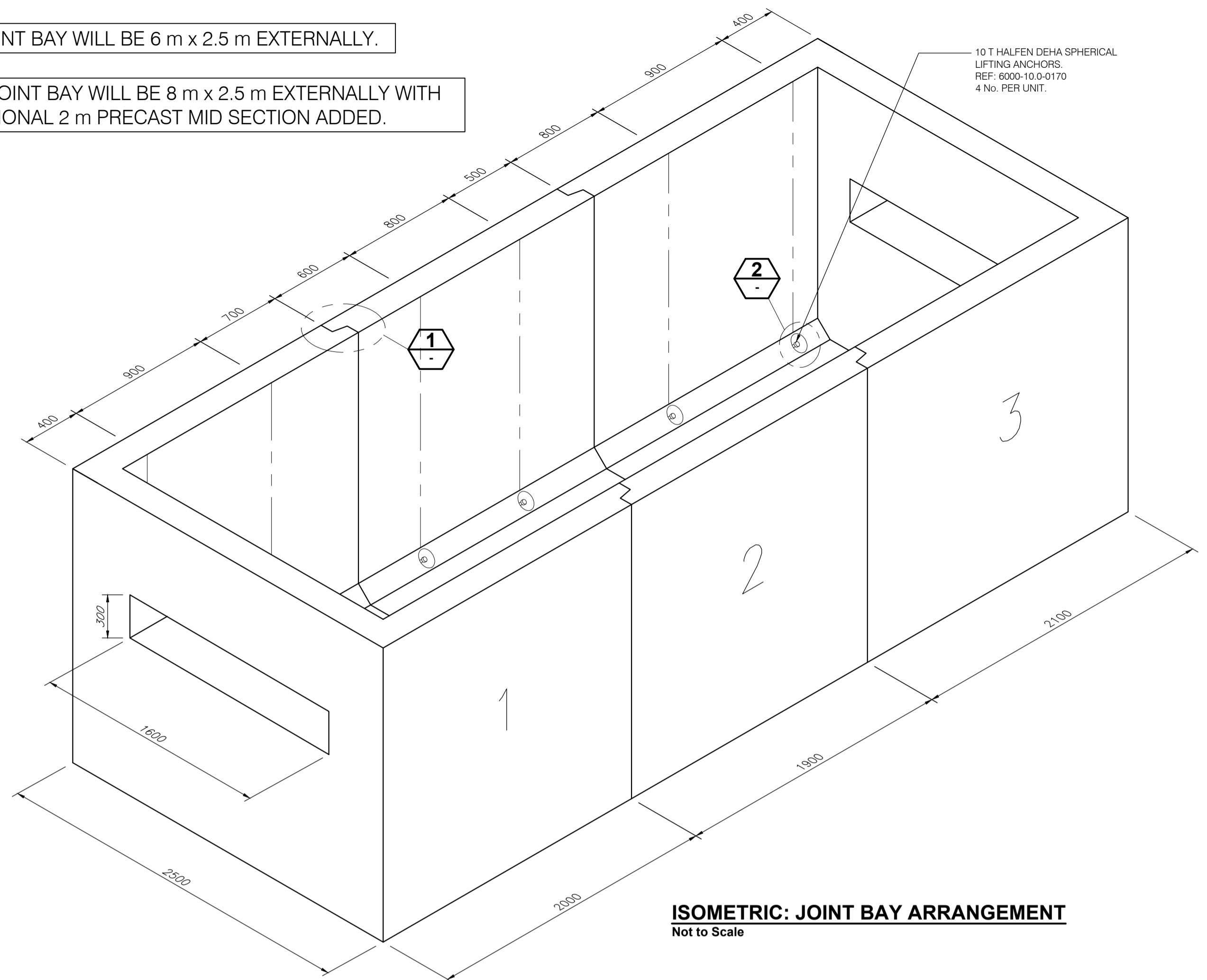


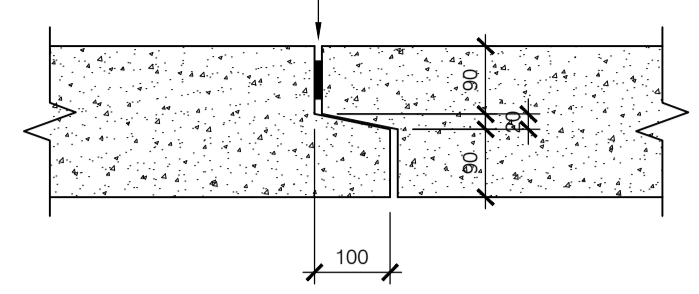
110 kV JOINT BAY WILL BE 6 m x 2.5 m EXTERNALLY.

