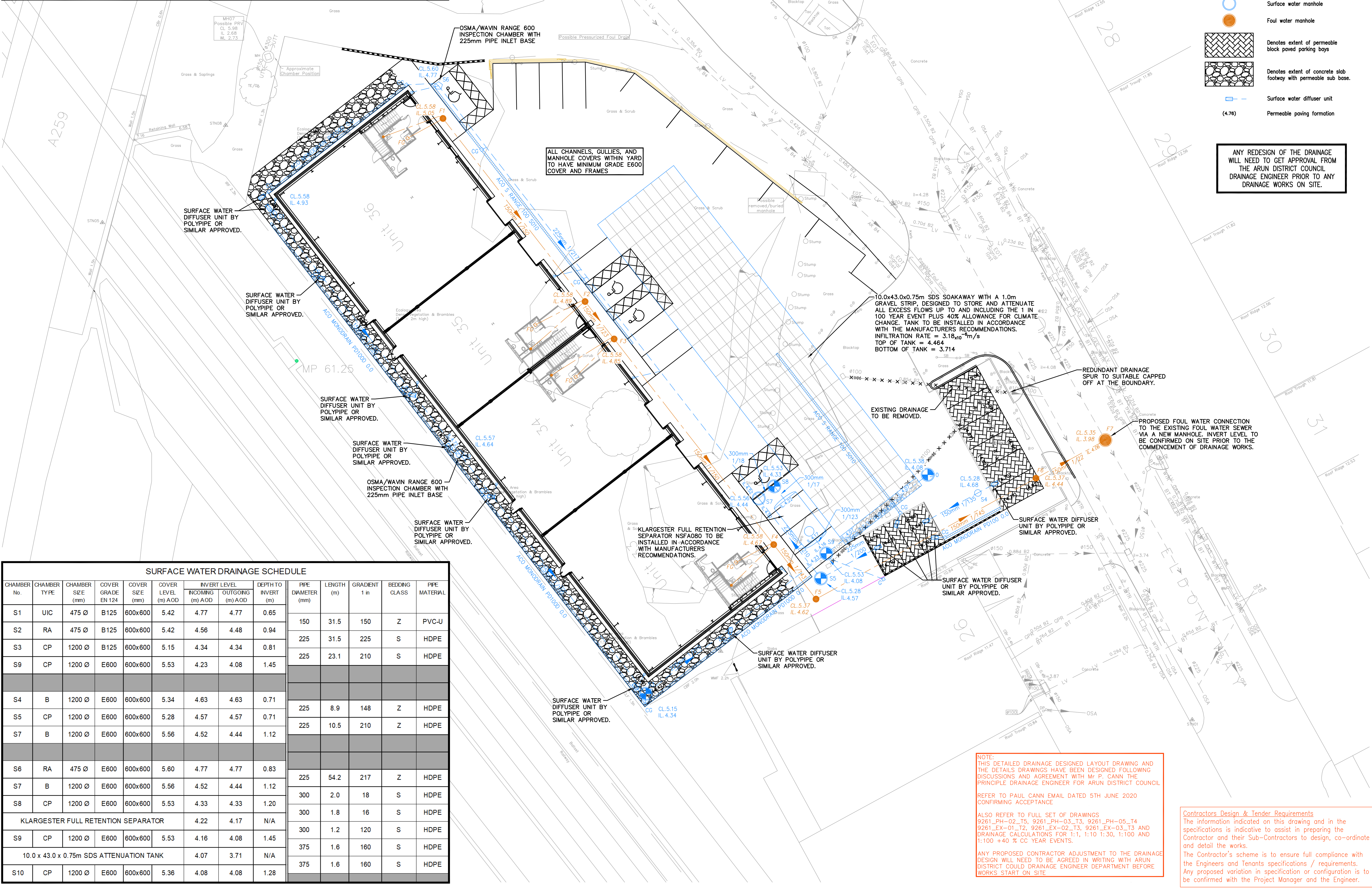


FOUL WATER DRAINAGE SCHEDULE														
CHAMBER No.	CHAMBER TYPE	CHAMBER SIZE (mm)	COVER GRADE EN 124	COVER SIZE (mm)	COVER LEVEL (m) AOD	INVERT LEVEL INCOMING (m) AOD	OUTGOING (m) AOD	DEPTH TO INVERT (m)	PIPE DIAMETER (mm)	LENGTH (m)	GRADIENT 1 in	BEDDING CLASS	PIPE MATERIAL	
F1	UIC	475 Ø	B125	600x600	5.58	5.05	5.05	0.53	150	24.0	150	Z	PVC-U	
F2	UIC	475 Ø	B125	600x600	5.58	4.89	4.89	0.69		4.9	123	Z	PVC-U	
F3	UIC	475 Ø	B125	600x600	5.58	4.85	4.85	0.73		150	27.0	150	Z	PVC-U
F4	UIC	475 Ø	B125	600x600	5.58	4.67	4.67	0.91		150	7.2	143	Z	PVC-U
F5	UIC	475 Ø	A15	525x525	5.37	4.62	4.62	0.75		150	26.0	145	Z	PVC-U
F6	UIC	475 Ø	E600	600x600	5.37	4.44	4.44	0.93		150	8.2	22	S	PVC-U
F7	B	1200 Ø	D400	600x600	5.35	4.06	3.98	1.37						



DRAINAGE LEGEND

- Trapped road gully
- Trapped yard gully
- Internal gully to Architects specification
- Channel drain and trapped outfall unit
- Surface water rodding eye
- Surface water drain
- Foul water drain
- Surface water inspection chamber
- Foul water inspection chamber
- Surface water catchpit manhole
- Surface water manhole
- Foul water manhole
- Denotes extent of permeable block paved parking bays
- Denotes extent of concrete slab footway with permeable sub base.
- Surface water diffuser unit
- Permeable paving formation

ANY REDESIGN OF THE DRAINAGE WILL NEED TO GET APPROVAL FROM THE ARUN DISTRICT COUNCIL DRAINAGE ENGINEER PRIOR TO ANY DRAINAGE WORKS ON SITE.

ENGINEERING NOTES

- This drawing to be read in conjunction with all relevant Architects, Engineers and Subcontractors drawings and details.
- This drawing is based on topographical survey by Malcolm Hollis:
Drawing Number 75625-MHL-00-Z0-M2-G-10100-A7
Dated 12/02/19
- All levels relate to levels given on survey drawing.
- Refer to Architects drawings for details of all paving types & patterns, soft landscaping, fences, gates & bollards.
- For lighting, service supplies & ducting requirements, refer to M&E drawings.
