KEY	
SVP	●
SVP; VENTED TO AIR	●*
AAV	◑
DW	■
FG	⊠
WC	△
WHB	▲
SW	⊗
FOUL ACCESS CHAMBER	○
RWP	●
RODDING POINT	▬●
SURFACE WATER ACCESS CHAMBER	○
YARD GULLY	⊠
ACO DRAIN	▬▬
SURFACE WATER MANHOLE	◎
FOUL MANHOLE	◎
ADOPTABLE FOUL NETWORK	○
ADOPTABLE STORM WATER NETWORK	○

'OSMA' WAVIN POLYPROPYLENE INSPECTION CHAMBERS

(ref A) *300 DIAMETER, MAXIMUM 2.0m DEEP.*
100ø MAIN CHANNEL, 100ø CONNECTIONS.
'OSMA' REF. 34NE303

(ref B) *300 DIAMETER, MAXIMUM 2.0m DEEP.*
150ø MAIN CHANNEL, 150ø CONNECTIONS.
'OSMA' REF. 36NE303

(ref C) *450 DIAMETER, MAXIMUM 3.0m DEEP.*
100ø MAIN CHANNEL, 100ø CONNECTIONS.
'OSMA' REF. 44NE306

(ref D) *450 DIAMETER, MAXIMUM 3.0m DEEP.*
150ø MAIN CHANNEL, 100 & 150ø CONNECTIONS.
'OSMA' REF. 46NE309

(ref E) *600 DIAMETER, MAXIMUM 3.0m DEEP*
300ø MAIN CHANNEL, 300ø CONNECTIONS
'OSMA' REF. 612NE316

NOTE: ALL CHAMBERS MUST BE FITTED WITH A SEALED COVER AND SUPPORTED BY CONCRETE PLINTH. THE USE OF TAPERS MAY BE NECESSARY WITH SOME CHAMBERS TO FACILITATE THE USE OF STANDARD 'OSMA' POLYPROPYLENE PIPES. WHERE INVERT AND COVER LEVELS ARE NOT PROVIDED AT 'A' CHAMBERS ALLOWS THE CONTRACTOR SOME TOLERANCE AND/OR REPOSITIONING TO AVOID UTILITIES WHEN INSTALLING CLOSE TO THE BUILDING LINE.

GENERAL NOTES
1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE ARCHITECT'S, SPECIALIST'S AND ENGINEER'S DRAWINGS AND SPECIFICATIONS. ANY DISCREPANCIES ARE TO BE REPORTED TO THE ARCHITECT/ENGINEER IMMEDIATELY.
2. DRAINS ARE TO BE 100mm NOMINAL DIAMETER LAID AT A GRADIENT NOT FLATTER THAN 1/100 FOR SURFACE WATER, AND 1/40 FOR FOUL WATER, UNLESS SHOWN OTHERWISE.
3. FOUL DRAINS WITHOUT AT LEAST ONE W.C. CONNECTED ARE TO BE LAID NOT FLATTER THAN 1/40.
4. DRAINS CONSTRUCTED USING PP/UPVC/PE/HDPE PIPES (WHERE SPECIFIED) TO BS EN 13598–1:2020, ALL WITH FLEXIBLE JOINTS, BEDDED AND BACKFILLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND BS EN 752:2017. ANY PIPES DIAMETER GREATER THAN 225mm SHALL BE CONCRETE.
5. FLEXIBLE PIPES WITH LESS THAN 600mm COVER ARE TO BE SURROUNDED WITH CONCRETE, OR TO HAVE CONCRETE SLAB LAID AS PROTECTION ABOVE THE PIPE.
6. COVERS AND FRAMES FOR MANHOLES/INSPECTION CHAMBERS MUST COMPLY WITH BS EN 124, CLASS D400 FOR HARD STANDING AREAS WHERE VEHICLE USE WILL BE REQUIRED AND CLASS C250 ELSEWHERE.
7. A VENTILATING DRAIN SHOULD BE PROVIDED AT, OR NEAR THE HEAD OF EACH MAIN FOUL SEWER RUN, ANY BRANCH LONGER THAN 6m SERVING A SINGLE APPLIANCE OR 12m SERVING A GROUP OF APPLIANCES.
8. ELSEWHERE, DISCHARGE STACKS MAY BE TERMINATED WITH AIR ADMITTANCE VALVES VENTILATED IN THE ROOF SPACE.
9. GULLIES, RAINWATER PIPES AND SVP's SHOULD BE PROVIDED WITH RODDABLE ACCESS.
10. ALL PIPES LAID SOFFIT TO SOFFIT, UNLESS NOTED OTHERWISE.
11. LONG RADIUS BENDS TO BE USED AT THE BASE OF ALL SOIL STACKS.
12. ALL COVER LEVELS ARE APPROXIMATE ONLY.
13. PRIVATE GULLIES IN PEDESTRIAN HARD STANDING AREAS TO HAVE FRAMES TO MINIMUM BS EN 124 CLASS C250 (D400 FOR VEHICULAR AREAS)
14. ALL POLYPROPYLENE CHAMBERS, GULLY POTS AND FITTINGS TO BE SURROUNDED IN 150mm MINIMUM ST4 CONCRETE. HEAVY DUTY COVERS & FRAMES TO BE SUPPORTED ON A CONCRETE NIB WITHIN THE SURROUND.
15. FOUL AND SURFACE WATER OUTFALL CONNECTIONS AND LEVELS MUST BE VERIFIED PRIOR TO ANY DRAINAGE BEING INSTALLED, AS INVERTS HAVE BEEN SUPPLIED VIA THIRD PARTY TOPOGRAPHY SURVEY. SHOULD DISCHARGE INVERT LEVEL AND/OR OUTFALL POSITION DIFFER FROM STATED ON ANY RLT DRAWING, RLT ENGINEERING CONSULTANTS MUST BE MADE AWARE TO PROPOSE ALTERNATIVE. THE LAST CONNECTIONS MUST BE VERIFIED TO ENSURE DRAINAGE DESIGN CAN BE CONSTRUCTED AND MUST TAKE INTO ACCOUNT ANY POTENTIAL CLASH WITH EXISTING SERVICES.

