N

DESIGN NOTES

1. STORAGE DESIGN BASED ON 1 IN 100 YR STORM + 40%.

2. DRAIN POINTS AND LOCATIONS TO BE CONFIRMED BY ARCHITECT.

3. CONTRACTOR TO ESTABLISH LOCATIONS OF ALL EXISTING SERVICES PRIOR TO COMMENCING.

4. EXISTING TREES TO BE PROTECTED WHERE EXCAVATIONS RUN CLOSE.

5. APPROVAL TO BE GAINED FROM FOR CONNECTIONS TO SEWERS

SPECIFICATION NOTES

1. ALL DRAINAGE SHALL BE CONSTRUCTED AND COMMISSIONED IN ACCORDANCE WITH BS EN 295 & BS EN752, BUILDING REGULATIONS DOC. H AND ANY PARTICULAR REQUIREMENTS OF THE BUILDING CONTROL OFFICER.

2. DRAIN BEDDING IS TO BE PROVIDED AS D200.0, D200.1 and D200.2 AS SHOWN ON THE DRAINAGE DETAILS SHEETS.

3. 'EFFECTIVE COVER' IS THE MINIMUM DEPTH OF COVER OVER THE PIPE CROWN AT ANY TIME DURING THE CONSTRUCTION PROCESS.

4. ALL CONCRETE PIPEWORK, MANHOLES AND FITTINGS SHALL BE TO BS 5911 (ALL RELEVANT PARTS). ALL CONCRETE PIPEWORK TO BE TO HIGH STRENGTH

5. WHERE CONNECTIONS ARE TO BE MADE TO EXISTING MANHOLES/SEWERS, INVERT LEVELS, PIPE SIZES & ORIENTATION SHALL BE CHECKED PRIOR TO THE COMMENCEMENT OF THE WORKS AND ANY VARIANCE REPORTED TO THE ENGINEER IMMEDIATELY.

6. WHERE PIPELINES CROSS, EACH IS TO BE SURROUNDED WITH GRADE ST4 MASS CONCRETE FOR A DISTANCE NOT LESS THAN 1m CENTRED ON THE CROSSING POINT. LENGTH OF SURROUND TO BE EXTENDED AS NECESSARY TO WITHIN 150mm OF THE NEXT NEAREST FLEXIBLE JOINTS.

7. THE CONTRACTOR IS TO ENSURE THAT PROTECTIVE MEASURES ARE TAKEN TO ENSURE THAT DRAINAGE PIPEWORK AND FITTINGS ARE NOT DAMAGED BY SITE TRAFFIC PRIOR TO OVERSITE FILLING OPERATIONS BEING COMPLETED AROUND BUILDINGS.

8. ALL PRIVATE DRAINAGE PIPEWORK SHALL BE PVCu. ALL ADOPTED DRAINAGE TO BE VC. ALL UNDERBUILDING DRAINS TO BE LAID AT A GRADIENT OF 1:40

9. WHERE DRAINS PASS THROUGH FOUNDATIONS OR CONNECT TO MANHOLES, FLEXIBLE PIPE JOINTS ARE TO PROVIDED WITHIN 150mm OF THE FACE OF THE STRUCTURE AND WITHIN A FURTHER 600mm TO FORM A ROCKER PIPE.

10. WHERE PIPES PASS THROUGH SCREEN WALLS, FOOTINGS OR RETAINING WALLS, LINTELS ARE TO BE PROVIDED.

11. WHERE PIPELINES PASS WITHIN 1m OF BUILDINGS OR WALLS THE FOUNDATIONS ARE TO BE TAKEN DOWN BELOW THE BOTTOM OF THE TRENCH

12. 450mm DIA. INSPECTION CHAMBERS (FIC/SIC) MAY BE USED:
- WITH 350mm REDUCED OPENING WHERE THE DEPTH FROM COVER TO INVERT EXCEEDS 1000mm.

300mm DIA. POLYPROPYLENE ACCESS CHAMBERS (FAC/SAC) MAY BE USED
- WHERE THE DEPTH FROM COVER TO INVERT DOES NOT EXCEED 600mm AND WHERE THE PIPE SIZE DOES NOT EXCEED 100mm DIA.

