YW REF NO:
H-3-264-976

N

YW NOTES:

1. ALL ADOPTABLE SEWER WORKS AND MATERIAL TO BE IN ACCORDANCE WITH 'CODE FOR ADOPTION'. THE RELEVANT BRITISH/EUROPEAN AND YORKSHIRE WATER'S STANDARDS/REQUIREMENTS/ADDENDUM TO THE MECHANICAL AND ELECTRICAL SPECIFICATION AND KITEMARKED.
2. MANHOLE COVERS SHALL/MUST HAVE A CLEAR OPENING OF 600mm AND SHALL BE CLASS D400 TO BS EN 124 WITH 150mm DEEP FRAMES IN HIGHWAYS.
3. FILLED GROUND MUST BE FILLED AND CONSOLIDATED UNDER THE SUPERVISION AND TO THE SATISFACTION OF YORKSHIRE WATER BEFORE ANY SEWER WORKS ARE CARRIED OUT.
4. YORKSHIRE WATER IS NOT OBLIGED TO ACCEPT FILTER DRAIN/LAND DRAINAGE RUN-OFF INTO THE PUBLIC SEWER NETWORK OR ADOPTABLE DRAINAGE SYSTEM (DIRECTLY OR INDIRECTLY). AN ALTERNATIVE METHOD OF DISPOSAL OF THE LAND DRAINAGE RUN-OFF WILL THEREFORE BE REQUIRED AND YOU WILL HAVE TO LIAISE WITH THE LOCAL AUTHORITY, LAND DRAINAGE SECTION REGARDING THE DISPOSAL OF THE FILTER/LAND DRAINAGE RUN-OFF.
5. THE ADOPTABLE SEWERS SHOULD BE A MINIMUM OF 1.0m AND MANHOLES 0.5m FROM KERB FACES AND SERVICE MARGINS.
6. SEWERS MUST HAVE A 5.0m CLEARANCE FROM TREES AND HEDGES OR THE WIDTH OF THE CANOPY AT MATURE HEIGHT.
7. SEWERS TO BE LAID IN CLASS 'S' BEDDING (**150mm GRANULAR BED AND SURROUND**). WHERE DEPTH OF COVER TO TOP OF THE SEWER IS LESS THAN 1.2m IN HIGHWAYS AND VERGES (**OR LESS THAN 0.9m IN NON VEHICULAR ACCESS AREAS**) THEN A CONCRETE SLAB SHOULD BE PROVIDED ABOVE GRANULAR BED AND SURROUND.
8. BEDDING AND BACKFILL MATERIAL TO CONFORM TO THE REQUIREMENT OF WATER INDUSTRY SPECIFICATION 4-08-02 (**TABLE A2**).
9. YORKSHIRE WATER POLICY IS THAT TYPE "C" BRICK MANHOLES AND 1050mm DIAMETER MANHOLES RINGS ARE NOT PREFERRED. INSTEAD, IT IS PREFERRED THAT YOU USE A TYPE "B" MANHOLE WITH 1200mm DIAMETER OR 1500mm DIAMETER RINGS, WITH THE OPENING SITED OVER THE CHANNEL WHERE THE DEPTH OF COVER TO THE PIPE IS 1.0m - 1.5m.
10. ADOPTABLE PLASTIC SEWER PIPES TO BE BSI KITEMARKED (**CERTIFIED TO WIS 4-35-01** AND **BS EN 13476**). ADOPTABLE PLASTIC SEWER PIPES TO BE LAID IN MAXIMUM 3 METRE LENGTHS UNLESS THERE IS A SPECIFIC OPERATIONAL NEED TO LAY LONGER LENGTHS. PLASTIC CHANNEL SECTIONS IN MANHOLES ARE NOT ACCEPTABLE AND YORKSHIRE WATER WOULD REQUIRE CLAYWARE CHANNELS IN MANHOLES.
11. THE MINIMUM CRUSHING STRENGTH FOR CLAY PIPES SHOULD BE AS FOLLOWS: 100mm DIA 40kN/M, 150mm DIA 40kN/M, 225mm DIA 45kN/M, 300mm DIA 72kN/m. THE MINIMUM CRUSHING STRENGTH FOR CONCRETE PIPES SHOULD BE - (CLASS 120 TO EN 1916 / BS 5911-1 2002). PLASTIC PIPES SHOULD CONFORM TO WIS 4-35-01 AND BS EN 13476.
12. WHERE A B125 COVER AND FRAME HAS BEEN APPROVED, THIS **MUST NOT** BE COATED IN PLASTIC AND MUST HAVE LIFTING EYES SUITABLY SIZED TO ACCOMMODATE STANDARD LIFTING KEYS. SCREW DOWN COVERS ARE NOT ACCEPTABLE.
13. THERE MUST BE ENOUGH CLEARANCE AT CROSSOVERS TO ACCOMMODATE BEDDING TO BOTH PIPES, APPROX. 300mm : IF CROSSOVER IS NEAR THE ROCKER THEN THE CLEARANCE NEEDED MAY NEED TO BE INCREASED.

