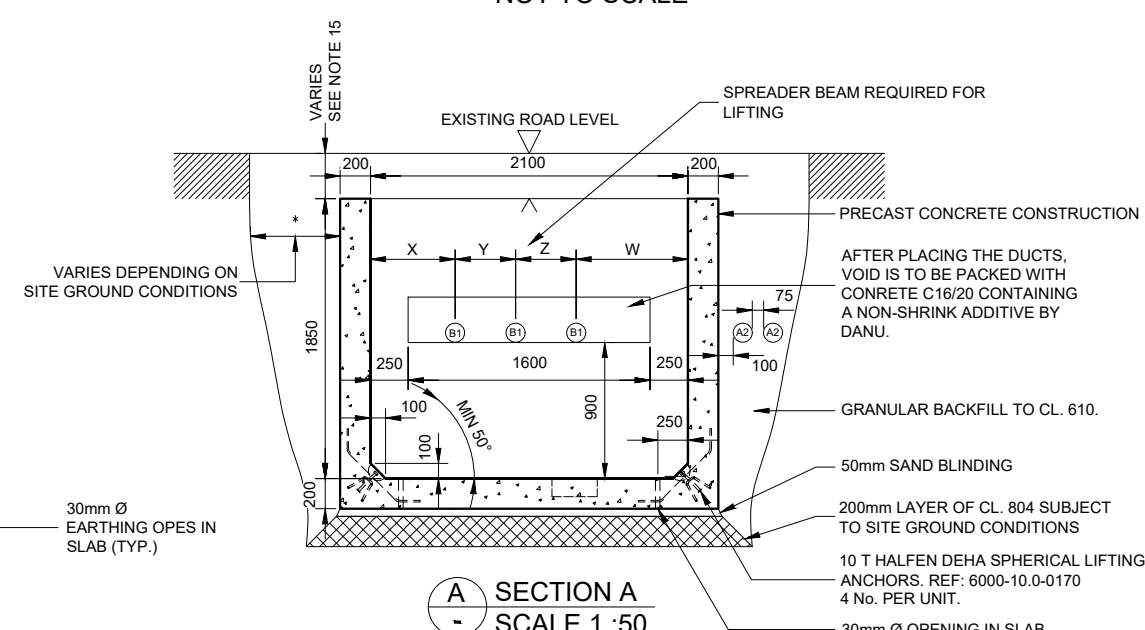


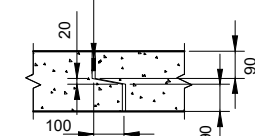
DUCTS SHALL APPROACH THE JOINT BAY IN STRAIGHT ALIGNMENT A MINIMUM 3M BEFORE THE END WALL AND FINISH FLUSH INSIDE THE WALL.