13. STEEL COVERS WITHIN PROPERTY BOUNDARIES SHALL BE:
(UNLESS NOTED ON DRAWING OR MANHOLE SCHEDULE)
-ON PRIVATE DRIVEWAYS: FACTA GRADE B (BS EN ISO 1461: 1999)
-ON PRIVATE PATHWAYS, VERGES OR ON GARDENS: FACTA GRADE A (BS EN ISO 1461: 1999)

DUCTILE IRON COVERS OUTSIDE PROPERTY BOUNDARIES SHALL BE:
(UNLESS NOTED ON DRAWING OR MANHOLE SCHEDULE)
-ON ACCESS ROADS AND CAR PARKS: GRADE D400 (BS EN 124:1994)
-ON SHARED PATHWAYS, VERGES: GRADE A15 (BS EN 124:1994)

14. COVER LEVELS SHOWN 'CL' AND INVERT LEVELS SHOWN 'IL' ARE IN METRES ABOVE ORDNANCE DATUM.

15. ALL DRAINS TO BE 100mm DIAMETER UNLESS NOTED OTHERWISE

16. ALL DRAINS MARKED 'FWS' OR 'SWS' ARE PROPOSED ADOPTED SEWERS AND ARE TO BE CONSTRUCTED IN ACCORDANCE WITH 'SEWERS FOR ADOPTION, 7TH EDITION'

GENERAL NOTES:

1. DIMENSIONS ON THIS DRAWING SHALL NOT BE SCALED. ALL DIMENSIONS TO BE CHECKED ON SITE. ALL DETAILS AND DIMENSIONING RELATING TO SUB-CONTRACTOR'S OR SUPPLIER'S WORK MUST BE CHECKED AND AGREED BETWEEN THE SUB-CONTRACTOR OR THE SUPPLIER AND THE GENERAL CONTRACTOR.
2. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTS AND ENGINEERS DRAWINGS AND SPECIFICATION.
3. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL SITE DIMENSIONS BEFORE COMMENCING WORK.
4. THE MAIN CONTRACTOR IS RESPONSIBLE FOR ENSURING THE STABILITY OF THE STRUCTURE WHILST THE WORKS ARE IN PROGRESS.
5. DIFFERENCES BETWEEN THIS DRAWING AND THE SITE CONDITIONS ENCOUNTERED MUST BE REPORTED TO THE ENGINEER.

NOTATION:—

T.O.S.— TOP OF STEEL.
F.G.L.— FINISH GROUND LEVEL.
T.O.C.— TOP OF CONCRETE.
T.O.F.— TOP OF FOUNDATION.
F.L. — FORMATION LEVEL.
S.S.L.— STRUCTURAL SLAB LEVEL.
F.F.L.— FINISHED FLOOR LEVEL.
T.O.F.—

KEY

- Private surface water drain
- Private foul drain
- Adoptable foul sewer
- Adoptable highway drain

FIC — Foul Plastic Inspection Chamber - D202.6

SIC — Surface Water Plastic Inspection Chamber - D202.6

SAC — 300mm diameter Surface Water Access Chamber - D202.18

FAC — 300mm diameter Foul Water Access Chamber - D202.18

FWMH — Private Foul Manhole

SWMH — Private Surface Water Manhole

FWSMH — Adoptable Foul water Sewer Manhole

HWMH — Adoptable Highway Manhole

SVP — Foul drain point D307.0

RWP — SW Drain point for RWP D203.5

Drainage channel

ABBREVIATIONS

D307.0	DETAIL NUMBER - SEE DRAINAGE DETAIL SHEET
FD	FOUL DRAIN
SWD	SURFACE WATER DRAIN
FWS	ADOPTABLE FOUL WATER SEWER
SWS	ADOPTABLE SURFACE WATER SEWER
MH	MANHOLE
IC	INSPECTION CHAMBER
SA	SOAKAWAY
FIC	450mm DIA. FOUL INSPECTION CHAMBER - D202.6
SIC	450mm DIA. SURFACE WATER INSPECTION CHAMBER - D202.6
FAC	300mm DIA. FOUL ACCESS CHAMBER - D202.18
SAC	300mm DIA. SURFACE WATER ACCESS CHAMBER - D202.18
CI	CAST IRON
VC	VITRIFIED CLAY
CONC	CONCRETE
PVC-U	POLYVINYL CHLORIDE - UNPLASTICISED
G	SMALL GULLY - D209.0
YG	YARD GULLY - D209.2
RG	ROAD GULLY - D208.1
CPG	CAR PARK GULLY - D208.2
DP	BELOW GROUND DRAIN POINT
SVP	SOIL VENT PIPE DROP
RP	EXTERNAL BODDING POINT - D213.1
DT	SURFACE WATER DISTRIBUTION TANK
FFL	FINISHED FLOOR LEVEL
SSL	STRUCTURAL SLAB LEVEL
GL	GROUND LEVEL
CL	COVER LEVEL
IL	INVERT LEVEL
SL	SUMP LEVEL
BL	BASE LEVEL
HL	HIGH LEVEL
BD	BACKDROP
CBS	CONCRETE BED & SURROUND
CLASS S	GRANULAR BED & SURROUND
CLASS B	GRANULAR BED

