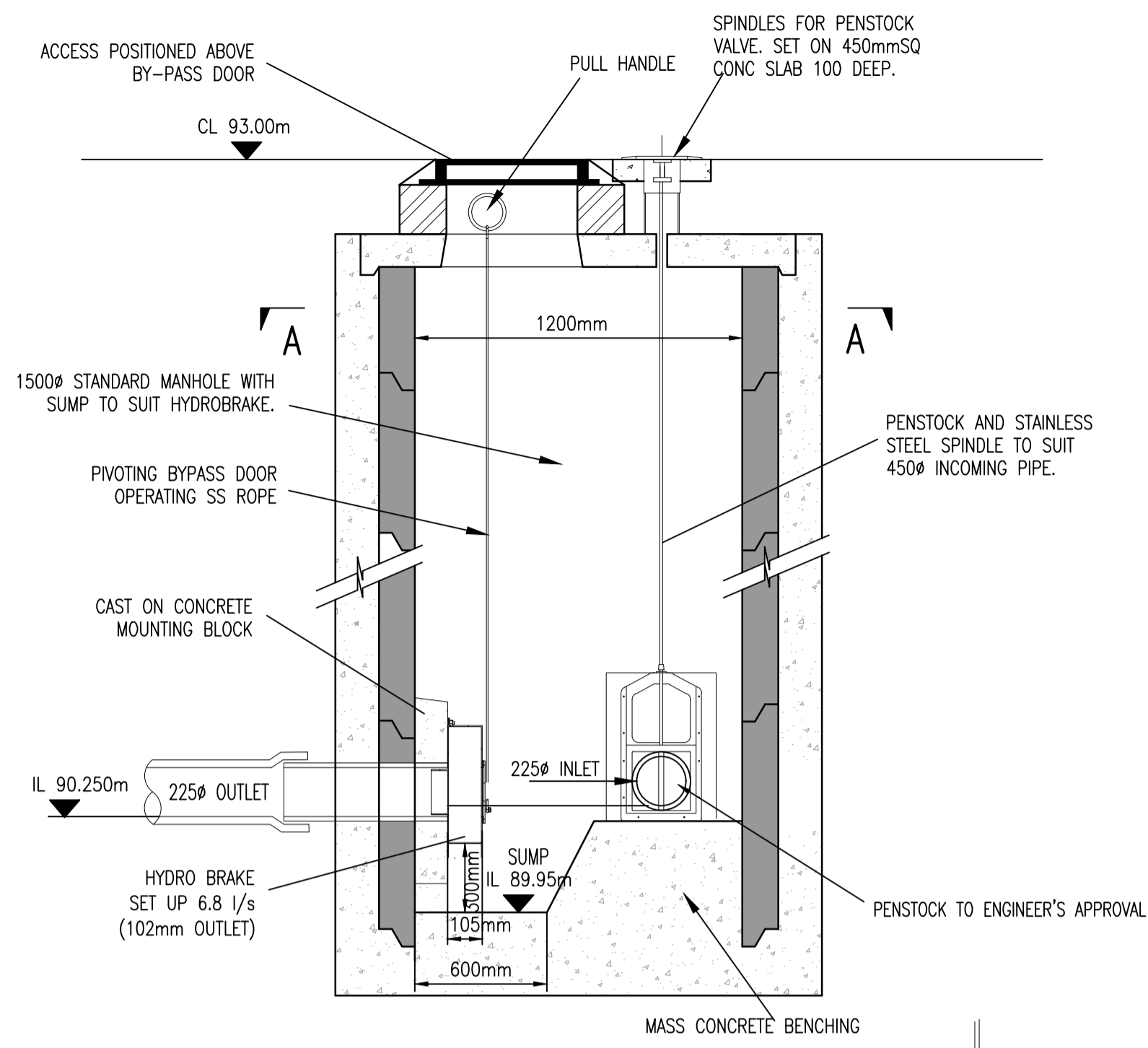


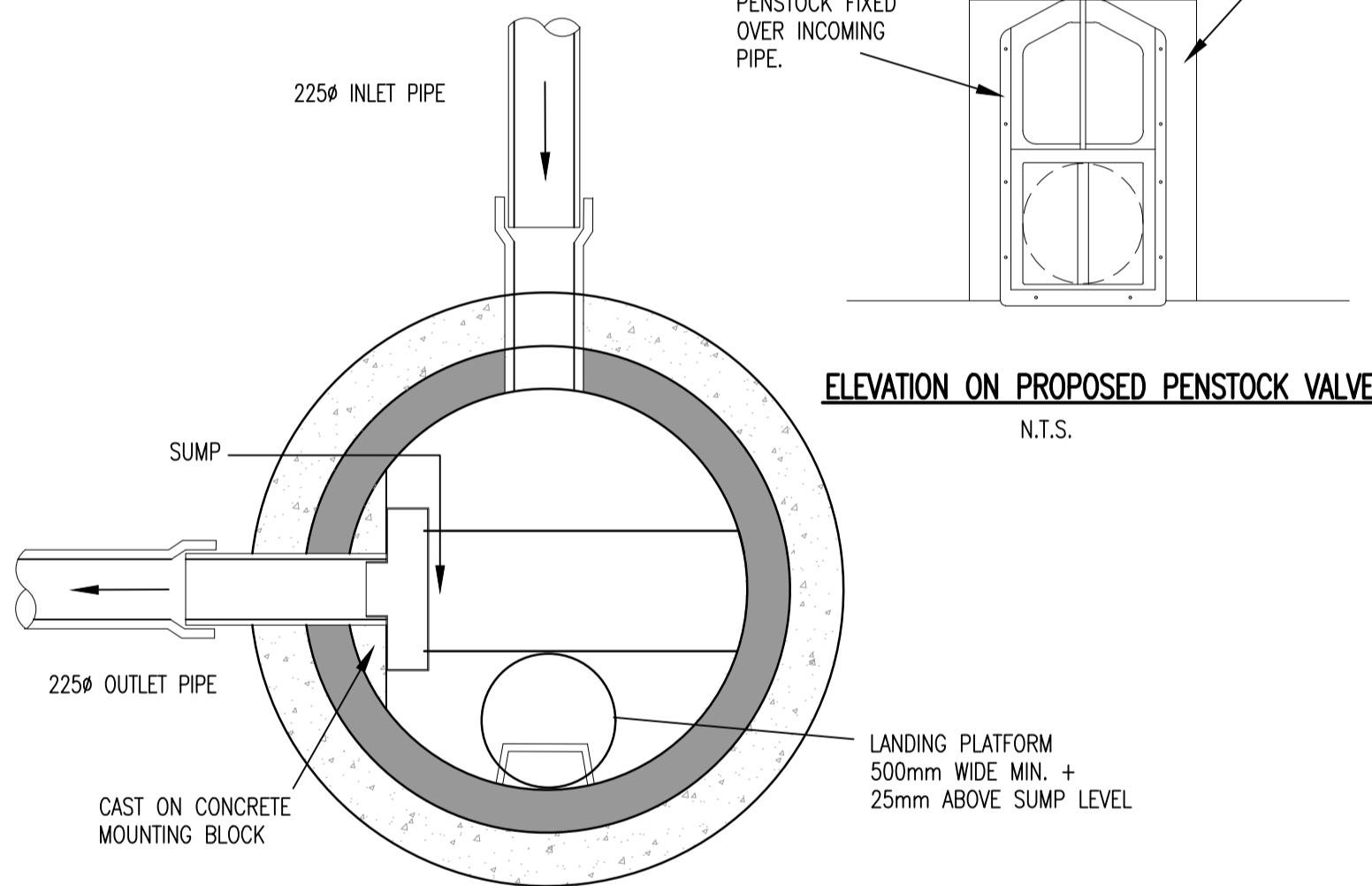
NOTES:

- DO NOT SCALE. USE FIGURED DIMENSIONS ONLY.
- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT ARCHITECTURAL AND ENGINEERING DRAWINGS.



