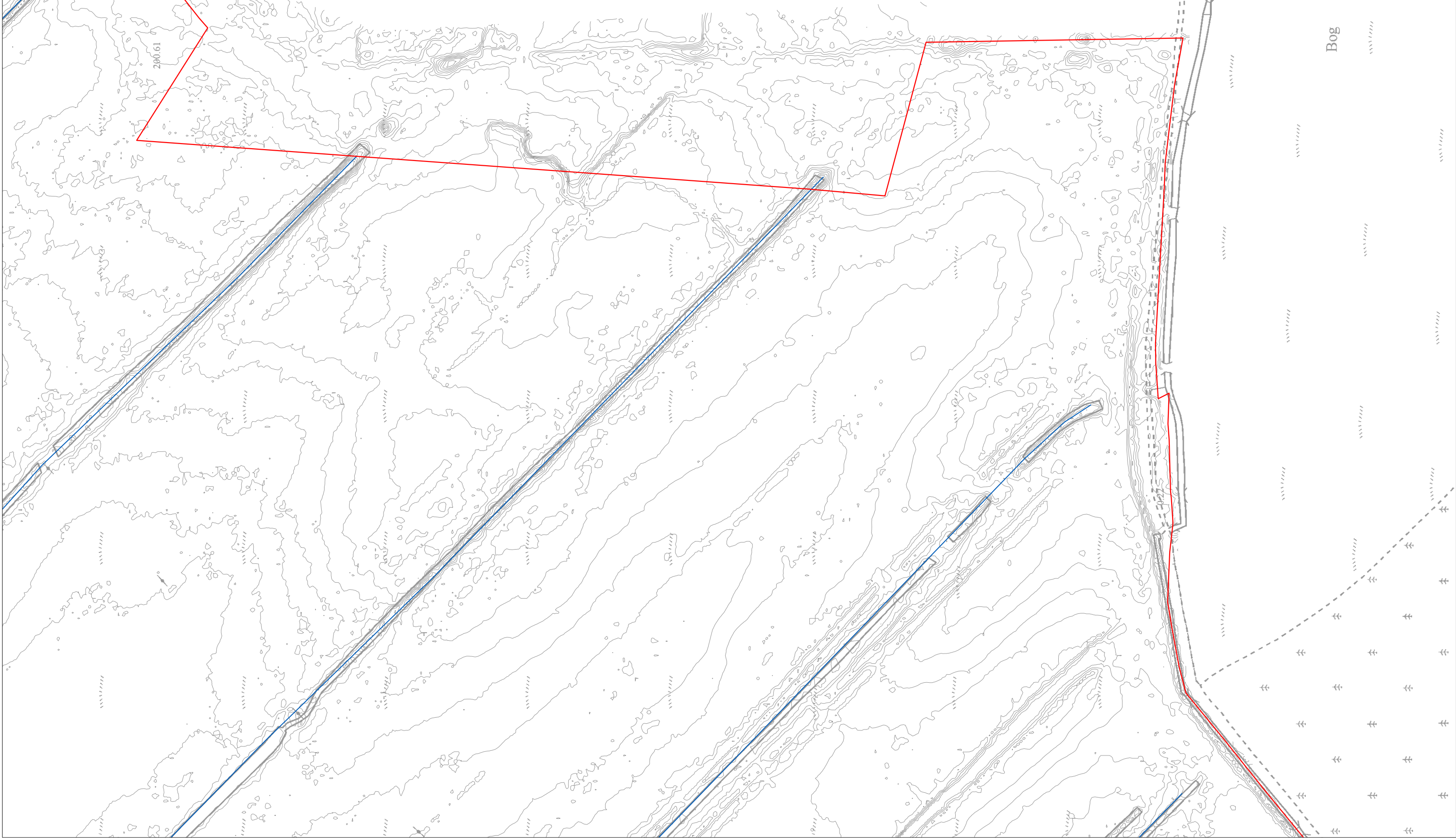
DRAWING TITLE: Site Layout - Sheet 18 of 19	
PROJECT TITLE: Timahoe North Project, Co. Kildare	
DRAWING BY: Joseph O'Brien	CHECKED BY: Jimmy Green
PROJECT No: 160727	DRAWING No.: 0727 - 22
SCALE: 1:2,500 @ A3	DATE: 13.12.2018
OS SHEET No.: 3187, 3188, 3253, 3254	



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Final position of CCTV stands to be decided at construction stage.
Drains which encroach on panel layout to be culverted.



Drawing Legend

- KCC Application Boundary
- EXISTING DRAINS

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**Site Layout -
Sheet 19 of 19**

DRAWING TITLE

PROJECT TITLE

Timahoe North Project, Co. Kildare

DRAWING BY

Joseph O'Brien

CHECKED BY

Jimmy Green

PROJECT NO.

160727

DRAWING NO.

0727 - 23

SCALE

1:2,500 @ A3

DATE

13.12.2018

OS SHEET NO.

