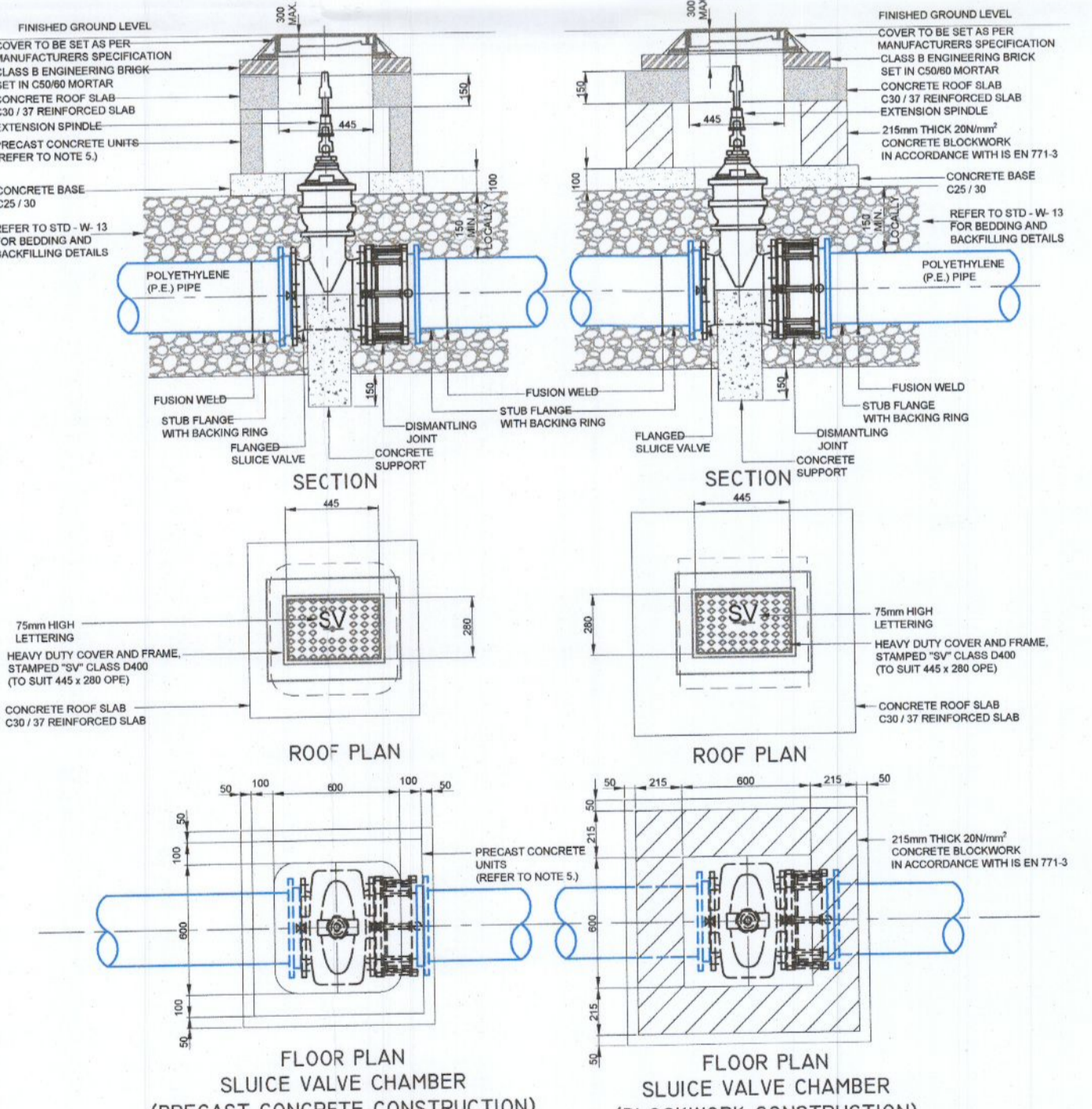
