



Notes

1. THIS DRAWING IS THE COPYRIGHT OF TIER CONSULT LTD AND CANNOT BE REPRODUCED IN ANY FORM WITHOUT WRITTEN CONSENT FROM THE COMPANY.
2. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT ARCHITECTS', ENGINEERS AND SPECIALISTS' DRAWINGS TOGETHER WITH THE APPROPRIATE SPECIFICATION.
3. ALL DIMENSIONS ARE IN MILLIMETRES UNO. FOR THE PURPOSES OF CONSTRUCTION THIS DRAWING MUST NOT BE SCALED AND ONLY WRITTEN DIMENSIONS USED. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CHECK ALL DIMENSIONS ON SITE PRIOR TO CONSTRUCTION AND ANY DISCREPANCIES TO BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ENGINEER IN WRITING.
4. ALL LEVELS ARE IN METRES UNO & TO OS DATUM.
5. THE WORKS SHALL BE IN ACCORDANCE WITH THE NATIONAL BUILDING SPECIFICATION.
6. THE LOCATION LINE & LEVEL OF ALL KNOWN EXISTING DRAINAGE PIPEWORK INDICATED ON THE DRAWINGS ARE APPROXIMATE AND FOR GUIDANCE PURPOSES ONLY.
7. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THEIR EXACT LINE AND LEVEL, BY WAY OF HAND EXCAVATED TRIAL PITS, PRIOR TO THE COMMENCEMENT OF ANY EXCAVATION WORKS ON SITE. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS AND MAINTAIN THE STRUCTURAL INTEGRITY OF ALL ABOVE AND BELOW GROUND SERVICE INSTALLATIONS.
8. THE CONTRACTOR SHALL MAKE ADEQUATE PROVISION FOR DEALING WITH AND DISPOSING OF GROUND/SURFACE WATER ENCOUNTERED DURING EXCAVATIONS.
9. ALL SOFT / HARD PAVED AREAS AFFECTED BY THE WORKS SHALL BE FULLY REINSTATED FOLLOWING THE INSTALLATION OF ALL DRAINAGE WORKS. ALL SURFACE MARKINGS AFFECTED BY THE WORKS SHALL BE FULLY REINSTATED.
10. UPON COMPLETION OF THE WORKS THE CONTRACTOR SHALL PROVIDE AS BUILT SETTING OUT CO-ORDINATE AND LEVEL INFORMATION.
11. PIPEWORK WITH LESS THAN 750mm OF COVER IN TRAFFICKED AREAS TO BE CONCRETE ENCASED. (BEDDING CLASS 2)
12. PIPEWORK WITH MORE THAN 750mm OF COVER TO HAVE CLASS 5 GRANULAR BED AND SURROUND.
13. POLYPROPYLENE INSPECTION CHAMBERS OF 5000 x 1.2m DEEP TO BE FITTED WITH A REDUCED ACCESS FITTING.
14. SVP CONNECTIONS TO BE 100mm DIA UNO.
15. ALL FO AND RWP LOCATIONS TO BE TO BE COMPLETE WITH A LOW LEVEL ACCESS PLATE FOR RODDING.
16. WHERE PROPOSED DRAINAGE PIPEWORK RUNS ARE IN CLOSE PROXIMITY TO THE NEW FOUNDATIONS, THE CONTRACTOR SHALL ALLOW FOR EXTENDING THE DEPTH OF NEW FOUNDATIONS IN LEAN MIX CONCRETE DOWN TO THE PROPOSED PIPE BEDDING LEVEL.
17. PRECAST MANHOLES TO COMPLY WITH BS EN 1917:2002.
18. POLYPROPYLENE CHAMBERS TO COMPLY WITH BS EN 13598-1:2010.
19. CLAY PIPES TO COMPLY WITH BS EN 295-1:2013.
20. CONCRETE PIPES TO COMPLY WITH BS EN 1916:2002.
21. PLASTIC PIPE ALTERNATIVES:
IF THE CONTRACTOR INTENDS TO USE PLASTIC PIPEWORK IN ACCORDANCE WITH BS EN 13598-1:2010 - THE FOLLOWING STANDARDS WILL BE REQUIRED:
DRAINAGE CONNECTIONS OF LESS THAN 1500 SHALL BE SOLID WALL UPVC PIPES COMPLYING WITH BS EN 1401-1:2009.
PIPE SIZES 150-9000 (TO BE USED IN FOUL OR COMBINED FLOW DRAINAGE SYSTEMS) SHALL BE THERMOPLASTIC STRUCTURED WALL PIPE COMPLYING WITH WS 4-35-01
PIPE SIZES 150-9000 (TO BE USED IN SURFACE WATER DRAINAGE SYSTEMS) SHALL BE THERMOPLASTIC STRUCTURED WALL PIPES WITH BBA & HAPAS ACCREDITATION.
THE CONTRACTOR SHALL SUBMIT DETAILS OF THE PROPOSED PLASTIC PRODUCTS FOR APPROVAL BY THE ENGINEER.

Notes

- SITE BOUNDARY.
- Ex. SURFACE WATER DRAIN.
- Ex. SURFACE WATER DRAIN TO BE ABANDONED.
- PROPOSED SURFACE WATER DRAIN. (TYPICALLY 1000 FROM RWP AND 1500 FROM RG/SU UNO)
- PROPOSED SURFACE WATER PRECAST CONCRETE MANHOLE.
- PROPOSED SURFACE WATER POLYPROPYLENE INSPECTION CHAMBER.
- PROPOSED LINEAR DRAINAGE CHANNEL AND ASSOCIATED SUMP OUTLET.
- PROPOSED TRAPPED ROAD GULLY.
- PROPOSED RAINWATER DOWN SPOUT.
- PROPOSED FOUL DRAIN (TYPICALLY 1000 UNO).
- PROPOSED FOUL PRECAST CONCRETE MANHOLE.
- PROPOSED FOUL POLYPROPYLENE INSPECTION CHAMBER.
- PROPOSED FOUL OUTLET.

PI	03.04.2020	CCP	ISSUED FOR COMMENT	30	P10
Rev.	Date	By	Description	238	App.
PRELIMINARY					
Client			 TIER CONSULT. Richmond House, Sandpiper Court, Chester Business Park, Chester I CH4 9QZ T: 01244 684 900		
Project			 TENSION CONTROL BOLTS		
Title			TCB BUILDING EXTENSION. WREXHAM INDUSTRIAL ESTATE.		
Scale			1:200@A0		
Date			27.03.2019		
Drawing No.			T_19_2265-55-01		
Revision			P1		