* 220 kV JOINT BAY WILL BE 8 m x 2.5 m EXTERNALLY WITH AN ADDITIONAL 2 m PRECAST MID SECTION ADDED.



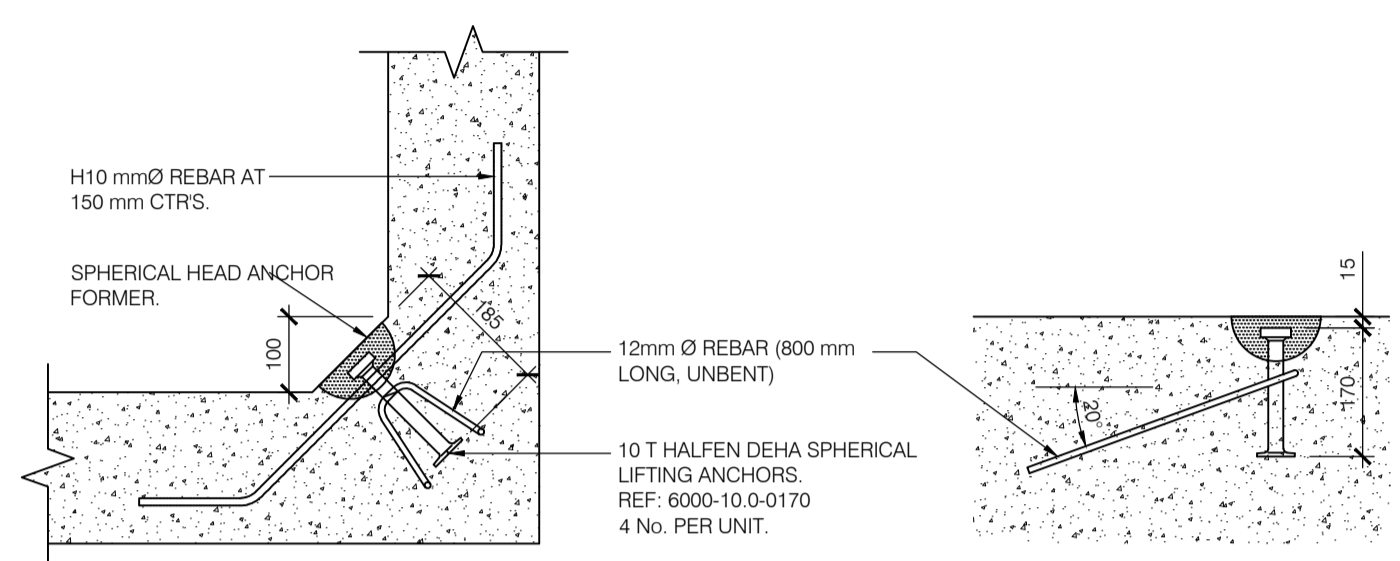
ISOMETRIC: JOINT BAY ARRANGEMENT
Not to Scale

