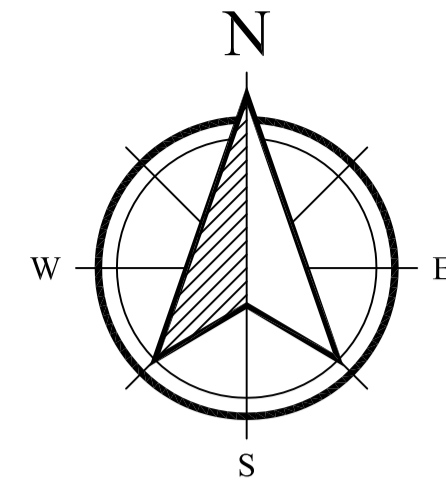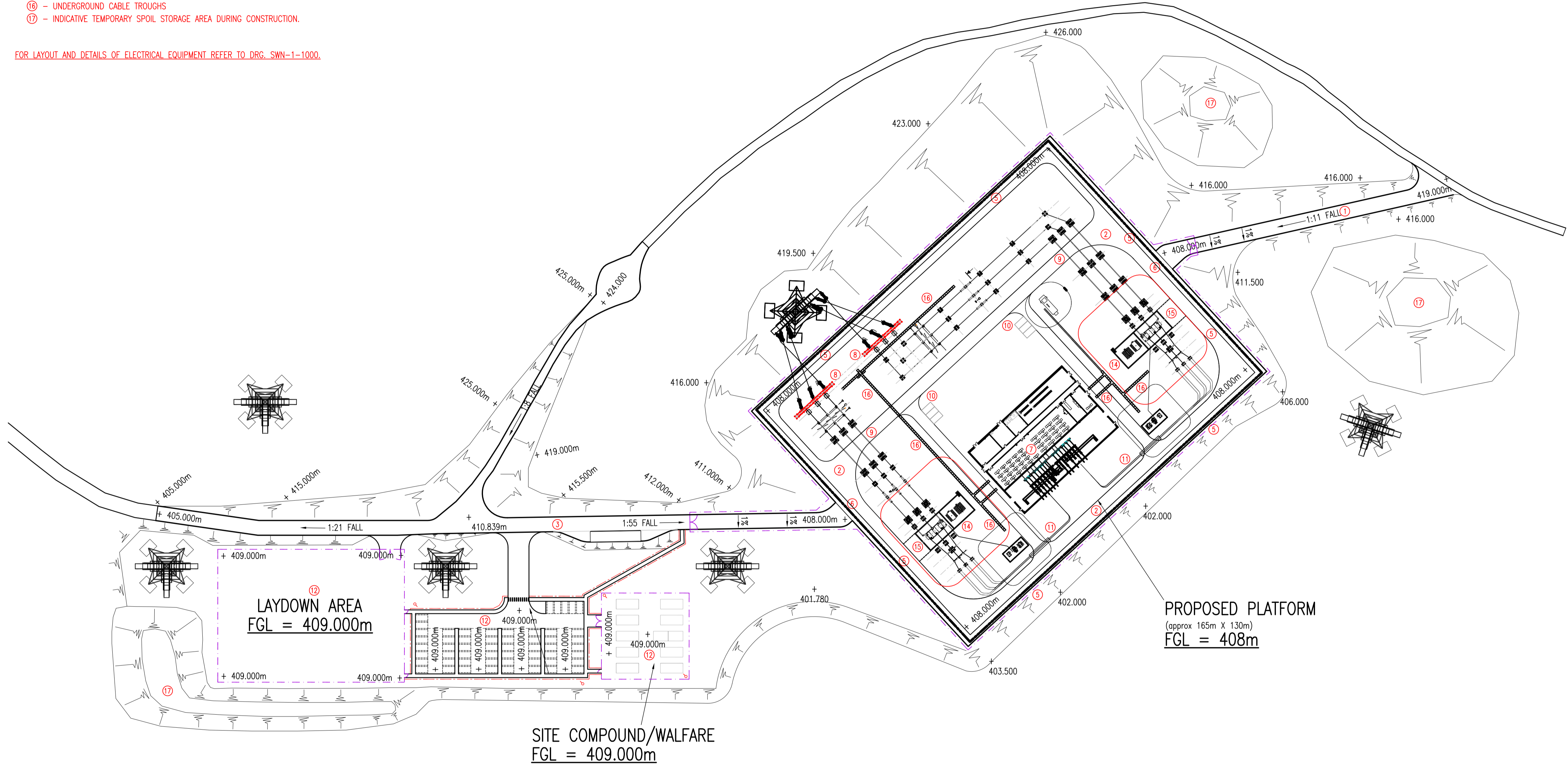PROPOSED ITEM LIST:-

① – TEMPORARY CONSTRUCTION ENTRANCE TRACK (FIRE ESCAPE)
② – SUBSTATION INTERNAL ROADS CONSTRUCTED WITH TARMAC AND
     EDGED WITH PC KERBING. ROADS WILL HAVE CROSSFALL AND
     DRAINED INTO PLATFORM.
③ – SUBSTATION ENTRANCE ROAD.
④ – NOT USED
⑤ – 2.4m HIGH GALVANISED METAL PALISADE FENCE AROUND
     PERIMETER OF SITE.
⑥ – 2.4m HIGH GALVANISED GATES AT EITHER ENTRANCE TO
     SUBSTATION.
⑦ – GIS BUILDING. 34m x 52m x 11.5m HIGH LIGHTWEIGHT STEEL
     PORTAL BUILDING WITH METAL WALL AND ROOF CLADDING. ALL CLADDING
     AND DOORS etc. TO BE RAL.6003 – OLIVE GREEN.
⑧ – STEEL LATTICE SUPPORT GANTRY
⑨ – HIGH LEVEL ALUMINUM POST INSULATOR
⑩ – SUBSTATION CAR/VAN PARKING (6 No. SPACES)
⑪ – UNDERGROUND 132KV POWER CABLES
⑫ – TEMP CONSTRUCTION (CDM) COMPOUND AND CAR PARK
⑬ – NOT USED
⑭ – TRANSFORMER 1 & 2 ON CONCRETE BUNDED FOUNDATION.
⑮ – CONCRETE TRANSFORMER SKIDWAY
⑯ – UNDERGROUND CABLE TROUGHS
⑰ – INDICATIVE TEMPORARY SPOIL STORAGE AREA DURING CONSTRUCTION.

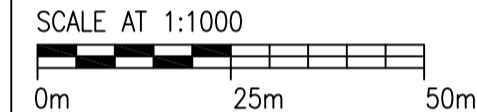FOR LAYOUT AND DETAILS OF ELECTRICAL EQUIPMENT REFER TO DRG. SWN-1-1000.

AMEY REFERENCE DRAWINGS	
SWN-1-1000	ELECTRICAL LAYOUT
SWN-1-1001	ELECTRICAL ELEVATIONS
SWN-1-1600	RED LINE BOUNDARY LAYOUT
SWN-1-1601	PEAT PROBE LAYOUT
SWN-1-1602	PROPOSED SITE LOCATION PLAN
SWN-1-1603	CDM LAYOUT
SWN-1-1610	CIVILS LAYOUT
SWN-1-1611	DRAINAGE LAYOUT
SWN-1-1612	SITE SECTIONS – SHEET 1
SWN-1-1613	SITE SECTIONS – SHEET 2
SWN-1-1614/1	ROUTE OF ACCESS TRACK – SHEET 1
SWN-1-1614/2	ROUTE OF ACCESS TRACK – SHEET 2
SWN-1-1615	SECTION THROUGH ACCESS – SHEET 1
SWN-1-1616	SECTION THROUGH ACCESS – SHEET 2
SWN-1-1617	PROPOSED GIS BUILDING G.A.