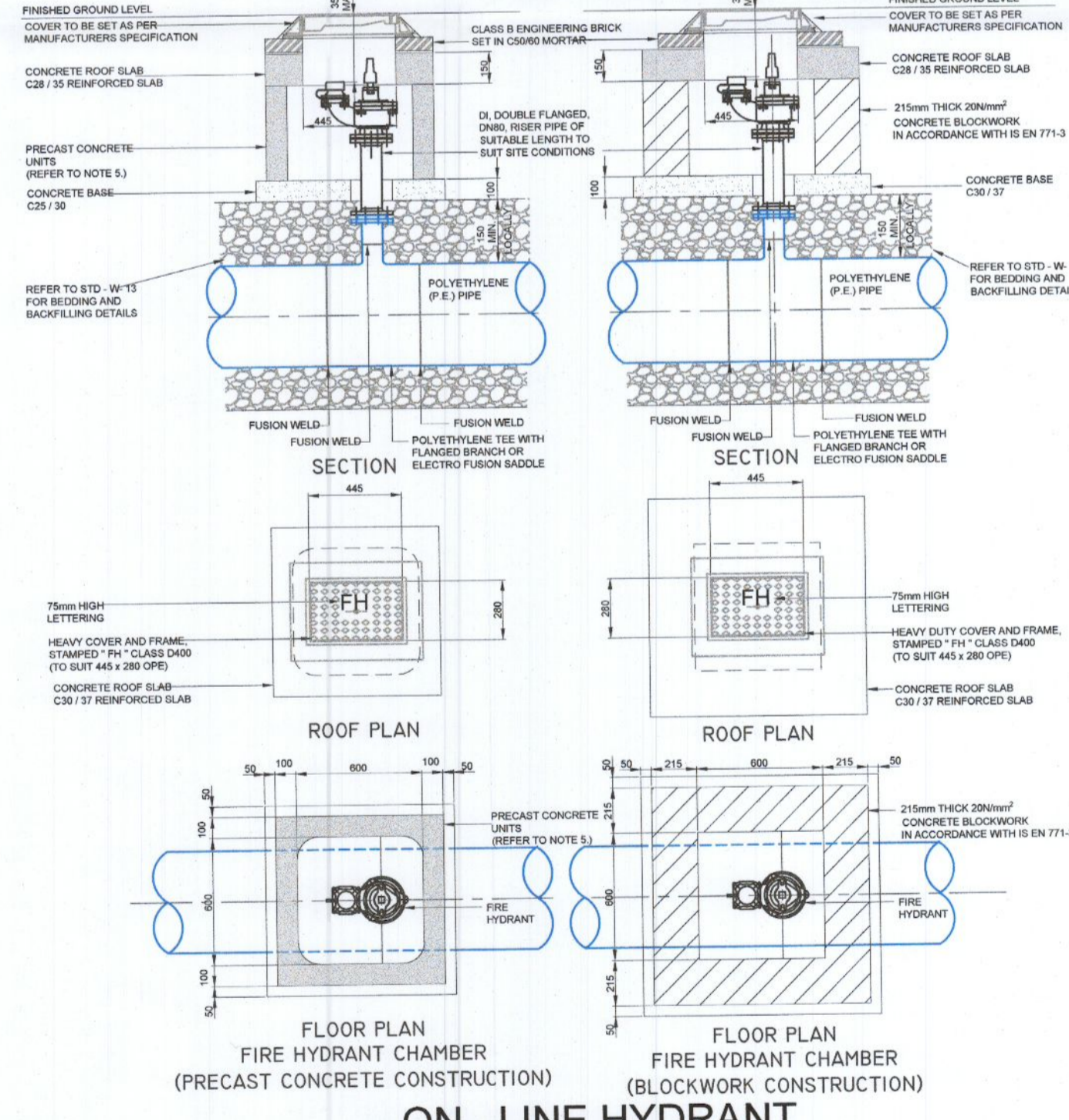