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



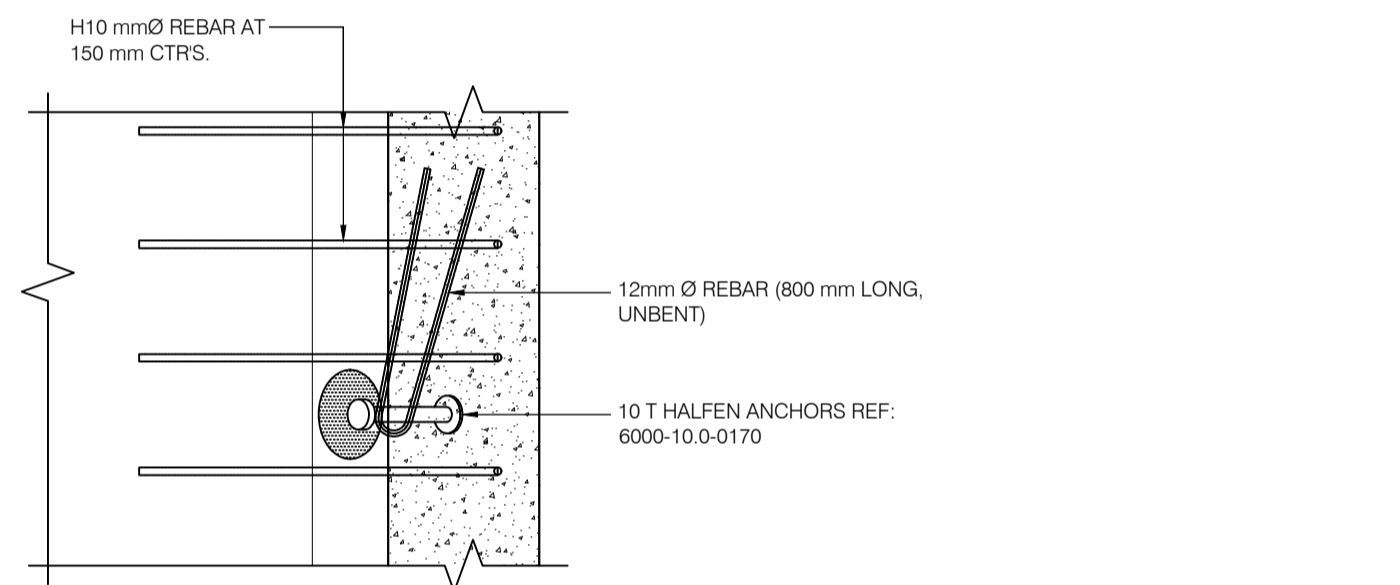
DETAIL 1
SCALE 1:10

TYPICAL SOCKET & SPIGOT DETAIL IN WALL & FLOOR



LIFTING EYE SECTION VIEW
SCALE: 1:10

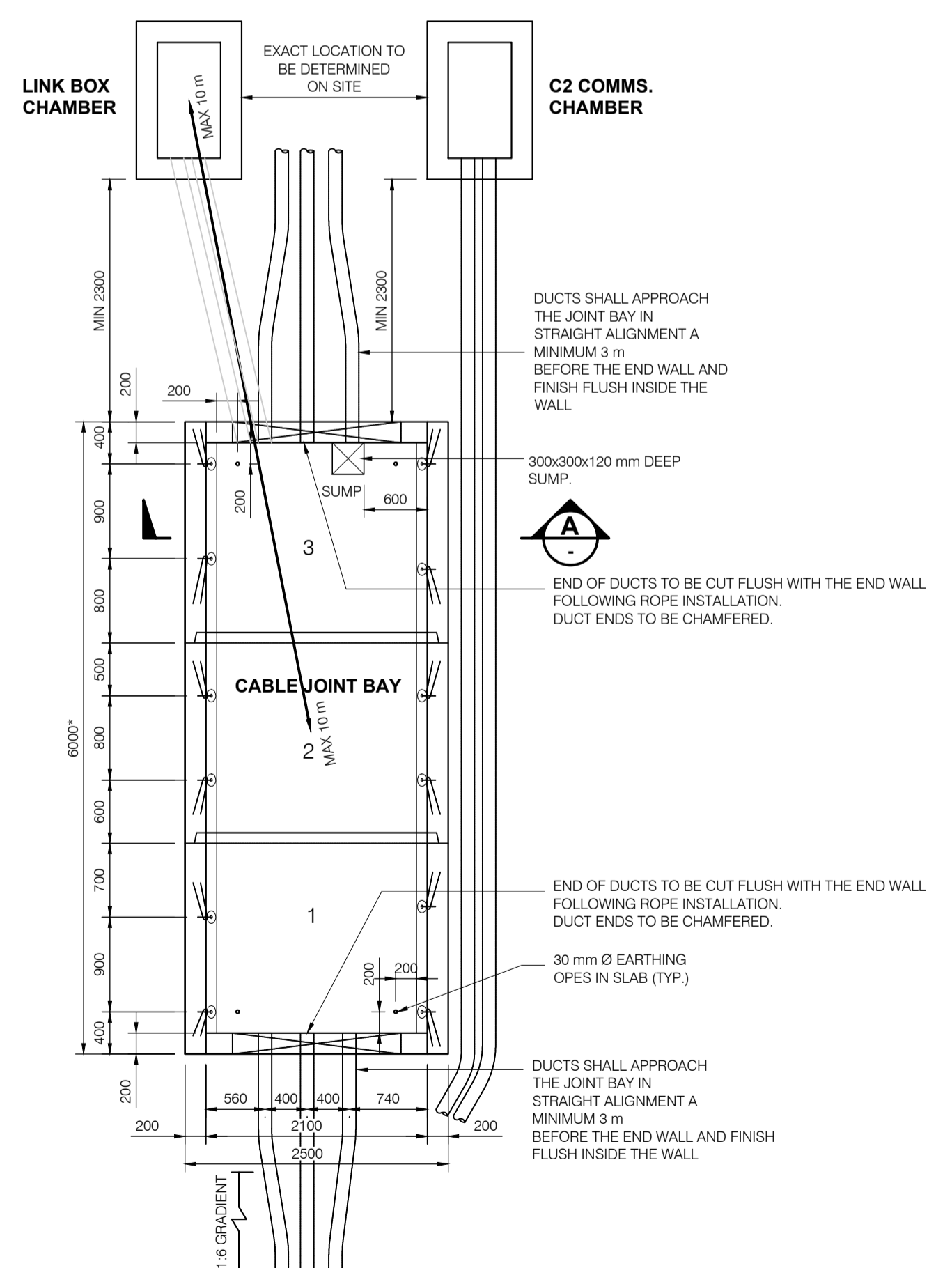
LIFTING EYE SECTION VIEW
SCALE: 1:10



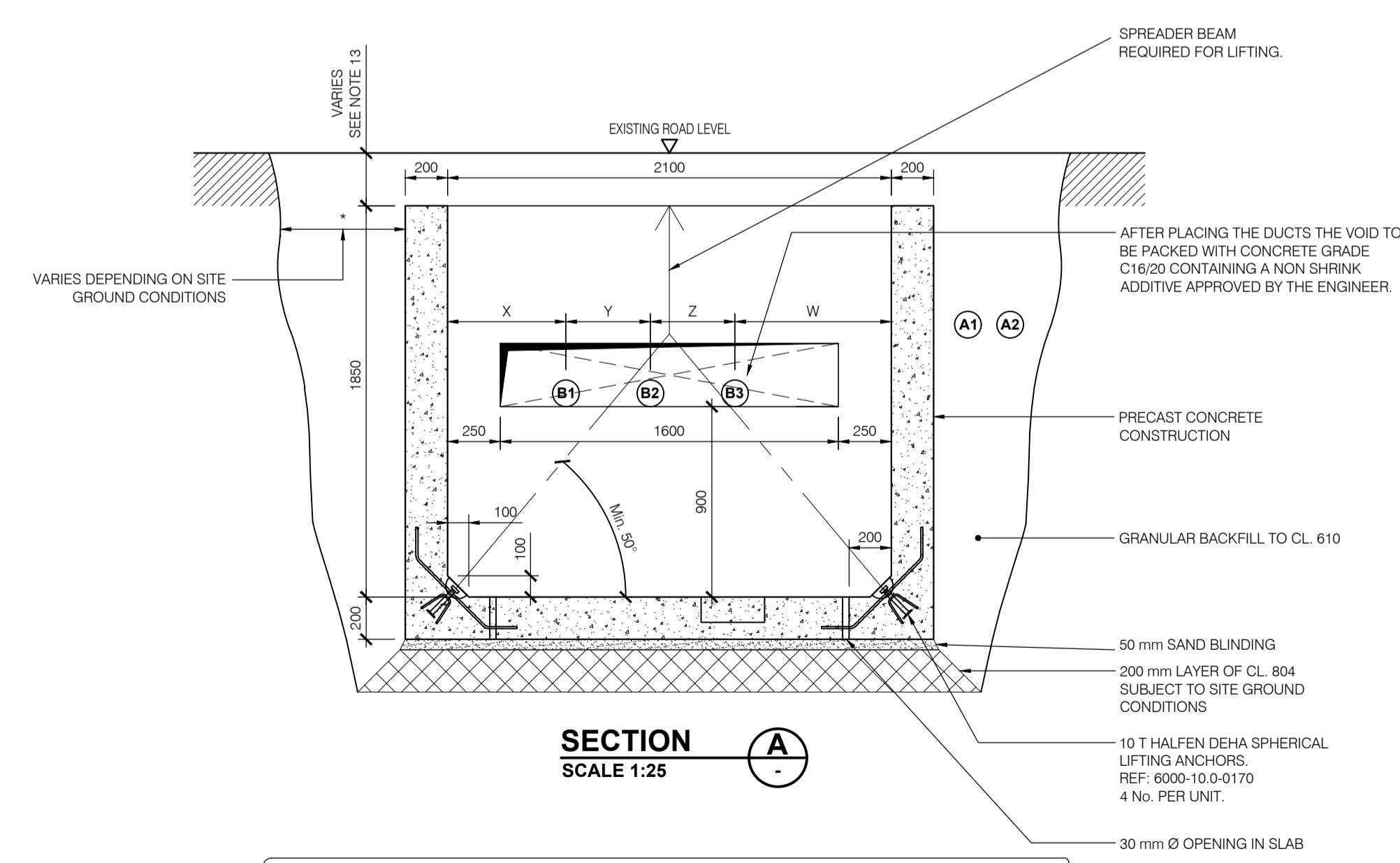
LIFTING EYE PLAN VIEW
SCALE: 1:10

DETAIL 2
SCALE 1:10

- GENERAL NOTES:**
- ALL DIMENSIONS ARE IN mm.
 - DO NOT SCALE DIMENSIONS.
 - THE CONTRACTOR SHALL CHECK ALL DIMENSIONS PRIOR TO CONSTRUCTION, ANY DISCREPANCIES TO BE NOTIFIED TO THIS OFFICE IN WRITING IMMEDIATELY.
 - TEMPORARY SUPPORTS TO THE SIDES OF THE EXCAVATION MAY BE REQUIRED DEPENDENT ON SUBSOIL, METHOD OF WORK AND SITE CONSTRAINTS, AND ARE TO BE AGREED WITH THE ESB ENGINEER PRIOR TO COMMENCEMENT OF EXCAVATION SIDE SLOPES OF AN UNSUPPORTED EXCAVATION DEPENDENT UPON SUBSOIL AND SHALL BE AGREED WITH ESB ENGINEER
 - MAIN CONTRACTOR TO ENSURE THAT A METHOD STATEMENT AND RISK ASSESSMENT INCLUDING A LIFTING PLAN, IS PRODUCED FOR INSTALLATION AND ARE AVAILABLE TO ESB ENGINEER FOR REVIEW IF REQUESTED. LIFTING PLAN TO INCORPORATE REQUIREMENTS OF LIFTING INSERTS AND LIFTING LOOP EYES.
