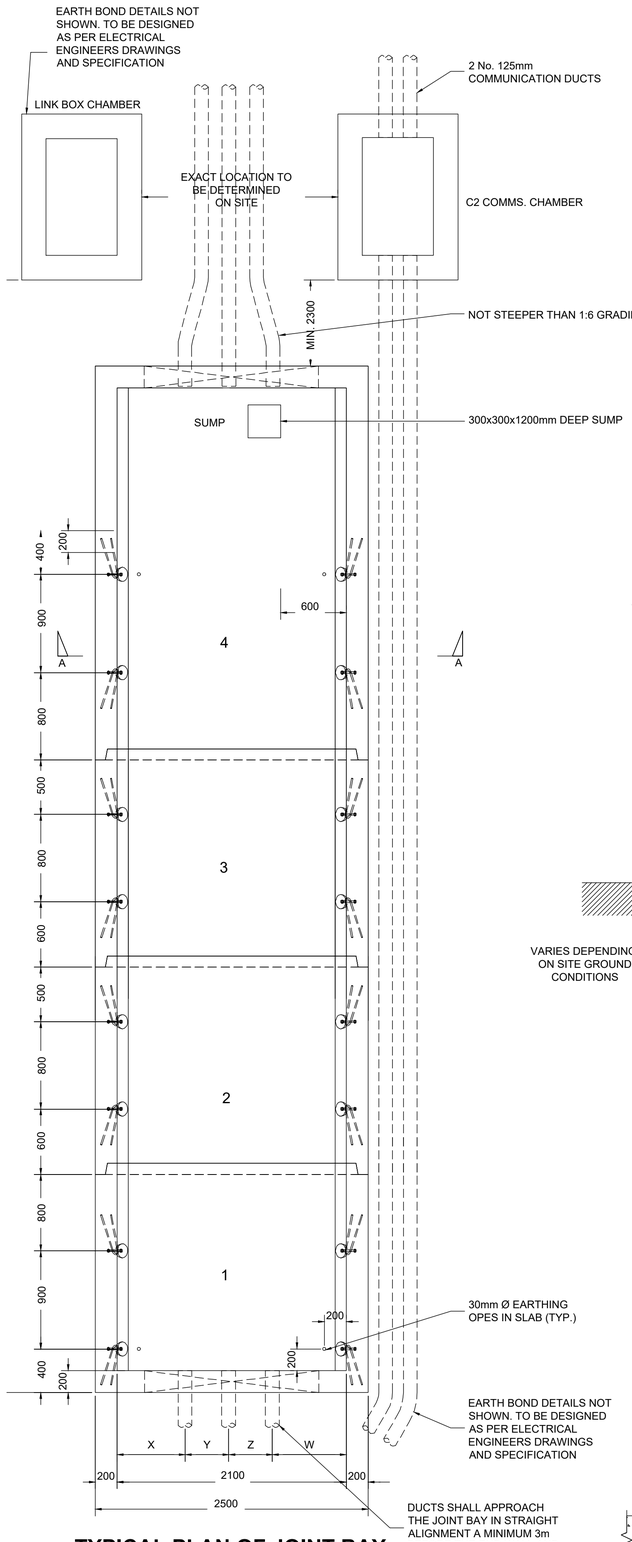
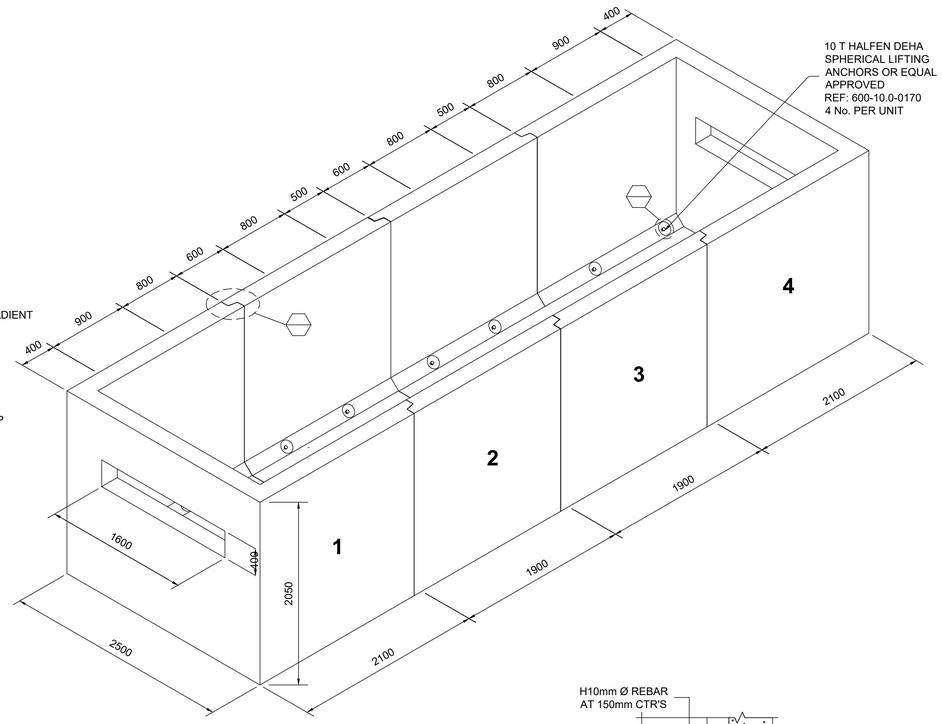