INDICATIVE FOR PLANNING
PURPOSES ONLY

SCALE AT 1:1000

0m   25m   50m

INTERNAL DESIGN CHECK BOX

CIVIL	ELECTRICAL	PRIMARY	PROTECTION

SHE HAZARD BOX

IN ADDITION TO THE HAZARDS / RISKS NORMALLY ASSOCIATED WITH THE
TYPES OF WORKS DETAILED ON THIS DRAWING, NOTE THE FOLLOWING
SPECIFIC HAZARDS WHICH REQUIRE SPECIAL CONSIDERATIONS.

MAINTENANCE / CLEANING / OPERATION
N/A

CONSTRUCTION
UNIDENTIFIED SERVICES MAY BE PRESENT ON SITE THEREFORE ANY
BREAKING OF THE GROUND SHALL BE UNDERTAKEN IN ACCORDANCE WITH
THE POLICY AND PROCEDURES WITH THE RECOMMENDATION FROM HSG(47)
AVOIDING DANGER FROM UNDERGROUND SERVICES.

DECOMMISSIONING / DEMOLITION
N/A

02	UPDATE TO SUIT SSE DESIGN	22/02/16	DC	JB	HP
01	UPDATED TO SUIT SSE COMMENTS	19/02/16	JB	JB	HP
REV	DESCRIPTION	DATE	DRAWN	CHKD	APPD

DRAWING STATUS:

PLANNING

DATE: 22/06/2015	SCALE: 1:1000	SIZE: CAD A1
DRAWN BY: DWB	CHECKED BY: JB	APPROVED BY: JC

amey

Unit 2A-2E International House. Stanley Boulevard
Hamilton International Technology Park,
High Blantyre, G72 0BN.
Telephone.01698 404690 Fax.01698 404691
E-mail: communications@amey.co.uk Website: www.amey.co.uk

Drawing to BS 8888
unless otherwise stated

DRAWING TITLE:

PROPOSED SUBSTATION SITE PLAN

CLIENT NAME:
SSE

PROJECT NAME:
LT19 TOMATIN 275/132 kV SUBSTATION
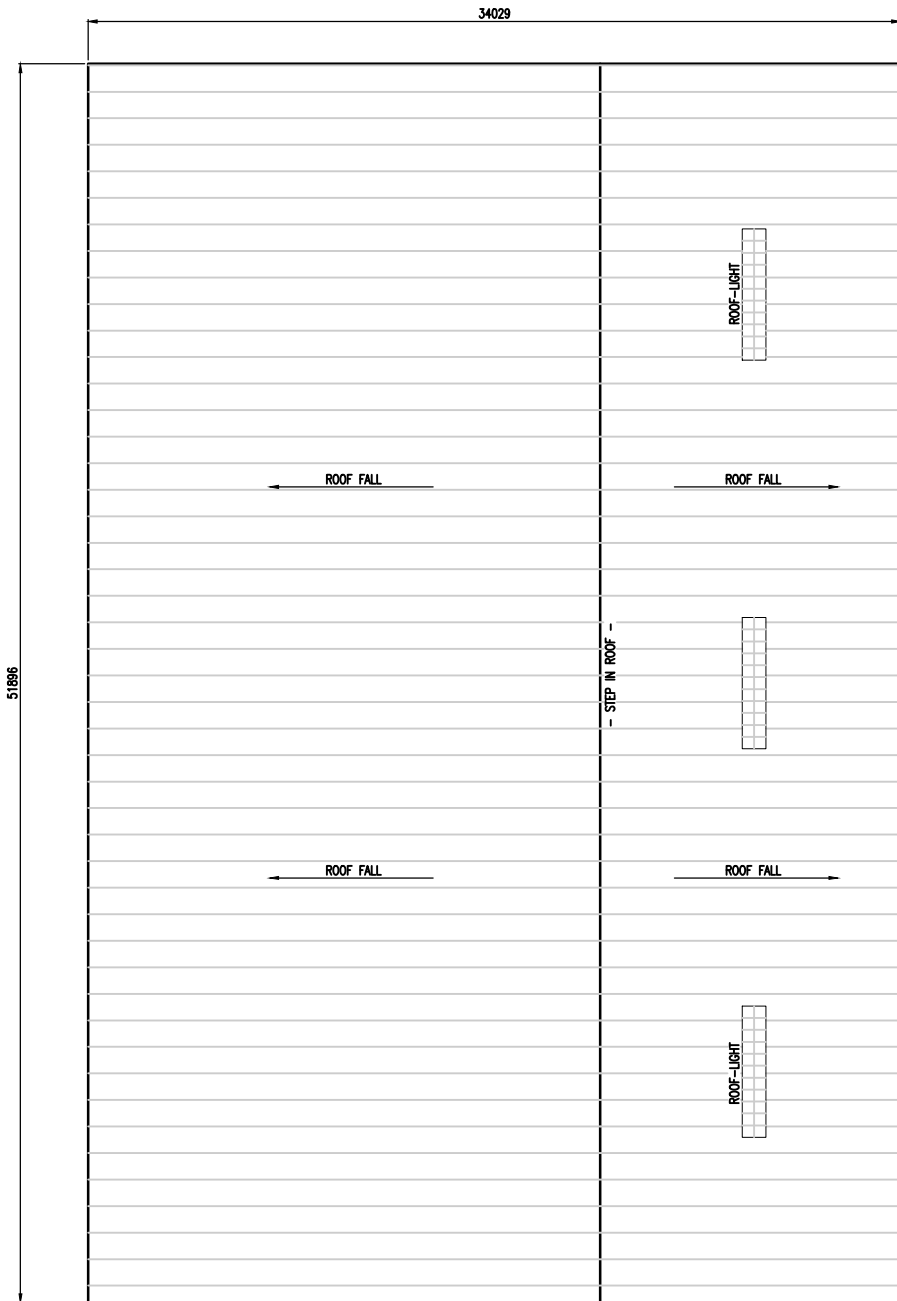
SITE NAME:
LT19 TOMATIN SUBSTATION

DRAWING NUMBER:	SHEET No. 1 OF 1
SWN-1-1618	REVISION: 02

LAYDOWN AREA
FGL = 409.000m

SITE COMPOUND/WALFARE
FGL = 409.000m

PROPOSED PLATFORM
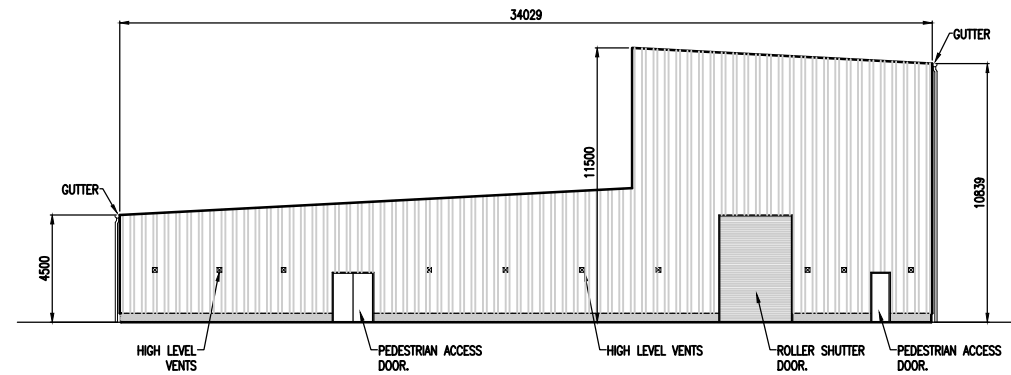(approx 165m X 130m)
FGL = 408m