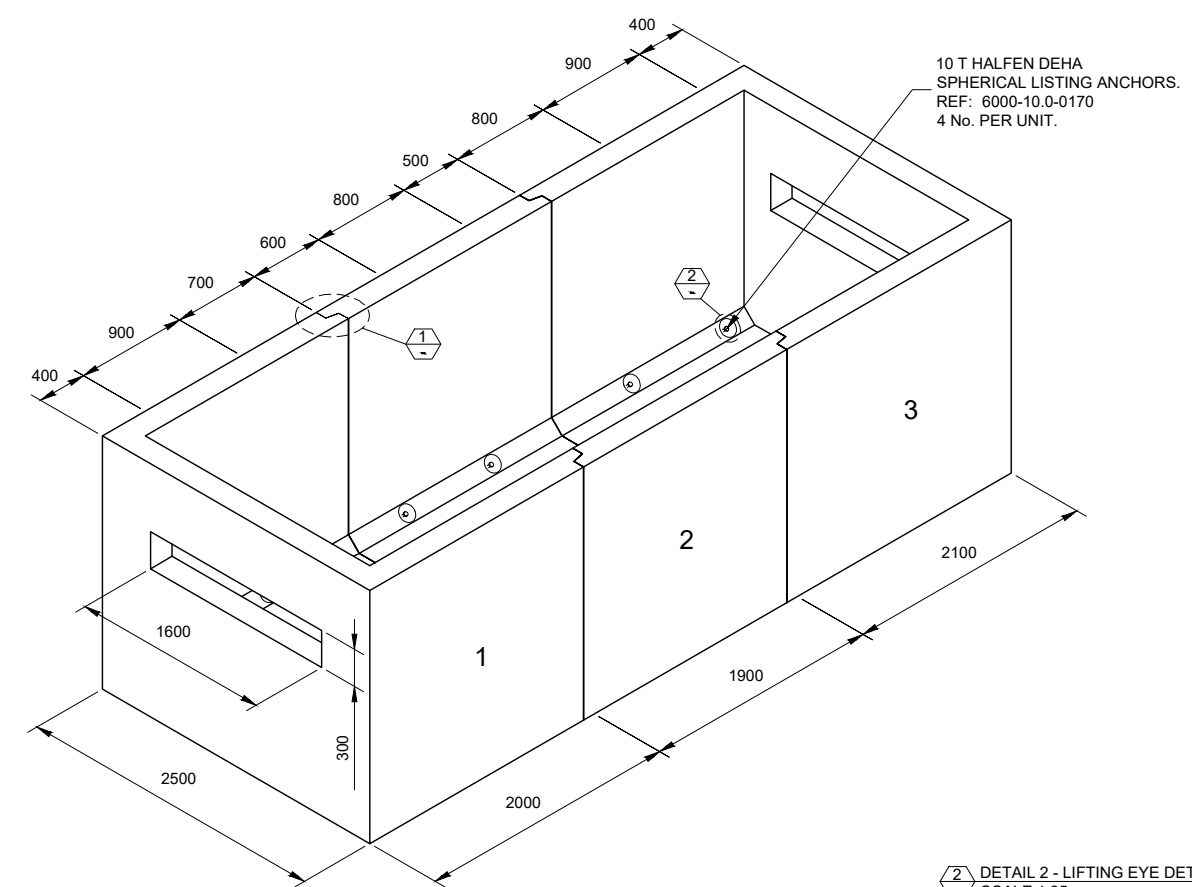
A SECTION A
SCALE 1 :50

- (A2) 125mm OD HOPE DUCT (COMMS)
(B1) 125/200mm/250mm OD HOPE DUCT (POWER)

PROPRIETARY INSERT COMPRESSIBLE FILLER
FIXED TO DRY CLEAN SOCKET FACE WITH A
CONTACT ADHESIVE PRIOR TO UNIT'S PUSHED
TOGETHER. SUBJECT TO ENGINEER'S
APPROVAL



1 DETAIL 1 - SOCKET AND SPIGOT DETAIL (WALL & FLOOR)
SCALE 1:25



2 DETAIL 2 - LIFTING EYE DETAIL
SCALE 1:25

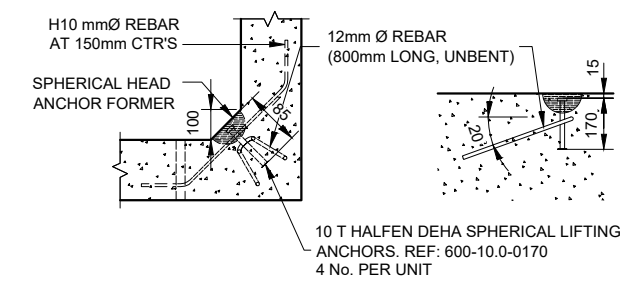
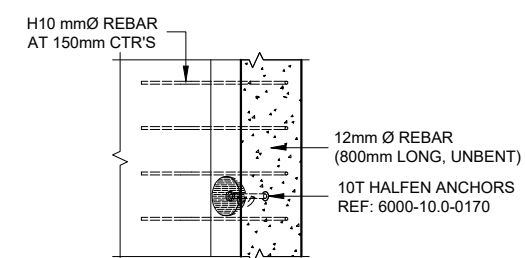


