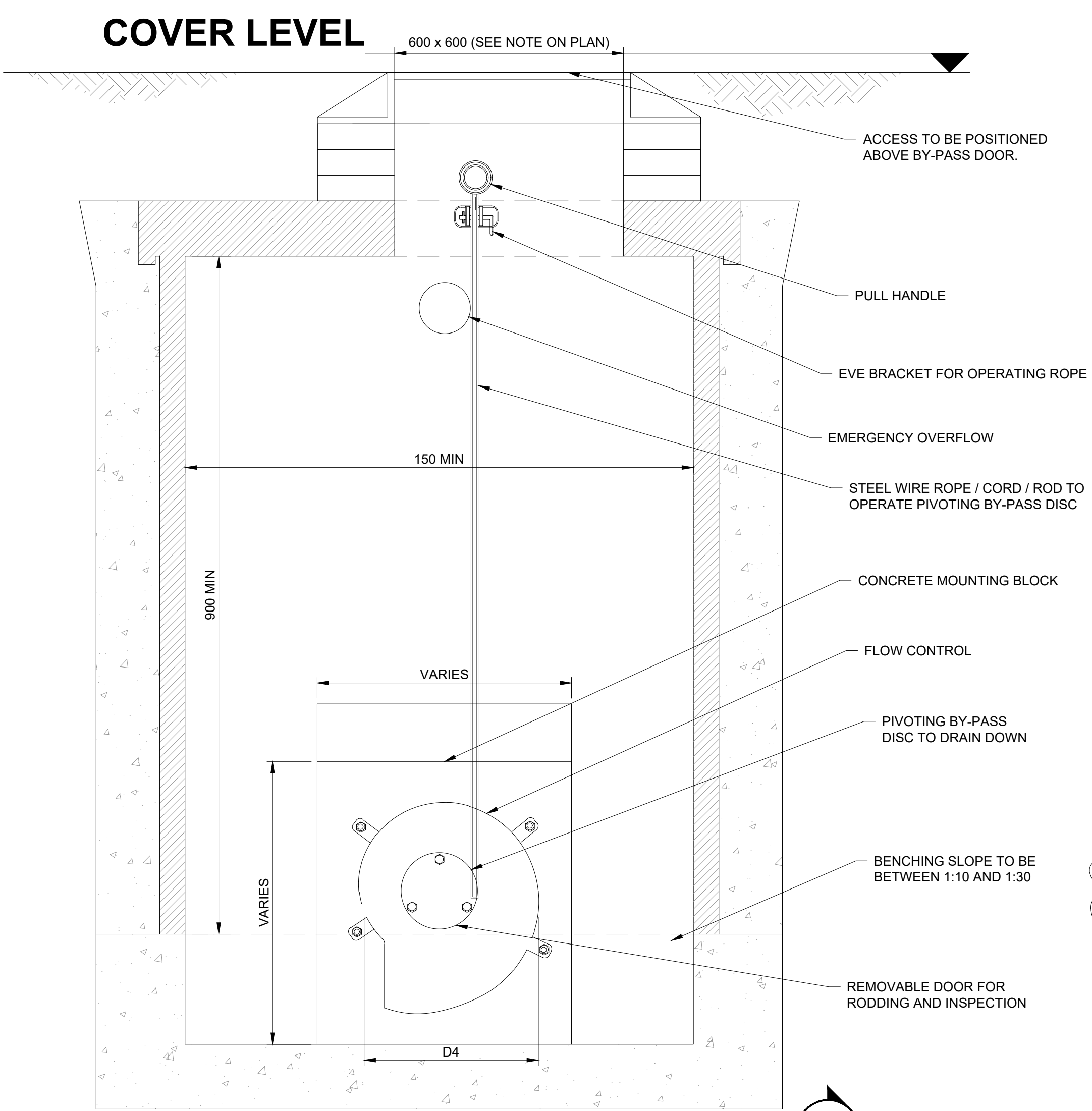