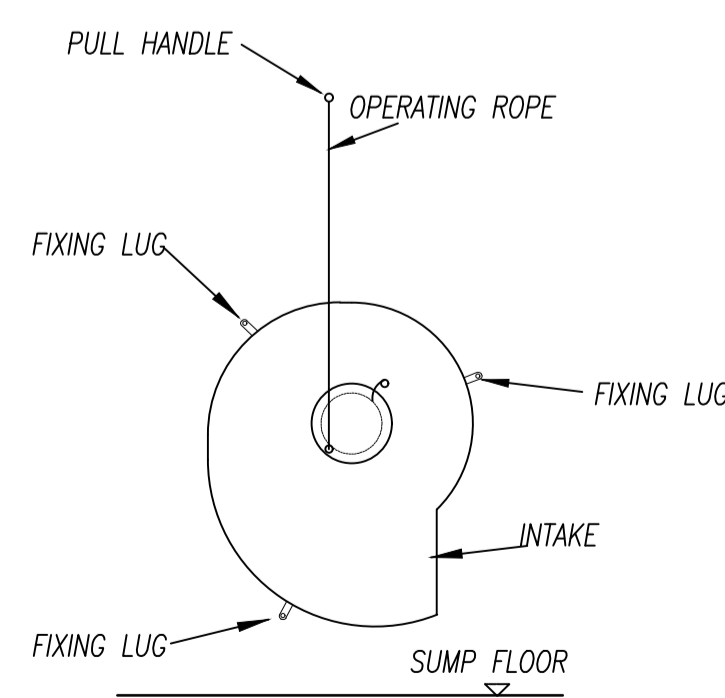
HYDROBRAKE MH S33
SCALE 1:25 @A1

NOTE: FOR FURTHER DETAILS ON MANHOLE CONSTRUCTION PLEASE REFER TO DRAWING P221FOR DETAILS

