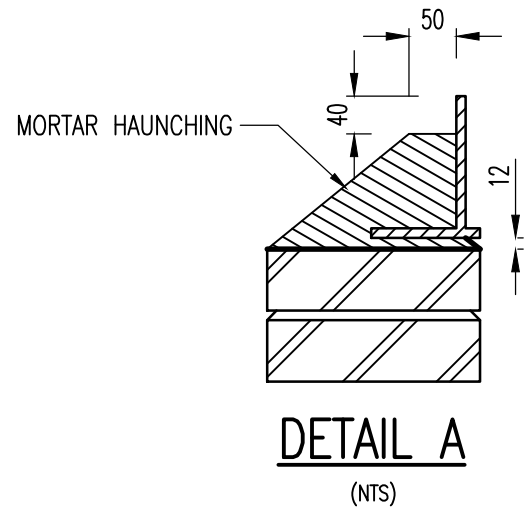
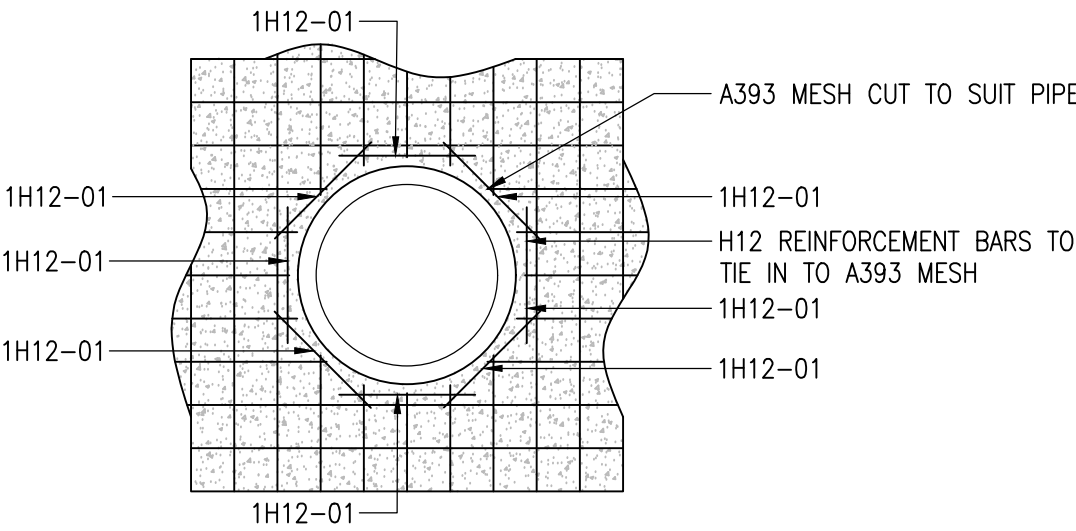
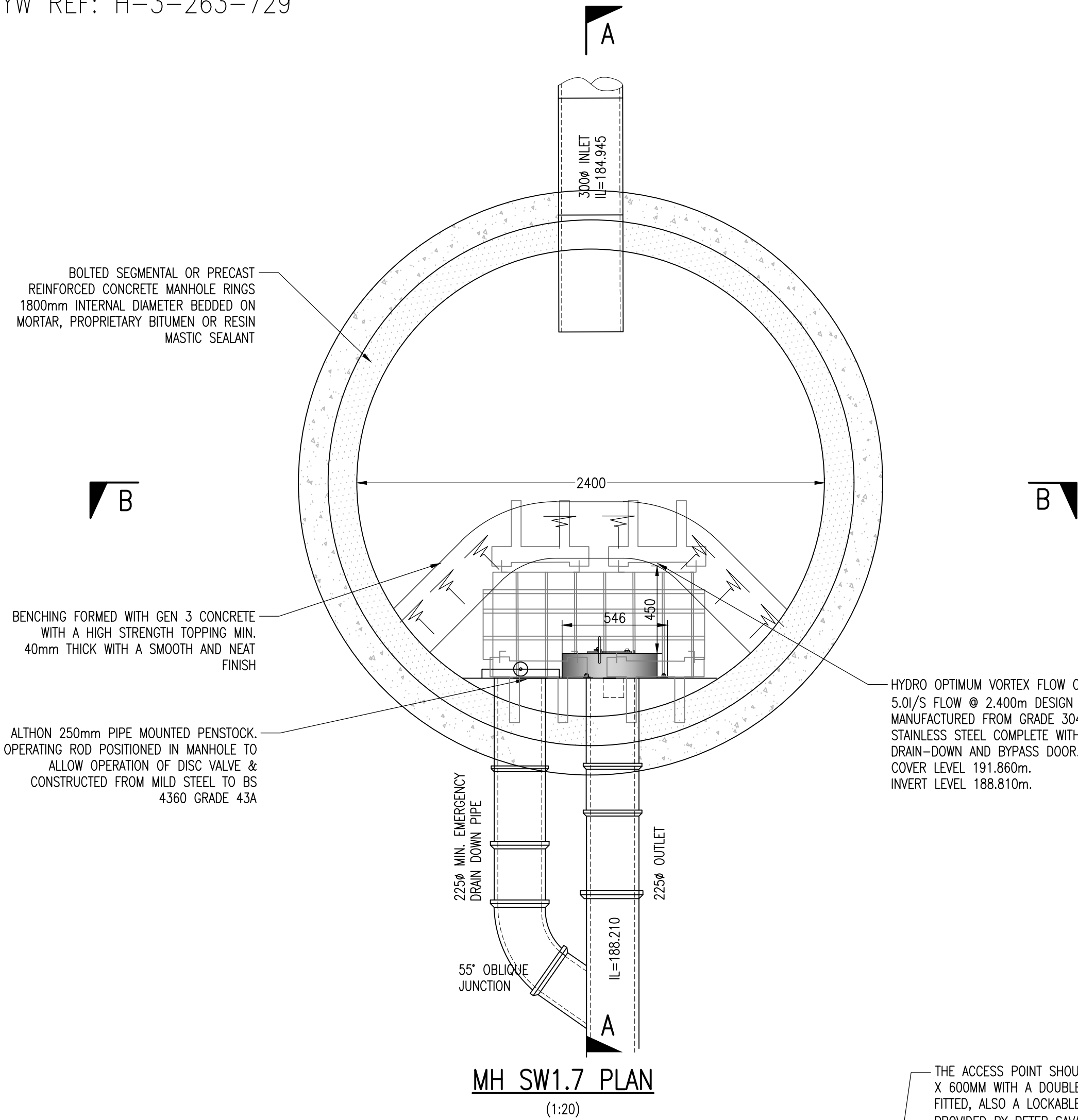


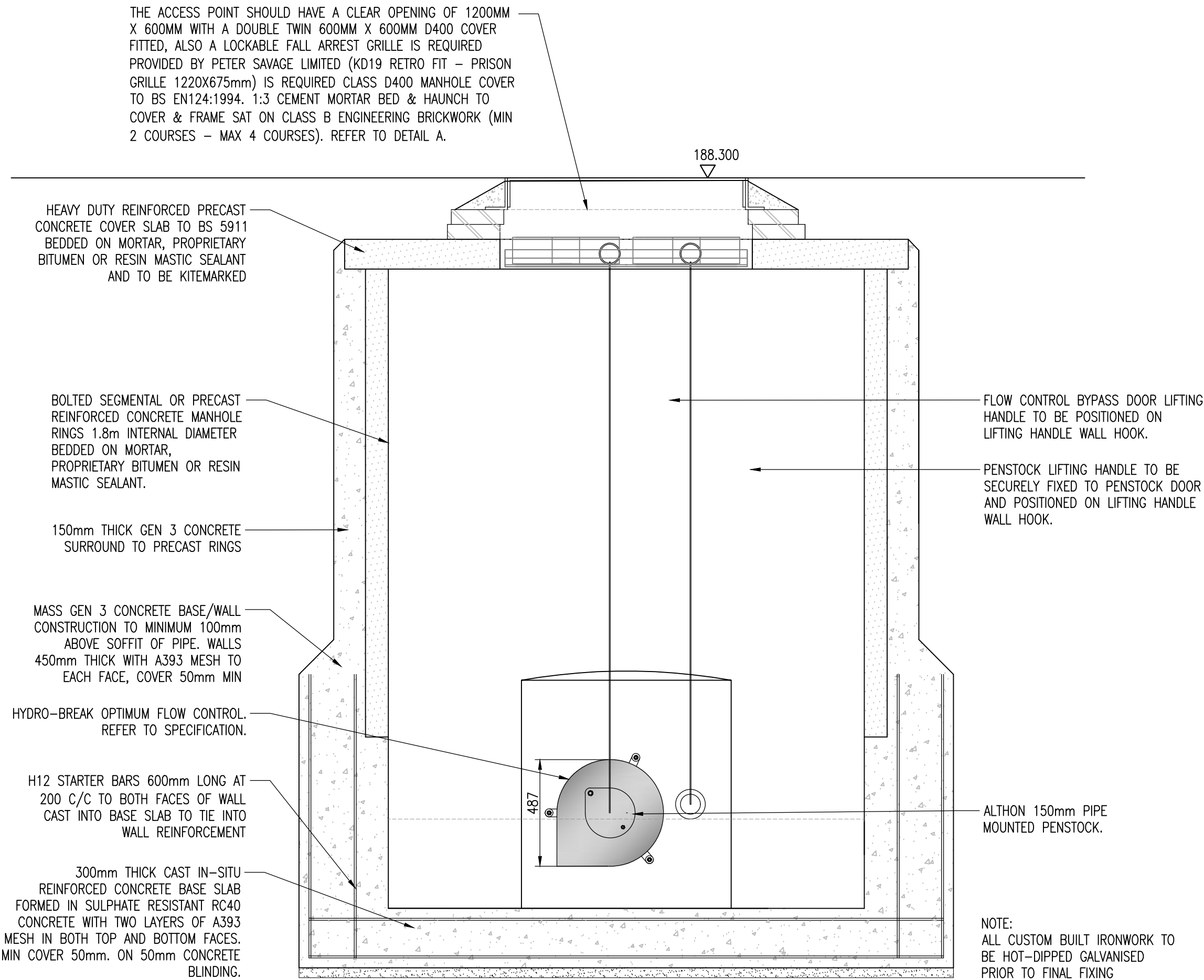
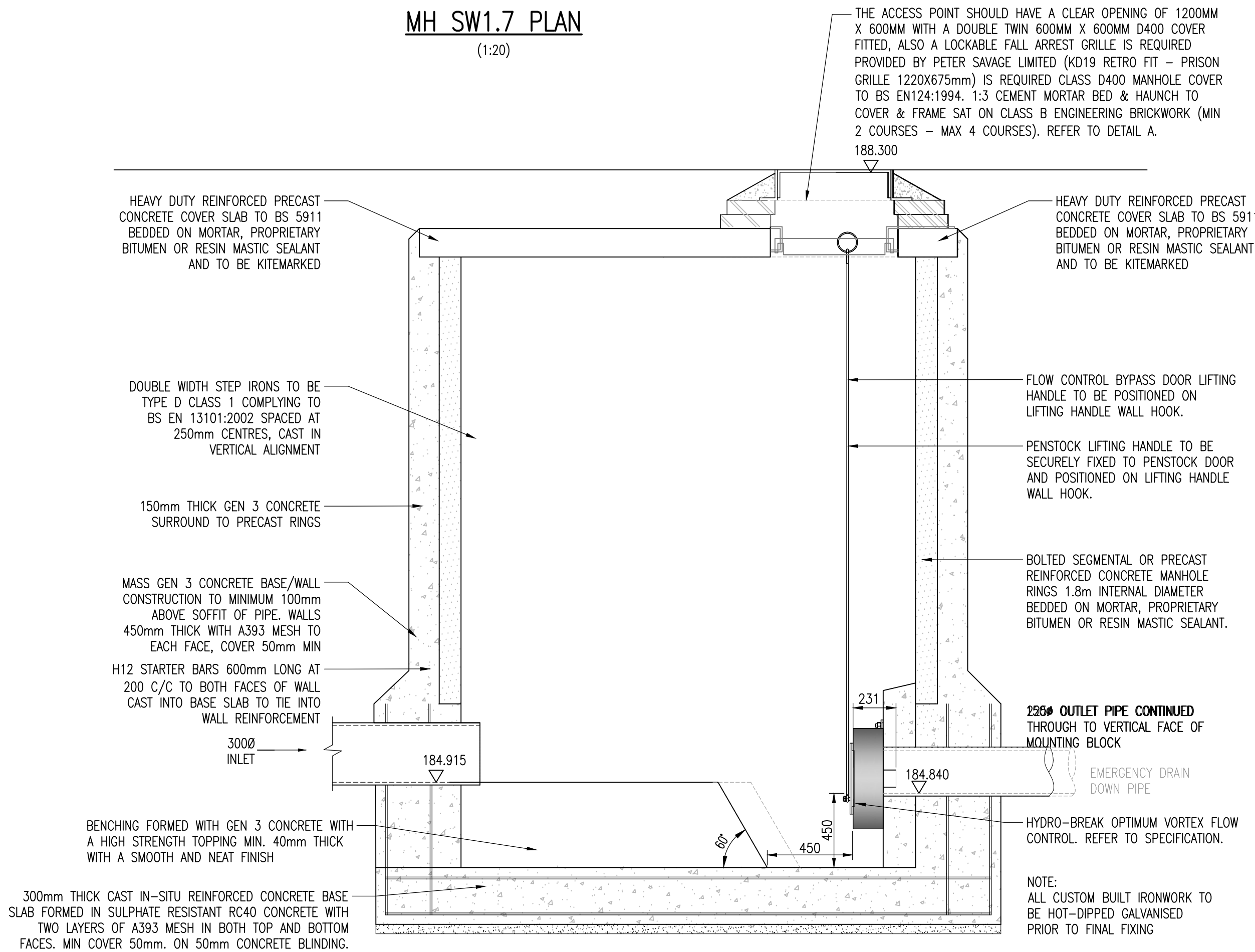
Do Not Scale



FLOW CONTROL DATA	
MANUFACTURER	HYDRO-BREAK®
EMAIL	ENQUIRIES@HYDRO-INT.COM
TYPE	HYDRO-BRAKE OPTIMUM FLOW CONTROL
HEAD/FLOW	2.500m / 5.0l/s
MANUFACTURER REF.	MD-SHE-0091-5000-2050-5000