 - THE CONSTRUCTION, AS SHOWN, IS APPLICABLE ONLY WHERE THE SUBSOIL AT FORMATION LEVEL EXCEEDS 185 kN/m² BEARING CAPACITY.
 - CONTRACTOR IS RESPONSIBLE FOR ALL TRAFFIC MANAGEMENT, INCLUDING WHERE NECESSARY SAFETY BARRIERS.
 - SUITABILITY OF THE CHAMBER COVER AND CHAMBER TO BE ASSESSED BY THE PROJECT ENGINEER IN CIRCUMSTANCES OF HIGH TRAFFIC LOADING IN ACCORDANCE WITH THE RECOMMENDATIONS OF T.I.I. DESIGN MANUAL FOR ROADS AND BRIDGES ADDENDUM TO HA 104/09
 - COVER AND FRAME TO BS EN 124:2015
 - COVER SHALL HAVE APPROVED BADGED MARKING INCORPORATED TO THE APPROVAL OF THE ESB ENGINEER.
 - ALL MATERIALS AND WORKMANSHIP TO BE IN ACCORDANCE WITH THE T.I.I. SPECIFICATION FOR ROADWORKS.
 - THE CENTRE LINE OF THE DUCTS ENTERING THE CHAMBER SHALL BE ALIGNED WITH THE DUCTS ON THE OPPOSITE SIDE, SO THAT THE CABLE IS PULLED IN A STRAIGHT LINE.
 - THE DEPTH FROM GROUND/ROAD LEVEL TO THE TOP OF THE CONCRETE WALL SHALL BE:
A) 500 mm - IN CULTIVATED FIELDS AND GRASSED LANDS
B) 300 mm - IN PAVED ROADS AND GRASS VERGES
C) 350 mm - IN PAVED ROADS IN DUBLIN CITY COUNCIL ROADS AND GRASS VERGES.
 - DUCTS SHALL APPROACH THE CHAMBER IN STRAIGHT ALIGNMENT (HORIZONTAL & VERTICAL) FOR A MINIMUM OF 3 METRES BEFORE THE WALL OPENING.
 - 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.
 - ALL PRECAST CONCRETE ELEMENTS TO BE MANUFACTURED TO BS EN 13369:2018 "COMMON RULES FOR PRECAST CONCRETE PRODUCTS".
 - ALL CONCRETE TO BE IN ACCORDANCE WITH I.S. EN 206:2013 CONCRETE - SPECIFICATION, PERFORMANCE, PRODUCTION AND CONFORMITY (+A2:2021).
 - LIFTING INSERTS TO BE DESIGNED & INSTALLED TO PD CEN/TR 15728:2016 "DESIGN AND USE OF INSERTS FOR LIFTING AND HANDLING OF PRECAST CONCRETE ELEMENTS".
 - A MINIMUM LIFTING SLING ANGLE OF 50° TO THE HORIZONTAL IS REQUIRED.
 - A LIFTING SYSTEM WHICH ENSURES ALL LIFTING POINTS TAKE ON AN EQUAL LOAD IS REQUIRED.
 - LINK BOX CHAMBER TO BE POSITIONED AT THE EDGE OF OR OFF ROAD.
 - JOINT BAY TO BE UNIFORMLY BACKFILLED IN LAYERS NOT EXCEEDING 300 mm THICK




