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31 plots

Phase 2 - 116

NOTES:

ALL SERVICE PROVIDED FOR ADOPTED ROADS & SEWERS TO BE TO THE AGREEMENT OF THE WATER UNDERTAKER & ST. ONE TO BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST EDITION OF SPECIFICATION FOR HIGHWAY WORKS & SPECIFICATION FOR SEWERS FOR ADOPTION AND CONSTRUCTION GUIDANCE (WHICHEVER IS THE MOST RECENT).

FOUL DRAINAGE CONSTRUCTION TO BE 150mm thick to GB 100 PLASTICED TEAR (150 WHERE SHOWN) + PLASTICED 100 (125 WHERE SHOWN) to GB 100 PLASTICED TEAR (1:2:4 MIX) WHERE SHOWN, 12 N/MM2 AT 28 DAYS, UNLESS OTHERWISE STATED.

ALL BENDS AND LATERAL DRAINS WITHIN DOMESTIC CURTILAGE OF DWARTERS 100mm (150mm TO BE PVC-U TO BS EN 1401-1:1998 & BS 3656:1998).

ALL PIPEWORK TO BE LAID SUBJECT TO SAFETY (UNLESS OTHERWISE STATED).

ALL PIPES 150mm Ø 150mm DIA THE PROVIDED WITH CLASS C BEDDING (150mm - 5mm GRAVEL SIZE AND 150MM DEEP).

ALL PIPES 150mm Ø 150mm DIA PROVIDED WITH CLASS B CONCRETE BEDDING (150mm - 5mm GRAVEL SIZE AND 150MM DEEP).

PRECAST CONCRETE PRODUCTS AND IN-SITU CONCRETE TO CONFORM & REMEDIES CLASS 1 C.S.A.2.

ALL MANHOLES CONSTRUCTED TO BE IN ACCORDANCE WITH BS 5911-1:2010 AND NOT TO BE LESS THAN QUARTER THEIR WIDTH BENEATH ANY OPEN JOINT IN ALL OTHER CIRCUMSTANCES.

CAST IRON CONCRETE SHALL BE PROVIDED TO MANHOLES & "PLUGS" CHECKS WHERE EXPOSED AND SHALL HAVE A "DROUGHT" STRENGTH OF ALL OTHERS CONCRETE.

STEELS WORK SHALL BE IN ACCORDANCE WITH DETAILS.

ALL MANHOLE COVERS TO BE ductile to CLASS APPROVAL IN ACCORDANCE WITH B.S. EN 124 CLASS D400 AND EMBOSSED TO

Drainage Notes

Plot 1 BOUNDARY CHARACTER KEY NUMBER

BC 1.0m BOUNDARY: DELINEATED BY PROPOSED FLOOR LEVEL, NORMALLY 450mm ABOVE EXISTING GROUND LEVEL, max 1.000m HIGH

CL 0.5 BOUNDARY: EXISTING GROUND LEVEL

- 225mm Ø max F/150 / 225 / PLASTIC FOUL WATER SEWER (450mm).
- 225mm DIA UPVC SURFACE WATER SEWER (450mm).
- 150mm Ø max F/150 / 150mm Ø max 1:150 FOUL WATER DRAIN (PRIVATE).
- 150mm Ø 150mm DIA SURFACE WATER CAST IRON DRAIN (PRIVATE).

TOP AND FOUL

WATER MAIN / WATER / SURFACE ADAPTOR

POLYPROPYLENE ACCESS CHAMBER TYPE 1 (PRIVATE) - FOUL

POLYPROPYLENE RODDING ACCESS CHAMBER TYPE 2 (PRIVATE) - SURFACE WATER

- 225mm Ø PRECAST CONCRETE MANHOLE (PRIVATE) - FOUL
- 150mm Ø PRECAST CONCRETE MANHOLE (PRIVATE) - SURFACE WATER

RECTANGULAR UNITS - LARGE GENERAL PURPOSE FIRE FORMED RELAINWALL UNIT (SEE DETAILS)

POLYPROPYLENE ACCESS CHAMBERS (TYPE 1) TO BE STEP UP TO 1.0m HIGH

ALL CHAMBERS WITHIN ADOPTED AREAS TO BE PROVIDED WITH BOLT DOWN COVERS AND FRAMES (MIN. 1.5 KN/M²).

