

- NOTES:**
- DO NOT SCALE THIS DRAWING - IF IN DOUBT ASK.
  - ALL WORK ON THE SITE TO BE IN ACCORDANCE WITH THE SAFETY, HEALTH AND WELFARE AT WORK (CONSTRUCTION) REGULATIONS.
  - ALL DIMENSIONS ARE AS SHOWN.
  - ALL LEVELS ARE SHOWN IN M.O.D.
  - ALL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH OTHER CIVIL, STRUCTURAL, MECHANICAL, ELECTRICAL, AND FABRICATORS DRAWINGS.
  - ALL CONSTRUCTION LEVELS AND CONTOURS ON THE INCLUDED DRAWINGS RELATE TO THE MAIN HEAD ORDNANCE DATUM.
  - DRAIN FROM CHEMICAL DELIVERY AREA TO BE ACID RESISTANT (PTFE OR EQUIVALENT), ACID RESISTANT SHUT-OFF VALVE TO BE NORMALLY-OPEN TO ALL COWLING/CONTAMINATED SURFACE-WATER DRAIN TO SITE INFILTRATION POND. SHUT-OFF VALVE TO BE CLOSED DURING CHEMICAL DELIVERY. DRAIN SECTION TO BE OVER-SIZED TO PROVIDE EMERGENCY STORAGE FOR DELIVERY TANKER SPILLAGES.
  - CHEMICAL DELIVERY AREA - SEE DETAIL IN DRAWING 11118-RHL-LP2-XX-DR-PL-0016
  - MODIFICATION TO EXISTING SURFACE-WATER DRAINAGE SYSTEM AS NECESSARY WHERE CLASH OCCURS WITH PROPOSED DEVELOPMENT
  - ALL SURFACE WATER SECTIONS CHECKED FOR PERCENTAGE FILLING - ALL LESS THAN 60% FULL

**LEGEND:**

EXISTING STORM SEWER	
PROPOSED STORM SEWER	
EXISTING MAN-HOLE	
PROPOSED MAN-HOLE	
GULLY	
SITE BOUNDARY	
OWNERSHIP BOUNDARY	
PROPOSED SEWER	
PROPOSED SEWER MAIN	
RIGHT OF WAY	
PROPOSED LIME DOSING LINE	
PROPOSED ACID DOSING LINE (OLD WTP)	
PROPOSED ACID DOSING LINE (NEW WTP)	