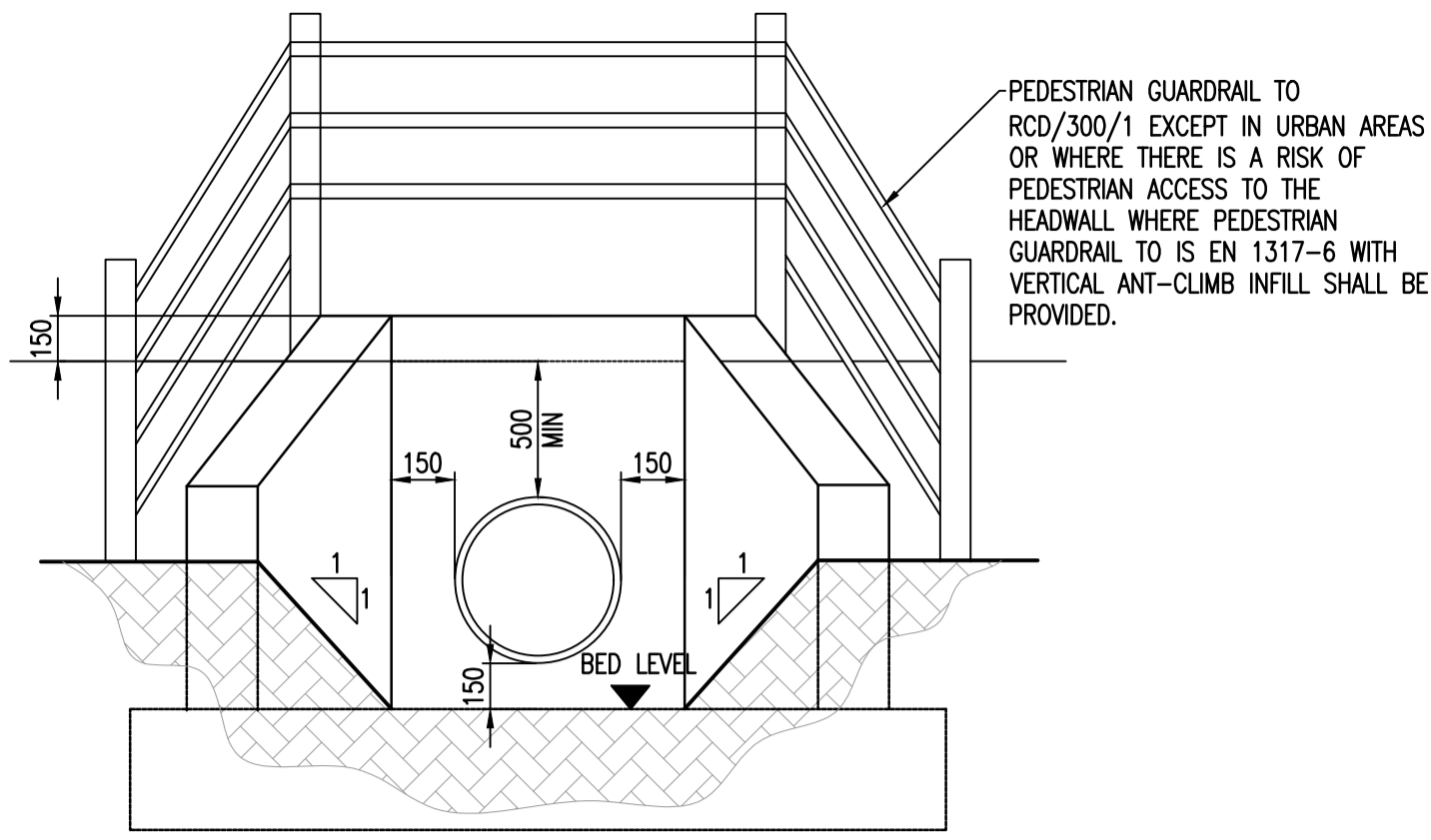


ELEVATION ON PROPOSED PENSTOCK VALVE
N.T.S.

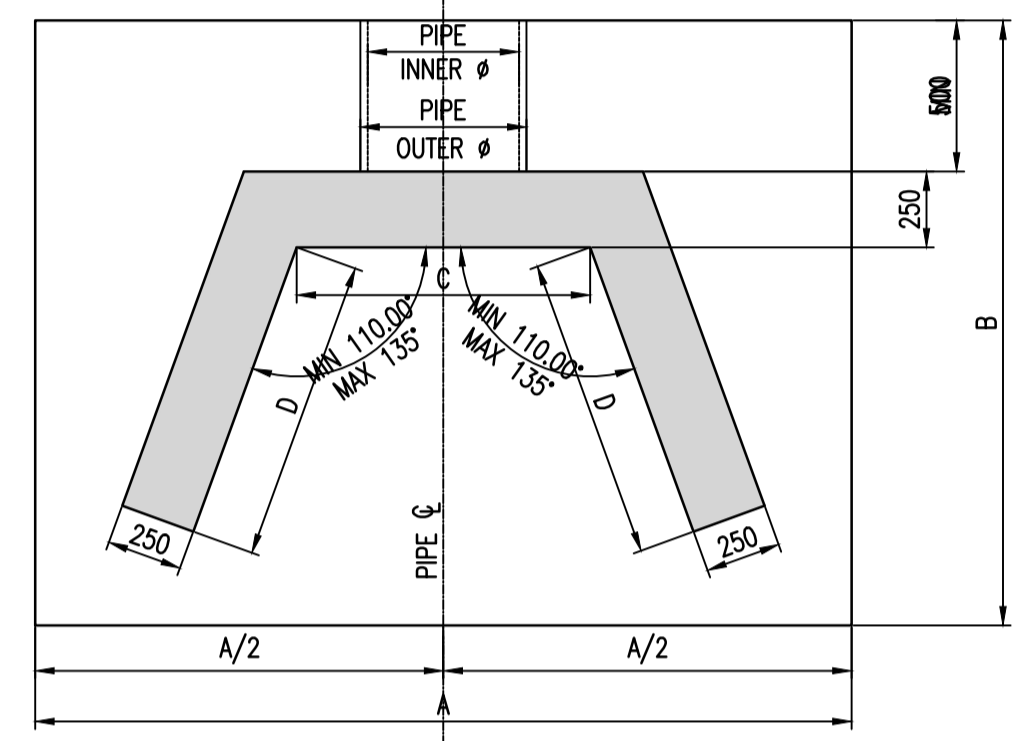
SECTION A - A
SCALE 1:25 @A1



HYDRO BRAKE DETAIL
N.T.S.