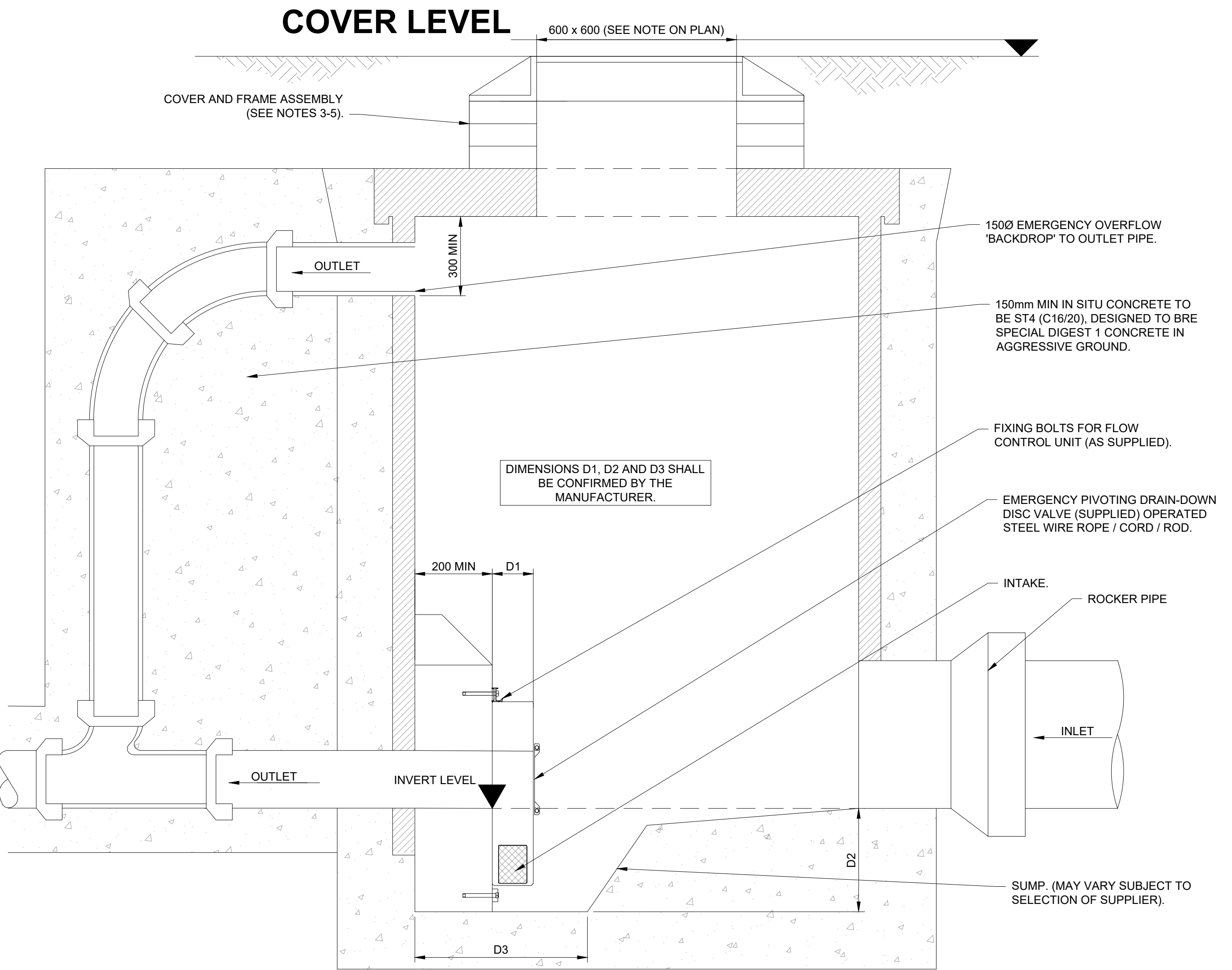


