H-3-263-???

Manhole Number / Coordinates	Cover Level / Depth To Soffit	Connections	Pipe: Code	Pipe: Inverts	Pipe: Diams Inv-soff	Manhole Size	Types: Manhole	Types: Cover
F1 E. 415188.769 N. 407036.657	272.321 1.500	0	0	1.000 270.671 150		1200	B	D400
F2 E. 415167.433 N. 407044.142	272.496 1.958	1 0	1 0	1.000 270.388 150 1.001 270.388 150		1200	B	D400
F3 E. 415160.539 N. 407058.487	272.012 1.673	1 0	1 0	1.001 270.189 150 1.002 270.189 150		1200	B	D400
F4 E. 415171.045 N. 407088.435	270.934 1.500	1 0	1 0	1.002 269.284 150 1.003 269.284 150		1200	B	D400
F5 E. 415185.838 N. 407095.544	270.399 1.500	1 0	1 0	1.003 268.749 150 1.004 268.749 150		1200	B	D400
F6 E. 415209.192 N. 407087.352	269.483 1.500	1 0	1 0	1.004 267.833 150 1.005 267.833 150		1200	B	D400

Manhole Number / Coordinates	Cover Level / Depth To Soffit	Connections	Pipe: Code	Pipe: Inverts	Pipe: Diams Inv-soff	Manhole Size	Types: Manhole	Types: Cover
F7 E. 415220.377 N. 407121.627	268.034 1.500	1 0	1 0	1.005 266.384 150 1.006 266.384 150		1200	B	D400
F8 E. 415176.256 N. 407148.446	269.118 3.124	1 0	1 0	1.006 265.844 150 1.007 265.844 150		1200	A	D400
F9 E. 415220.462 N. 407223.109	266.285 1.200	1 0	1 0	1.007 264.935 150 1.008 264.935 150		1200	B1/E	D400
F10 CONNECTION TO EXISTING E. 415263.747 N. 407295.573	262.589 1.200	1 1	1	1.008 261.239 (TBC) Invert level to be confirmed on site prior to start of construction. New manhole may be required. EX 261.239 (TBC)	150 150	1200	B1/E	D400
S1 HIGHWAY DRAIN E. 415181.786 N. 407010.845	273.605 0.900	0	0	1.000 272.480 225		1200	S	D400
S2 HIGHWAY DRAIN E. 415191.135 N. 407037.316	272.201 0.900	1 0	1 0	1.000 271.076 225 1.001 271.076 225		1200	S	D400

Manhole Number / Coordinates	Cover Level / Depth To Soffit	Connections	Pipe: Code	Pipe: Inverts	Pipe: Diams Inv-soff	Manhole Size	Types: Manhole	Types: Cover
S3 HIGHWAY DRAIN CATCHPIT MANHOLE E. 415176.930 N. 407042.732	272.521 1.420	1 0	1 0	1.001 270.876 225 1.002 BASE 270.876 270.126 225		1200	B1/E	D400
S4 HIGHWAY SOAKAWAY HSA1 E. 415178.869 N. 407049.128	272.400 1.399	1	1	1.002 270.776 225		Refer to Highway Soakaway Construction details.		
S5 HIGHWAY DRAIN E. 415164.665 N. 407063.319	271.754 0.900	0	0	1.000 270.629 225		1200	S	D400
S6 HIGHWAY DRAIN E. 415173.205 N. 407086.758	270.850 0.900	1 0	1 0	1.000 269.725 225 1.001 269.725 225		1200	S	D400
S7 HIGHWAY DRAIN E. 415186.676 N. 407092.931	270.300 0.900	1 0	1 0	1.001 269.175 225 1.002 269.175 225		1200	S	D400
S8 HIGHWAY DRAIN CATCHPIT MANHOLE E. 415194.612 N. 407090.037	270.031 1.081	1 0	1 0	1.002 268.725 225 1.003 BASE 268.725 267.975 225		1200	B1/E	D400

Manhole Number / Coordinates	Cover Level / Depth To Soffit	Connections	Pipe: Code	Pipe: Inverts	Pipe: Diams Inv-soff	Manhole Size	Types: Manhole	Types: Cover
S9 HIGHWAY SOAKAWAY HSA2 E. 415193.986 N. 407083.425	270.000 1.400	1	1	1.003 268.375 225		Refer to Highway Soakaway Construction details.		
S10 HIGHWAY DRAIN E. 415211.708 N. 407089.221	269.368 0.900	0	0	1.000 268.243 225		1200	S	D400
S11 HIGHWAY DRAIN CATCHPIT MANHOLE E. 415223.370 N. 407122.515	267.925 0.900	1 0	1 0	1.000 266.800 225 1.001 BASE 266.800 266.050 225		1200	S	D400
S12 HIGHWAY SOAKAWAY HSA3 E. 415226.058 N. 407129.580	267.300 0.900	1	1	1.001 266.175 225		Refer to Highway Soakaway Construction details.		