PHASE: 0

MH No.	MANHOLE DIAMETER (mm)	MANHOLE TYPE	COVER LEVEL (m)	INVERT LEVEL (m)	DEPTH TO SOFFIT (m)	EASTING (m)	NORTHING (m)
EXMH	-	-	168.850	167.300	1.400	412010.904	418916.266
PS1	450	Type E	179.600	178.300	1.100	411912.360	419004.388
PS2	450	Type E	179.100	178.200	0.750	411924.962	419004.851
PS3	450	Type E	179.700	178.450	1.100	411943.641	419033.876
PS4	900	Type D	178.379	175.800	2.429	411941.763	418990.951
PS5	900	Type D	178.000	174.875	2.975	411956.680	418998.139
PS6	900	Type D	177.320	174.750	2.420	411966.799	418996.858
PS7	450	Type E	176.200	174.950	1.100	412007.457	419013.613
PS8	900	Type D	175.200	172.800	2.250	412007.266	418982.941
S1	1200	Type B	179.372	177.400	1.672	411922.478	418993.525
S2	1350	Type C	179.419	178.000	1.269	411948.915	419032.394
S3	1350	Type C	179.025	177.350	1.375	411944.734	419017.516
S4	1500	Type B	178.372	175.300	2.772	411942.705	418995.628
S5	1200	Type A	177.681	174.500	2.881	411956.262	418992.898
S6	1200	Type A	177.460	174.100	3.060	411960.461	418991.822
S7	1350	Type B	177.173	173.650	3.073	411966.343	418991.437
S8	1200	Inspection chamber on tank	176.600	172.500	1.900		
S9	1200	Inspection chamber on tank	177.370	172.450	4.470		
S10	1500	Type A	177.492	172.400	4.642	411982.614	419023.341
S11	1800	Type B	176.486	172.400	4.642	411980.222	418990.293
S12	See Drawing 22046-106					412007.583	418986.935
S13	1200	Type B	174.692	172.000	2.242	412016.434	418984.669
S14	1200	Type C	173.145	171.800	0.895	412021.457	418968.710
S15	1200	Type B	179.659	178.000	1.509	411920.979	419004.344
S16	1350	Type C	171.517	170.100	1.267	412019.407	418948.556
F1	1200	Type B	178.351	176.557	1.644	411944.664	418998.083
F2	1350	Type C	177.595	176.000	1.445	411959.128	418994.218
F3	1200	Type B	177.099	175.000	1.949	411969.072	418993.323
F4	1350	Type C	175.865	174.350	1.365	411994.073	418991.371
F5	1200	Type B	175.685	172.100	2.350	412016.813	418986.588
F6	1350	Type C	173.220	171.600	1.470	412022.321	418970.511
F7	1350	Type C	171.659	170.309	1.200	412020.687	418949.607
F8	1350	Type C	169.300	167.950	1.200	412013.898	418923.206
PF1	900	Type D	179.000	177.550	2.150	411937.148	419004.480
PF2	450	Type E	178.270	177.300	0.820	411944.145	418990.520
PF3	900	Type D	177.213	175.330	1.733	411969.349	418996.623
PF4	450	Type E	177.078	175.300	1.628	411968.463	418986.071
PF5	900	Type D	175.100	172.940	2.350	412012.253	418983.474
PF6	900	Type D	175.120	173.500	1.570	412016.214	418993.106