N
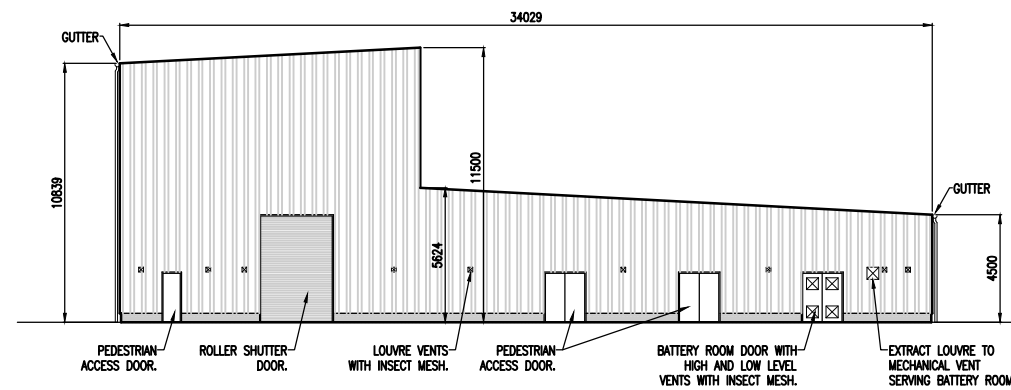W — E
S

BUILDING SPECIFICATION:

1. CONTROL BUILDING TO BE CONSTRUCTED USING LIGHTWEIGHT STEEL PORTAL FRAME ON CONCRETE FOUNDATIONS.

2. MONO PITCHED ROOF TO HAVE KINGSPAN (OR SIMILAR) INSULATED METAL ROOF CLADDING WITH GRP ROOF LIGHTS.

3. WALLS TO HAVE BRICKWORK DADO WALL WITH KINGSPAN INSULATED WALL CLADDING.

4. ROLLER SHUTTER AND PEDESTRIAN ACCESS DOORS TO BE STEEL POWDER COATED TO MATCH CLADDING.

5. FLOOR LEVEL TO BE LEVEL WITH OUTSIDE GROUND LEVEL. CONCRETE SKIDWAY TO BE PROVIDED AT EACH DOOR, FROM ROADWAY TO FACE OF BUILDING.

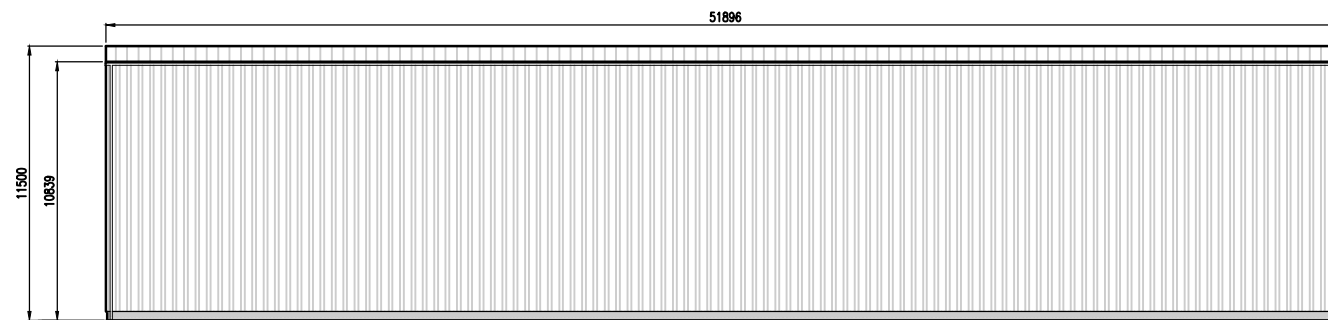6. COLOR OF ROOF CLADDING, WALL CLADDING AND ALL DOORS TO BE RAL.6003 – OLIVE GREEN.

AMEY REFERENCE DRAWINGS

SWN-1-1000	ELECTRICAL LAYOUT
SWN-1-1001	ELECTRICAL ELEVATIONS
SWN-1-1600	RED LINE BOUNDARY LAYOUT
SWN-1-1601	PEAT PROBE LAYOUT
SWN-1-1602	PROPOSED SITE LOCATION PLAN
SWN-1-1603	CDM LAYOUT
SWN-1-1610	CIVILS LAYOUT
SWN-1-1611	DRAINAGE LAYOUT
SWN-1-1612	SITE SECTIONS – SHEET 1
SWN-1-1613	SITE SECTIONS – SHEET 2
SWN-1-1614/1	ROUTE OF ACCESS TRACK – SHEET 1
SWN-1-1614/2	ROUTE OF ACCESS TRACK – SHEET 2
SWN-1-1615	SECTION THROUGH ACCESS – SHEET 1
SWN-1-1616	SECTION THROUGH ACCESS – SHEET 2
SWN-1-1617	PROPOSED GIS BUILDING G.A.

INDICATIVE FOR PLANNING PURPOSES ONLY

34029

11500

10839

4500

GUTTER

GUTTER

HIGH LEVEL VENTS · PEDESTRIAN ACCESS DOOR. · HIGH LEVEL VENTS · ROLLER SHUTTER DOOR. · PEDESTRIAN ACCESS DOOR.

WEST ELEVATION ON GIS ROOM BUILDING
SCALE 1:150

34029

GUTTER

GUTTER

10839

11500

5624

4500

PEDESTRIAN ACCESS DOOR. · ROLLER SHUTTER DOOR. · LOUVRE VENTS WITH INSECT MESH. · PEDESTRIAN ACCESS DOOR. · BATTERY ROOM DOOR WITH HIGH AND LOW LEVEL VENTS WITH INSECT MESH. · EXTRACT LOUVRE TO MECHANICAL VENT SERVING BATTERY ROOM.

EAST ELEVATION ON GIS ROOM BUILDING
SCALE 1:150

51896

11500

10839

SOUTH ELEVATION ON GIS ROOM BUILDING
SCALE 1:150

51896

11500

5624

4500

PEDESTRIAN ACCESS DOOR. · LOUVRE VENTS WITH INSECT MESH. · PEDESTRIAN ACCESS DOOR.

NORTH ELEVATION ON GIS ROOM BUILDING
SCALE 1:150

34029

51896

ROOF-LIGHT

ROOF FALL · ROOF FALL

– STEP IN ROOF –

ROOF-LIGHT

ROOF FALL · ROOF FALL

ROOF-LIGHT

ROOF PLAN ON GIS ROOM BUILDING
SCALE 1:150

SCALE AT 1:150

0m   5m   10m

INTERNAL DESIGN CHECK BOX

CIVIL	ELECTRICAL	PRIMARY	PROTECTION

SHE HAZARD BOX

IN ADDITION TO THE HAZARDS / RISKS NORMALLY ASSOCIATED WITH THE TYPES OF WORKS DETAILED ON THIS DRAWING, NOTE THE FOLLOWING SPECIFIC HAZARDS WHICH REQUIRE SPECIAL CONSIDERATIONS.

MAINTENANCE / CLEANING / OPERATION
N/A

CONSTRUCTION
UNIDENTIFIED SERVICES MAY BE PRESENT ON SITE THEREFORE ANY BREAKING OF THE GROUND SHALL BE UNDERTAKEN IN ACCORDANCE WITH THE POLICY AND PROCEDURES WITH THE RECOMMENDATION FROM HSG(47) AVOIDING DANGER FROM UNDERGROUND SERVICES.

