



LEGEND

SA	SURGE ARRESTER
VT	VOLTAGE TRANSFORMER
CT	CURRENT TRANSFORMER, SINGLE PHASE
PI	POST INSULATOR
LT	LINE TRAP (TYPICALLY R & T PHASES)
DL/DE	LINE/EARTH DISCONNECT
DT/DEM4	TRAFU/EARTH DISCONNECT
CB	CIRCUIT BREAKER

- NEW SINGLE BAY STATION
- FUTURE C-TYPE STATION (SPACE ONLY)
- FUTURE RING STATION (SPACE ONLY)

NOTE 1: THE CURRENT LAYOUT ARRANGEMENT HAS BEEN DESIGNED TO ENABLE THIS STATION TO BE EXTENDED IN THE FUTURE TO A C-TYPE OR RING TYPE BUSBAR STATION WHILE MINIMISING OUTAGE REQUIREMENTS.

NOTE 2: 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 3: ADDITIONAL POST INSULATORS MAY BE REQUIRED, SUBJECT TO DETAILED DESIGN. NOT SHOWN FOR CLARITY.

NOTE 4: CT AND VT UNITS COULD BE COMBINED INTO CT/VT UNITS IF BURDEN AND CLASS CAN BE MET. CUSTOMER TO ADVISE EIRGRID.

NOTE 5: VEHICULAR ACCESS TO ALL HV PLANT SHALL BE PERMITTED WITHOUT THE NEED FOR UNNECESSARY PROXIMITY OUTAGES. CONSIDERATION OF LV CABLE TRENCH LAYOUTS AND TRAFFIC-ABLE TRENCH COVERS SHALL BE CONSIDERED DURING DETAILED DESIGN.

NOTE 6: LIGHTNING MAST, LV TRENCH DUCT ROUTES, MARSHALLING/INTERFACE CABINETS AND LIGHTING FIXTURES SHALL BE CONSIDERED DURING DETAILED DESIGN.

NOTE 7: VT POSITION WILL DEPEND ON SOFT CLOSING DEVICE REQUIREMENTS. EIRGRID WILL ADVISE AT OFFER PROCESS PROJECT STAGE.

NOTE 8: OHL OR CABLE CONNECTION IS PROJECT RELATED AND IS DISCLOSED AT OFFER PROCESS STAGE.

NOTE 9: STATION LV AC SUPPLY ARRANGEMENT SHALL BE IN LINE WITH EIRGRID STATION AUXILIARY POWER SUPPLY SPECIFICATION.

PROJECT
110kV STATION DESIGN STANDARD
AIS STATION

DRAWING TITLE
SINGLE BAY STATION
EXTENDABLE TO C-TYPE STATION

EIRGRID
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

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No of Sheets	1	SIZE	A3	SCALE	NTS	
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