

TABLE 1 - CONCRETE SPECIFICATION TO I.S. EN 206-1		
ELEMENT	BLINDING & MASS CONCRETE, DRAINAGE PIPE & MANHOLE SURROUNDS.	GROUND BEAMS, FOUNDATIONS & PITTS/ CHAMBERS
EXPOSURE CLASS	X0	XC4
MIN. BINDER (CEMENT+GGBS) CONTENT (kg/m ³)	220	320
GGBS TO EN 15167-1 (kg/m ³)	0	95
CEM II / A-L TO I.S. EN 197-1 (kg/m ³)	220	225
MAX. WATER/CEMENT RATIO	--	0.50
CHLORIDE CONTENT CLASS	Cl. 1.0	Cl. 0.40
MAX. AGGREGATE (mm)	10	20
MIN. COVER (CMin) (mm)	--	40
*COMPRESSIVE STRENGTH CLASS @ 28 DAYS.	C16/20	C32/40

NOTES:
 1. *C16/20 to be read as follows:
 Min. Cylinder Strength — Min. Cube Strength (N/mm²)
 2. Design working life to be 50 years minimum.

GENERAL NOTES:

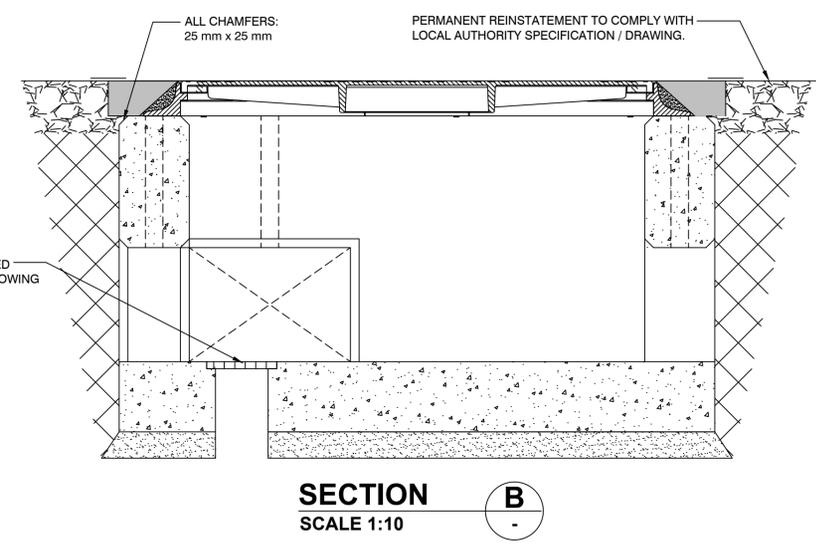
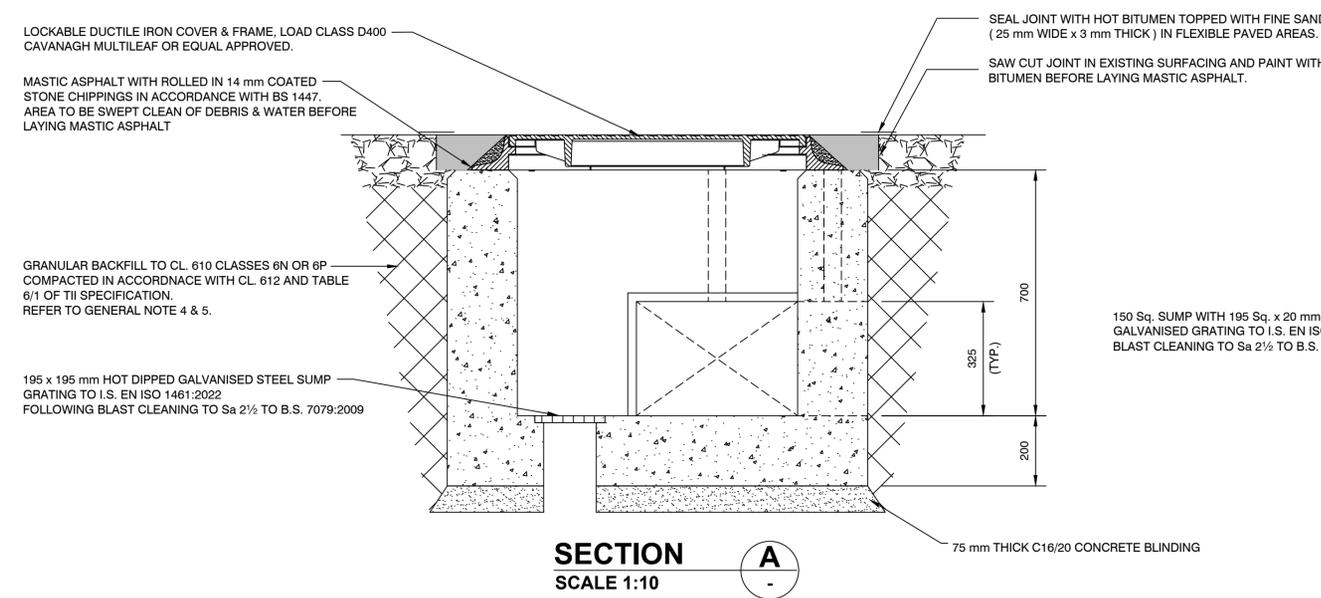
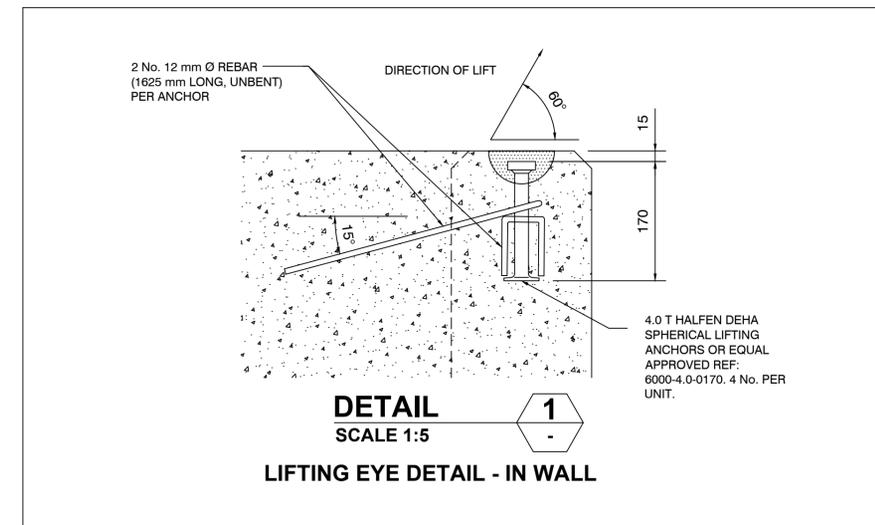
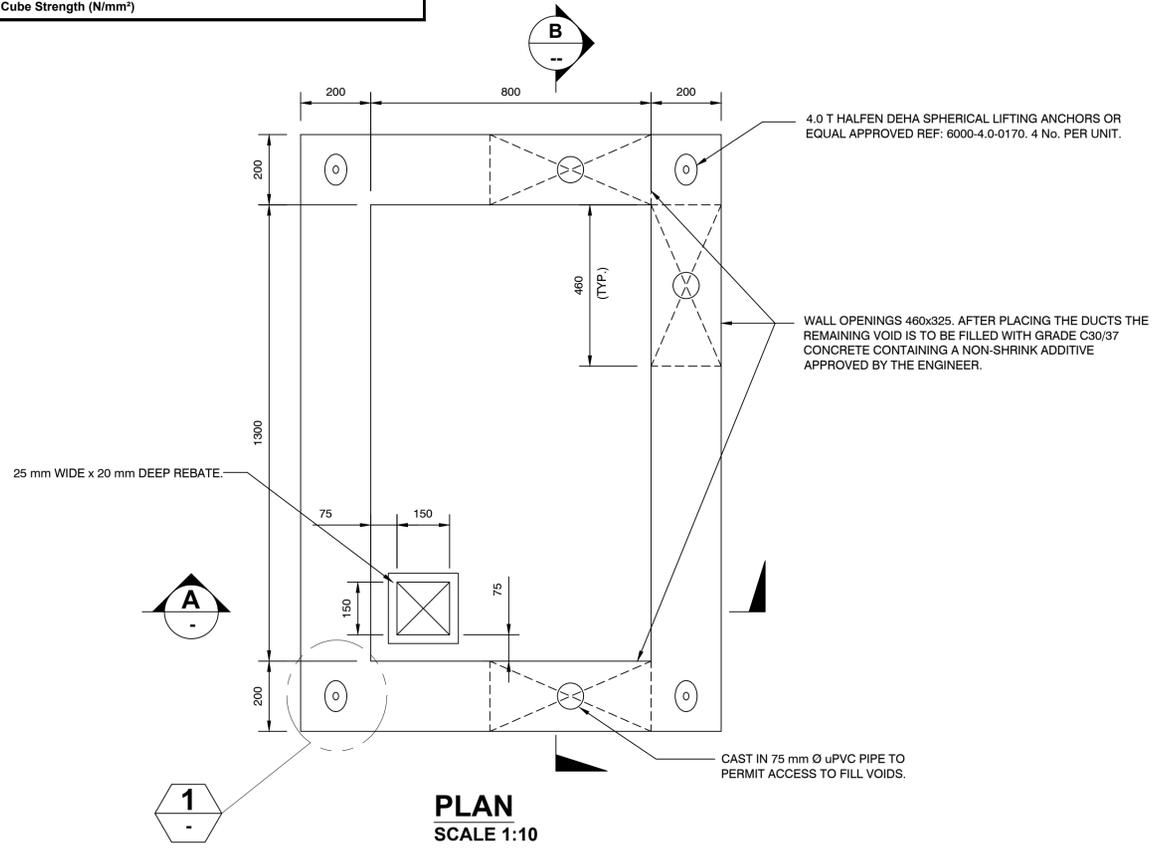
- ALL DIMENSIONS ARE IN mm.
- DO NOT SCALE DIMENSIONS.
- THE CONTRACTOR SHALL CHECK ALL DIMENSIONS PRIOR TO CONSTRUCTION, ANY DISCREPANCIES TO BE NOTIFIED TO THIS OFFICE IN WRITING IMMEDIATELY.
- TEMPORARY SUPPORTS TO THE SIDES OF THE EXCAVATION MAY BE REQUIRED DEPENDENT ON SUBSOIL, METHOD OF WORK AND 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 100 kN/m² BEARING CAPACITY.
- 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.