DECOMMISSIONING / DEMOLITION
N/A

REV	DESCRIPTION	DATE	DRAWN	CHKD	APPD
04	UPDATED TO SSE COMMENTS.	21.01.16	JB	JB	HP
03	UPDATED TO SSE COMMENTS.	03.12.15	DWB	JB	HP
02	INCREASED IN SITE TO SSE SPEC.	26.11.15	DWB	JB	HP
01	UPDATED TO SSE COMMENTS.	17.09.15	DWB	JB	HP

DRAWING STATUS: **PLANNING**

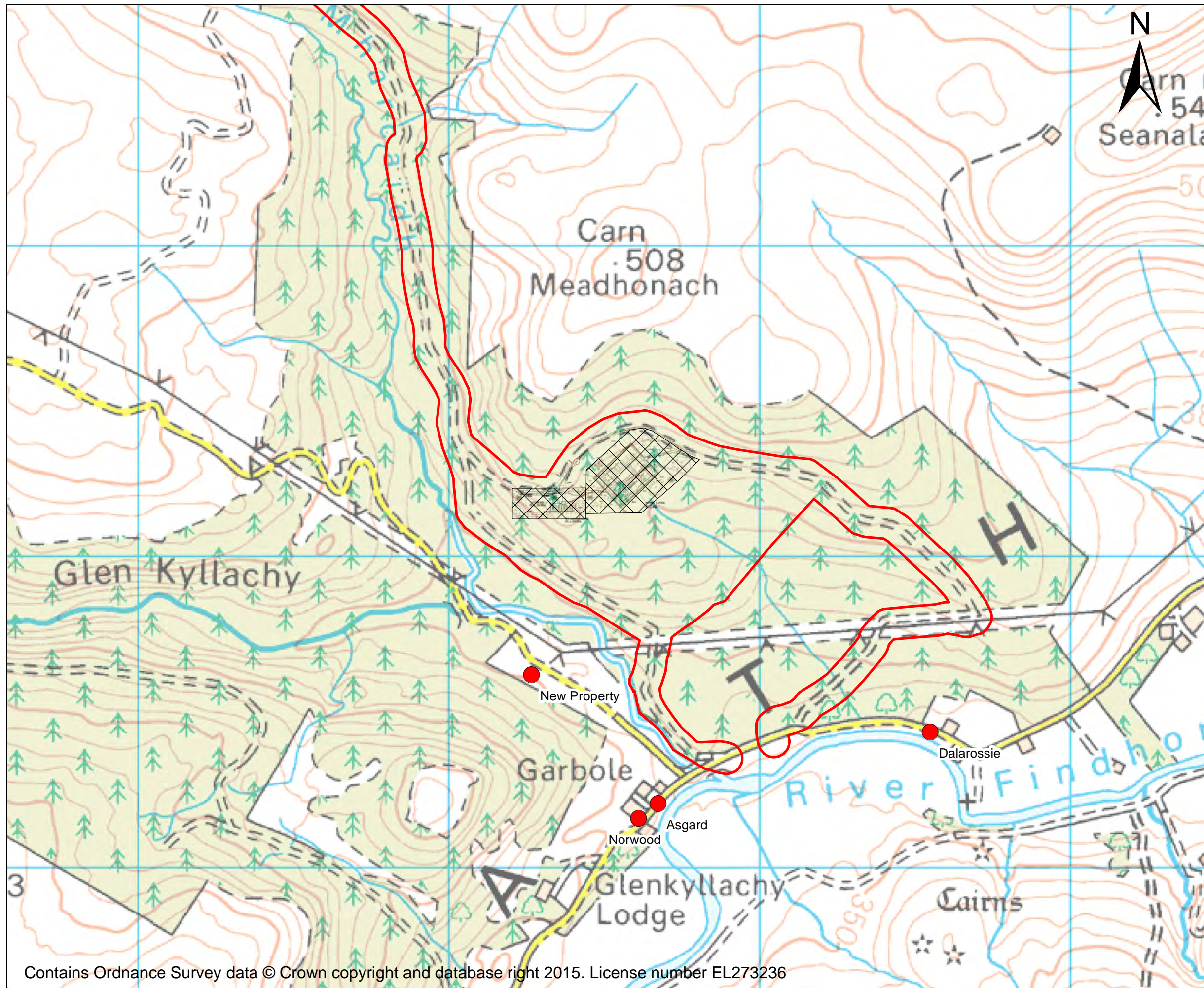| DATE: 22/05/2015	SCALE: 1:150	SIZE: CAD A1
DRAWN BY: DWB	CHECKED BY: JB	APPROVED BY: JC

Drawing to BS 8888 unless otherwise stated

DRAWING TITLE:

PROPOSED GIS BUILDING GENERAL ARRANGEMENT

CLIENT NAME: SSE

PROJECT NAME:

TOMATIN 275/132 kV SUBSTATION

SITE NAME:

TOMATIN SUBSTATION

| DRAWING NUMBER: SWN-1-1617 | SHEET No. 1 OF 1 |
| | REVISION: 04 |

SWN-1-1617_REV04 – CONTROL BUILDING GA.DWG

Legend

▭ (red outline)	Planning Boundary
▨ (crosshatch)	Proposed Tomatin substation development boundary (see plan SWN-1-1618 for details)
● (red dot)	Noise Sensitive Receptors

Carn
.508
Meadhonach

Glen Kyllachy

New Property

Dalarossie

Garbole

Asgard

Norwood

Glenkyllachy
Lodge

Cairns

River Findhorn

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0 25 50 100 150 200 250 m

Figure 9.1: Noise Sensitive Receptor Locations

Tomatin Substation
Environmental Appraisal

Client: SHE Transmission Plc

Date January 2016	Drawn by DD
Project No. UK12-18358	Issue 1

Scale @ A3 1:12,000

Scottish and Southern Energy
Power Distribution

PROPOSED ITEM LIST:-

① – TEMPORARY CONSTRUCTION ENTRANCE TRACK (FIRE ESCAPE)
② – SUBSTATION INTERNAL ROADS CONSTRUCTED WITH TARMAC AND
    EDGED WITH PC KERBING. ROADS WILL HAVE CROSSFALL AND
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③ – SUBSTATION ENTRANCE ROAD.
④ – NOT USED
⑤ – 2.4m HIGH GALVANISED METAL PALISADE FENCE AROUND
    PERIMETER OF SITE.
⑥ – 2.4m HIGH GALVANISED GATES AT EITHER ENTRANCE TO
    SUBSTATION.
⑦ – GIS BUILDING. 34m x 52m x 11.5m HIGH LIGHTWEIGHT STEEL
    PORTAL BUILDING WITH METAL WALL AND ROOF CLADDING. ALL CLADDING
    AND DOORS etc. TO BE RAL6003 – OLIVE GREEN.
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⑨ – HIGH LEVEL ALUMINUM POST INSULATOR
⑩ – SUBSTATION CAR/VAN PARKING (6 No. SPACES)
⑪ – UNDERGROUND 132KV POWER CABLES
⑫ – TEMP CONSTRUCTION (CDM) COMPOUND AND CAR PARK
⑬ – NOT USED
⑭ – TRANSFORMER 1 & 2 ON CONCRETE BUNDED FOUNDATION.
⑮ – CONCRETE TRANSFORMER SIGDWAY
⑯ – UNDERGROUND CABLE TROUGHS
⑰ – INDICATIVE TEMPORARY SPOIL STORAGE AREA DURING CONSTRUCTION.