TO BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATION AND RECOMMENDATIONS.	

YORKSHIRE WATER GENERAL NOTES

- ALL ADAPTABLE SEWER WORKS AND MATERIAL TO BE IN ACCORDANCE WITH SEWERS FOR ADOPTION 6TH EDITION THE RELEVANT BRITISH /EUROPEAN AND YORKSHIRE WATER'S STANDARDS/REQUIREMENTS /ADDENDUM AND KITEMARKED.
- MANHOLE COVERS SHALL HAVE A CLEAR OPENING OF 600mm AND BE CLASS D400 BS EN 124 WITH 150mm DEEP FRAMES IN HIGHWAY.
- FILLED GROUND MUST BE FILLED AND CONSOLIDATED UNDER THE SUPERVISION AND TO THE SATISFACTION OF YORKSHIRE WATER BEFORE ANY SEWER WORKS ARE CARRIED OUT.
- ALL CONCRETE PIPES TO BSEN1916 CLASS 120 (544N/m).
- COVER SLABS MUST CARRY THE BSI KITEMARK OR WILL BE REJECTED BY YORKSHIRE WATER INSPECTOR. WHERE THE CLEAR OPENING OF THE KITEMARKED PRODUCT IS DIFFERENT TO THAT OF THE COVER AND FRAME, A LOADING BEARING SLAB SHOULD BE FITTED ABOVE THE COVER SLAB TO BRING THE SIZE DOWN TO 600mm X 600mm.
- THE ADAPTABLE SEWERS SHOULD BE A MINIMUM OF 1m FROM KERBS AND MANHOLES 0.5m FROM KERB FACES AND SERVICE MARGINS.
- SEWERS MUST HAVE 5 METERS CLEARANCE FROM TREES AND HEDGES. (PLEASE ALSO REFER TO FIGURE 2.3 ON PAGE 33 IN SEWERS FOR ADOPTION 6TH EDITION FOR RESTRICTIONS ON TREE PLANTING ADJACENT TO SEWERS).
