

LEGEND	
LM	LIGHTNING MAST
CSE	CABLE SEALING END
SA	SURGE ARRESTOR
VT	VOLTAGE TRANSFORMER
CT	CURRENT TRANSFORMER, SINGLE PHASE
CB	CIRCUIT BREAKER
PI	POST INSULATOR
DL/DE	LINE/EARTH DISCONNECT
DT/DEM4	TRAFO/EARTH DISCONNECT

- NOTE 1:**
THIS IS A CONCEPTUAL DESIGN FOR GUIDANCE ONLY. ALL DIMENSIONS AND REFERENCES GIVEN ARE INDICATIVE ONLY. LAYOUT TO BE FURTHER OPTIMISED DURING DETAILED DESIGN PENDING SPECIFIC EQUIPMENT SUPPLIER AND SITE DETAILS.
- NOTE 2:**
RELOCATION OR ADDITIONAL POST INSULATORS MAY BE REQUIRED, SUBJECT TO DETAIL DESIGN. NOT SHOWN FOR CLARITY.
- NOTE 3:**
VEHICULAR ACCESS TO ALL HV PLANT SHALL BE PERMITTED WITHOUT THE NEED FOR UNNECESSARY PROXIMITY OUTAGES. CONSIDERATION OF LV CABLE TRENCH LAYOUTS AND TRAFFIC-BEARING TRENCH COVERS SHALL BE CONSIDERED DURING DETAILED DESIGN.
- NOTE 4:**
LIGHTNING MAST, LV TRENCH DUCT ROUTES, MARSHALLING/INTERFACE CABINETS AND LIGHTING FIXTURES SHALL BE CONSIDERED DURING DETAIL DESIGN.
- NOTE 5:**
DIESEL GENERATOR AND STATION RURAL FEEDING ARRANGEMENT SHALL BE IN LINE WITH EIRGRID STATION AUXILIARY POWER SUPPLIES SPECIFICATION.
- NOTE 6:**
REQUIREMENT FOR SURGE ARRESTERS IN CUSTOMER COMPOUND TO BE DETERMINED BASED ON INSULATION CO-ORDINATION STUDY. REQUIREMENT AND POSITION OF CTs AND VTs IS TO BE DETERMINED BY THE CUSTOMER.
- NOTE 7:**
MINIMUM ELECTRICAL CLEARANCES SHALL COMPLY AS OUTLINED IN EIRGRID GENERAL REQUIREMENTS SPECIFICATION XDS-GFS-00-001.
- NOTE 8:**
A DETAILED ARRANGEMENT SHALL CONSIDER PROXIMITY OF THE PROPERTY BOUNDARY FENCE TO THE PALISADE FENCE, ENSURING THEY CANNOT BE USED AS A CLIMBING AID. ARRANGEMENT SHALL BE SITE SPECIFIC AND SHALL BE AGREED WITH EIRGRID DURING THE DETAILED DESIGN PHASE.
- NOTE 9:**
LOCATION AND DETAIL OF CUSTOMER TRANSFORMERS IS INDICATIVE ONLY. CUSTOMER SHALL IDENTIFY A SUITABLE LOCATION, TAKING INTO ACCOUNT CABLE LAYOUT DESIGN AND INSTALLATION CONSTRAINTS. CUSTOMER SHALL DEVELOP THEIR OWN SPECIFIC LAYOUT FOR TRANSFORMERS.
- NOTE 10 (AS ILLUSTRATED ON DRAWING):**
FOR CUSTOMER PROJECTS, THE INTERFACE KIOSKS SHALL BE INCORPORATED INTO THE FENCE.
- NOTE 11:**
THE REQUIREMENT FOR THE SECOND VT, TO BE LOCATED AT THE TRAFO SIDE OF THE CB, WILL DEPEND ON SOFT CLOSING DEVICE REQUIREMENTS AND MANUFACTURER. EIRGRID WILL ADVISE AT OFFER PROCESS PROJECT STAGE. WHERE A SECOND VT IS NOT REQUIRED FOR POW SOFT CLOSING PURPOSES IT IS NOT REQUIRED TO LEAVE SPACE.
- NOTE 12:**
REFER TO THE AUXILIARY SUPPLY FUNCTIONAL SPECIFICATION XDS-GFS-008-001 FOR LV POWER SUPPLY REQUIREMENTS. THE SECONDARY MAINS LV SUPPLY IS TO BE PROVIDED FROM THE LOCAL MV DISTRIBUTION NETWORK. THIS CAN BE VIA A POLE MOUNTED TRANSFORMER LOCATED OUTSIDE THE PALISADE FENCE OR VIA A GROUND MOUNTED TRANSFORMER IN A KIOSK LOCATED INSIDE THE PALISADE FENCE. THE PRECISE LOCATION OF THE POLE MOUNTED TRANSFORMER AND THE GROUND MOUNTED TRANSFORMER, AS THE CASE MAY BE, ARE SITE SPECIFIC AND WILL BE BY AGREEMENT WITH EIRGRID.