ELEVATION

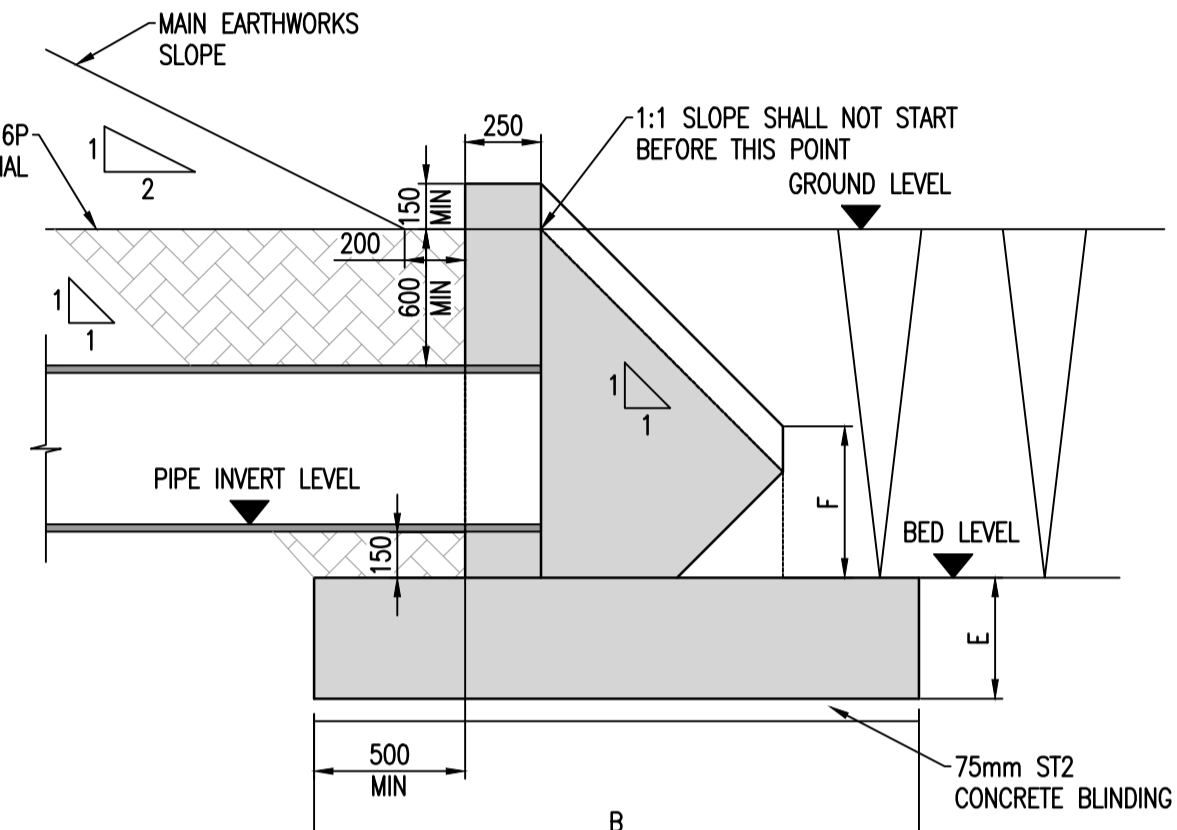


PLAN

SCHEDULE OF MINIMUM DIMENSIONS						
PIPE INNER Ø	A	B	C	D	E	F
<=300	2000	2000	PIPE OUTER Ø +300	1000	400	500
301-600	2500	2500	PIPE OUTER Ø +300	1250	400	600
601-900	3200	3200	PIPE OUTER Ø +300	1550	500	700
901-1200	3900	3900	PIPE OUTER Ø +300	1850	500	800
1201-1500	4700	4700	PIPE OUTER Ø +300	2150	500	900
1501-1800	5200	5200	PIPE OUTER Ø +300	2350	500	1000

THE DIMENSIONS CONTAINED IN THE TABLE ABOVE ARE MINIMUMS ONLY AND THE DESIGNER SHALL CONFIRM DETAILS FOR SPECIFIC SITE CONDITIONS. THE DIMENSIONS IN THE TABLE ABOVE ARE BASED ON THE FOLLOWING CONSTRAINTS:

- ANGLE BETWEEN HEADWALL AND WINGWALL IS 110°;
- BACKFILL MATERIAL IS FREE DRAINING;
- THERE ARE NO LIVE LOAD EFFECTS ON THE HEADWALL;
- CHARACTERISTIC VALUE OF INTERNAL FRICTION (φ) OF THE BACKFILL MATERIAL = 37.5°;
- 600mm COVER TO THE PIPE AT THE REAR OF THE HEADWALL, WITH A 200mm WIDE FLAT AREA BEFORE THE COMMENCEMENT OF THE MAIN EARTHWORKS SLOPE;
- SLOPE OF FILL MEASURED FROM THE REAR FACE OF THE WINGWALLS DOWNWARDS AND FROM BED LEVEL UPWARDS ARE BOTH TO BE 1:1

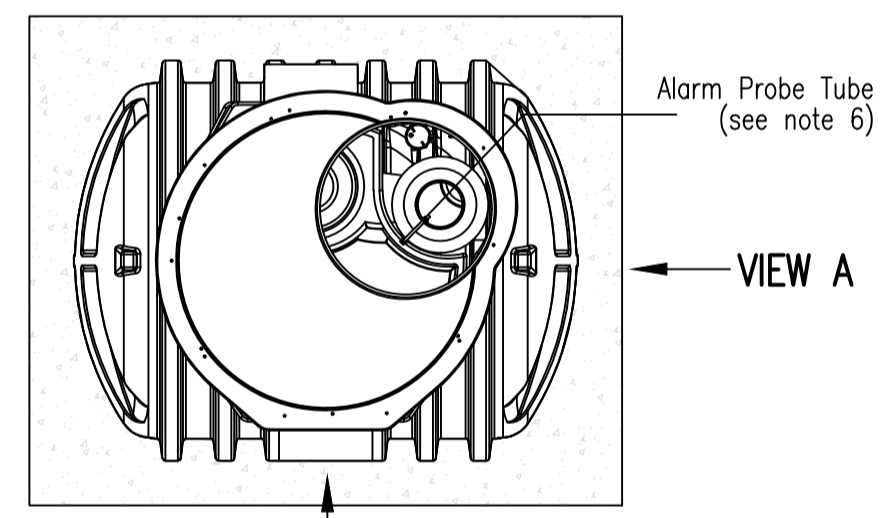


SECTION A-A

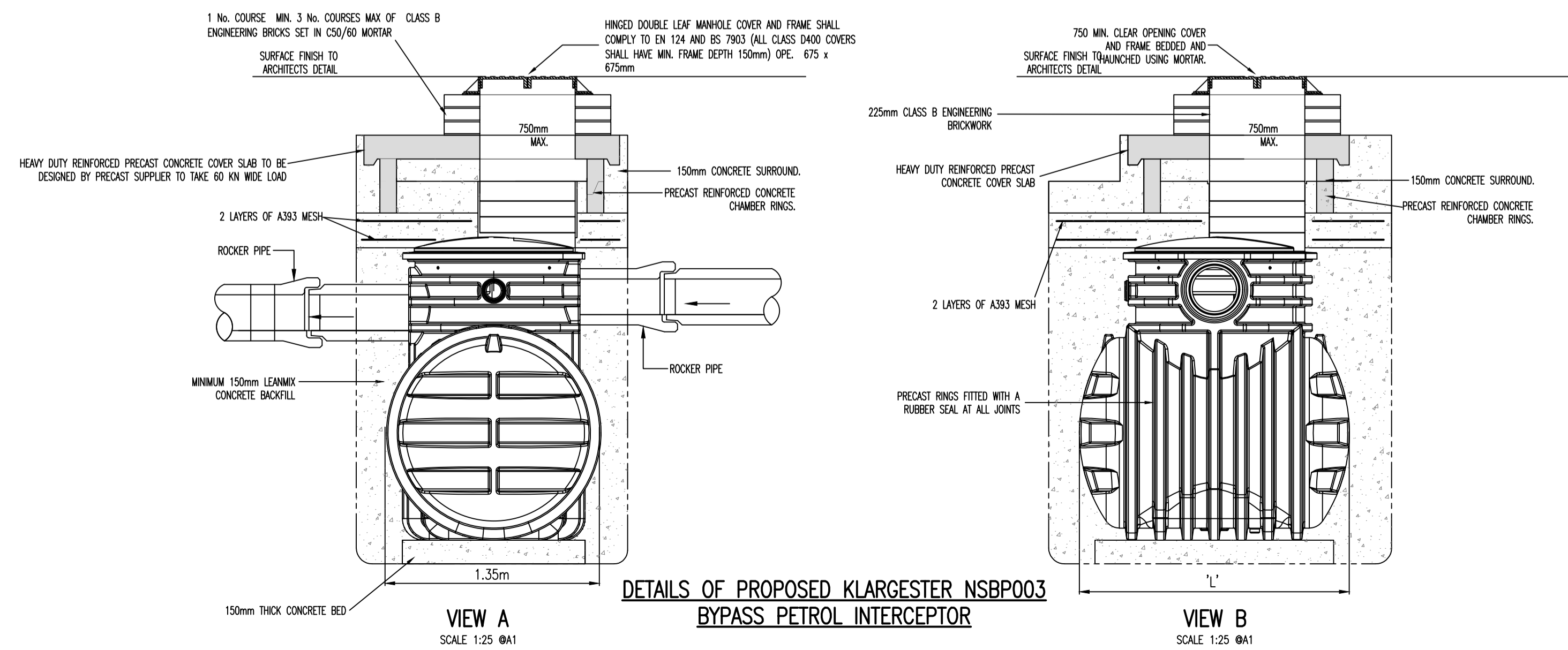
HEADWALL DETAIL
SCALE 1:25

- Notes:-
- Inlet/Outlet pipes are plain pipe standard EN 858 states minimum connection sizes, units ordered with different sized connections are not fully compliant with the standard.
 - Extension necks for deeper inverts can be provided. These can be cut in 200 mm sections. Max 2.0m Invert recommended. Please ask our sales department for further details.
 - All units require appropriate cover and frame to suit applied loadings.
 - This drawing should be used for dimensional information only. It is essential that this drawing is read in conjunction with the installation guidelines from the supplier. 76 mm tube (internal) is supplied to house an oil alarm probe.
