



White Hill Wind Farm Electricity
Substation & Electricity Line

Environmental Impact Assessment Report

Annex 2.2: Alternative Electricity Substation Designs

White Hill Wind Limited

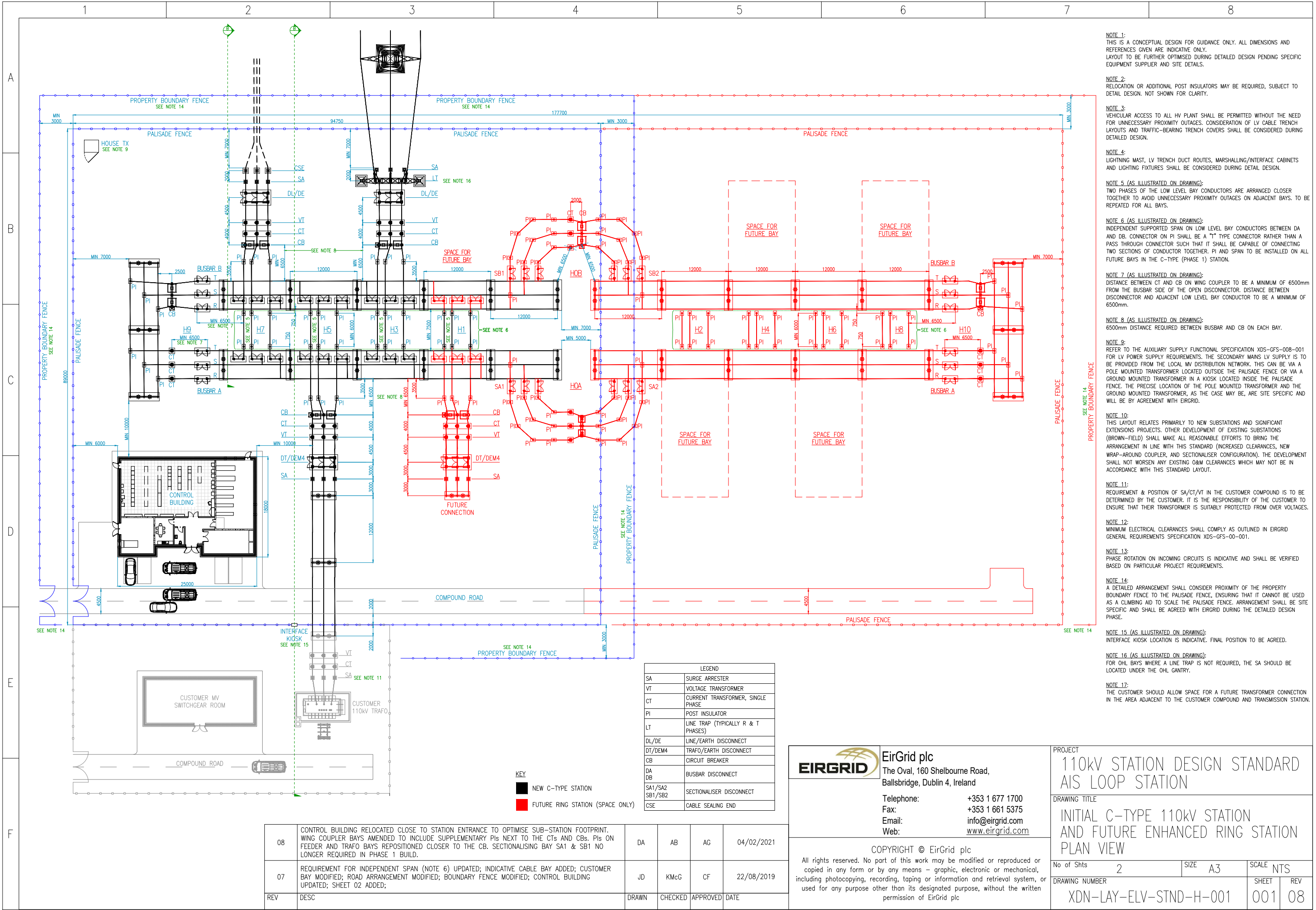
Galetech Energy Services

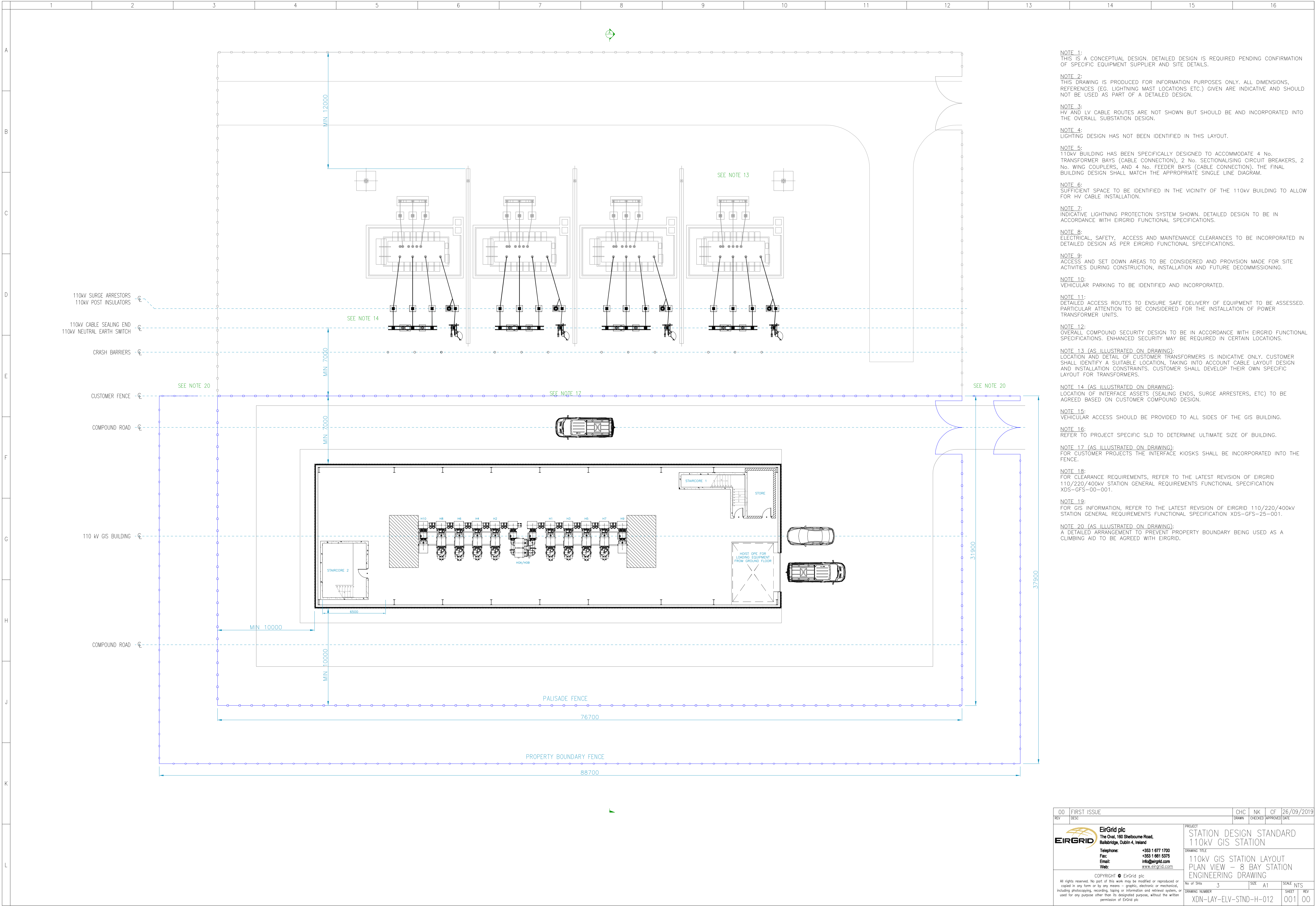
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NOTE 1:
THIS IS A CONCEPTUAL DESIGN. DETAILED DESIGN IS REQUIRED PENDING CONFIRMATION OF SPECIFIC EQUIPMENT SUPPLIER AND SITE DETAILS.

NOTE 2:
THIS DRAWING IS PRODUCED FOR INFORMATION PURPOSES ONLY. ALL DIMENSIONS, REFERENCES (EG. LIGHTNING MAST LOCATIONS ETC.) GIVEN ARE INDICATIVE AND SHOULD NOT BE USED AS PART OF A DETAILED DESIGN.

NOTE 3:
HV AND LV CABLE ROUTES ARE NOT SHOWN BUT SHOULD BE AND INCORPORATED INTO THE OVERALL SUBSTATION DESIGN.

NOTE 4:
LIGHTING DESIGN HAS NOT BEEN IDENTIFIED IN THIS LAYOUT.