REV	DESC	DRAWN	CHECKED	APPROVED	DATE
04	CT & VT MOVED TO LINE SIDE OF CB	DA	AB	AG	26/07/2021
03	NEW BAY EQUIPMENT, CONTROL ROOM INTERNALS INCLUDED, MINIMUM SITE DIMENSIONS UPDATED.	DA	NK	CF	18/10/2019
02	CONTROL ROOM RESIZED, CT & VT ADDED TO CUSTOMERS COMPOUND & NOTE 3 ADDED.	JB	RB	PM	05/09/2014
01	TRAFO & LINE EARTH SWITCHES UPDATED	JB	RB	PM	09/09/2013
00	FIRST ISSUE	JB	RB	PM	22/01/2013

EirGrid plc
The Oval, 160 Shelbourne Road,
Ballsbridge, Dublin 4, Ireland

Telephone: +353 1 677 1700
Fax: +353 1 661 5375
Email: info@eirgrid.com
Web: www.eirgrid.com

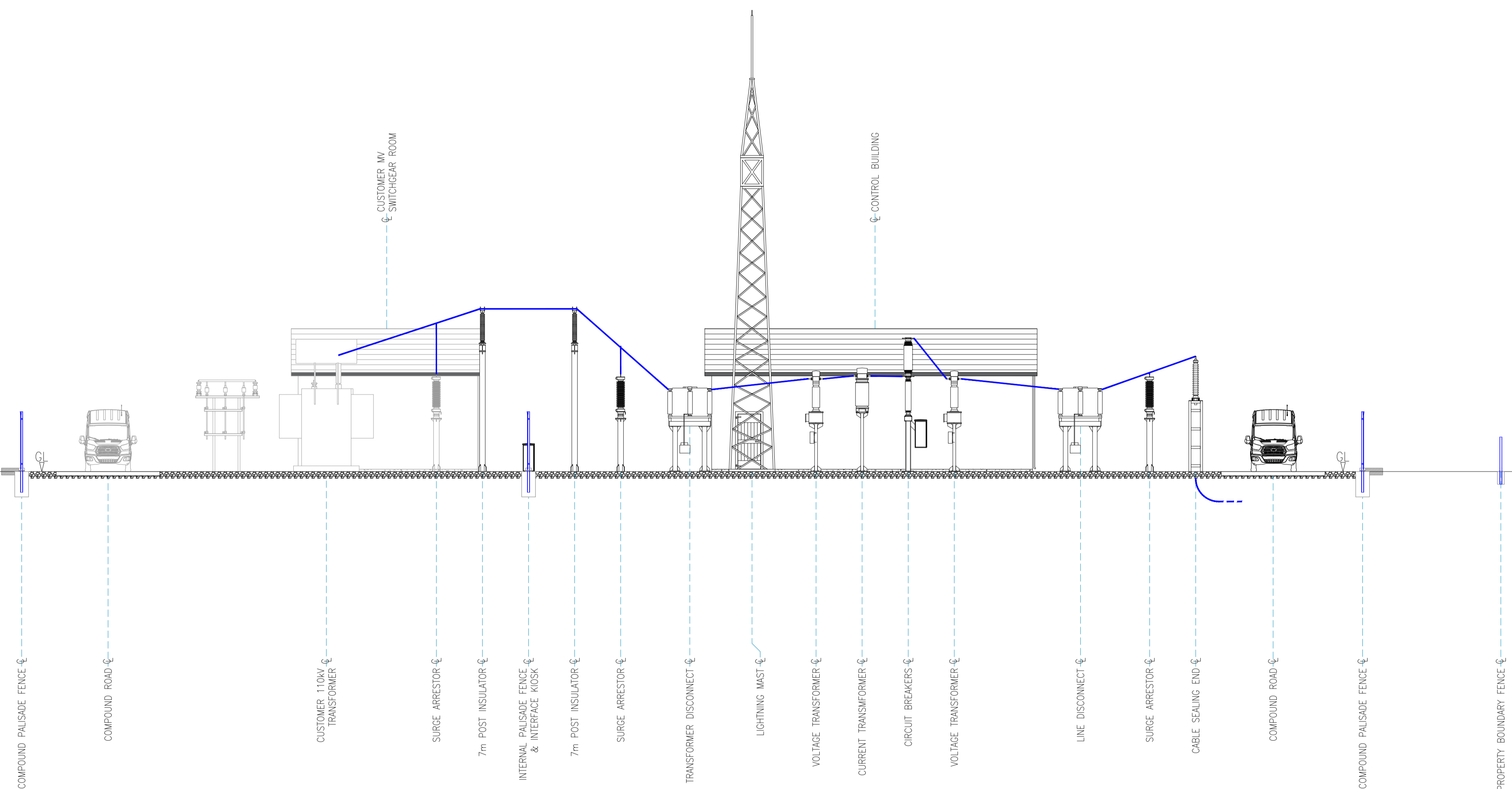
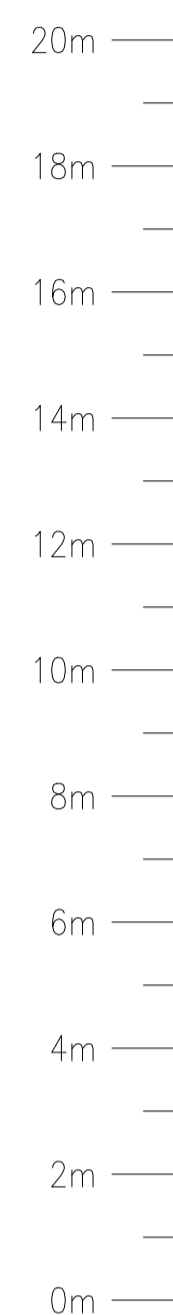
PROJECT
110kV STATION DESIGN STANDARD
AIS TAIL STATION

