

- 1. Drawings to be read in conjunction with all Architects', Services and Structural Engineers'
- 2. Topographical survey is based on Midland Surveys Ltd. drawing number 37436
- 3. Refer to architects' drawings for current floor layouts rainwater pipe and internal drainage
- 4. All drainage works shall be carried out in accordance with the specification contained within
- Sewers For Adoption 6/7th edition and addendums as appropriate including the requirements of the local authority and in conjunction with all relevant British Standards and codes of practice
- 5. Drawings to be read in conjunction with any specifications issued with the stage drawings
- 6. All drainage shall comply with the requirements of BS EN 752:2008, The Building Regulations ADH and typical drainage construction details
- 7. Private pipework may be either vitrified clay to BS 65:1991 and BS EN 295:2013. Thermonlastic Structured Wall (SN4 Min) to BS EN 13476 or UPVC (UD / SN4 Min) to BS EN 1401 and shall
- 8. 150mmØ pipework for public sewer diversion/adoption to be vitrified clay pipes, kitemark certified with flexible spigot and sockets joints complying with BS EN 295:2013. pipes 300mmØ and
- 9. All new and existing sewers to be retained are to be jet-cleaned and condition-surveyed by CCTV on completion of the works by the contractor. Applies also to the existing drains adjacent the new building and the site boundary. An additional CCTV survey of all drains beneath
- be repaired or replaced as required using appropriate and approved methods. 10. Access covers and frames shall comply with the loadings specified and to bs en 124:2015 and
- 11. All drainage connecting to the public sewer shall not commence until approval has been sought
- 12. No works are to be carried out in the public highway without relevant approval from the highways authority and utilities companies, works to be carried out by approved contractors only or
- 13. Existing information shown to be verified on site including kerblines, drains, chambers, sewers,
- stub connections, existing invert levels and pipe sizes, any discrepancies to be reported to the engineer prior to any new construction.
- 14. Cover levels of manholes shown are approximate and are intended for guidance only and shall be adjusted to suit finished pavement levels on site by contractor. covers to be orientated to suit
- 15. Existing access covers and frames to be retained shall be checked to ensure they are of a
- 17. Foul stack connections under building to be 100mmØ laid to minimum 1 in 40 gradient unless
- 18. Foul drainage external to the building to be 100mmØ laid to a minimum 1 in 80 gradient where
- 19. All under-slab drainage to be clear of foundations unless shown otherwise with long radius bends
- 20. Soil pipe at head of each run to be vented to atmosphere.
- 21. DP connections and all SW drainage to be laid to minimum 1 in 100 gradient and 100mmØ
- 22. Any drainage constructed within 5 m of new or existing trees to be provided with proprietary root barriers installed in accordance with manufacturers details to mitigate against the risk of root
- 23. Where clearance between two pipe crossing is less than 300mm pipes shall be concrete
- 24. Existing drainage shall be assumed to be live and appropriately maintained at all times during the works. existing drainage to be reconnected to newly constructed drainage system unless proven
- 25. Ends of any existing drains/sewers to be abandoned are to be plugged with Gen 3 concrete.
- 26. Unless agreed with the Building Control Officer (ref SFA7) Class Z bedding (concrete bed and surround) required where: - refer to details.
- Thermoplastics with less than 900mm cover Dimensions are from finished levels beneath traffic areas including footways likely to be overrun
- concrete bed and surround. class z concrete bed and surround with flexcell at pipe joints required to internal drains, with concrete backfill.
- 28. Refer to services consultants for details of existing and proposed services' / utility apparatus locations and protection/ diversions required.
- 29. The works shall be carried out by competent and experienced contractors. all operatives to have appropriate training with appropriate qualifications for the duties they are required to undertake.
- 30. Additional channel bends in manholes are required to assist branch flow directions, dependant
- 31. Chamber types to be Type 3 in accordance with Sewers for adoption 7th edition unless noted



## Richard Strauss Associates

Consulting Structural Engineers 14 Seymour Road Stratford-upon-Avon

## Bishops Itchington Parish Council

**Proposed Pavillion** Bishop's Itchington Sports Pavilion Chapel Street, Bishop's Itchington

## Foul and Surface Water Drainage

Drawn	Authorised	Scale	Project Number	
RG	RS	1:100	9982	
Status	Date		Drg. no	Rev
1	DEC'20		01	ı