NOTE 5:
110kV BUILDING HAS BEEN SPECIFICALLY DESIGNED TO ACCOMMODATE 4 No. TRANSFORMER BAYS (CABLE CONNECTION), 2 No. SECTIONALISING CIRCUIT BREAKERS, 2 No. WING COUPLERS, AND 4 No. FEEDER BAYS (CABLE CONNECTION). THE FINAL BUILDING DESIGN SHALL MATCH THE APPROPRIATE SINGLE LINE DIAGRAM.

NOTE 6:
SUFFICIENT SPACE TO BE IDENTIFIED IN THE VICINITY OF THE 110kV BUILDING TO ALLOW FOR HV CABLE INSTALLATION.

NOTE 7:
INDICATIVE LIGHTNING PROTECTION SYSTEM SHOWN. DETAILED DESIGN TO BE IN ACCORDANCE WITH EIRGRID FUNCTIONAL SPECIFICATIONS.

NOTE 8:
ELECTRICAL, SAFETY, ACCESS AND MAINTENANCE CLEARANCES TO BE INCORPORATED IN DETAILED DESIGN AS PER EIRGRID FUNCTIONAL SPECIFICATIONS.

NOTE 9:
ACCESS AND SET DOWN AREAS TO BE CONSIDERED AND PROVISION MADE FOR SITE ACTIVITIES DURING CONSTRUCTION, INSTALLATION AND FUTURE DECOMMISSIONING.

NOTE 10:
VEHICULAR PARKING TO BE IDENTIFIED AND INCORPORATED.

NOTE 11:
DETAILED ACCESS ROUTES TO ENSURE SAFE DELIVERY OF EQUIPMENT TO BE ASSESSED. PARTICULAR ATTENTION TO BE CONSIDERED FOR THE INSTALLATION OF POWER TRANSFORMER UNITS.

NOTE 12:
OVERALL COMPOUND SECURITY DESIGN TO BE IN ACCORDANCE WITH EIRGRID FUNCTIONAL SPECIFICATIONS. ENHANCED SECURITY MAY BE REQUIRED IN CERTAIN LOCATIONS.

NOTE 13 (AS ILLUSTRATED ON DRAWING):
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 14 (AS ILLUSTRATED ON DRAWING):
LOCATION OF INTERFACE ASSETS (SEALING ENDS, SURGE ARRESTERS, ETC) TO BE AGREED BASED ON CUSTOMER COMPOUND DESIGN.

NOTE 15:
VEHICULAR ACCESS SHOULD BE PROVIDED TO ALL SIDES OF THE GIS BUILDING.


NOTE 16:
REFER TO PROJECT SPECIFIC SLD TO DETERMINE ULTIMATE SIZE OF BUILDING.

NOTE 17 (AS ILLUSTRATED ON DRAWING):
FOR CUSTOMER PROJECTS THE INTERFACE KIOSKS SHALL BE INCORPORATED INTO THE FENCE.

NOTE 18:
FOR CLEARANCE REQUIREMENTS, REFER TO THE LATEST REVISION OF EIRGRID 110/220/400kV STATION GENERAL REQUIREMENTS FUNCTIONAL SPECIFICATION XDS-GFS-00-001.

NOTE 19:
FOR GIS INFORMATION, REFER TO THE LATEST REVISION OF EIRGRID 110/220/400kV STATION GENERAL REQUIREMENTS FUNCTIONAL SPECIFICATION XDS-GFS-25-001.

NOTE 20 (AS ILLUSTRATED ON DRAWING):
A DETAILED ARRANGEMENT TO PREVENT PROPERTY BOUNDARY BEING USED AS A CLIMBING AID TO BE AGREED WITH EIRGRID.

00 FIRST ISSUE				CHC	NK	CF	26/09/2019
REV	DESC			DRAWN	CHECKED	APPROVED	DATE
 EirGrid plc The Oval, 160 Shelbourne Road, Bellebridge, Dublin 4, Ireland Telephone: +353 1 677 1700 Fax: +353 1 681 5375 Email: info@eirgrid.com Web: www.eirgrid.com				PROJECT STATION DESIGN STANDARD 110kV GIS STATION			
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.				DRAWING TITLE 110kV GIS STATION LAYOUT PLAN VIEW – 8 BAY STATION ENGINEERING DRAWING			
DRAWING NUMBER XDN-LAY-ELV-STND-H-012		No of Sheets 3		SIZE A1		SCALE NTS	
		SHEET 001		REV 00			

