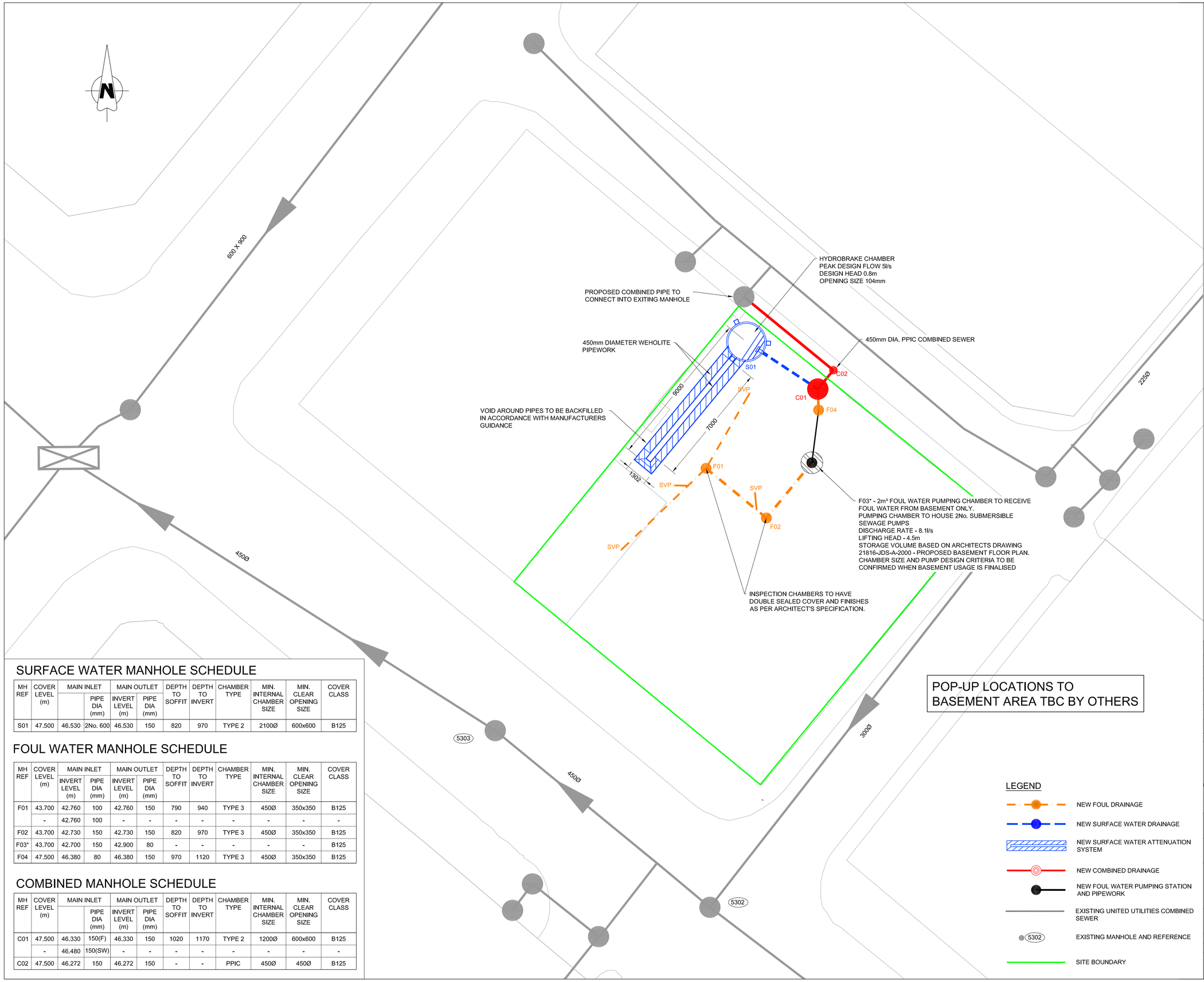

SURFACE WATER MANHOLE SCHEDULE

MH REF	COVER LEVEL (m)	MAIN INLET		MAIN OUTLET		DEPTH TO SOFFIT	DEPTH TO INVERT	CHAMBER TYPE	MIN. INTERNAL CHAMBER SIZE	MIN. CLEAR OPENING SIZE	COVER CLASS
			PIPE DIA (mm)	INVERT LEVEL (m)	PIPE DIA (mm)						
S01	47.500	46.530	2No. 600	46.530	150	820	970	TYPE 2	2100Ø	600x600	B125