**WATER MAIN THRUST AND SUPPORT BLOCKS**



**SLUCE VALVE FOR POLYETHYLENE (P.E.) PIPE (< 350mm DIA.)**

- ALL DIMENSIONS IN MILLIMETRES (mm) UNLESS NOTED OTHERWISE
- SLUCE VALVE CHAMBERS SHALL BE COVERED WITH APPROVED HEAVY DUTY METAL COVERS TO IS 261 OR BS 5634. COVER AND FRAME SHALL BE SUITABLE FOR ROAD AND TRAFFIC CONDITIONS AND IS SUBJECT TO THE APPROVAL OF IRISH WATER.
- SLUCE VALVES SHALL BE RESILIENT SEATED AND SHALL COMPLY WITH BS 9163-1, BS 5163-2, IS EN 1074-1, IS EN 1074-2, OR EQUIVALENT E.U. SPECIFICATIONS.
- ALL SLUCE VALVES SHALL BE ANTI-CLOCKWISE CLOSING.
- VALVE CHAMBER TO BE CONSTRUCTED OF PRECAST CONCRETE UNITS OR HIGH DENSITY BLOCKWORK. ALTERNATIVELY PROPRIETARY PREFABRICATED CHAMBER UNITS MAY ALSO BE USED. SUBJECT TO APPROVAL FROM IRISH WATER.
- CONCRETE CHAMBERS SHALL BE SURROUNDED BY A MINIMUM OF 150mm COMPACTED CLASS B08 MATERIAL AS PER STD-W-13.
- DUCTILE IRON PIPES AND FITTINGS TO BE IN ACCORDANCE WITH IS EN 546. PE PIPES AND FITTINGS TO BE IN ACCORDANCE WITH IS EN 12201-2011.
- 200mm ALL AROUND, 100mm DEEP CONCRETE PLINTH WITH PROTECTIVE STAINLESS STEEL METAL BAND AROUND COVERS IN GREEN AREAS.
- THRUST BLOCKS (NOT SHOWN ON DRAWING), TO BE PROVIDED AS PER STANDARD DRAWING STD-W-28 AT ALL TEES, BENDS, TAPERS, DEAD ENDS AND PIPES AT STEEP SLOPES.
- ANTI-CORROSION TAPE TO BE PROVIDED AROUND BURIED FLANGES.
- ALL CONCRETE TO BE IN ACCORDANCE WITH IS EN 206.