- All works to be carried out in accordance with Sewers for Adoption 7th Edition, BS EN 752 "Drain and sewer systems outside buildings" and the current edition of The Building Regulations "Approved document H".
- New drainage connections are to be made with appropriate lengths of rocker pipes & couplings.
- All manhole chamber covers to be installed parallel to final kerbs, edgings, paving joints or building lines as appropriate.
- This drawing details all below ground drainage up to finished floor level. For details of drainage above finished floor level, refer to Architects drawings.
- All stack connections under buildings to be minimum 100mm diameter solid PVC-U to BS EN 1401-1/BS4660 & laid at a minimum gradient of 1 in 40 unless otherwise noted. If the stack is greater than 100mm then the diameter of the connection is to be increased to match it.
- All RWP connections to be minimum 100mm diameter solid PVC-U to BS EN 1401-1/BS4660 & laid at a minimum gradient of 1 in 80 unless otherwise noted. If the RWP is greater than 100mm then the diameter of the connection is to be increased to match it.
- All private foul water pipework up to 150mm in diameter to be PVC-U to BS EN 1401-1/BS4660.
- All private surface water pipework up to 150mm in diameter to be solid PVC-U to BS EN 1401-1/BS4660. All private surface water pipework 225mm and above to be structured wall plastic sewer pipe complying with clause 518 of the specification for highway works.
- Plastic chambers shall comply with BS EN 1917 and BS 5911-3.
- On completion of development all drainage shall be jet cleaned and CCTV surveyed.
- Sewers marked to be removed are to be dug out with manholes demolished & void filled with suitable engineering fill material.
- All road gully connections to be minimum 150mm diameter solid PVC-U pipework to BS EN 1401-1/BS4660 and laid at a minimum gradient of 1 in 150.
- Drainage branch connections to be made with 45° angle to main run.