FOR LAYOUT AND DETAILS OF ELECTRICAL EQUIPMENT REFER TO DRG. SWN-1-1000.

Native Woodland Mix

%	species	form	height	root	Pit size	sundries
5	Acer campestre	Transplant	450-600mm	Bare root	225x225x225mm	All plants to be bushy and well branched with 3 or more breaks in the lower third of the plant (except Pinus). At least 50% of each species to be in the upper half of the size range specified.
15	Alnus glutinosa		450-600mm			
15	Betula pendula		450-600mm			
15	Crataegus monogyna		300-450mm			
20	Pinus sylvestris	2l pot	450-600mm	Container grown		
5	Prunus padus	Transplant	450-600mm	Bare root		Woodland Area to be protected by rabbit proof fencing.
5	Prunus spinosa *		450-600mm			
5	Salix caprea*		450-600mm			* Cut back to 300mm immediately prior to planting.
5	Sorbus aucuparia		450-600mm			
10	Viburnum opulus*		450-600mm			Plant at 1m centres

Legend

 Proposed Tomatin substation development boundary (see plan SWN-1-1618 for details)

 Blanket Bog

 Native Wodland Mix Planting (see species mix for details)

LAYDOWN AREA
FGL = 409.000m

SITE COMPOUND/WALFARE
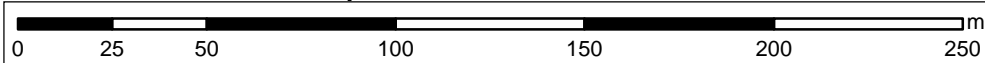FGL = 409.000m

PROPOSED PLATFORM
(approx 165m X 130m)
FGL = 408m

Figure 2.4: Landscaping Proposals

Tomatin Substation
Environmental Appraisal

Client: SHE Transmission Plc

Date February 2016	Drawn by SR
Project No. UK12-18358	Issue 2

Scottish and Southern Energy
Power Distribution

Scale @ A3 1:2,000

0 25 50 100 150 200 250 m

Legend

▭ Planning boundary

Track Status

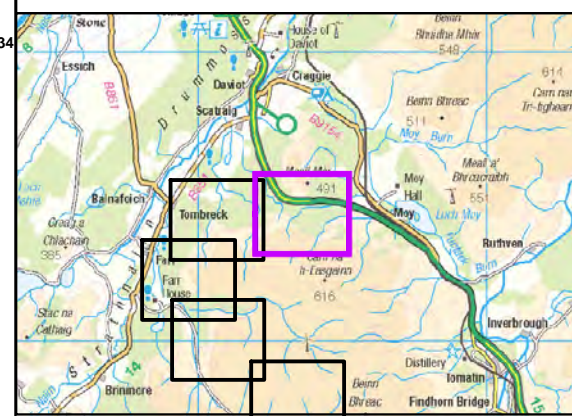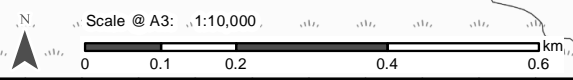━━━ Existing (No upgrade)

Meall Mòr

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Ordnance Survey Licence number EL273236.

Project No: LT000019

Project: Beauly - Tomatin

Title:

Tomatin Substation
Planning [Red Line] boundary

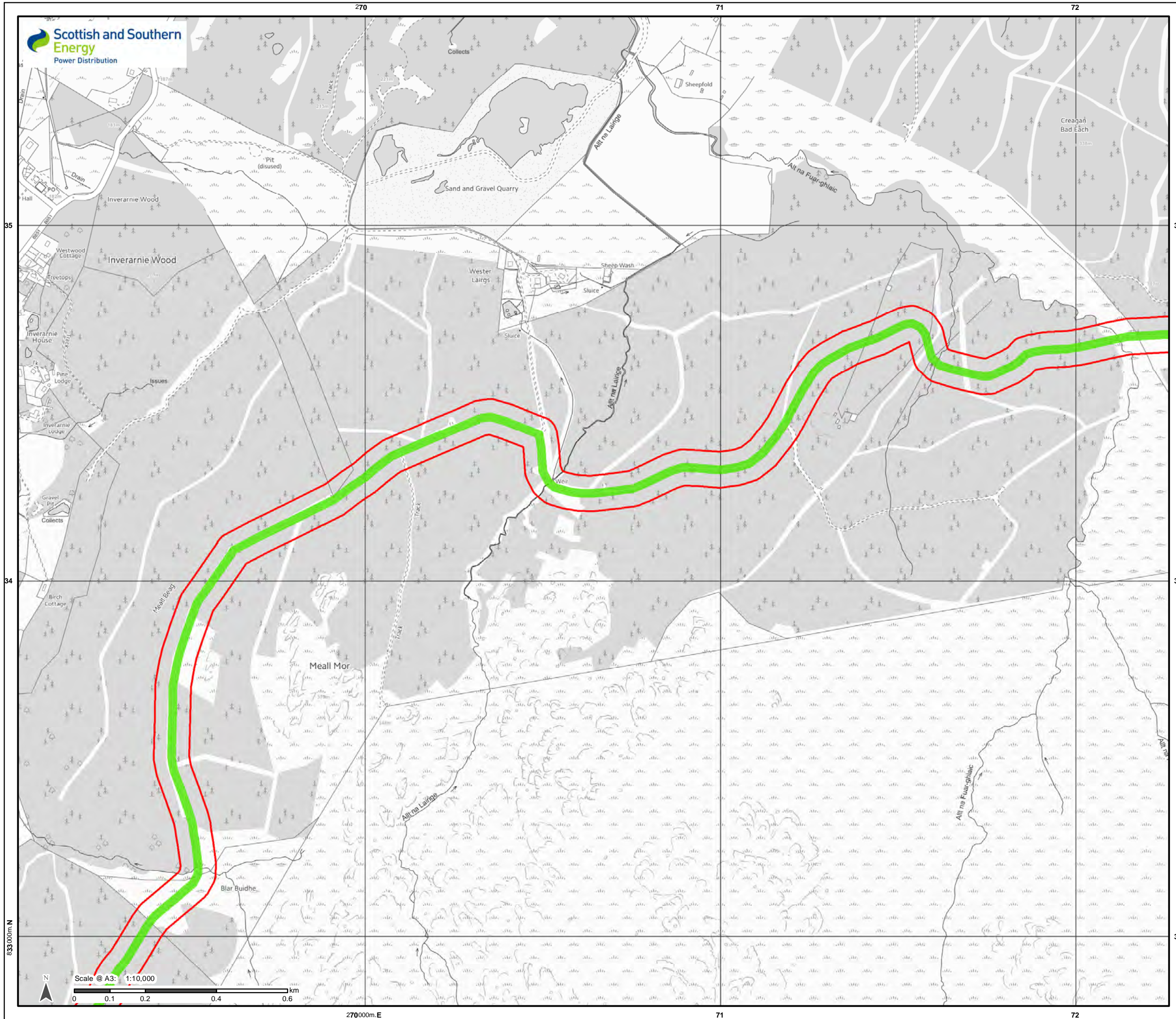Drawn by: WJH   Date: 16/02/2016

Drawing: LT000019_WAY_004_Tracks

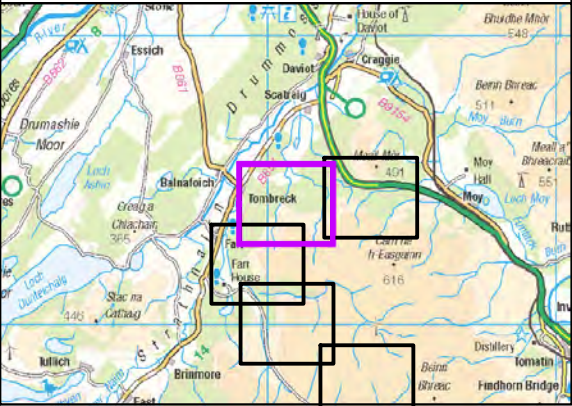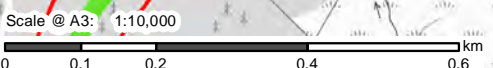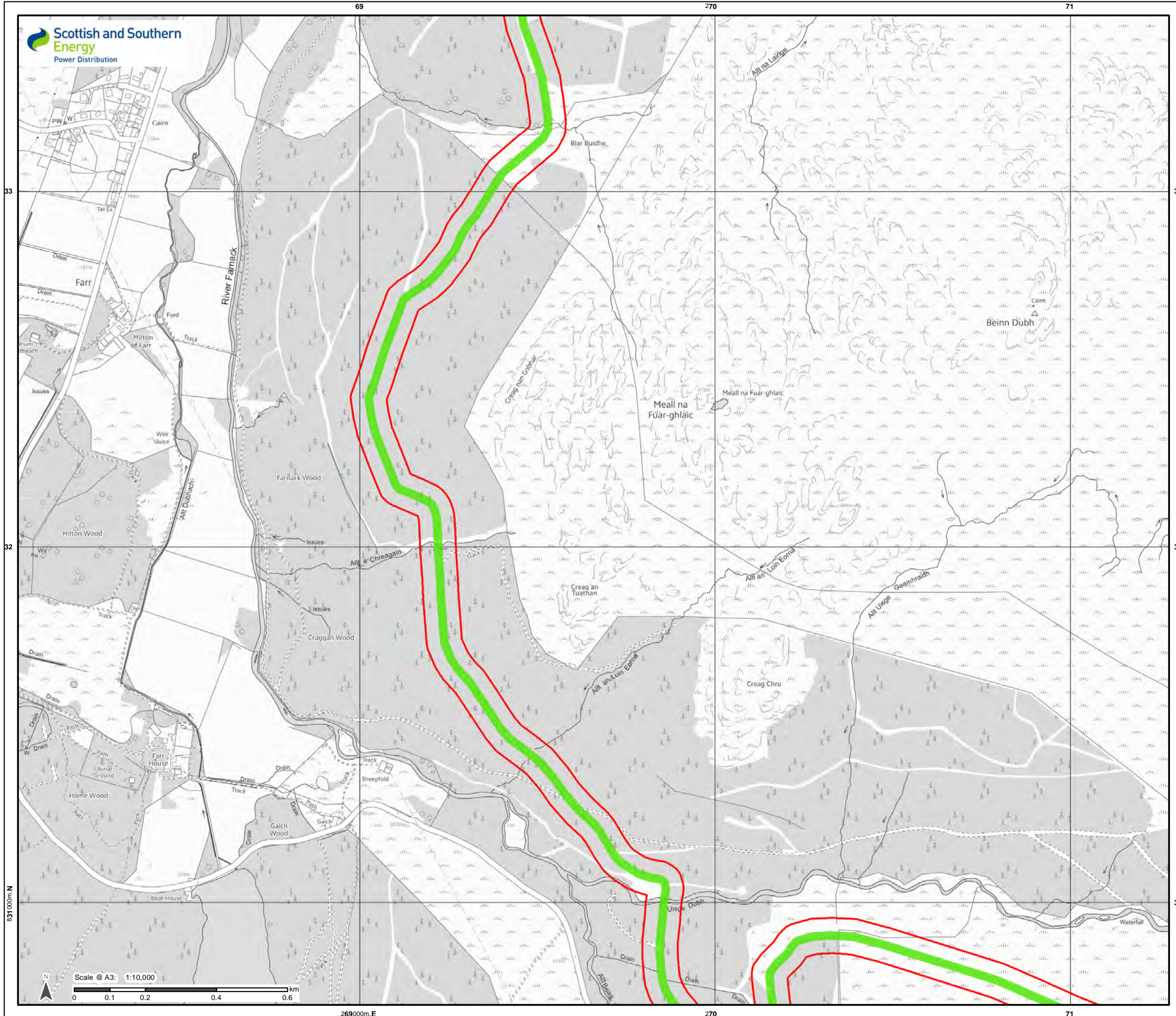Scale @ A3: 1:10,000

0   0.1   0.2   0.4   0.6 km

Scottish and Southern Energy
Power Distribution

Legend

Planning boundary

Track Status

Existing (No upgrade)

Project No:	LT000019
Project:	Beauly - Tomatin
Title:	Tomatin Substation Planning [Red Line] boundary
Drawn by: WJH	Date: 16/02/2016
Drawing:	LT000019_WAY_004_Tracks

Scale @ A3: 1:10,000

0   0.1   0.2   0.4   0.6   km

Legend

☐ Planning boundary

Track Status

━━ Existing (No upgrade)

Scottish and Southern
Energy
Power Distribution

Scale @ A3:   1:10,000

km
0   0.1   0.2   0.4   0.6

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Project No: LT000019

Project: Beauly - Tomatin

Title:

Tomatin Substation
Planning [Red Line] boundary

Drawn by: WJH   Date: 16/02/2016

Drawing: LT000019_WAY_004_Tracks
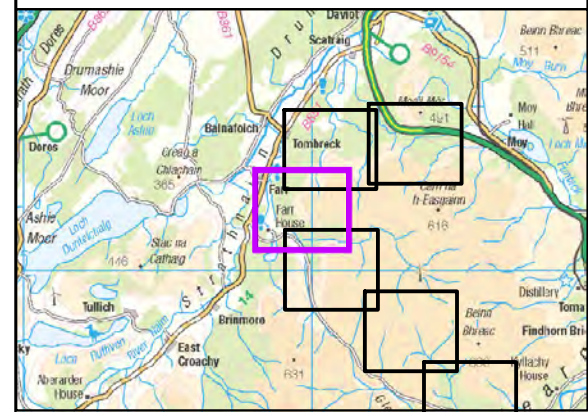
Legend

- ▭ Planning boundary

Track Status

- ▬▬ Existing (No upgrade)

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Project No: LT000019

Project: Beauly - Tomatin

Title:

Tomatin Substation
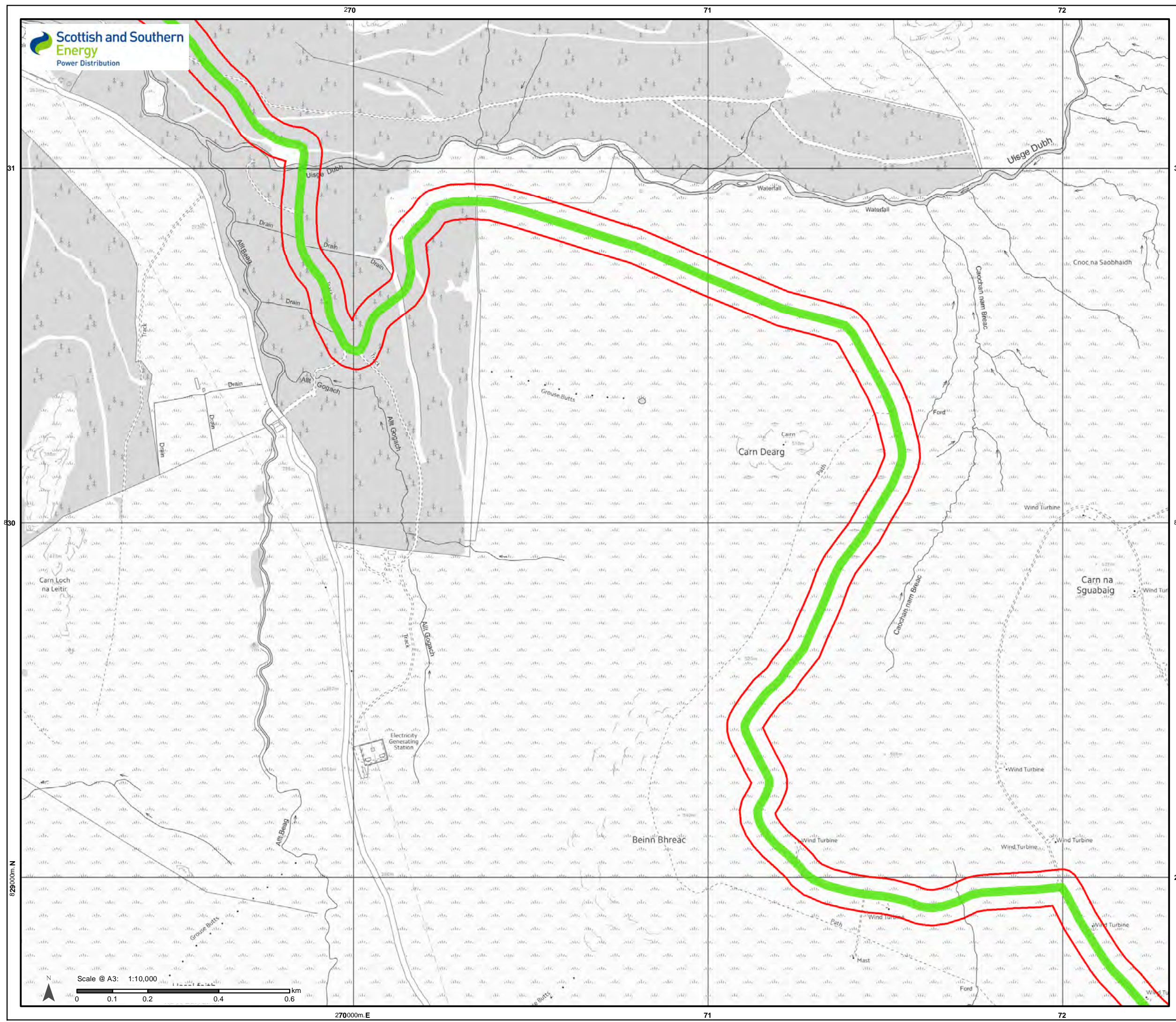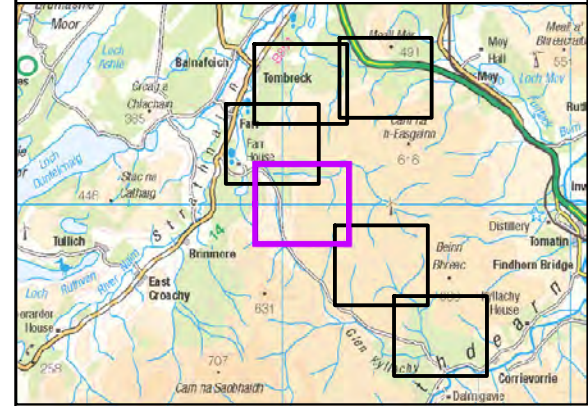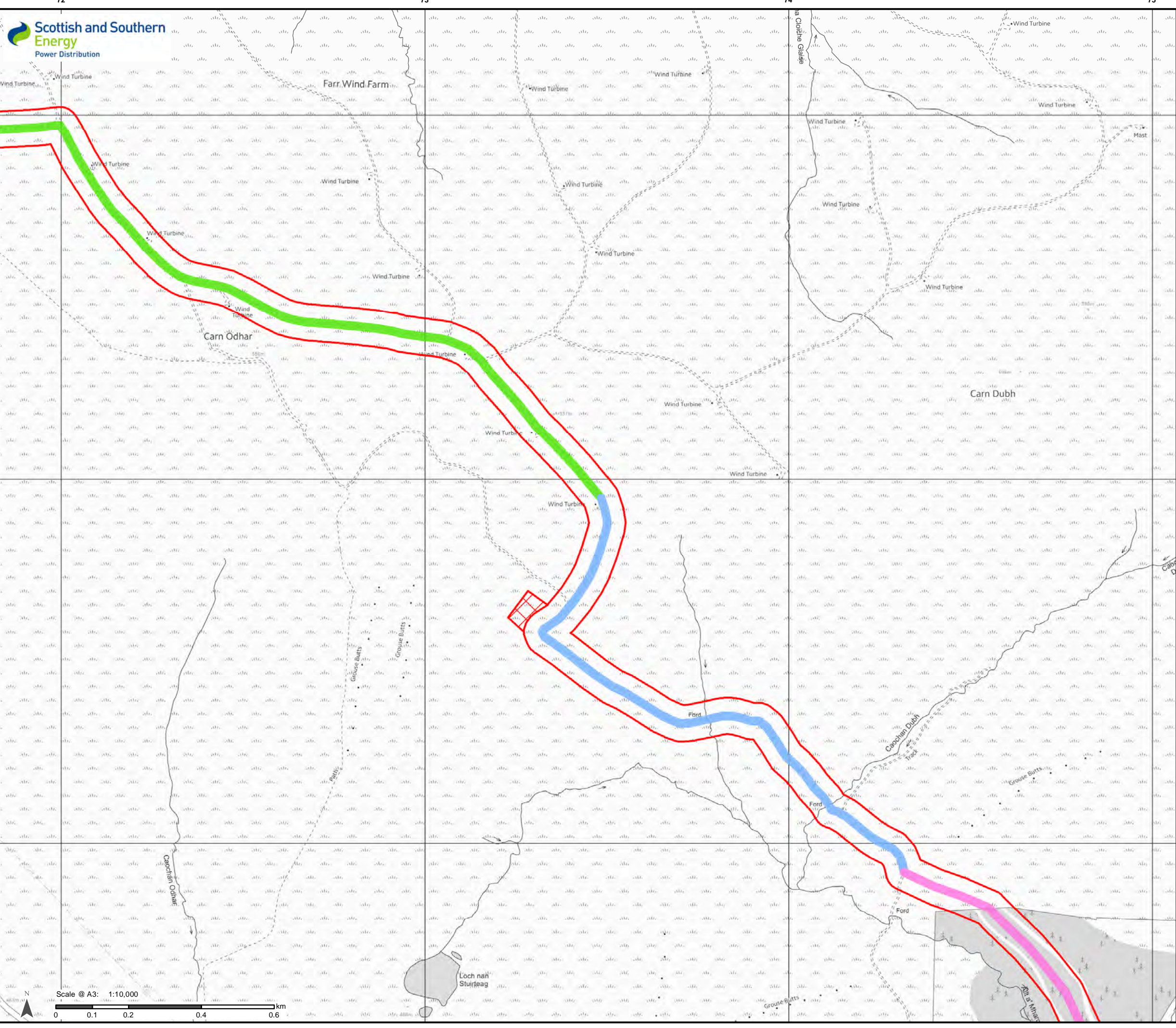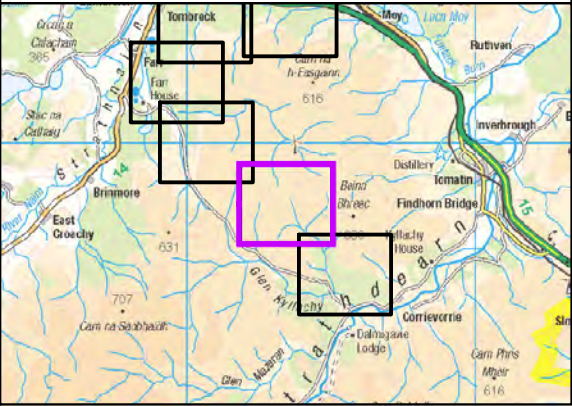Planning [Red Line] boundary

