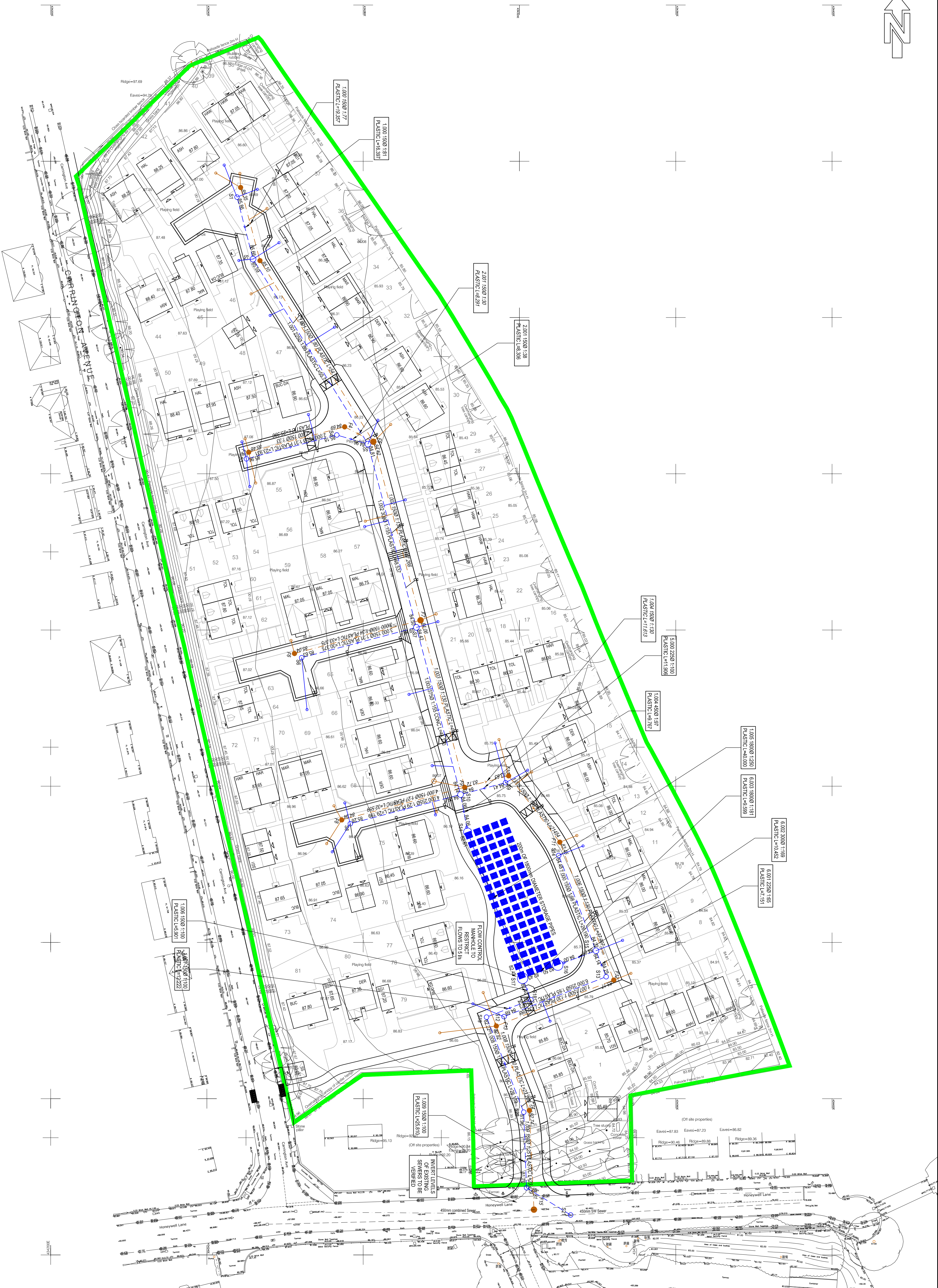




INFORMATION WITHIN THIS DRAWING IS NOT NECESSARILY PROPORTIONED TO SCALE.
ALWAYS USE FIGURED DIMENSIONS AND CO-ORDINATES - IF IN DOUBT, ASK.

NOTES

1. All pipes shall be either:
A - 1500 dia. to BS EN 256 with a minimum crushing strength as follows:-
150 dia. - 40 kN/m
225 dia. - 45 kN/m
300 dia. - 72 kN/m
B - P/C (conform to MS 4-56/57)
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 BS1 Mannack status (conform to MS 4-56/57 & 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 at a minimum of 150mm from the bottom of the trench. Where depth of cover is 2.0m or less, the bottom of the trench shall be reinforced with 12m high tensile steel reinforcement mesh (minimum 12m high tensile steel reinforcement mesh) and covered with 150mm concrete. Bedding and backfill material to conform to MS 4-46/47 (Table 2) for P/C pipes.
5. Manhole covers shall have a clear opening of 600mm and shall be fixed to the base of the manhole with 150mm diameter bars. Covers to have raised kerbs and are to be bedded on sand with 150mm bedding.
6. Pipes carrying manholes and road gullies shall have a flexible joint within 500mm of the inside the manhole or gully (gully) and a cast iron cover.
7. The acceptable sewers should be a minimum of 1m and manholes 0.5m from kerb lines and service margins.
8. Sewers must have 5m clearance from trees and houses (refer to Figure 2.2 page 23 in 'Sewers for Adoption' 9th Edition for residents or 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 bed and consolidated under the supervision and to the satisfaction of Yorkshire Water before any sewer works are carried out.
11. All below concrete to be designated as P/C to BS 5911-1:2002 EN 1916.
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 number and size of manholes with more than one connection to them may need to be increased by an Engineer to accommodate the connections and bends.
14. Cover frames are machine only. Covers to be set to suit camber/gradients of existing and proposed roads.
15. Cover frames must carry the BS1 Mannack or will be replaced by the Yorkshire Water Inspector. Where the clear opening of the framed product is different to that of the cover and frame, a load bearing plate should be placed below the cover and frame to suit the size down to 600mm. Refer to CWSA Technical Bulletin issued autumn 2014 for dimensions cover and opening sizes.
16. All surface water lateral sewers and drains to be 1500mm unless noted otherwise. All foul lateral sewers and drains to be 1000mm unless noted otherwise.
17. Yorkshire Water policy is not to accept Type 'C' block manholes and 1500mm manhole rings. Instead use Type 'B' manhole with 1200mm or 1500mm rings. With the opening shall over the channel where depth of cover to pipe is 1-1.5m.
18. Manhole covers must have a clear opening of 600mm and shall be Class 5000 to BS EN 124 with 150mm deep frames in highways.

REV	DESCRIPTION	SIG	CHK	DATE
A	First Issue.			
B	Revised to suit latest revision of Miller Homes planning layout.	RJ	CH	11.08.16

MILLER HOMES

HONEYWELL LANE, BARNESLEY

DRAINAGE LAYOUT

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EOP

ENGINEERS

DRAWN	CHECKED	DATE	DRAWING NUMBER	REV
RJ	CH	12.07.16	38903/018	B
SCALE WHEN PLOTTED AT A1			PRELIMINARY	