 - Wet site conditions - Concrete Backfill Dry site conditions - Pea Shingle Backfill
 - A ø 76 mm tube (internal) is supplied to house an oil alarm probe.

Outlet Size 'B'	Inlet Size 'A'	Fall across unit	Approx Empty Weight (kgs)	Dim L (mm)	Nominal Flow	Unit Ref No
Ø150mm	Ø150 mm	100	180	1700	3 L/s	NSBP003



VIEW B
PLAN VIEW
SCALE 1:25 @A1



VIEW A
SCALE 1:25 @A1

DETAILS OF PROPOSED KLARGESTIER NSBP003 BYPASS PETROL INTERCEPTOR

VIEW B
SCALE 1:25 @A1

02/08/22	ISSUED FOR PLANNING	MS	JG
REV. DATE	AMENDMENT	DRN	APPD

STATUS **FOR PLANNING ONLY NOT FOR CONSTRUCTION**

Waterman Moylan
Engineering Consultants

BLOCK 8, EASTPOINT BUSINESS PARK, ALFIE BYRNE ROAD, DUBLIN D03 H3F4 IRELAND.
Tel: (01) 664 8900 Fax: (01) 661 3618
Email: info@waterman-moylan.ie www.waterman-moylan.ie

CLIENT **GRAFTON ISSUER DAC**
ARCHITECT **OMP ARCHITECTS**

PROJECT **RESIDENTIAL DEVELOPMENT AT CARRICKMINES GREAT GLENAMUCK ROAD SOUTH DUBLIN 18**

TITLE **PRIVATE SURFACE WATER DRAINAGE DETAILS SHEET 2 OF 2**

DRAWN NFA	DESIGNED LRG	APPROVED JG	DATE JULY 2022
SCALE AS SHOWN @A1	JOB NO. 21-111	DRG. NO. P027	REVISION