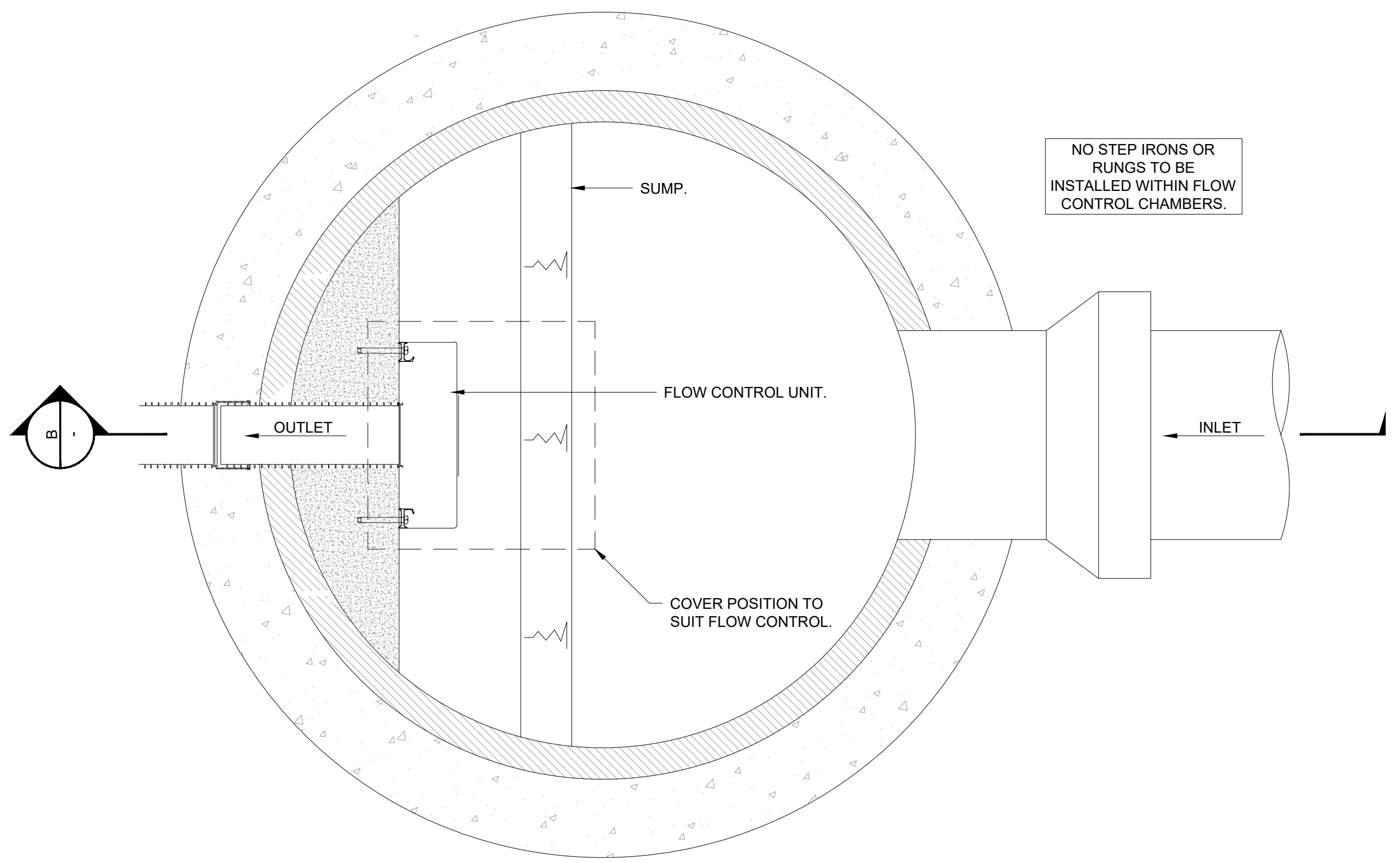
ISO A1 594mm x 841mm  
Approved: NM  
Checked: KH  
Designer: SN  
Project Management Initials:  
Last Plot: 2024-01-19  
Last saved by: THOMAS BELLAS  
File: C:\P\WORKING\AECOM\_DS09\_UK\_2020\0275276\06\0807-ACM-XX-XX-DR-DR-702003.DWG



