



Legend / Quantities			
Item	Type	Unit	Warehouse
●	74°C - 25mm Ø Brass Pendant ESFR application K=300		2040
●	93°C - Conventional pattern brass sprinkler K=80		0
Pipe	800	m	7000
Pipe	1000	m	
Pipe	1500	m	600
Pipe	2000	m	250
Pipe	2500	m	
Elbow	800		14
Elbow	1000		
Elbow	1500		6
Elbow	2000		7
Reducers	200-150		4

- GENERAL NOTE**
- The design and content of this drawing is the property of KCS and shall remain confidential. It is not to be used for any other project without the written consent of KCS.
- PIPING NOTES**
- FIRE PROTECTION PIPING SUPPLY MAIN TO BE 250NB SCH 40, GALVANISED
 - FIRE PROTECTION PIPING IN (EARTHEN) TRENCHES TO BE AS FOLLOWS:
 - Type Class 16
 - Fully Galvanized, including flanges, nuts, bolts and washers
 - Complete pipework, insulation, to be degreased using Placon - GR1 - Aquasolv - Degreaser of approved supplier equivalent for Wrapid Bond application
 - Puty around all flange connections, including bolt cluster for sealed Wrapid Bond installation
 - Wrapid Bond complete underground pipe installation, to Canusa CPS specification
 - ALL FIRE PROTECTION PIPING AND INSTALLATION THEREOF TO COMPLY WITH NATIONAL RELEVANT REGULATIONS
- SPRINKLER NOTES:-**
- MAXIMUM NUMBER OF ESFR SPRINKLERS IN OPERATION = 12.
 - SPRINKLER K FACTOR = 32.
 - SPRINKLER OPERATING PRESSURE = 350kPa.
 - FLOW PER SPRINKLER = 599 L/min.
 - SYSTEM MAXIMUM FLOW = 7184 L/min.

Notes:

- Incoming mains
- Gear operated stop valve
- Alarm valve
- Main feed to installation
- Booster connections
- Flushing valve Ø50mm
- Water supply pressure gauge
- Installation pressure gauge
- Test pipe
- Spool piece
- Installation Ø50mm drain pipe
- A.S.I.B. Popping apparatus, CH3 FSD Type
- Gear operated test valve
- Alarm pressure switch
- Drain valve Ø50mm
- Alarm stop valve (Normally open)
- 15mm alarm bypass valve (Normally closed)
- Drip union
- Alarm stainer
- Alarm motor and gong
- Alarm drain pipe
- False alarm pump
- False alarm pump delivery non-return valve
- False alarm pump delivery stop valve
- False alarm pump suction isolating stop valve
- Sprinkler point
- Flow switch
- Pressure & Flow switch test valve
- Compensating By-pass
- Service bypass non-return valve
- Service bypass pipe

Legend:

- Ball Valve
- Union
- Non-return valve
- Strainer
- Jockey Pump
- Power Point (by others)

GA OF ICV CHAMBER

PROJECT TEAM

Project Managers:

Architects:

Quantity Surveyors:

Civil Engineers:

Structural Engineers:

Electrical & Mechanical Engineers:

CLIENT

east london idz

TENANT

Project: OE/001/2022 DTSA

Drawing Title: Fire Sprinklers to Sequencing Facility

Date: 10/10/2024 **Drawn:** B.M.E. **Scale:** 1:200 **Checked:** D.P.

Approved:

Signature: **Date:**

For Tender Purposes

Drawing Number: 3244-FP-02

Revision: 0

ESFR SPRINKLER HEAD INSTALLATION

PERMITTED OBSTRUCTIONS:

- NO OBSTRUCTION
- MAX OBSTRUCTION 51mm
- MAX OBSTRUCTION 35mm
- MAX OBSTRUCTION 610mm