REV	DATE	DESCRIPTION	D	C	A
01	28/05/21	Updated following comments	EV	MC	JB

REV	DATE	DESCRIPTION	D	C	A
01	28/05/21	Updated following comments	EV	MC	JB

**Planning Drawings**

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**PROJECT**  
**LEIXLIP WATER TREATMENT PLANT UPGRADE**

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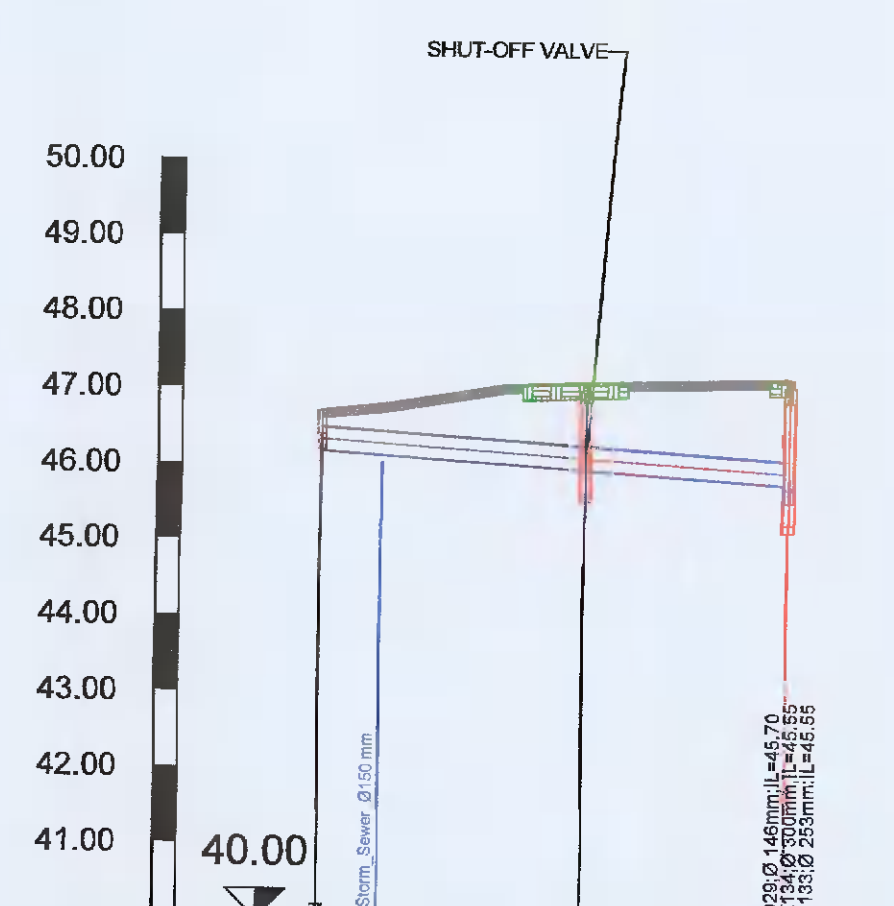
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**TITLE**  
**PROPOSED AND EXISTING SURFACE WATER DRAINAGE PLAN & PROFILES**

SCALE	1:100 1:1000	DRAWN	EV	CHECKED	MC	APPROVED	JB
DRAWING No.	11118-RHL-LP2-XX-DR-PL-0017	DATE	28/05/2021	DATE	28/05/2021	DATE	28/05/2021
STATUS	S2	REVISION	01				

A142  
M:1:1000/100

S\_19 - S\_1  
M:1:1000/100



Manhole name	S_19	S_20	S_12
Section name	S358	S359	S359
Ground Level [m.O.D.]	46.18	46.07	46.77
Invert Level [m.O.D.]	46.18	45.95	45.77
Section Length [m]	34.77	26.90	61.67
Pipe Diameter & Material	Concrete Encased PTFE Acid Resistant		
Length/Slope	1:150		
Chainage	0+000.00	0+034.77	0+096.44
Flow [l/s]	0	0	0
Velocity [m/s]			
Filling percent [%]			
Full pipe flow [l/s]			
Full pipe velocity [m/s]			

Manhole name	S_19	S_20	S_30	S_12	S_8	S_5	S_4	S_3	S_2	S_1
Section name	S337	S338	S339	S340	S341	S342	S343	S344	S345	S346
Ground Level [m.O.D.]	46.07	46.07	46.07	46.07	46.07	46.07	46.07	46.07	46.07	46.07
Invert Level [m.O.D.]	46.07	46.07	46.07	46.07	46.07	46.07	46.07	46.07	46.07	46.07
Section Length [m]	47.65	55.51	33.66	29.11	39.73	24.34	46.49	21.07		
Pipe Diameter & Material	PVC-U									
Length/Slope	1:200									
Chainage	0+000.00	0+047.65	0+103.16	0+136.67	0+176.33	0+215.66	0+245.00	0+274.34	0+303.67	0+324.74
Flow [l/s]	7	24	78	48	48	48	41	33		
Velocity [m/s]	0.73	1.00	1.17	1.17	1.17	1.06	1.09	1.06		
Filling percent [%]	25.39	48.35	86.39	55.95	50.00	84.09	70.00	56.73		
Full pipe flow [l/s]	51	51	80	80	80	51	51	51		
Full pipe velocity [m/s]	1.01	1.01	1.13	1.13	1.13	1.01	1.01	1.01		