

Manhole Number	Cover Level	Connections	Pipe			Manhole Size	Types	
Coordinates	Depth To Invert		Pipework	Inverts	Diams		Manhole	Cover
F1	125.957		1 2 CLAY CLAY	124.857 124.857	100 100	1200	TYPE B CONC	D400 600x600
E. 329215.693 N. 343630.283	1.150		0 CLAY	124.807	150			
F2	125.860		1 2 CLAY CLAY	124.723 124.773	150 100			
E. 329217.378 N. 343623.796	1.137		0 CLAY	124.723	150	1200	TYPE B CONC	D400 600x600
F3	125.627		1 2 3 CLAY CLAY CLAY	124.533 124.583 124.583	150 100 100	1200	TYPE B CONC	D400 600x600
E. 329220.852 N. 343609.015	1.094		0 CLAY	124.533	150			
F4	125.338		1 2 3 CLAY CLAY CLAY	124.273 124.323 124.323	150 100 100			
E. 329226.593 N. 343589.058	1.065		0 CLAY	124.273	150	1200	TYPE B CONC	D400 600x600
F5	125.157		1 2 3 CLAY CLAY CLAY	124.130 124.180 124.180	150 100 100	1200	TYPE B CONC	D400 600x600
E. 329228.892 N. 343577.912	1.027		0 CLAY	124.130	150			
F6	124.829		1 2 3 CLAY CLAY CLAY	123.938 123.993 123.993	150 100 100			
E. 329219.721 N. 343575.079	0.911		0 CLAY	123.918	150	450	HD PPIC	C250 600x600
F7	124.628		1 2 3 4 5 CLAY CLAY CLAY CLAY CLAY	123.761 123.816 123.816 123.816 123.816	150 100 100 100 100	450	HD PPIC	C250 600x600
E. 329212.144 N. 343573.010	0.887		0 CLAY	123.741	150			
F8	124.372		1 2 3 4 5 CLAY CLAY CLAY CLAY CLAY	123.515 123.570 123.570 123.570 123.570	150 100 100 100 100			
E. 329201.472 N. 343570.262	0.877		0 CLAY	123.495	150	450	HD PPIC	C250 600x600
F9	125.666		1 CLAY	124.586	100	1200	TYPE B CONC	D400 600x600
E. 329206.584 N. 343620.641	1.100		0 CLAY	124.566	100			
F10	125.454		1 2 3 CLAY CLAY CLAY	124.354 123.404 123.404	100 100 100			
E. 329187.988 N. 343619.587	1.150		0 CLAY	124.304	150	1200	TYPE B CONC	D400 600x600
F11	125.352		1 2 3 CLAY CLAY CLAY	124.354 123.404 123.404	100 100 100	1200	TYPE B CONC	D400 600x600
E. 329156.250 N. 343613.803	1.150		0 CLAY	124.202	150			
F12	125.365		1 2 3 CLAY CLAY CLAY	124.016 124.066 124.066	150 100 100			
E. 329170.447 N. 343617.729	1.349		0 CLAY	124.016	150	1200	TYPE B CONC	D400 600x600
F13	125.200		1 2 CLAY CLAY	124.156 123.874	150 150	1200	TYPE B CONC	D400 600x600
E. 329179.870 N. 343618.631	1.326		0 CLAY	123.874	150			
F14	124.824		1 2 3 CLAY CLAY CLAY	123.561 123.611 123.611	150 100 100			
E. 329182.997 N. 343592.602	1.263		0 CLAY	123.561	150	1200	TYPE B CONC	D400 600x600

Manhole Number	Cover Level	Connections	Pipe			Manhole Size	Types	
Coordinates	Depth To Invert		Pipework	Inverts	Diams		Manhole	Cover
F15	124.470 1.186		1 2 3 4 CLAY CLAY CLAY CLAY	123.284 123.334 123.334 123.334	150 100 100 100	1200	TYPE B CONC	D400 600x600
E. 329187.825 N. 343572.328			0 CLAY	123.284	150			
F16	124.388 1.173		1 2 CLAY CLAY	123.615 123.215	150 150	1200	TYPE B CONC	D400 600x600
E. 329189.285 N. 343567.048			0 CLAY	123.215	150			
F17	124.196 1.136		1 2 3 4 CLAY CLAY CLAY CLAY	123.060 123.110 123.110 123.110	150 100 100 100	1200	TYPE B CONC	D400 600x600
E. 329192.247 N. 343555.063			0 CLAY	123.060	150			
F18	123.936 1.082		1 CLAY	122.854	150	1200	TYPE B CONC	D400 600x600
E. 329196.131 N. 343539.063			0 CLAY	122.854	150			
F19	123.646 1.054		1 2 CLAY CLAY	122.592 123.642	150 100	1200	TYPE B CONC	D400 600x600
E. 329175.778 N. 343534.079			0 CLAY	122.592	150			
F20	123.013 0.751		1 2 3 CLAY CLAY CLAY	122.282 122.337 122.337	150 100 100	450	HD PPIC	C250 600x600
E. 329178.217 N. 343522.672			0 CLAY	122.262	150			
F21	124.530 1.150		1 2 3 CLAY CLAY CLAY	123.430 123.430 123.430	100 100 100	1200	TYPE B CONC	D400 600x600
E. 329256.300 N. 343540.714			0 CLAY	123.380	150			
F22	124.447 1.180		1 CLAY	123.267	150	1200	TYPE B CONC	D400 600x600
E. 329258.510 N. 343531.351			0 CLAY	123.267	150			
F23	124.387 1.220		1 2 CLAY CLAY	123.167 123.217	150 100	1200	TYPE B CONC	D400 600x600
E. 329250.549 N. 343529.332			0 CLAY	123.167	150			
F24	123.013 0.751		1 2 3 CLAY CLAY CLAY	122.262 122.262 123.312	150 150 100	1200	TYPE B CONC	D400 600x600
E. 329180.653 N. 343571.606			0 CLAY	122.262	150			
F25	122.480 0.586		1 CLAY	121.894	150	1200	TYPE B CONC	D400 600x600
E. 329187.766 N. 343484.424			0 CLAY	121.894	150			
F26	121.800 1.200		1 CLAY	120.600	150	1200	TYPE B CONC	D400 600x600
E. 329181.813 N. 343461.692			MANHOLE TO BE BUILT ON LINE OF EXISTING SEWER (EXACT LEVEL & LOCATION TBC)					

