

- Notes**
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  - Given the low sewage flows expected to be generated in the buildings, it is anticipated a flushing system may be required to reduce the risk of septicity occurring with the sewage pumping system.
  - Location and alignment of existing Scottish Water sewer shown inductively as per Scottish Water asset records. Precise location of proposed connection point TBC at later stage of design.
  - Engagement with Scottish Water is required to obtain consent for connecting into the existing sewer.
  - The pumping station will include a high level alarm to the control room. There will be a minimum of two pumps (duty/assist) and a minimum of 24 hours emergency storage at average flow rates will be provided in the case of both pumps failing.
  - The site civils design has been completed in line with the requirements of the standardised HVDC converter station and AC substation compound design defined by SSEN. The site drainage and earthworks design, including the platform levels, may be optimised further following completion of the ground investigation and design development of the HVDC converter station and AC substation.

- Key to symbols**
- TEMPORARY LAYDOWN AREAS
  - EXISTING SCOTTISH WATER FOUL WATER SEWER
  - EXISTING SCOTTISH WATER RISING MAIN
  - EXISTING SCOTTISH WATER COMBINED SEWER
  - EXISTING MANHOLE
  - EXISTING PUMPING STATION WITH COMBINED SEWER OVERFLOW
  - NEW RISING MAIN
  - NEW FOUL WATER PIPE
  - NEW FOUL WATER PUMPING STATION
  - NEW FOUL WATER MANHOLE
  - ASSUMED WELFARE AREAS
  - EXISTING WATERCOURSE WITH 10m BUFFER
  - RED LINE BOUNDARY
  - NEW STORNOWAY PORT AUTHORITY ROAD
  - ATTENUATION BASIN
  - TRACK FOR MAINTENANCE
  - EXISTING SCOTTISH WATER DISTRIBUTION MAIN
  - EXISTING SCOTTISH WATER TRUNK MAIN

**Reference drawings**

109647-MMD-ARNI-XX-DR-CE-0003 - PERMANENT DRAINAGE LAYOUT

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Rev	Date	Drawn	Description	Ch'k'd	App'd
P06	14/02/2025	OGL	FOR PLANNING SUBMISSION	ARD	RMcG
P05	04/02/2025	OGL	FOR PLANNING SUBMISSION	ARD	RMcG
P04	11/11/2024	JT	CLIENT COMMENT UPDATE AND CHANGE	ARD	RMcG
			IN LAYDOWN AREA 3 PLAN AREA		
P03	11/10/2024	OGL	SECOND ISSUE	ARD	RMcG
P02	16/09/2024	OGL	FIRST ISSUE	ARD	RMcG
P01	30/08/24	OGL	PRELIMINARY ISSUE	ARD	RMcG

Status Stamp  
**FOR PLANNING SUBMISSION**

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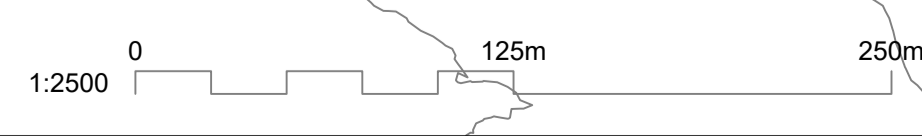
**Scottish & Southern Electricity Networks**