SPECIAL NOTES
1. THE CONTRACTOR MUST ENSURE THAT ALL FLEXIBLE PIPES WITH LESS THAN 600mm COVER ARE TO BE EITHER SURROUNDED WITH CONCRETE OR PROTECTED WITH A CONCRETE PAVING SLAB AS PER PRIVATE DRAINAGE CONSTRUCTION DETAILS. THE CONCRETE SURROUND HATCH HAS BEEN SHOWN WHERE REQUIRED, HOWEVER, DUE TO THE INTRICATE DRAINAGE ARRANGEMENTS DUE TO THE DEVELOPMENT (ESPECIALLY FRONTAGE OF UNITS), CONCRETE PROTECTION HATCHING HAS NOT BEEN PROVIDED EXTENSIVELY. THE CONTRACTOR MUST MAKE ALLOWANCE FOR THIS AND ENSURE CONCRETE PROTECTION IS PROVIDED WHERE REQUIRED, NOT JUST WHERE INDICATED ON THIS DRAWING.

2. ARCHITECT'S THRESHOLD DETAIL NOT INDICTED ON THIS DRAWING. ACO DRAINS ARE SHOWN IN ADDITION OF ARCHITECT'S THRESHOLD DETAIL. ACO DRAINS ARE SHOWN INDICATIVE, i.e. NOT WITH SUMP CHAMBER. CONTRACTOR MUST DETERMINE FALL OF INVERT OF ACO DRAINS AND FINAL POSITION OF SUMP CONNECTION ON–SITE. CONTRACTOR MUST CONNECT ARCHITECT'S THRESHOLD DRAIN TO PRIVATE DRAINAGE SYSTEM.

3. FOOTPATHS TO BE LAID TO FALL TOWARDS ADJACENT SOFT LANDSCAPE TO REDUCE THE NUMBER OF YARD GULLIES.

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FOR CONSTRUCTION

A LATEST REVISIONS ARE 'TAGGED' WITH THIS INDICATOR. HOWEVER, ALL USERS OF THIS DRAWING MUST SATISFY THEMSELVES OF ALL REVISIONS TO ANY PREVIOUS ISSUES, BY COMPARISON OF THIS DRAWING AGAINST OTHER ISSUES, AS IT CANNOT BE GUARANTEED THAT EVERY ITEM OF REVISION HAS BEEN 'TAGGED'.

K	07.11.24	RWPS UPDATED TO SUIT ARCH DRAWINGS	DGI	SCO
J	15.03.23	ADDITIONAL YARD GULLIES	DGI	NTU
H	25.01.23	ACO DRAIN ADDED FOR PLOTS 113–116	MMA	SCO
G	06.09.22	DRAINAGE AMENDED TO AVOID CLASHES WITH PROPOSED TREES	LNE	SCO
F	24.06.22	DRAINAGE AMENDED TO SUIT EXTERNAL WORKS CHANGES (CLOUDED). MINOR SITE WIDE AMENDMENTS (UNCLOUDED)	DGI	SCO
E	24.06.22	DRAINAGE AMENDED TO SUIT UPDATED S104	DGI	SCO
D	09.06.22	DRAINAGE LAYOUT AMENDED FOR NEW UNITS	LNE	NTU
C	30.05.22	CONSTRUCTION ISSUE	RPA	NTU
B	04.02.22	VIEW PORT ORIENTATION CHANGED. KEY & KEY PLAN AMENDED. FORTENDER NOTE REMOVED. SITE WIDE AMENDMENTS (UNCLOUDED FOR CLARITY)	DGI	SCO
Rev	Date	Description	Drawn & Checked	Checked
Revisions				
Date	02.06.21	FIRST ISSUE	JNE	SCO

Project
HARBOUR VILLAGE, EBBSFLEET

Title
PHASE 1B
PRIVATE DRAINAGE
SHEET 1 OF 4

Client
BELLWAY HOMES (THAMES GATEWAY)

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