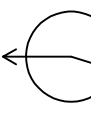
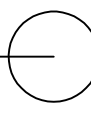
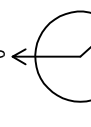
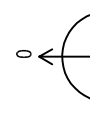
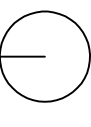
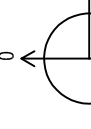
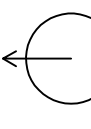
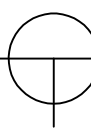
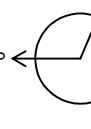
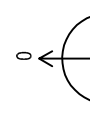
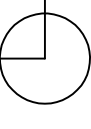
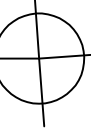
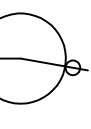
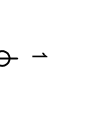
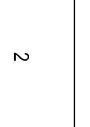
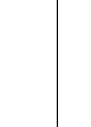


Manhole Number	Cover Level	Connections	Pipe			Manhole Size	Types	
			Code	Inverts	Dams Invert		Manhole	Cover
F1	87.203 1.700					1200	Unknown	D400
E. 434248.630 N. 407353.267			0	1.000	85.333	150		
F2	86.860 1.707		1			1200	Unknown	D400
E. 434253.576 N. 407374.582			0	1.001	85.103	150		
F3	87.314 1.700					1200	Unknown	D400
E. 434250.696 N. 407355.523			0	2.000	85.464	150		
F4	86.267 1.443		1			1200	Unknown	D400
E. 434275.250 N. 407352.009			0	2.001	84.684	150		
F5	86.272 1.700		1 2	1.001 2.001	84.422 84.422	150	1500	Unknown
E. 434262.612 N. 407526.195			0	1.002	84.422	150		
F6	87.066 1.689					1200	Unknown	D400
E. 434262.416 N. 407473.973						150		

Manhole Number	Cover Level	Connections	Pipe			Manhole Size	Types	
			Code	Inverts	Dams Invert		Manhole	Cover
F7	86.206 1.989		1 2	1.002 3.000	84.058 84.058	150	1500	Unknown
E. 434264.684 N. 407462.497			0	1.003	84.058	150		
F8	86.789 1.700					1200	Unknown	D400
E. 434274.212 N. 407531.379			0	4.000	84.339	150		
F9	86.011 2.144		1 2	1.003 4.000	83.317 83.317	150	1200	Unknown
E. 434302.991 N. 407326.695			0	1.004	83.317	150		
F10	85.898 2.031		1			1200	Unknown	D400
E. 434317.219 N. 407442.661			0	1.005	83.628	150		
F11	85.823 1.910		1			1200	Unknown	D400
E. 434330.324 N. 407525.674			0	1.006	83.463	150		
F12	85.529 2.208		1			1200	Unknown	D400
E. 434344.141 N. 407330.375			0	1.007	83.171	150		

Manhole Number	Cover Level	Connections	Pipe			Manhole Size	Types	
			Code	Inverts	Dams Invert		Manhole	Cover
S10	86.022 1.510		1 2 3	5.000 1.003 4.000	84.288 84.137 84.287	225	1500	Unknown
E. 434354.624 N. 407437.882			0	1.004	84.062	450		
S11	86.100 1.889		1			2100	Unknown	D400
E. 434363.732 N. 407423.254			0	1.005	82.811	1800		
S12	85.808 0.900					1200	Unknown	D400
E. 434376.051 N. 407381.004			0	6.000	84.653	225		
S13	85.431 0.955		1			1200	Unknown	D400
E. 434342.197 N. 407391.225			0	6.001	84.251	225		
S14	85.552 0.900					1200	Unknown	D400
E. 434330.044 N. 407422.273			0	7.000	84.482	150		
S15	85.427 1.061		1 2	6.001 7.000	84.141 84.216	225	1500	Unknown
E. 434338.878 N. 407397.679			0	6.002	84.086	300		