- SEWERS TO BE LAID IN CLASS "S" BEDDING (150mm GRANULAR BED AND SURROUND), WHERE DEPTH OF COVER TO TOP OF THE SEWER IS LESS THAN 1.2m IN HIGHWAYS AND VERGES (OR LESS THAN 900mm IN PEDESTRIAN ONLY AREAS) THEN A 150mm CONCRETE SLAB SHOULD BE PROVIDED ABOVE THE GRANULAR BED AND SURROUND.
- ALL ADAPTABLE SEWERS TO BE BSI KITEMARK (CERTIFIED TO WIS 4-35-01).
- ADAPTABLE SEWER PIPES TO BE LAID IN MAXIMUM 3 METER LENGTHS UNLESS THERE IS A SPECIFIC OPERATIONAL NEED TO LAY LONGER.
- BEDDING AND BACKFILL MATERIAL TO CONFORM TO THE REQUIREMENTS OF WATER INDUSTRY SPECIFICATION 4-08-02 (TABLE A2).
- PLASTIC CHANNEL SECTIONS ARE NOT ACCEPTABLE IN MANHOLES. THEY ARE DIFFICULT TO SET IN CONCRETE AND A SATISFACTORY FINISH CANNOT BE OBTAINED ON THE BENCHING. CLAYWARE CHANNELS REQUIRED.
- THE CHAMBER SIZE OF MANHOLES WITH MORE THAN ONE CONNECTION MAY NEED TO BE INCREASED AN INCREMENT TO ACCOMMODATE THE CONNECTIONS AND BENDS.
- YORKSHIRE WATER POLICY IS NOT TO ACCEPT TYPE "C" BRICK MANHOLES. INSTEAD USE TYPE "B" MANHOLES WITH 1200mm DIA OR 1500mm DIA. RINGS, WITH THE OPENING SITED OVER THE CHANNEL WHERE DEPTH OF COVER TO PIPE SOFFIT IS 1-1.5m.
- SURFACE WATER AND FOUL WATER RISING MAINS TO BE PROVIDED WITH MARKER TAPE ABOVE THE RISING MAIN.
- IF PLASTIC PIPES ARE TO BE USED THEN THE FOLLOWING SHOULD APPLY:-
 - A) ALL ADAPTABLE SEWERS TO BE BSI KITEMARK (CERTIFIED TO BS EN 13476-1 AND WIS 4-35-01 AND BS EN 13476-2 OR BS EN 13476-3).
 - B) PIPES LESS THAN OR EQUAL TO 500Ø SHALL HAVE NOMINAL SHORT-TERM RING STIFFNESS NOT LESS THAN 8kN/m².
 - C) BEDDING AND BACKFILL MATERIAL TO CONFORM TO THE REQUIREMENTS OF WATER INDUSTRY SPECIFICATION 4-08-02 (TABLE A2).
- YORKSHIRE WATER IS NOT OBLIGED TO ACCEPT FILTER DRAIN/LAND DRAINAGE RUN-OFF INTO THE PUBLIC SEWER NETWORK OR ADAPTABLE DRAINAGE SYSTEM (DIRECTLY OR INDIRECTLY). AN ALTERNATIVE METHOD OF DISPOSAL OF THE LAND DRAINAGE RUN-OFF WILL THEREFORE BE REQUIRED AND YOU WILL HAVE TO LIAISE WITH THE LOCAL DRAINAGE SECTION WITH REGARDS TO THE DISPOSAL OF THE FILTER DRAIN/LAND DRAINAGE RUN-OFF.
- SULPHATE RESISTANT CEMENT (C20-DC2) AND PRECAST CONCRETE PRODUCTS MUST BE USED OR A LABORATORY REPORT PROVIDED PROVING THAT SUCH PRECAUTIONS ARE NOT NECESSARY.



14.07.17	100mm PCC RING (YW. 22/06/17)	KB	VB	P3
14.06.17	COVER LEVEL AND SIZE	KB	VB	P2
06.03.17	PRELIMINARY ISSUE	KB	VB	P1
Date	Revision	By	Chkd	Ref

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Project
**ST MARY'S AVENUE
NETHERTHONG**
Title
**CONTROL MANHOLE DETAIL
SW1.7**

Scale	AS @ A1	Drawn	KB	Checked	VB
Date	MAR '17	Status	PRELIMINARY		
Drg. No.	16269/051			Rev.	P3