FOUL WATER MANHOLE SCHEDULE

MH REF	COVER LEVEL (m)	MAIN INLET		MAIN OUTLET		DEPTH TO SOFFIT	DEPTH TO INVERT	CHAMBER TYPE	MIN. INTERNAL CHAMBER SIZE	MIN. CLEAR OPENING SIZE	COVER CLASS
		INVERT LEVEL (m)	PIPE DIA (mm)	INVERT LEVEL (m)	PIPE DIA (mm)						
F01	43.700	42.760	100	42.760	150	790	940	TYPE 3	450Ø	350x350	B125
	-	42.760	100	-	-	-	-	-	-	-	-
F02	43.700	42.730	150	42.730	150	820	970	TYPE 3	450Ø	350x350	B125
F03*	43.700	42.700	150	42.900	80	-	-	-	-	-	B125
F04	47.500	46.380	80	46.380	150	970	1120	TYPE 3	450Ø	350x350	B125

COMBINED MANHOLE SCHEDULE

MH REF	COVER LEVEL (m)	MAIN INLET		MAIN OUTLET		DEPTH TO SOFFIT	DEPTH TO INVERT	CHAMBER TYPE	MIN. INTERNAL CHAMBER SIZE	MIN. CLEAR OPENING SIZE	COVER CLASS
			PIPE DIA (mm)	INVERT LEVEL (m)	PIPE DIA (mm)						
C01	47.500	46.330	150(F)	46.330	150	1020	1170	TYPE 2	1200Ø	600x600	B125
	-	46.480	150(SW)	-	-	-	-	-	-	-	-
C02	47.500	46.272	150	46.272	150	-	-	PPIC	450Ø	450Ø	B125

LEGEND

- NEW FOUL DRAINAGE
- NEW SURFACE WATER DRAINAGE
- NEW SURFACE WATER ATTENUATION SYSTEM
- NEW COMBINED DRAINAGE
- NEW FOUL WATER PUMPING STATION AND PIPEWORK
- EXISTING UNITED UTILITIES COMBINED SEWER
- 5302 EXISTING MANHOLE AND REFERENCE
- SITE BOUNDARY

GENERAL NOTES

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
2. ALL LEVELS ARE IN METRES, RELATIVE TO ORDNANCE DATUM SURVEY
3. ALL DIMENSIONS TO BE CHECKED ON SITE BY THE CONTRACTOR PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. ANY DISCREPANCIES SHOULD BE REPORTED TO THE ENGINEER IMMEDIATELY.
6. THIS DRAWING TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTS, ENGINEERS AND SPECIALISTS DRAWINGS TOGETHER WITH THEIR SPECIFICATIONS.
7. DO NOT SCALE FROM THIS DRAWING, ONLY WRITTEN OR CALCULATED DIMENSIONS TO BE USED.
8. FOR GRID SET-OUT COORDINATES REFER TO ARCHITECTS DRAWINGS.