Manhole Number	Cover Level	Connections	Pipe			Manhole Size	Types	
			Code	Inverts	Dams Invert		Manhole	Cover
S16	85.842 1.538		1			2700	Unknown	D400
E. 434323.794 N. 407394.201			0	6.003	82.504	1800		
S17	85.900 3.349		1 2	6.003 1.005	82.451 82.451	1600	2700	Unknown
E. 434320.809 N. 407396.823			0	1.006	82.401	150		
S18	85.746 3.254		1			1200	Unknown	D400
E. 434322.556 N. 407385.327			0	1.007	82.342	150		
S19	85.888 3.328		1			1200	Unknown	D400
E. 434311.575 N. 407380.875			0	1.008	82.220	150		
S20	84.657 2.548		1			1200	Unknown	D400
E. 434327.085 N. 407356.554			0	1.009	81.959	150		
S21	83.600 1.749		1			1200	Unknown	D400
E. 434322.034 N. 407335.761								

- NOTES
- All pipes shall be either:
A - vitrified clay to BS EN 250 with a minimum crushing strength as follows :-
225 kN - 45 kN/m
300 kN - 72 kN/m
B - P.V.C. (certified to MS 4-35-C1)
C - Class 120 concrete to BS 5911-1:2000/EN 1916.
 - All pipes should always connect to soft unless noted otherwise.
 - All sewers to have BS1 Manhole status certified to MS 4-35-C1 & BS EN 13781. Maximum pipe length to be 3m. Plastic channel sections in manholes are not acceptable. Clay channel sections shall be used.
 - Sewers to be laid in Class "C" bedding (150mm granular bed and surround). Where depth of cover to soft is 150mm or more, Class "B" bedding (150mm granular bed and surround) shall be used. Where depth of cover to soft is 150mm or more, Class "B" bedding (150mm granular bed and surround) shall be used. Bedding and backfill material to conform to MS 4-08-C2 (Table 2) for P.V.C. pipes.
 - Manhole covers shall have a clear opening of 600 and shall be class D400 to BS EN 124 with 150 deep kerbs. All covers shall be cast in situ concrete and shall be class D400 to BS EN 124 with 150mm kerbs.
 - Pipes entering manholes and road gullies shall have a flexible joint within 500 of the inside the manhole or gully fitting with a short rubber pipe.
 - The adaptable sewers should be a minimum of 1m and manholes 1.5m from kerb faces and service manholes.
 - Sewers may have 5m distance from trees and hedges (refer to Figure 2.3 page 33 in "Sewers for Adoption" 1991 Edition) or restrictions on tree planting adjacent to sewers.
 - All kerbsides in cuts and paved areas shall be backfilled with Type 1 DDT granular sub-base material or other granular material approved by the highway authority.
 - Filled ground must be filled and consolidated under the supervision and to the satisfaction of Yorkshire Water before any sewer works are carried out.
 - All rubble concrete to be designated mk F402 to BS 5303 - 1 unless agreed otherwise.
 - The invert levels at the proposed points of connection to existing public sewers shall be checked before any new drains are constructed. Any variation to the levels shown on the drawing shall be notified to Eastwood & Partners.
 - The chamber size of manholes with more than one connection in them may need to be increased by an increment to accommodate the connections and bends.
 - Cover levels are indicated only. Covers to be set to suit camber/gradients of existing and proposed roads.
 - Cover slabs must carry the BS1 Manhole or will be replaced by the Yorkshire Water Inspector. Where the clear opening of the Manhole product is different to that of the cover and frame, a lead bedding slab should be fitted above the cover slab to bring the size down to 600x600, refer to CP541 Technical Bulletin based autumn 2004 for Minimum cover slab opening sizes.
 - All surface water lateral sewers and drains to be 1500 unless noted otherwise. All 600 lateral sewers and drains to be 1000 unless noted otherwise.
 - Yorkshire Water effect is not to exceed Type "C" hole manholes and 1050mm manhole deep. Maximum Type "B" manhole 400 x 1500mm or 1500mm deep, with the opening slab over the channel where depth of cover to pipe shall be 1-1.5m.
 - Manhole covers must have a clear opening of 600mm and shall be Class D400 to BS EN 124 with 150mm kerbs, unless in highway.

1. First Issue.

REV

DESCRIPTION

SIG

CHK

DATE

MILLER HOMES

HONEYWELL LANE, BARNSELEY

MANHOLE SCHEDULE

DRAWN

CHECKED

DATE

12.07.16

DRAWING NUMBER

38903/019

REV

A

NTS

DRAWING STATUS

PRELIMINARY

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EAOP

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