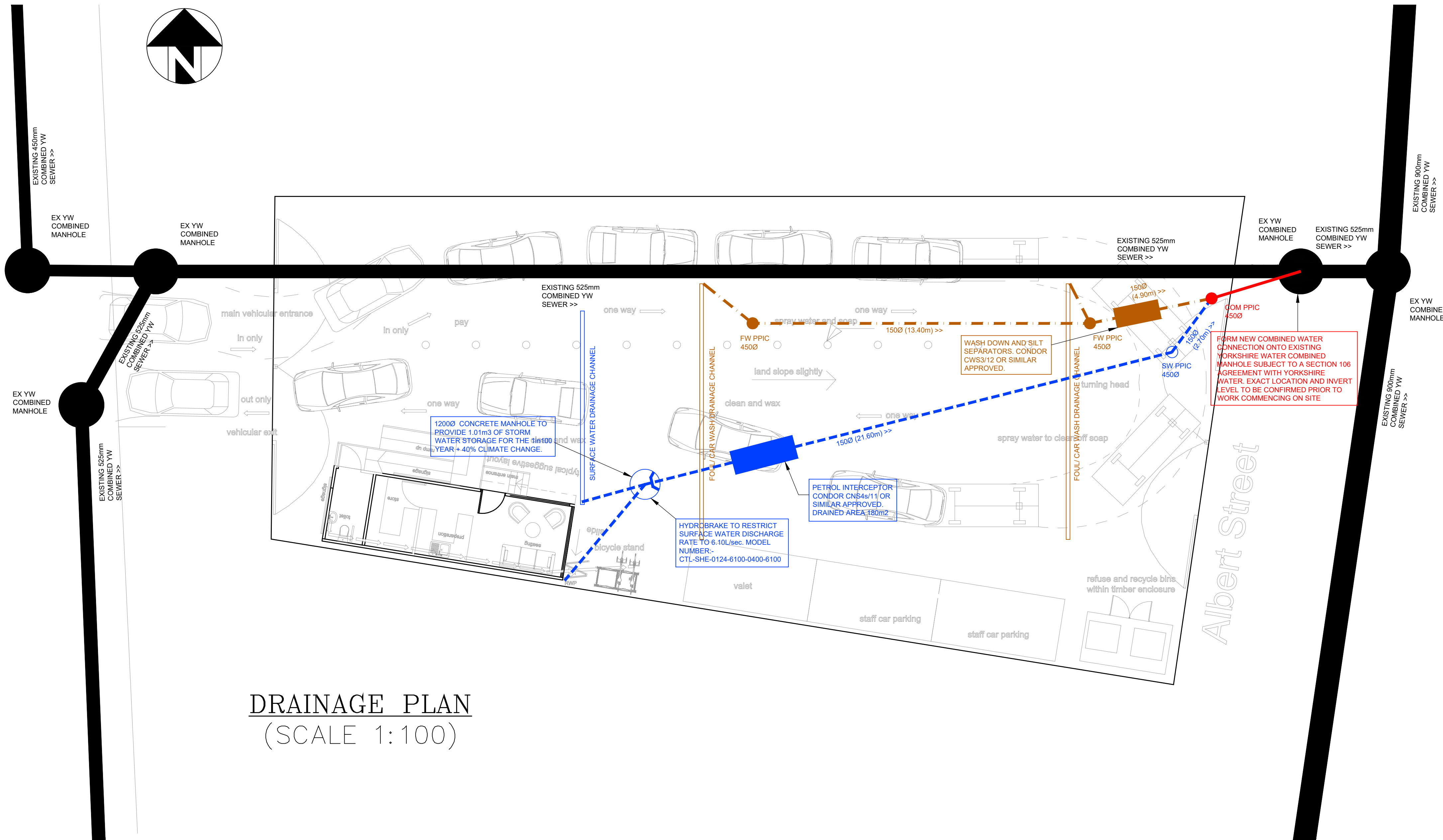
