



- NOTES:
- The contractor shall agree the exact make, model and closing direction of sluice valves and hydrants with the Local Authority & Local Inspector.
  - All boxes shall be approved Local Authority type and to their standard pattern.
  - Watermains shall be tested in conjunction with the Local Authority to a minimum pressure of 10 Bars(150psi).
  - Anchor blocks of grade C20/25 Type F concrete shall be provided on watermains at dead ends, tees, bends of greater curvature than 11.25° and at both sides of sluice valve chambers.
  - All pipework shall be thoroughly flushed out, stabilised with chlorine and then scoured and flushed out again in conjunction with Local Authority.
  - Hydrant covers shall be painted canary yellow (BS 381C) and be in paved non-vehicular areas.
  - Air valves shall be provided at all summits on pipelines of 150mm(D) Ø or greater.
  - Pipes should be jointed strictly in accordance with manufacturer's requirements.
  - Watermains pipe type(s) to be PVC-A, MDPE, HDPE or DI to POGA Specification, Cl 6.2. Acceptable pipe diameter for each pipe type is as follows:
    - PVC-A, max 160mm (OD)
    - MDPE and HDPE, max 315mm(OD)
    - DI, between 100-600mm (ID)
  - For pipes greater than 600mm refer to Engineer for approval.
  - All watermain pipes to have minimum 9 bar working pressure rating and should be blue in color.
  - Cover to watermains in roadways to be advised by the Local Authority.
  - All changes in both vertical and horizontal alignment greater than 4° to be supported by a concrete anchor block.
  - Distribution Watermains shall be laid in public areas and be kept a minimum distance from existing structures. Distance to be specified by the engineer.
  - Air valve locations to be accurately set out at summit points on site.
  - The watermains are to have rounded single sized pebble of 10mm nominal diameter surround. Backfill the trenches with NRA SRW clause 804 compacted in layers not exceeding 225mm. It shall be suitable for the end use & in compliance with the properties set out in Annex C of S.R.21, with the exception with the sulphate content which should be in accordance with TRL.
  - Depth of finished ground to the outlet of the Hydrant not to be greater than 400mm.
  - Boundary Box to be provided on all connection and should be located in pedestrian areas not accessible by vehicular traffic, locations and type to be agreed with Local Authority prior to installation.
  - All materials and details to comply with Local Authorities 'Guidelines for the Laying of Distribution Watermains'
- NOTES ON MARKERS:
- When a suitable wall is available the sign shall be fixed to it, at a location to be agreed with the Architect.
  - Indicator posts shall be constructed with 10mm grade C30/35 concrete, reinforced with 6mmØ galvanised bars.
  - Hydrant indicator plates shall be canary yellow (BS 381 C) with black lettering to BS 3251.
  - Plates shall be bolted to posts/walls with non-corrosive metal bolts, which shall be compatible with the plate metal.

WATERMAIN LEGEND	
	PROPOSED PVC-A WATERMAIN
	EXISTING WATERMAIN
	EXISTING SLUICE VALVE
	EXISTING HYDRANT
	PROPOSED BOUNDARY BOX AND 1/2" HOUSE CONNECTION PIPE

REV.	DATE	DESCRIPTION	BY

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**PROJECT**  
**PROSPEROUS HOUSING**

**DRAWING TITLE**  
**WATERMAIN LAYOUT**

ARCHITECT		STAGE	
MCORM		PART 8	
DATE	CHECKED	DRAWN	SCALES
FEB 2017	PM	NM	AS SHOWN
DWG NO.			REV.
1642-102			0

**SITE PLAN**  
 SCALE 1:200