INFORMATION WITHIN THIS DRAWING IS NOT NECESSARILY PRODUCED TO SCALE. ALWAYS USE FIGURED DIMENSIONS AND CO-ORDINATES - IF IN DOUBT, ASK.

NOTES

1. All pipes shall be either:

   A - Vitrified clay to BS EN 295 with a minimum crushing strength as follow :-
   150 dia. - 40 kN/m
   225 dia. - 45 kN/m
   300 dia. - 72 kN/m

   B - PVC (certified to WIS 4-35-01 & bs en 13476)

   C - Class 120 concrete to BS 5911-1:2002/EN 1916.

2. All pipes should always connect soffit to soffit unless noted otherwise.
3. All sewers to have BSI kitemark status (certified to WIS 4-35-01 & BS EN 13476). Maximum pipe length to be 3m. Plastic channel sections in manholes are not acceptable, Clay channel sections shall be used.
4. Sewers to be laid in Class "S" bedding (150mm granular bed and surround). Where depth of cover to soffit is less than 1.2m in highways and verges (or less than 900mm in none vehicular access areas) then a reinforced 150mm concrete slab should be provided above granular bed and surround. Bedding and backfill material to conform to WIS 4-08-02 (Table 2) for PVC pipes.
5. Manhole covers shall have a clear opening of 600 and shall be class D400 to BS EN 124 with 150 deep frames in highways. Covers to have closed keyways and are to be bedded on steel shims with 1:3 mortar haunching.
6. Pipes entering manholes and road gullies shall have a flexible joint within 600 of the inside the manhole or gully joining with a short Rocker pipe.
7. The adoptable sewers should be a minimum of 1m and manholes 0.5m from kerb faces and service margins.
8. Sewers must have 5m clearance from trees and hedges (refer to Figure 2.3 page 33 in "Sewers For Adoption"6th Edition for restrictions on tree planting adjacent to sewers).
9. All trenches in roads and paved areas shall be backfilled with Type 1 DOT granular sub-base material, or other granular material approved by the highway authority.
10. Filled ground must be filled and consolidated under the supervision and to the satisfaction of Yorkshire Water before any sewer works are carried out.
11. All insitu concrete to be designated mix FND2 to BS 8500-1 unless agreed otherwise.
12. 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.
13. 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.
14. Cover levels are indicative only. Covers to be set to suit camber/gradient of existing and proposed roads.
15. Cover slabs must carry the BSI Kitemark or will be rejected by the Yorkshire Water Inspector. Where the clear opening of the Kitemarked product is different to that of the cover and frame, a load bearing slab should be fitted above the cover slab to bring the size down to 600x600, refer to CPSA Technical Bulletin issued autumn 2004 for Kitemarked cover slab opening sizes.
16. All surface water lateral sewers and drains to be 150Ø unless noted otherwise. All foul lateral sewers and drains to be 100Ø unless noted otherwise.
17. Yorkshire water policy is not to accept Type "C" brick manholes and 1050mmØ manhole rings. Instead use Type "B" manhole with 1200mmØ or 1500mmØ rings, with the opening sited over the channel where depth of cover to pipe soffit is 1-1.5m.
18. Manhole covers must have a clear opening of 600mm and shall be Class D400 to BS EN 124 with 150mm deep frames in highways.
19. All adoptable sewer works and materials to be in accordance with Sewers for Adoption 6th Edition, the relevant British/European and Yorkshire Water standards/requirements/addendums to the Mechanical and Electrical specification and kitemarked.

REV	DESCRIPTION	SIG	CHK	DATE
A	First Issue.			

MILLER HOMES

CROSS LANE, SCHOLES

MANHOLE SCHEDULE

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SCALE WHEN PLOTTED AT A1	DRAWING STATUS
NTS	PRELIMINARY

DRAWN	CHECKED	DATE	DRAWING NUMBER	REV
RJ	CH	11.04.17	40600/011	A