NOTES

- ALL LEVELS AS SHOWN ARE AS PER TOPOGRAPHICAL SURVEY.
- CONSTRUCTION AND TESTING OF DRAINS AND SEWERS TO COMPLY WITH BS EN 1610. CONTRACTOR SHALL NOTE THAT TOLERANCES OF + OR - 5% OF THE PIPES INTERNAL DIAMETER MUST BE ACHIEVED UPTO A MAXIMUM OF 20mm
- FOR MANHOLE CONSTRUCTION INFORMATION REFER TO STANDARD DETAILS DRAWINGS.
- PRECAST MANHOLES SHALL COMPLY WITH BS EN 1917
- POLYPROPYLENE CHAMBERS TO COMPLY WITH BS 7158.
- BRICKWORK CHAMBERS WILL TO BE CONSTRUCTED FROM CLASS B ENGINEERING BRICKS COMPLYING WITH BS 3921. BRICKS SHALL ALSO BE FROST-RESISTANT CATEGORY F.
- CLAY PIPES TO COMPLY TO BS EN 295
- CONCRETE PIPES TO COMPLY TO BS EN 1916
- TYPE OF PIPE "PERF" REFERS TO PERFORATED FILTER DRAINS TO COMPLY TO BS 4962.
- PLASTIC PIPE ALTERNATIVES
IN NON-AGGRESSIVE SOIL CONDITIONS PLASTIC PIPE ALTERNATIVES WILL BE DEEMED ACCEPTABLE. IF THE CONTRACTOR INTENDS TO USE PLASTIC PIPEWORK IN ACCORDANCE WITH BS 4660 - THE FOLLOWING STANDARDS WILL BE REQUIRED:

DRAINAGE CONNECTIONS OF LESS THAN 150Ø SHALL BE SOLID WALL uPVC PIPES COMPLYING WITH BS EN 1401-1

PIPE SIZES 150-900Ø (TO BE USED IN FOUL OR COMBINED FLOW DRAINAGE SYSTEMS) SHALL BE THERMOPLASTIC STRUCTURED WALL PIPE COMPLYING WITH WIS 4-35-01

PIPE SIZES 150-900Ø (TO BE USED IN SURFACE WATER DRAINAGE SYSTEMS) SHALL BE THERMOPLASTIC STRUCTURED WALL PIPES WITH BBA & HAPAS ACCREDITATION.

THE CONTRACTOR SHALL SUBMIT DETAILS OF THE PROPOSED PLASTIC PRODUCTS FOR APPROVAL BY THE ENGINEER.

THE CONTRACTOR SHALL ALSO NOTE THAT CONNECTIONS TO PUBLIC SEWERS & MATERIALS USED IS SUBJECT TO AGREEMENT WITH THE ADOPTING AUTHORITY AND THE CONTRACTOR SHALL THEREFORE ASSUME THAT TRADITIONAL MATERIALS MUST BE USED UNLESS EXPRESSIVELY INFORMED OTHERWISE.

MOULDED PPIC BASES HAVE A CAST IN SLOPE OF 20mm ACROSS THE MAIN CHANNEL AND A STEP OF 75mm FROM THE MAIN CHANNEL TO INCOMING BRANCHES WHERE PPIC MANHOLES ARE SHOWN. LEVELS HAVE BEEN CALCULATED TO REFLECT THE SLOPE / STEP AS NECESSARY.

MOULDED MINI PPIC BASES HAVE A CAST IN SLOPE OF 20mm ACROSS THE MAIN CHANNEL AND A STEP OF 35mm FROM THE MAIN CHANNEL TO INCOMING BRANCHES. WHERE MINI PPIC MANHOLES ARE SHOWN, LEVELS HAVE BEEN CALCULATED TO REFLECT THE SLOPE / STEP AS NECESSARY.

P02	DESIGN DEVELOPED	RH	MM	JP	18.03.21
REV	DESCRIPTION	BY	CHK	APR	DATE

PURPOSE OF ISSUE
PRELIMINARY

STATUS
-

PROJECT

WYNNSTAY PARK RUABON

TITLE

**DRAINAGE SCHEME
FOUL MANHOLE SCHEDULE**

CLIENT

GRATTON OAKES

DRAWN BY
RH

CHECKED BY
MM

APPROVED BY
JP

DATE
08.03.2021

SCALE (@ A1)
As Shown

PROJECT NUMBER
19010

DRAWING NUMBER
503

REV
P02