PRECAST CONCRETE NOTES:

- ALL PRECAST CONCRETE ELEMENTS TO BE MANUFACTURED TO BS EN 13369:2018 "COMMON RULES FOR PRECAST CONCRETE PRODUCTS".
- 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".
- WEIGHT OF PRECAST CONCRETE UNIT = 2.5 T. SPECIFIED LIFTING INSERTS HAVE A S.W.L. OF 4 T. ACCOUNTING FOR DYNAMIC LOADING.
- LOCATION & SPECIFICATION OF LIFTING INSERTS ARE ASSUMED TO FACILITATE DEMOULDING AND HANDLING IN PRECAST MANUFACTURING FACTORY. IT IS THE RESPONSIBILITY OF THE PRECAST MANUFACTURER TO NOTIFY THE ESB ENGINEER IF THESE ARE UNSUITABLE FOR MANUFACTURING METHODOLOGY. ESB ENGINEER TO BE INFORMED OF ANY ALTERNATIVE LIFTING LOCATIONS FOR FACTORY HANDLING & DEMOULDING.
- CONCRETE TO HAVE A MINIMUM STRENGTH OF 30 N/mm² PRIOR TO HANDLING OR DEMOULDING.
- 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.
- A MINIMUM LIFTING SLING ANGLE OF 60° TO THE HORIZONTAL IS REQUIRED.
- A LIFTING SYSTEM WHICH ENSURES ALL LIFTING POINTS TAKE ON AN EQUAL LOAD IS REQUIRED.
- TRANSPORT THE CHAMBER BY TRAILER WHEN TRAVELLING OVER ROUGH TERRAIN TO AVOID DAMAGE TO LIFTING ANCHORS.
- HALFEN DEHA SPHERICAL LIFTING ANCHORS TO BE USED AS SPECIFIED. ANY DEVIATION FROM THIS MUST BE NOTIFIED TO ESB ENGINEER BY PRECAST MANUFACTURER.
- FORMWORK FOR PRECASTING TO BE OF A MINIMUM STANDARD OF VARNISHED WOODEN MOULD WITH PLANED BOARDS.
- CONCRETE TO BE GRADE C32/40, AS SPECIFIED IN TABLE 1.

NOTE:

DETAILS ARE TAKEN DIRECTLY FROM THE STANDARD ESB NETWORKS CABLES DRAWING PE424-D7002-010-002 (LATEST REVISION) (1300 x 800 mm LINK BOX PRECAST CHAMBER GENERAL ARRANGEMENT)



REV	DATE	REVISION DESCRIPTION	DRN	PRD	VER	APP
0	30/06/23	ISSUED FOR PLANNING	KR	KR	DA	PCN

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PURPOSE OF ISSUE - PRELIMINARY UNLESS INDICATED

CLIENT APPROVAL PLANNING TENDER CONSTRUCTION AS-BUILT

CLIENT: ESB NETWORKS

PROJECT: METROLINK

CONTRACT: METROLINK PROJECT

DRAWING TITLE: 1300 x 800 LINK BOX PRECAST CHAMBER GENERAL ARRANGEMENT

PRODUCTION UNIT: Transmission and Distribution Delivery

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DRAWN	PRODUCED	VERIFIED	APPROVED	APPROVAL DATE
K.Rooney	K.Rooney	D.Ahern	P.O'Neill	30/06/2023

CLIENT REF	NO. OF SHTS	SIZE	SCALE
TC229312	1	A1	AS SHOWN

DRAWING NUMBER	SHEET	REV
PE424-D2159-032-001-000		