Yapton Road

Public Open Space 764.3m²

Public Open Space 1387.5m²

Public Open Space 232.9m²

Play Area

PERMEABLE PAVING AREA 4.000 - 820 SQM FORMATION LEVEL 8.700

PERMEABLE PAVING AREA 3.000 - 450SQM FORMATION LEVEL9.300

PERMEABLE PAVING AREA 3.000 FORMATION LEVEL 8.800

PERMEABLE PAVING AREA 7.000 - 1065QM FORMATION LEVEL 9.300

PERMEABLE PAVING AREA 8.000 - 560 SQM FORMATION LEVEL 8.750

PERMEABLE PAVING AREA - 292 SQM FORMATION LEVEL FIGUREW.G - SEE EXTERNAL WORKS DETAILS FOR DEPTH

PERMEABLE PAVING AREA 2.000 - 730 SQM FORMATION LEVEL 8.550

F25 1200mm⌀ CL8.750 IL6.270 TYPE B — New JMH F25 subject to S106 consent from Southern Water

ExFMH 1200mm⌀ CL 8.854 IL6.390 TYPE B — New 1500 Connection to existing surface water sewer manhole at IL 6.440. Subject to Section 106 approval from Southern Water

ExFMH CL 9.010 IL6.500 — New connection to Exg FMH subject to S106 consent

ExFMH CL 8.860 IL6.600

ExFMH CL 8.430 IL6.020

F2 1200mm⌀ CL9.115 IL6.667 TYPE B

F3 1200mm⌀ CL9.731 IL6.791 TYPE B

F4 1200mm⌀ CL9.643 IL6.962 TYPE B

F16 1200mm⌀ CL9.459 IL8.059 TYPE E

F6 1200mm⌀ CL9.171 IL7.295 TYPE B

F7 1200mm⌀ CL9.432 IL7.932 TYPE B

F24 1200mm⌀ CL9.968 IL6.864 TYPE B

F23 1200mm⌀ CL8.847 IL6.953 TYPE B

F22 1200mm⌀ CL9.765 IL6.915 TYPE B

F21 1200mm⌀ CL9.284 IL6.742 TYPE B

HWMH16 1200mm⌀ CL9.540 IL6.660 Base 8.308

HWMH1 1200mm⌀ CL8.766 Base 8.466

S1 1200 x 900mm CL9.700 IL8.390 TYPE C

S2 1240 x 900mm CL9.793 IL8.369 TYPE C

S3 1240 x 900mm CL9.651 IL8.327 TYPE C

S4 1200 x 900mm CL9.931 IL8.282 TYPE C

S15 1240 x 685mm CL9.6491 IL8.6301 TYPE C

S/A CL8.566 IL7.966 IL6.966

SCP1 600ø Catchpit CL 10.000 IL 8.616 IPL 8.116

SCP2 600ø Catchpit CL 9.700 IL 8.466 200mm orifice plate in outlet to Catchpit

SCP3 CL 9.700 IL 8.936 IPL 8.386

SCP4 CL 10.014 IL 9.364 IPL 8.864

SCP5 CL 9.700 IL 8.736

SCP-IC CL 9.700 IL 8.950

SCP-SA CL 9.850 IL 9.371 IL 9.071

SCP-IC CL 9.300 IL 8.640

SCP-IC CL 9.300 IL 8.350

SCP-IC CL 9.800 IL 9.330

SCP-IC CL 9.500 IL 8.950

SCP-IC CL 9.540 IL 8.740

SWMH10 1240 x 900mm CL 10.030 IL 8.730

50mm orifice plate to outlet to Catchpit

30mm orifice plate to outlet to Catchpit

Existing Foul Sewer 450mm⌀ at 2.0m 1:343

Existing Foul Sewer 450mm⌀ at 2.0m 1:343

Ex Foul Sewer 300mm⌀ at 24.92m 1:343

S.001 225mm⌀ at 36.34m 1:1576

Ex Foul Sewer 450mm⌀ 2228

Ex Foul Sewer 450mm⌀ at 2.0m 1:343

Ex Foul Sewer 450mm⌀ at 2.0m 1:343

Ex Foul Sewer 450mm⌀ at 2.0m 1:343