3187, 3188, 3253, 3254

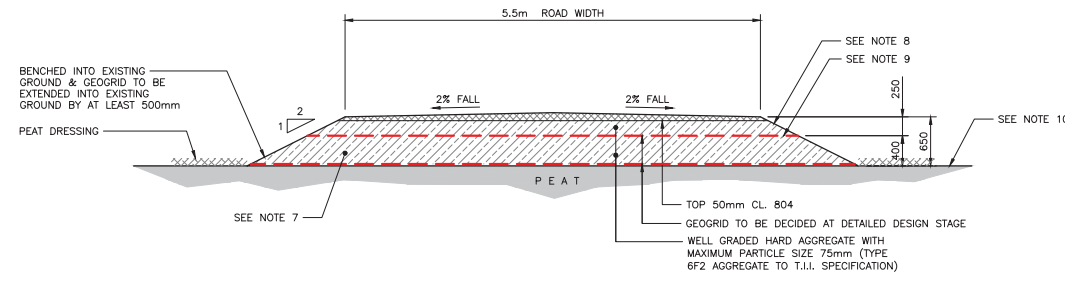


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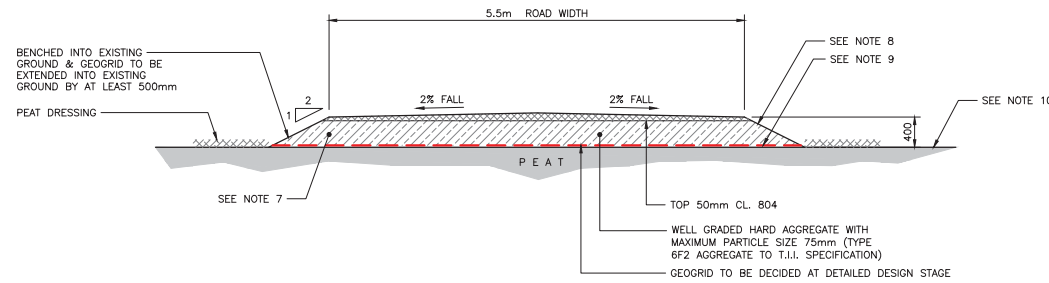
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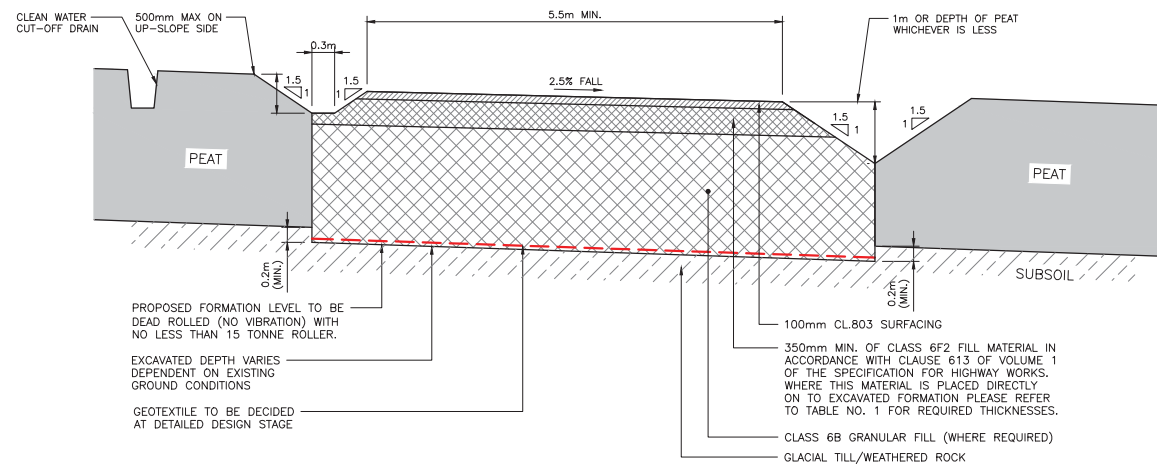
1. ALL DRAWINGS TO BE READ IN CONJUNCTION WITH THE SPECIFICATION AND ALL ENGINEER'S DRAWINGS. ANY DISCREPANCIES ARE TO BE NOTED IN WRITING TO THIS OFFICE IMMEDIATELY PRIOR TO COMMENCING THE WORK.
2. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES BETWEEN THE PLANS AND DETAILS PRIOR TO COMMENCING THE WORK.
3. ALL DIMENSIONS ARE IN m U.N.O. NO DIMENSIONS SHALL BE SCALED FROM THE STRUCTURAL DRAWINGS. ALL DIMENSIONS SHALL BE CHECKED ON SITE.
4. CONSTRUCTION & COMPACTION IN ACCORDANCE WITH THE T.I.I. SPECIFICATION FOR ROAD WORKS.
5. CLIENT TO ASSESS THE MAINTENANCE REQUIREMENTS.
6. CONSOLIDATION OF THE SUBGRADE/FOUNDATION SOIL AND ITS EFFECT ON THE LONG TERM SERVICABILITY OF THE PAVEMENT MUST BE ASSESSED BY SITE ENGINEER.
7. APPROPRIATE COMPACTION METHOD TO SUIT SITE CONDITIONS TO BE ADOPTED BY THE CONTRACTOR.
8. THE ACCESS ROAD EDGE SLOPE IS SHOWN INDICATIVE. THE GEOTECHNICAL ENGINEER TO ASSESS EDGE STABILITY & FINALISE THE MINIMAL SLOPE ANGLE.
9. MINIMUM GEOGRID OVERLAP IS 500mm AT THE FORMATION LEVEL & 300mm FOR THE SECOND LAYER.
10. APPROPRIATE DRAINAGE NEEDS TO BE PROVIDED ON SITE TO ENSURE THAT THE ACCESS ROAD REMAINS ADEQUATELY DRAINED TO AVOID WATER PONDING. THE PROPOSED DRAINAGE DITCH SHOULD NOT CAUSE ANY GLOBAL STABILITY ISSUES FOR THE PROPOSED ACCESS ROAD & SHOULD BE POSITIONED AT A SUITABLE DISTANCE FROM THE ACCESS ROAD TO AVOID ANY GLOBAL STABILITY ISSUES.