TYPICAL PLAN OF JOINT BAY
SCALE 1:50



SECTION A-A
SCALE 1:25

A=125 mm: Outer Diameter HDPE ESB Approved Duct, SDR=17.6 (COMMS)
B=160 mm: Outer Diameter HDPE ESB Approved Duct, SDR=21 (UP TO 110 kV 2500 mm SQ ALUMINIUM CONDUCTOR)
All Dimensions in Millimetres.

0 ISSUED FOR PLANNING						
REV	DATE	REVISION DESCRIPTION	DRN	PROD	VER	APP
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PURPOSE OF ISSUE - PRELIMINARY UNLESS INDICATED						
CLIENT APPROVAL <input type="checkbox"/> PLANNING <input checked="" type="checkbox"/> TENDER <input type="checkbox"/> CONSTRUCTION <input type="checkbox"/> AS-BUILT <input type="checkbox"/>						
CLIENT ESB NETWORKS						
PROJECT METROLINK						
CONTRACT METROLINK PROJECT						
DRAWING TITLE PRECAST JOINT BAY 110 kV & 220 kV GENERAL ARRANGEMENT AND DETAILS						
PRODUCTION UNIT Transmission and Distribution Delivery						
 Engineering and Major Projects, One Dublin Airport Central, Dublin Airport, Cloughran, Co. Dublin, K67 XF72, Ireland. Tel: +353 (0)1 703 8000 Web: www.esb.ie Engineering and Major Projects is a division of ESB.						
DRAWN	PRODUCED	VERIFIED	APPROVED	APPROVAL DATE		
K.Rooney	K.Rooney	D.Ahern	P.Donaghy	23/06/2023		
CLIENT REF	NO. OF SHEETS	SIZE	SCALE	SCALE		
TC229261	1	A1	As Shown			
DRAWING NUMBER				SHEET REV		
PE424-D2159-029-001-000						