SECTION A VORTEX FLOW CONTROL  
SCALE 1:10



SECTION B VORTEX FLOW CONTROL  
SCALE 1:10



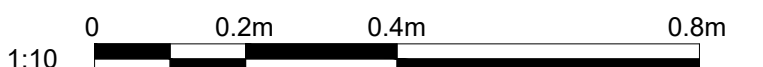
PLAN OF VORTEX FLOW CONTROL  
SCALE 1:10

**CONDITIONS OF USE:**

- THE APPLICANT MUST OBTAIN AN APPROVAL IN PRINCIPLE WITH WSCC FOR USE OF SUCH FLOW CONTROL. THE DESIGN 'PERFORMANCE' SHALL BE AGREED WITH WSCC (HEAD/FLOW). DRAINAGE STRATEGY AND FLOOD RISK REPORTS SHALL BE PROVIDED. IN THE ABSENCE OF THIS INFORMATION EVIDENCE SHALL BE PROVIDED TO DEMONSTRATE HISTORIC AND/OR GREENFIELD FLOWS.
- ALL FLOW CONTROL MANHOLES SHALL INCLUDE AN EMERGENCY OVERFLOW LOCATED JUST UNDER THE BISCUIT. THIS SHALL BE A MINIMUM 150Ø. THE OVERFLOW IS ONLY PERMITTED TO OPERATE DURING EXCEEDANCE EVENTS IN EXCESS OF 1:30YR+30% CLIMATE CHANGE.
- FLOW CONTROL TO HAVE A MINIMUM OF 75mm SOLID HANDLING.
- OPENING SIZE MINIMUM SHALL BE 600mm X 600mm. SIZE MUST BE DESIGNED TO SUIT THE SELECTED FLOW CONTROL APPARATUS AND FUTURE MAINTENANCE REQUIREMENTS FOR REMOVAL/REPLACEMENT.

**NOTES CONTINUED**

- On manholes less than 1.5mØ reducing slab not to be used and PCC rings to continue up to cover slab.
- Pre-cast concrete products shall comply with the relevant provisions of BS 5911: Part 2, 200 & 230.
- The flow control quotation and specification, and chamber details shall be supplied to WSCC in order that the 'commuted sum' can be calculated.
- The chamber shall be of suitable size, type and construction relative to the flow control unit dimensions. The chamber must be installed in strict accordance with the supplier recommendations, any variations shall be reported to WSCC.



**PROJECT**

Brookleigh -  
Northern Arc avenue  
Central Section

**CLIENT**

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**NOTES**

- Do not scale from the drawing.
- All levels shown are in meters Above Ordnance Datum (AOD) unless stated otherwise.
- Cover grade shall be minimum D400 unless otherwise agreed with the highway inspector. 600mm x 600mm clear opening (see note on plan).
- Manhole cover and frames shall comply with the relevant provisions of BS EN 124, BS 7903 and highway agency guidance document HA 104/02. They shall be of a non-rocking design which does not rely on the use of cushion inserts. All manhole covers shall be the non-ventilating type and shall have closed keyways. All covers formed of double triangular units shall be loosely bolted together.
- Frames shall be bedded on a gauged class 1 (3:1) sand/cement mortar to cl.2402 of SHW mortar designation (i), and between 2 and 4 courses of engineering brickwork class 'B' to BS EN 771-1:2011.
- Precast concrete manhole pattern step irons at 300mm centres vertically and staggered 300mm horizontally between centres.

**SUITABILITY**

S3 SUITABILITY

**ISSUE/REVISION**

| P01 | 19.01.2024 | FIRST ISSUE |
|-----|------------|-------------|
| I/R | DATE       | DESCRIPTION |

**PROJECT NUMBER**

60610807

**SHEET TITLE**

STANDARD DETAILS  
VORTEX FLOW CONTROL MANHOLE  
SHEET 4 OF 9

**SHEET NUMBER**

60610807-ACM-XX-XX-DR-DR-702003

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