ALL CHAMBERS WITHIN GARDEN AREAS, DRIVEWAYS AND PRIVATE PATHS TO BE SETTED WITH BOLT DOWN COVERS (CLASS B 125 CERTIFIED).

ALL CHAMBERS WITHIN ROADS & HARDSTANDING AREAS TO BE SETTED WITH BOLT DOWN COVERS (CLASS D 400 CERTIFIED) AND FRAMES (MIN. 1.5 KN/M²).

WHERE CHAMBERS ARE WITHIN 1.0m OF ANY BUILDING AND THE DEPARTURE OF THE CHAMBERS IS MORE THAN 600mm BELOW BUILDING FOUNDATIONS, THE CHAMBERS SHALL BE ENCASED IN CONCRETE TO BE AGREED WITH BUILDING CONTROL. 150mm MINIMUM CONCRETE BENEFIT (GEN1).

DOMESTIC DRAINAGE TO BE PVC-U TO BS EN 1401-1:1998 & BS 4660:1998.

150mm DOMESTIC DRAINAGE (see Table) TO BE LAID WITH PLASTICED TEAR (1:4:8 mix) (surface) CLEARWAY UNLESS OTHERWISE STATED.

150mm DOMESTIC DRAINAGE (see Table) TO BE LAID WITH PLASTICED TEAR (1:2:4 mix) CLEARWAY UNLESS OTHERWISE STATED.

Table 1: Summary of soakaway results

Trial pit	Fill 1 (m/s)	Fill 2 (m/s)	Fill 3 (m/s)
TP1	$1.56x10^{-3}$ ms	$8.43x10^{-4}$ ms	$1.52x10^{-3}$ ms
TP2	$9.27x10^{-4}$ ms	$7.07x10^{-4}$ ms	$5.78x10^{-4}$ ms
TP3	$2.61x10^{-3}$ ms	$5.44x10^{-3}$ ms	$2.21x10^{-3}$ ms
TP4	$1.12x10^{-3}$ ms	$1.68x10^{-3}$ ms	$1.38x10^{-3}$ ms
TP5	No infiltration	No infiltration	No infiltration
TP6	No infiltration	No infiltration	No infiltration
TP7	$1.51x10^{-3}$ ms	$2.67x10^{-3}$ ms	$2.99x10^{-3}$ ms
TP8	$8.51x10^{-4}$ ms	$5.08x10^{-4}$ ms	$6.58x10^{-4}$ ms
TP9	$1.20x10^{-3}$ ms	$1.97x10^{-3}$ ms	$5.17x10^{-4}$ ms

sheet 11 of 11

sheet 10 of 11	sheet 9 of 11	sheet 8 of 11	
sheet 7 of 11	sheet 6 of 11	sheet 5 of 11	
	sheet 4 of 11	sheet 3 of 11	sheet 2 of 11	sheet 1 of 11

Road Width / Gradient / Ground Gradient

Road	Gradient	Ground Gradient
1	1 in 20	Normal 1:30
2	1 in 20	Normal 1:30
3	1 in 20	Normal 1:30
4	1 in 20	Normal 1:30
5	1 in 20	Normal 1:30
6 (1)	1 in 20	Normal 1:30
7	1 in 20	Normal 1:30
8	1 in 20	Normal 1:30
9	1 in 20	Normal 1:30
10	1 in 20	Normal 1:30
11	1 in 20	Normal 1:30
12	1 in 20	Normal 1:30
13	1 in 20	Normal 1:30

DO NOT SCALE. USE FIGURED DIMENSIONS ONLY. CHECK ON SITE AND ALL DISCREPANCIES TO BE REPORTED TO HALL infrastructure DESIGN Ltd.

AMENDMENTS:

REF.	DESCRIPTION.	DATE.	BY.
A	Updated roads for submission to Boston Borough Council for planning resubmission discharge.	19.08.21	GMH

CLIENT: Boston West Holiday Park Ltd

PROJECT: Boston West Golf Centre

TITLE: Road and Sewer Layout sheet 6 of 11

SCALE:	DATE:	SIZE:
1:250	November 2020	A0

DRAWING No:	DRAWN BY:	CHECKED BY:
2011/09-A	MgtBrd	MgtBrd

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