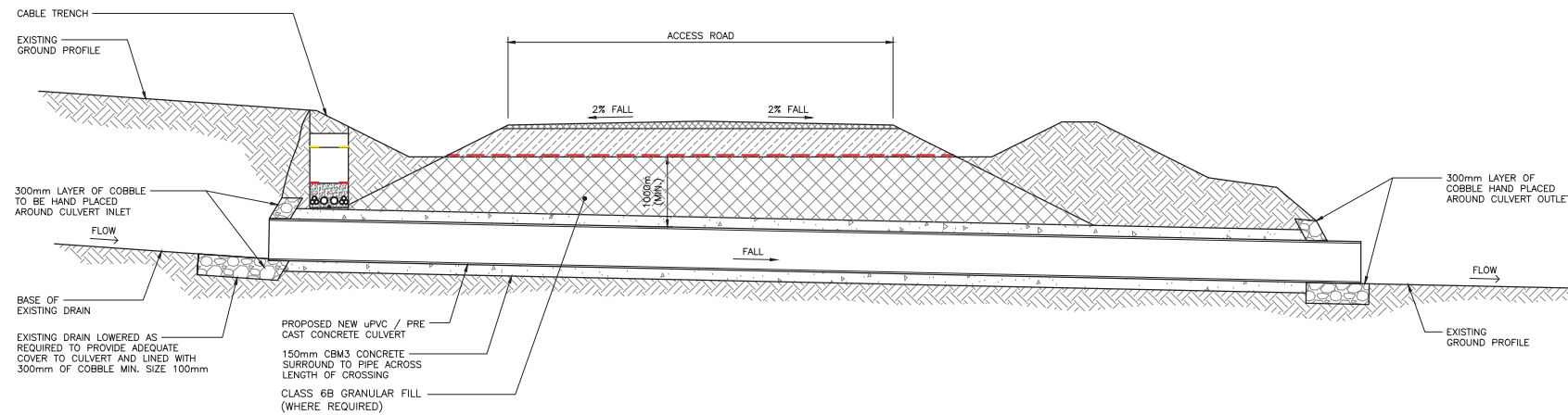
ROAD TYPE A : TYPICAL SECTION OF FLOATED ACCESS TRACK (650mm DEEP)
SCALE 1:50



ROAD TYPE B : TYPICAL SECTION OF FLOATED ACCESS TRACK (400mm DEEP)
SCALE 1:50



ROAD TYPE C: TYPICAL SECTION OF EXCAVATE & REPLACE TRACK (DEPTH VARIES)
SCALE 1:50



TYPICAL CULVERT CROSSING BENEATH ACCESS ROAD
SCALE 1:50

REV	DATE	REVISION DESCRIPTION	DRN	PROJ	VER	APP
1	07/08/18	CLIENT NAME REVISED	SB	KMcC	BM	FQ
0	31/07/18	ISSUED FOR PLANNING	SB	KMcC	BM	FQ

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PURPOSE OF ISSUE - PRELIMINARY UNLESS INDICATED
CLIENT APPROVAL PLANNING TENDER CONSTRUCTION AS-BUILT

CLIENT: ESB WIND DEVELOPMENT LTD, AND BORD NA MONA POWERGEN LTD.

PROJECT: ESB BNM SOLAR PV JV PROJECT

CONTRACT: TIMAHOE NORTH SOLAR PROJECT

DRAWING TITLE: ROAD TYPE SECTIONS

PRODUCTION UNIT: CIVIL & ENVIRONMENTAL ENGINEERING

ESB INTERNATIONAL
One Dublin Airport Central, Dublin Airport, Cloughran, Co. Dublin
Tel: 353 1 703 8000 Email: marketing@esbi.ie
Web: www.esbinternational.ie

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Registered Office: as above Registered in Ireland No. 155249

DRAWN	PRODUCED	VERIFIED	APPROVED	APPROVAL DATE
S. Bolton	K. McClay	B. Murphy	F. Quigley	31/07/2018

CLIENT REF	NO. OF SHTS	SIZE	SCALE
	1	A1	1:50

DRAWING NUMBER	SHEET	REV
QS-000218-01-D453-005		