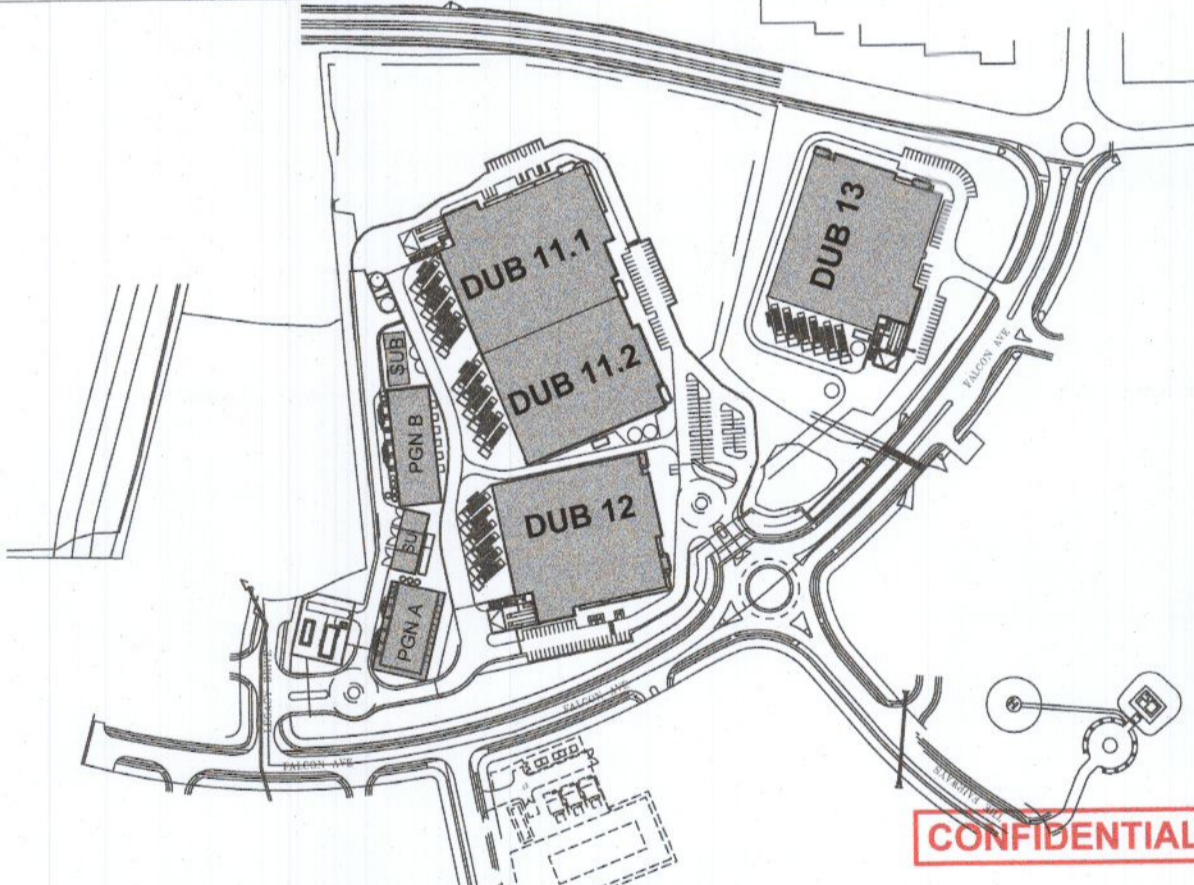


**ON - LINE HYDRANT FOR POLYETHYLENE (P.E.) PIPE**

- ALL DIMENSIONS IN MILLIMETRES (mm) UNLESS NOTED OTHERWISE
- HYDRANT CHAMBERS SHALL BE COVERED WITH APPROVED HEAVY DUTY METAL COVERS TO IS 261 OR BS 5634 COVER AND FRAME SHALL BE SUITABLE FOR ROAD AND TRAFFIC CONDITIONS AND IS SUBJECT TO THE APPROVAL OF IRISH WATER.
- ALL HYDRANTS, SURFACE BOX FRAMES & COVERS SHALL COMPLY WITH THE RELEVANT PROVISIONS OF IS EN 14339, IS EN 1074-6 & BS 750. FIRE HYDRANTS SHALL BE TYPE 2. THE HYDRANT INLET SHALL BE 80mm DIAMETER WITH PN16.
- ALL HYDRANTS SHALL BE CLOCKWISE CLOSING.
- HYDRANT CHAMBER TO BE CONSTRUCTED OF PRECAST CONCRETE UNITS OR HIGH DENSITY BLOCKWORK. ALTERNATIVELY PROPRIETARY PREFABRICATED CHAMBER UNITS MAY ALSO BE USED. SUBJECT TO APPROVAL FROM IRISH WATER.
- CONCRETE CHAMBERS SHALL BE SURROUNDED BY A MINIMUM OF 150mm COMPACTED CLASS B08 MATERIAL AS PER STD-W-13.
- DUCTILE IRON PIPES AND FITTINGS TO BE IN ACCORDANCE WITH IS EN 546. PE PIPES AND FITTINGS TO BE IN ACCORDANCE WITH IS EN 12201-2011.
- 200mm ALL AROUND, 100mm DEEP CONCRETE PLINTH WITH PROTECTIVE STAINLESS STEEL METAL BAND AROUND COVERS IN GREEN AREAS.
- THRUST BLOCKS (NOT SHOWN ON DRAWING), TO BE PROVIDED AS PER STANDARD DRAWING STD-W-28 AT ALL TEES, BENDS, TAPERS, DEAD ENDS AND PIPES AT STEEP SLOPES.
- ANTI-CORROSION TAPE TO BE PROVIDED AROUND BURIED FLANGES.
- ALL CONCRETE TO BE IN ACCORDANCE WITH IS EN 206.

**PLANNING SUBMITTAL  
 NOT FOR  
 CONSTRUCTION**

|     |            |          |            |                     |
|-----|------------|----------|------------|---------------------|
| Rev | 09/09/2022 | AMB      | SOR        | ISSUED FOR PLANNING |
| Rev | Rev. Date  | Drawn By | Checked By | Description         |



Client: **VANTAGE**  
 Architect: **PINNACLE CONSULTING ENGINEERS**  
 Mechanical/Electrical/Public Health/Automotive/Telecoms/Security/IT/Protection Engineer: **BURNS & McDONNELL**  
 Structure/Civils Engineer: **PINNACLE CONSULTING ENGINEERS**

BIM coordinator: AMB  
 Approved by: JM  
 Checked by: SOR  
 Drawn by: AMB

Project address:  
 Profile Park, Dublin 22, Ireland  
 53° 19' 1.40"N 6° 26' 40.80"W

Drawing title:  
**STANDARD WATER INFRASTRUCTURE DETAILS**  
 Sheet number: **C501**

|                |        |         |            |                             |      |
|----------------|--------|---------|------------|-----------------------------|------|
| Format / Size: | Scale: | Status: | Date:      | File Code:                  | Rev: |
| A1 594641      | 1:500  | ISSUED  | 09/09/2022 | DUB13-DR-XX-C501-V2-WS3-PIN | V2   |