DRAINAGE NOTES

1. ALL NON ADOPTABLE DRAINS UP TO 150 Dia. TO BE 'POLYPIPE uPVC UNDERGROUND DRAIN' MANUFACTURED IN ACCORDANCE WITH BS EN 1401-1OR EQUAL APPROVED.
2. ALL ADOPTABLE DRAINS UP TO 300 Dia. TO BE EXTRA STRENGTH VITRIFIED CLAY PIPES MANUFACTURED IN ACCORDANCE WITH BS EN 295-1.
3. DRAINS TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS. BACKFILL AND BEDDING TO AS PER TYPICAL DETAIL U.N.O.
4. ALL DRAINS TO BE LAID SOFFIT TO SOFFIT. AND THE EXACT POSITIONS OF ALL DRAINS MAY BE DETERMINED ON SITE PRIOR TO COMMENCEMENT OF WORK. ANY REVISIONS ARE TO BE SUBJECT TO THE APPROVAL OF THE LOCAL BUILDING INSPECTOR.
5. WORKS TO ANY ADOPTED SERVICES ARE TO BE IN ACCORDANCE WITH 'SEWERS FOR ADOPTION' 7th EDITION AND SHOULD BE APPROVED WITH UNITED UTILITIES PRIOR TO COMMENCEMENT.
6. NEW INSPECTION CHAMBERS (IC) TO BE A MINIMUM OF 450mm DIA, ALL MANHOLES (MH) TO BE A MINIMUM OF 12000mm DIA. REFER TO M.H. SCHEDULE FOR ACTUAL SIZES.
7. REFER TO ARCHITECT'S DRAWINGS FOR INTERNAL DRAINAGE 'POP UP' POSITIONS.
8. FOUL WATER FROM GROUND LEVEL UPWARDS TO BE DRAINED UNDER GRAVITY. REFER TO MECHANICAL ENGINEERS DRAWINGS FOR DETAILS.
9. ANY DRAINS PASSING THROUGH SUBSTRUCTURE WALLS TO HAVE A MINIMUM 50mm CLEAR SPACE, RC LINTEL SUPPORT ABOVE & CEMENT FIBRE COLLARS EITHER SIDE TO PREVENT VERMIN ENTRY
10. ANY DRAINS CAST IN & PASSING THROUGH CONCRETE GROUND BEAMS TO HAVE A FLEXIBLE JOINT NOT MORE THAN 150mm FROM THE FACE OF THE GROUND BEAM. (FLEXIBLE JOINT TO MANUFACTURERS DETAILS) AND A MAXIMUM 600mm LONG ROCKER PIPER EITHER SIDE
11. ALL LINES OF DRAINAGE INDICATED ARE PROVISIONAL ONLY. THE EXACT POSITIONS OF ALL DRAINS MAY BE ALTERED TO SUIT AND DETERMINED ON SITE PRIOR TO COMMENCEMENT OF WORK. ANY REVISIONS ARE TO BE SUBJECT TO THE APPROVAL OF THE LOCAL BUILDING INSPECTOR.
12. WHERE DRAIN IS WITHIN 1M OF A BUILDING, THE TRENCH IS FILLED WITH CONCRETE UP TO THE UNDERSIDE OF THE FOUNDATIONS AND WHERE THE TRENCH IS FURTHER AWAY THAN 1M FROM THE BUILDING, THE TRENCH IS FILLED WITH CONCRETE TO A LEVEL BELOW THE LOWEST LEVEL FOR THE BUILDING EQUAL TO THE DISTANCE FROM THE BUILDING, LESS 150MM.
13. COVER LEVELS SHOWN ARE APPROXIMATE ONLY AND SHOULD BE ALTERED TO SUIT FINISHED SURFACE LEVELS.

Rev	Date	Revision Details	By	Chkd	Appd
D	17.11.21	ISSUEED FOR APPROVAL	DW	GE	GE
C	17.11.21	FINAL ISSUE	MF	MS	MS
B	22.08.19	ATTENUATION TANK AMENDED	GE	JC	MS
A	30.07.19	ISSUED FOR CONSTRUCTION	GE	JC	MS
P4	10.01.19	FOUL WATER PUMPING CHAMBER AMENDED	GM	GE	MS
P3	09.11.18	SURFACE WATER ATTENUATION AMENDED	GM	PH	GE
P2	08.10.18	DRAINAGE REVISED FOR REDUCED RATE OF DISCHARGE	GM	PH	GE

Westlakes Engineering

Client: KAMANI COMMERCIAL PROPERTY

Project: 27 DALE STREET

Title: PROPOSED DRAINAGE ARRANGEMENT

Drawing No.: WL_1059_040

Revision: D

Scale: 1:100 | Date: 30.07.2018

Drawn: GM | Chk: GE | App: GE

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