Project Name  
**LT14 Western Isles HVDC**

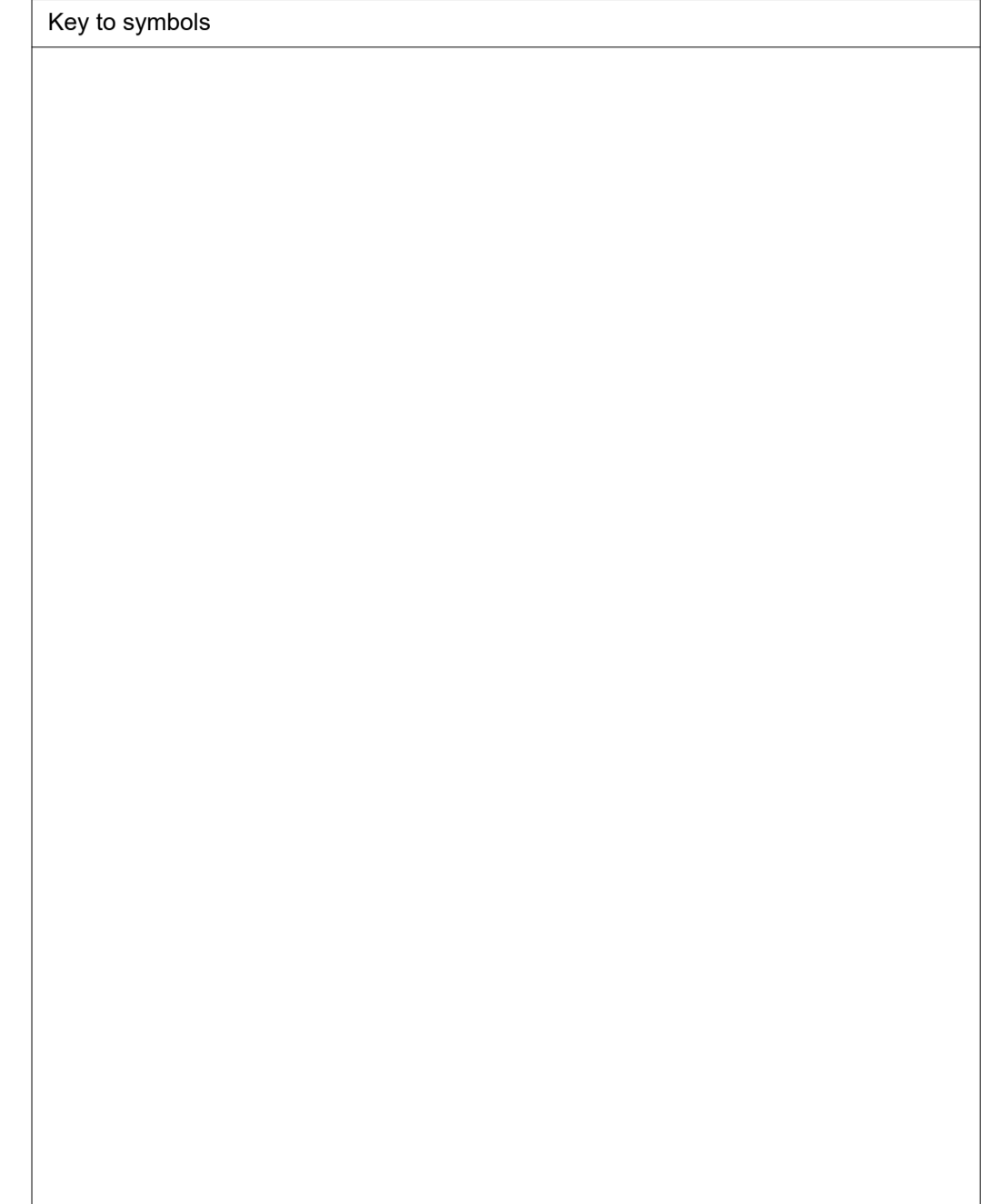
Site Name  
**Arnish Moor**

Title  
**Foul Water Layout Sheet 01 of 02**

Designed	Euan Walker	EW	Eng check	Anabel Ruiz Diaz	ARD
Drawn	Oscar Gomez Lopez	OGL	Coordination	Anabel Ruiz Diaz	ARD
Dwg check	Anabel Ruiz Diaz	ARD	Approved	Richard McGowan	RMcG
MMD Project Number	109647	Scale at A1	AS SHOWN	Security	STD
MML Drawing Number	109647-MMD-ARNI-XX-DR-CE-0001			Revision	P06
SSEN Drawing Number	TBC				



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**Reference drawings**

109647-MMD-ARNI-XX-DR-CE-0003 - PERMANENT DRAINAGE LAYOUT

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Client



**Project Name**  
LT14 Western Isles HVDC

**Site Name**  
Arnish Moor

**Title**  
Foul Water Layout  
Sheet 02 of 02

Designed	Euan Walker	EW	Eng check	Anabel Ruiz Diaz	ARD
Drawn	Oscar Gomez Lopez	OGL	Coordination	Anabel Ruiz Diaz	ARD
Dwg check	Anabel Ruiz Diaz	ARD	Approved	Richard McGowan	RMcG
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Chainage	Existing Levels	Cover and Invert Levels	Manhole Depth	Pipe Dia and Slope	Pipe Length
10,000	60.597	CL: 60.282m IL: 56.717m	3.57m		
20,000	60.886				
30,000	60.075			225mmØ 1:60	82.510m
40,000	59.437				
50,000	58.786				
60,000	58.164				
70,000	57.836				
80,000	57.694	CL: 57.585m IL: 55.347m	2.24m		
90,000	57.238				
100,000	56.960				
110,000	56.732				
120,000	56.509				
130,000	56.322			225mmØ 1:175	120.988m
140,000	56.069				
150,000	55.920				
160,000	55.974				
170,000	55.879				
180,000	55.801				
190,000	55.590				
200,000	56.016	CL: 56.196m IL: 54.657m	1.54m		
210,000	55.866				
220,000	55.763				
230,000	55.638				
240,000	55.682				
250,000	57.012				
260,000	58.479				
270,000	59.677				
280,000	60.053			225mmØ 1:175	141.610m
290,000	59.034				
300,000	58.664				
310,000	59.332				
320,000	58.847				
330,000	58.337				
340,000	57.919	CL: 57.271m IL: 53.850m	3.43m		
350,000	57.042				
360,000	57.033				
370,000	57.898				
380,000	57.938				
390,000	57.809				
400,000	57.304			225mmØ 1:175	123.984m
410,000	56.607				
420,000	55.800				
430,000	54.233				
440,000	54.321				
450,000	55.344				
460,000	55.284	CL: 55.185m IL: 53.143m	2.04m		

**FW07 - EX MH 1201**  
**SCALE: H 1:1000, V 1:200. DATUM: 50.000**