NOTES
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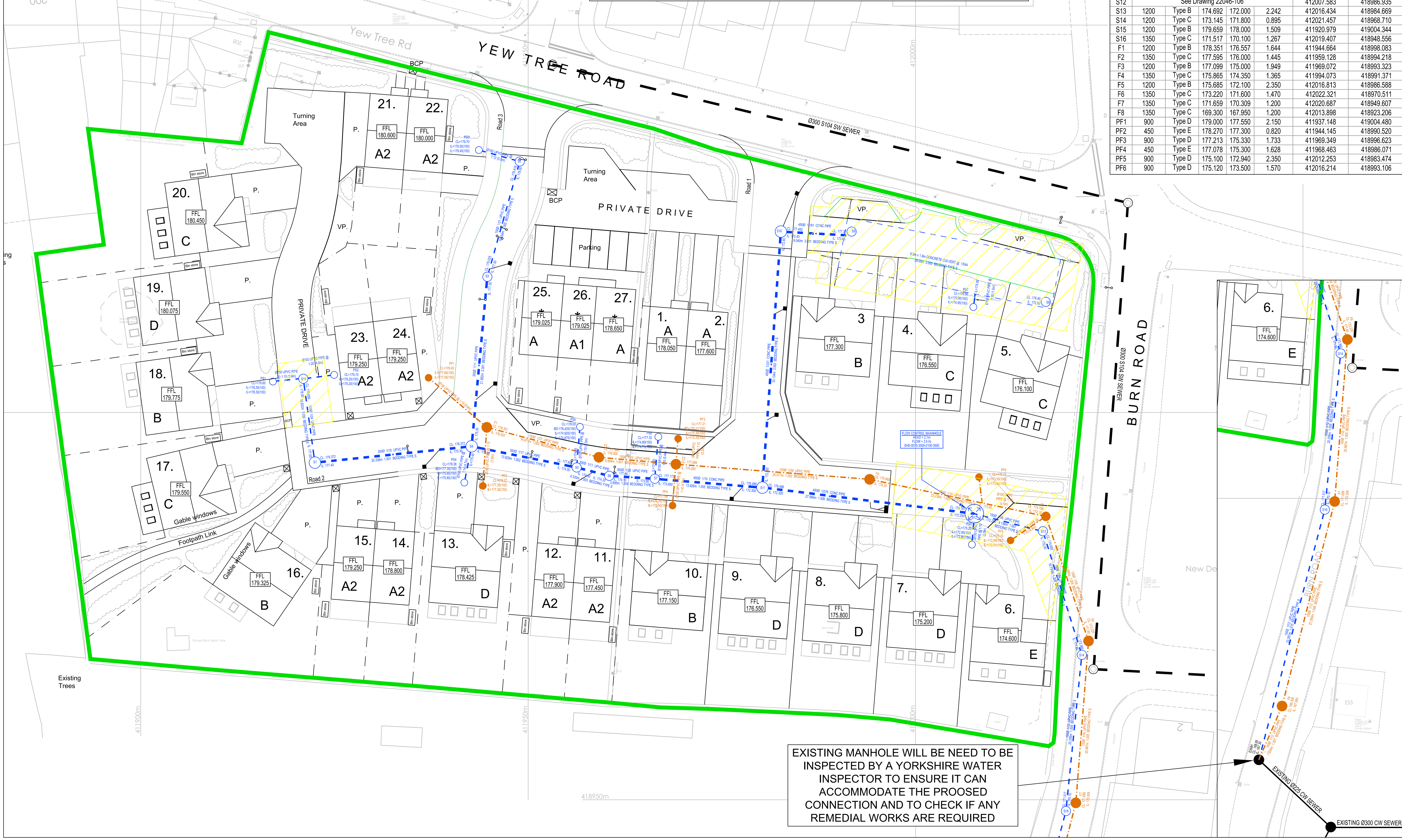
KEY
EXISTING COMBINED SEWER
EXISTING SW SEWER
PROPOSED FOUL SEWER
PROPOSED SW SEWER
PROPOSED CW SEWER
SEWER EASEMENT



REV	AMENDMENTS	BY	DATE
O	UPDATED TO CLIENT COMMENTS	MJM	11.03.25
N	UPDATED TO LLFA COMMENTS	MJM	20.02.25
M	FFLS OF PLOTS 5-8 AMENDED	MJM	22.01.25
L	DISCHARGE RATE REDUCED TO 3.5 l/s	MJM	23.11.24
K	UPDATED TO YW COMMENTS	MJM	08.11.24
J	UPDATED TO YW COMMENTS	MJM	19.10.24
I	UPDATED TO YW COMMENTS	MJM	30.09.24
H	UPDATED TO YW COMMENTS	MJM	12.09.24
G	UPDATED TO YW COMMENTS	MJM	24.07.24
F	DRAINAGE UPDATED	MJM	25.05.24
E	DRAINAGE UPDATED	MJM	17.04.24
D	DRAINAGE UPDATED	MJM	05.04.24
C	DRAINAGE UPDATED	MJM	01.03.24
B	DRAINAGE UPDATED	MJM	24.07.23
A	INITIAL ISSUE	MJM	13.06.23

FOR APPROVAL

STATUS		CHK'D
PRELIMINARY	/	MJM
FOR COMMENT	/	MJM
FOR APPROVAL	/	MJM
FOR CONSTRUCTION		
AS BUILT		

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CONTRACT
YEW TREE ROAD
BIRCHENCLIFFE
HUDDERSFIELD

TITLE
S104 DRAINAGE LAYOUT PLAN

DRAWN	MJM	CHK'D	MJM
SCALE	1:250 @ A1	DATE	13.06.23

JOB No	DRG No	REV
22046	113	O