TABLE 1

CONCRETE SPECIFICATION TO I.S. EN 206-1		
	BLINDING & MASS CONCRETE, DRAINAGE PIPE & MANHOLE SURROUNDINGS	FOUNDATIONS & WALLS
EXPOSURE CLASS	X0	XC2, XA2
MIN. CEMENT CONTENT (kg/m ³)	240	340
MAX. WATER/CEMENT RATIO	-	0.50
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 (CMin) (mm)	-	40
*COMPRESSIVE STRENGTH CLASS	C16/20	C30/37

NOTES:

- *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 MINIMUM.

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 CEN/TR 15728:2008 "DESIGN AND USE OF INSERTS FOR LIFTING AND HANDLING OF 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 DANU IF THESE ARE UNSUITABLE FOR THEIR MANUFACTURING METHODOLOGY. DANU 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 DANU FOR REVIEW IF REQUESTED. LIFTING PLAN TO INCORPORATE REQUIREMENTS OF LIFTING INSERTS AND LIFTING 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 ON AN EQUAL LOAD IS REQUIRED.
9. HALFEN DEHA SPHERICAL LIFTING ANCHORS TO BE USED AS SPECIFIED. ANY DEVIATION FROM THIS MUST BE NOTIFIED TO DANU BY THE CUSTOMER. LIFTING INSERTS TO BE INSTALLED AS PER MANUFACTURER'S GUIDELINES AND IN ACCORDANCE WITH PD CEN/TR 15728:2008.
10. FORMWORK FOR PRECASTING TO BE OF A MINIMUM STANDARD OF VARNISHED WOODEN MOULD WITH PLANED BOARDS.
11. COVER TO REINFORCEMENT TO BE 40mm.
12. CONCRETE TO BE GRADE C30/37 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 7.9m JOINT BAY INSERT 1 No. ADDITIONAL PRECAST SECTION 2.
FOR 9.8m 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:
 - A. 500mm - IN CULTIVATED FIELDS AND GRASSED LANDS
 - B. 300mm - IN PAVED ROADS AND GRASS VERGES
 - C. 350mm - IN PAVED CITY ROADS AND GRASSED VERGES.
16. LINK BOX CHAMBER TO BE POSITIONED AT THE EDGE OF OR OFF ROAD.
17. ALLOWABLE BEARING PRESSURE TO BE AT LEAST 185kPa
18. FOR HIGHLY AGGRESSIVE ENVIRONMENTS, TABLE 1 IS NOT APPLICABLE. CONSULT WITH DANU FOR BESPOKE DESIGN.
19. JOINT BAY TO BE UNIFORMLY BACKFILLED IN LAYERS NOT EXCEEDING 300mm THICK.
20. WHERE JOINT BAY IS TO BE INSTALLED ADJACENT TO TRAFFICKED LANE, A 1 m WIDE LATERAL SAFETY ZONE IS TO BE PROVIDED TO SATISFY DESIGN LOADING ASSUMPTIONS.
21. CUSTOMER 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 DANU PRIOR TO INSTALLATION.

TABLE 2 - DUCT SEPERATION

	X	Y	Z	W
110kw	560	400	400	740
220Kw	375	675	675	375

ENGINEER		CLIENT	
 Danu Energy CONSULTING www.danuenergy.ie			
PROJECT			
DERRYNADARRAGH WIND FARM			
TITLE			
JOINT BAY GENERAL ARRANGEMENT			
SCALE various scales		STATUS FOR INFORMATION	
PAPER SIZE A3	DRAWN BY A. ZOLOTAROV	CHECKED AND APPROVED J. SHANAHAN	
PROJECT PHASE PLANNING	DATE 04/09/2025	DATE 04/09/2025	
DRAWING NUMBER		REVISION	
DANU-DAR-SK001		V2	