SURFACE WATER DRAINAGE SCHEDULE														
CHAMBER No.	CHAMBER TYPE	CHAMBER SIZE (mm)	COVER GRADE EN 124	COVER SIZE (mm)	COVER LEVEL (m) AOD	INVERT LEVEL		DEPTH TO INVERT (m)	PIPE DIAMETER (mm)	LENGTH (m)	GRADIENT 1 in	BEDDING CLASS	PIPE MATERIAL	
						INCOMING (m) AOD	OUTGOING (m) AOD							
S1	UIC	475 Ø	B125	600x600	5.42	4.77	4.77	0.65	150	31.5	150	Z	PVC-U	
S2	RA	475 Ø	B125	600x600	5.42	4.56	4.48	0.94		225	31.5	225	S	HDPE
S3	CP	1200 Ø	B125	600x600	5.15	4.34	4.34	0.81		225	23.1	210	S	HDPE
S9	CP	1200 Ø	E600	600x600	5.53	4.23	4.08	1.45						
S4	B	1200 Ø	E600	600x600	5.34	4.63	4.63	0.71	225	8.9	148	Z	HDPE	
S5	CP	1200 Ø	E600	600x600	5.28	4.57	4.57	0.71		225	10.5	210	Z	HDPE
S7	B	1200 Ø	E600	600x600	5.56	4.52	4.44	1.12						
S6	RA	475 Ø	E600	600x600	5.60	4.77	4.77	0.83	225	54.2	217	Z	HDPE	
S7	B	1200 Ø	E600	600x600	5.56	4.52	4.44	1.12		300	2.0	18	S	HDPE
S8	CP	1200 Ø	E600	600x600	5.53	4.33	4.33	1.20		300	1.8	16	S	HDPE
KLARGESTER FULL RETENTION SEPARATOR						4.22	4.17	N/A	300	1.2	120	S	HDPE	
S9	CP	1200 Ø	E600	600x600	5.53	4.16	4.08	1.45	375	1.6	160	S	HDPE	
10.0 x 43.0 x 0.75m SDS ATTENUATION TANK						4.07	3.71	N/A		375	1.6	160	S	HDPE
S10	CP	1200 Ø	E600	600x600	5.36	4.08	4.08	1.28						

NOTE:
THIS DETAILED DRAINAGE DESIGNED LAYOUT DRAWING AND THE DETAILS DRAWINGS HAVE BEEN DESIGNED FOLLOWING DISCUSSIONS AND AGREEMENT WITH Mr. P. CANN THE PRINCIPLE DRAINAGE ENGINEER FOR ARUN DISTRICT COUNCIL.
REFER TO PAUL CANN EMAIL DATED 5TH JUNE 2020 CONFIRMING ACCEPTANCE
ALSO REFER TO FULL SET OF DRAWINGS 9261_PH-02_T5, 9261_PH-03_T3, 9261_PH-05_T4, 9261_EX-01_T2, 9261_EX-02_T3, 9261_EX-03_T3 AND DRAINAGE CALCULATIONS FOR 1:1, 1:10 1:30, 1:100 AND 1:100 +40 % CC YEAR EVENTS.
ANY PROPOSED CONTRACTOR ADJUSTMENT TO THE DRAINAGE DESIGN WILL NEED TO BE AGREED IN WRITING WITH ARUN DISTRICT COUNCIL DRAINAGE ENGINEER DEPARTMENT BEFORE WORKS START ON SITE.

Contractors Design & Tender Requirements
The information indicated on this drawing and in the specifications is indicative to assist in preparing the Contractor and their Sub-Contractors to design, co-ordinate and detail the works.
The Contractor's scheme is to ensure full compliance with the Engineers and Tenants specifications / requirements.
Any proposed variation in specification or configuration is to be confirmed with the Project Manager and the Engineer.

T5	Drainage approval note added.	JDC	09.06.20
T4	Drawing updated following comments from Arun District Council.	JDC	28.05.20
T3	Permeable paved parking bays, and permeable sub-base footway added.	JDC	21.04.20
T2	Manhole schedule added	JDC	31.10.19
T1	Tender Issue	JDC	16.08.19
Ref.	Revisions	By	Date

Lineside Industrial Estate
Eldon Way
Littlehampton

TENDER ISSUE

Drainage Layout
Soakaway Design

taylor whalley spira
consulting civil and structural engineers
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Tel (020) 7253 2626 Fax (020) 7253 2767
E-mail: tws@twsws.uk.com Website: www.twsws.uk.com

Scale at A1 Date 25/07/19 Drawn By JDC

Project No. 9261 Drg No. PH_02 Rev. T5

ARUN DISTRICT COUNCIL LU07000002