



RISK ASSESSMENT- SIGNIFICANT RISKS THAT CANNOT BE DESIGNED OUT			SUGGESTED ACTION
RISK	LEVEL OF RISK (H/M)		
DEEP EXCAVATIONS ASSOCIATED WITH DEEP DRAINAGE WORKS	HIGH		ENSURE ALL EXCAVATIONS HAVE ADEQUATE TRENCH SUPPORTS AND ARE FENCED OFF TO PROTECT FROM FALLS.
HANDLING LARGE DIAMETER MANHOLE AND SOAKAWAY RINGS	HIGH		USE CORRECT LIFTING EQUIPMENT AND ENSURE OPERATIVES WEAR THE CORRECT PERSONAL PROTECTIVE EQUIPMENT.
CONTACT WITH SERVICES/WORKING IN CONFINED SPACES	MEDIUM		USE GAS DETECTORS/BREATHING EQUIPMENT AND ENSURE OPERATIVES WEAR THE CORRECT PERSONAL PROTECTIVE EQUIPMENT.
NOISE FROM MACHINERY	MEDIUM		OPERATIVES TO WEAR THE CORRECT EAR PROTECTION.
EXCAVATIONS NEAR TO UTILITIES	HIGH		UTILITY MAPS TO BE INSPECTED AND APPARATUS LOCATED USING APPROPRIATE EQUIPMENT PRIOR TO EXCAVATION.
EXCAVATIONS IN PUBLIC HIGHWAY	HIGH		ENSURE ALL EXCAVATIONS HAVE ADEQUATE TRENCH SUPPORTS AND ARE FENCED OFF TO PROTECT FROM FALLS. ENSURE THE CORRECT SIGNAGE/TRAFFIC CONTROL IS USED.
IT IS ASSUMED THAT WORKS ASSOCIATED WITH THIS DESIGN WILL BE UNDERTAKEN BY A PERSON(S) WHO ARE COMPETENT AND HAVE THE REQUIRED LEVEL OF EXPERIENCE AND EXPERTISE.			

KEY

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- Existing Public surface water sewer to remain
- Existing Public combined sewer to remain
- Proposed adoptable surface water sewer
- Proposed adoptable foul sewer
- Proposed foul lateral
- Proposed surface water lateral
- Proposed gully

NOTES

All drainage connection points to be located and checked for position and level prior to the commencement of any works.

Ordnance Survey Grid & Datum
(Trimble GPS System OSTN02)

10. Ducting and ductfill material to conform to the requirements of *Water Industry Specification Code of Practice (Table A2)*.
11. If a new connection is made to an existing sewer, new connection may need to be increased an incentive to accommodate the connections.
12. *Verstee Water policy* is not to accept 'Type 'C' brick manholes and 1000mm dia manhole rings. Instead it is preferred that you use a 'Type 'B' manhole and 1000mm dia manhole rings. If you do use a 'Type 'C' manhole over the channel where depth of cover to pipe soffit is 1.0-1.2m.
13. Show ductfill is required to all sewer manholes under vehicular roads and footpaths. All manholes under roads subject to the written approval of the drainage authority.

14. All 150mm x 325mm slabs pipes to be cast in comply with the relevant provisions of BS 6911. Strength class 120 or EN 1916/BS 6911-1. Minimum pipe casting strength to be 150mm dia. 40kN/m, 225 dia. 45kN/m. All pipes 300mm dia and above to be concrete pipes to comply with the relevant provisions of BS 6911. Strength class 120 or EN 1916/BS 6911-1. All concrete and materials used approved. The mix to be used shall be approved by the Engineer. 150mm dia. 40kN/m, 225 dia. 45kN/m. All pipes 300mm dia and above to be concrete pipes to comply with the relevant provisions of BS 6911. Strength class 120 or EN 1916/BS 6911-1. All concrete and materials used approved. The mix to be used shall be approved by the Engineer. 150mm dia. 40kN/m, 225 dia. 45kN/m. All pipes 300mm dia and above to be concrete pipes to comply with the relevant provisions of BS 6911. Strength class 120 or EN 1916/BS 6911-1. All concrete and materials used approved. The mix to be used shall be approved by the Engineer.

Screw down covers are not acceptable.

Preliminary

Rev	Details	Date	Dwn	Chk.
B	Sewer easement added after margin added	10-11-21	AST	
A	Notes added re: connection points, easement dims added	26-5-21	AST	

Laitnes Close

Athersley South, Barnsley

Engineering Plan

Dwg No.: STE/20/18/01 B

Date : 17-12-20

Scale : 1:200

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