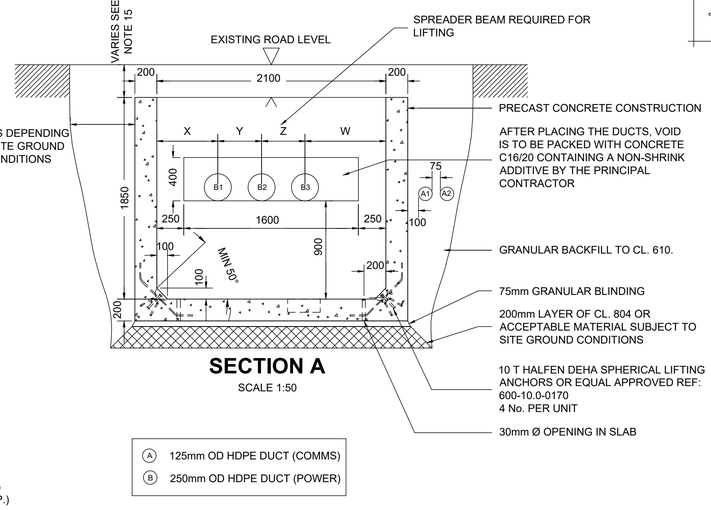
TYPICAL PLAN OF JOINT BAY

SCALE 1:50



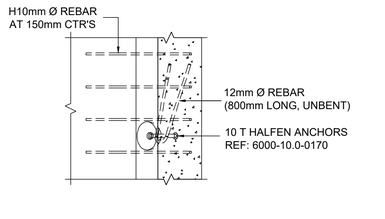
ISOMETRIC: JOINT BAY ARRANGEMENT

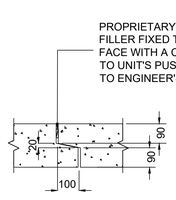
NOT TO SCALE



SECTION A

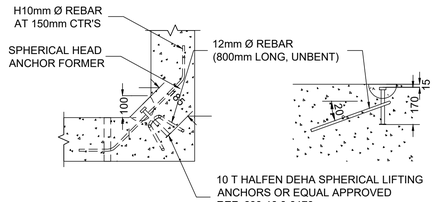
SCALE 1:50





DETAIL 1: SOCKET AND SPIGOT DETAIL (WALL AND FLOOR)

SCALE 1:25



DETAIL 2: LIFTING EYE DETAIL

SCALE 1:25

NOTES:

1. ALL PRECAST CONCRETE ELEMENTS TO BE MANUFACTURED TO B.S. EN 13369;2004 "COMMON RULES FOR PRECAST CONCRETE PRODUCTS"
2. LIFTING INSERTS TO BE DESIGNED & INSTALLED TO PD GEN/TR 15728:2008 "DESIGN AND USE OF INSERTS FOR LIFTING AND HANDLING OR PRECAST CONCRETE ELEMENTS"
3. SPECIFIED LIFTING INSERTS HAVE A S.W.L. OF 10 TONNE.
4. LOCATION AND SPECIFICATION OF LIFTING INSERTS ARE ASSUMED TO FACILITATE DEMOULDING AND HANDLING IN PRECAST MANUFACTURING FACTORY. IT IS THE RESPONSIBILITY OF THE CUSTOMER TO NOTIFY THE OVERSEEING ORGANISATION OR REPRESENTATIVE AS APPLICABLE. IF THESE ARE UNSUITABLE FOR THEIR MANUFACTURING METHODOLOGY THE OVERSEEING ORGANISATION IS TO BE INFORMED OF ANY ALTERNATIVE LIFTING LOCATIONS FOR FACTORY HANDLING & DEMOULDING.
5. CONCRETE TO HAVE A MINIMUM STRENGTH OF 30 N/mm² PRIOR TO HANDLING OF DEMOULDING.
6. CUSTOMER IS TO ENSURE THAT A METHOD STATEMENT AND RISK ASSESSMENT, INCLUDING A LIFTING PLAN IS PRODUCED FOR INSTALLATION AND ARE AVAILABLE TO AUTHORISING AUTHORITY FOR A REVIEW IF REQUESTED. LIFTING PLAN TO INCORPORATE REQUIREMENTS OF LIFTING INSERTS AND LIFTNG LOOP EYES.
7. A MINIMUM LIFTING SLING ANGLE OF 50° TO THE HORIZONTAL IS REQUIRED.
8. A LIFTING SYSTEM WHICH ENSURES ALL LIFTING POINTS TAKE EQUAL LOAD IS REQUIRED.
9. HALFEN DEHA SPHERICAL LIFTING ANCHORS OR EQUAL APPROVED TO BE USED AS SPECIFIED. ANY DEVIATION FROM THIS MUST BE NOTIFIED TO AUTHORISING AUTHORITY BY THE CUSTOMER. LIFTING INSERTS TO BE INSTALLED AS PER MANUFACTURER'S GUIDELINES AND IN ACCORDANCE WITH WITH PD CEN/TR 15728:2008.
10. FORMWORK FOR PRECASTING TO BE A MINIMUM STANDARD OF VARNISHED WOODEN MOULD WITH PLANED BOARDS.
11. COVER TO REINFORCEMENT TO BE 40mm.
12. CONCRETE TO BE GRADE C30/47 AS SPECIFIED IN TABLE 1.
13. ALL CONCRETE TO BE IN ACCORDANCE WITH I.S EN 206-1 2013 WITH THE MIX DESIGNS SHOWN IN TABLE 1.
14. FOR 8.0m JOINT BAY INSERT 2 No. ADDITIONAL PRECAST SECTION 2.
15. THE DEPTH FROM GROUND/ROAD LEVEL TO THE TOP OF THE CONCRETE WALL SHALL BE:

-500mm - IN CULTIVATED FIELDS AND GRASSED LANDS
-300mm - IN PAVED ROADS AND GRASS VERGES
-350mm - IN PAVED CITY ROADS AND GRASSED VERGES

16. LINK BOX CHAMBER TO BE POSITIONED AS PER PLAN DRAWINGS OR AT EDGE OF THE ROAD.
17. ALLOWABLE BEARING PRESSURE TO BE AT LEAST 185kPa.
18. TABLE 1 IS NOT APPLICABLE FOR HIGHLY AGGRESSIVE ENVIRONMENTS. GI TO CONFIRM GROUND CONDITIONS. CONSULT WITH AUTHORISING AUTHORITY FOR BESPOKE DESIGN IF REQUIRED.
19. JOINT BAY TO BE UNIFORMLY BACKFILLED IN LAYERS NOT EXCEEDING 30mm THICK.
20. WHERE JOINT BAY IS TO BE INSTALLED ADJACENT TO TRAFFICKED LANE OR OFF ROAD TRACK, A 1m WIDE LATERAL SAFETY ZONE IS TO BE PROVIDED TO SATISFY DESIGN LOADING ASSUMPTIONS.
21. PRINCIPAL CONTRACTOR IS RESPONSIBLE FOR ALL TRAFFIC MANAGEMENT INCLUDING WHERE NECESSARY SAFETY BARRIERS AS PER D.R.A
22. LINK BOX CHAMBER AND C2 COMM CHAMBER FINAL POSITIONING TO BE AGREED WITH THE OVERSEEING ORGANISATION REPRESENTATIVE PRIOR TO INSTALLATION
23. CONTRACTOR TO ENSURE ADEQUATE BEARING CAPACITY VIA PLATE LOADS TESTS IS ESTABLISHED PRIOR TO INSTALLATION OF ALL C2 AND JOINT BAYS. ANY SUBGRADE GROUND STABILISATION TO BE ACHIEVED VIA REMOVAL OF SOFT SPOTS AND PLACEMENT OF CONSOLIDATED AND COMPACTED MIN. 250mm THICK 6F2 LAID ON A LAYER OF TRI-AXIAL GEOGRID OR ST4 CONCRETE BACKFILL

TABLE 1

CONCRETE SPECIFICATION TO IS EN 206-1		
	BLINDING & MASS CONCRETE, DRAINAGE PIPE & MANHOLE SURROUNDINGS	FOUNDATION S & WALLS
EXPOSURE CLASS	X0	XC2, XA2
MN. CEMENT CONTENT (kg/m³)	240	340
MAX. WATER/CEMEN T RATIO	-	0.500
CEMENT TYPE TO I.S. EN 197-1	CEM 1 N	CEM 1 N
CHLORIDE CONTENT CLASS	Cl. 1.0	Cl. 0.40
MAX AGGREGATE	10	20
MIN. COVER (mm)	-	40
COMPRESSIVE STRENGTH CLASS*	C16 / 20	C30 / 37

NOTES
1. *C16 / 20 TO BE READ AS FOLLOWS:
16: REFERS TO MIN CHARACTERISTIC CYLINDER STRENGTH (N/mm²)
20:REFERS TO MIN CHARACTERISTIC CUBE STRENGTH (N/mm²)
2. DESIGN WORKING LIFE TO BE 50 YEARS MIN.

TABLE 2
DUCT SEPARATION

220kV	X	Y	Z	W
	375	250	250	375

Rev	Date	By	Chkd	Appd
PL1	22.03.21	SB	SO'S	MW

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Client
Sure Partners Limited

Design Consultant
AECOM

Project Title
Arklow Bank Wind Park
Phase 2
Onshore Grid Infrastructure

Drawing Title
Typical Cable Joint Bay Details

Scale at A1: As Shown
Role: Civil
Suitability: Planning
Arup Job No: 271715-00
Rev: PL1
Name: ONS-GEN-002