Drawn by: WJH   Date: 16/02/2016

Drawing: LT000019_WAY_004_Tracks

Scale @ A3: 1:10,000

0   0.1   0.2   0.4   0.6   km

Uisge Dubh

Waterfall

Waterfall

Cnoc na Saobhaidh

Caochan nam Breac

Grouse Butts

Carn Dearg

Cairn

Ford

Wind Turbine

Carn Loch
na Leitir

Caochan nam Breac

Carn na
Sguabaig

Wind Turbine

Allt Beag

Drain

Allt Gogach

Electricity
Generating
Station

Beinn Bhreac

Wind Turbine

Wind Turbine

Wind Turbine

Grouse Butts

Mast

Ford

Path

Legend

▭ (red outline)	Planning boundary
▧ (red crosshatch)	Temporary construction compound for access road (detail to be confirmed)

Track Status

▬ (green)	Existing (No upgrade)
▬ (blue)	Existing (Upgrade)
▬ (pink)	New (Permanent)

Scottish and Southern
Energy
Power Distribution

Farr Wind Farm

Carn Òdhar

Carn Dubh

Loch nan Stuirteag

Scale @ A3:   1:10,000

0   0.1   0.2   0.4   0.6   km

Project No:	LT000019
Project:	Beauly - Tomatin
Title:	Tomatin Substation Planning [Red Line] boundary
Drawn by:	WJH
Date:	16/02/2016
Drawing:	LT000019_WAY_004_Tracks

Legend

Planning boundary

Proposed Tomatin substation development boundary (see plan SWN-1-1618 for details)

Track Status

Existing (No upgrade)

Existing (Upgrade)

New (Permanent)

Scottish and Southern Energy
Power Distribution
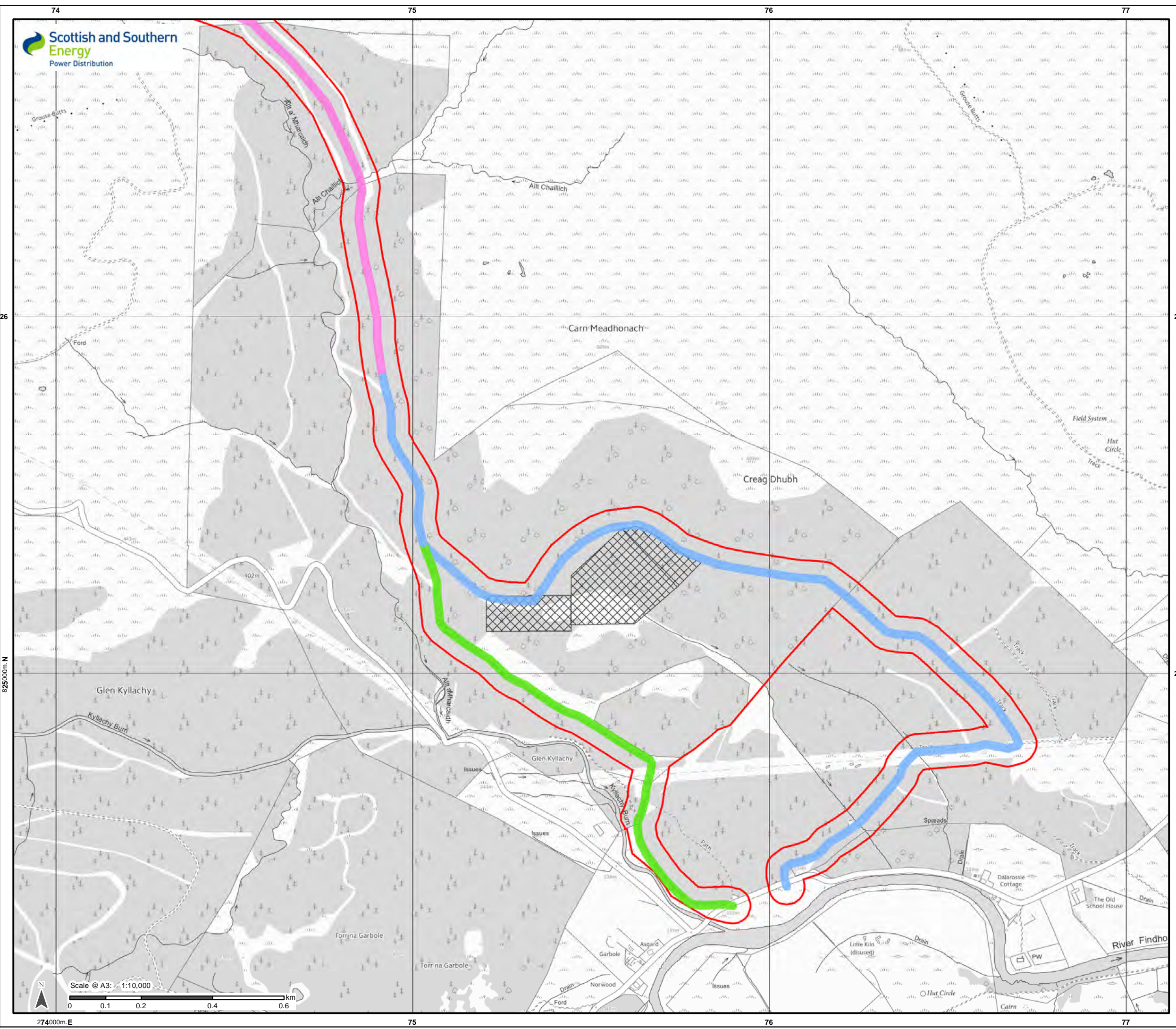
Scale @ A3: 1:10,000

0   0.1   0.2   0.4   0.6   km

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Project No: LT000019

Project: Beauly - Tomatin
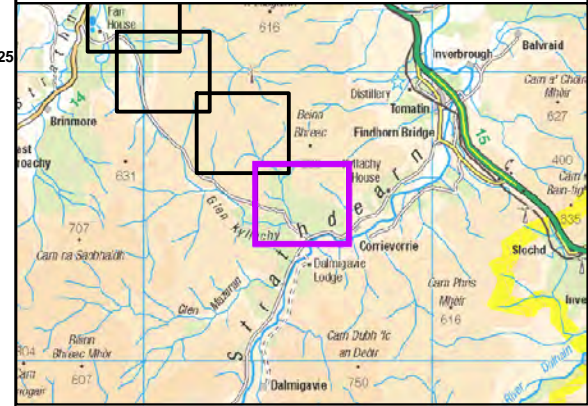
Title:
Tomatin Substation
Planning [Red Line] boundary

Drawn by: WJH   Date: 16/02/2016

Drawing: LT000019_WAY_004_Tracks