DRAWING TITLE
SINGLE TRANSFORMER BAY TAIL STATION
LAYOUT DRAWING

COPYRIGHT © EirGrid plc
All rights reserved. No part of this work may be modified or reproduced or copied in any form or by any means – graphic, electronic or mechanical, including photocopying, recording, taping or information and retrieval system, or used for any purpose other than its designated purpose, without the written permission of EirGrid plc.

No of Sheets	02	SIZE	A1	SCALE	N/A
DRAWING NUMBER	XDN-LAY-ELV-STND-H-003			SHEET	REV
				01	04

HEIGHT



SECTION A

REV	DESC.	DRAWN	CHECKED	APPROVED	DATE
04	CT & VT MOVED TO LINE SIDE OF CB	DA	AB	AG	26/07/2021
03	NEW BAY EQUIPMENT, CONTROL ROOM INTERNALS INCLUDED, MINIMUM SITE DIMENSIONS UPDATED.	DA	NK	CF	18/10/2019
02	CONTROL ROOM RESIZED, CT & VT ADDED TO CUSTOMERS COMPOUND & NOTE 3 ADDED.	JB	RB	PM	05/09/2014
01	TRAF0 & LINE EARTH SWITCHES UPDATED	JB	RB	PM	09/09/2013
00	FIRST ISSUE	JB	RB	PM	22/01/2013

EIRGRID EirGrid plc
 The Oval, 160 Shelbourne Road,
 Ballsbridge, Dublin 4, Ireland
 Telephone: +353 1 677 1700
 Fax: +353 1 661 5375
 Email: info@eirgrid.com
 Web: www.eirgrid.com

PROJECT: 110kV STATION DESIGN STANDARD AIS TAIL STATION
 DRAWING TITLE: SINGLE TRANSFORMER BAY TAIL STATION ELEVATION DRAWING

COPYRIGHT © EirGrid plc
 All rights reserved. No part of this work may be modified or reproduced or copied in any form or by any means – graphic, electronic or mechanical, including photocopying, recording, taping or information and retrieval system, or used for any purpose other than its designated purpose, without the written permission of EirGrid plc.

No of Sheets	02	SIZE	A1	SCALE	N/A
DRAWING NUMBER	XDN-LAY-ELV-STND-H-003	SHEET	02	REV	04