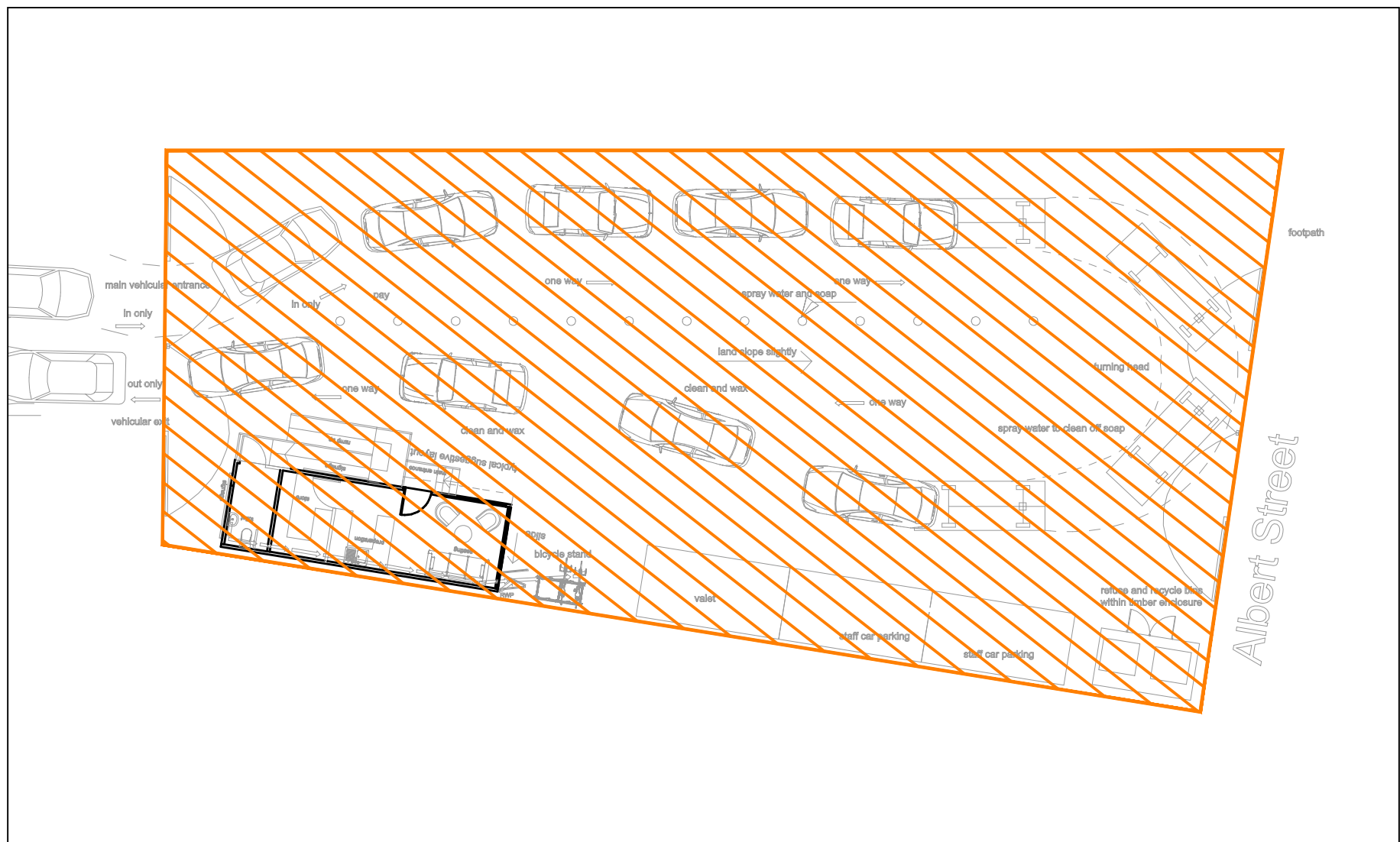




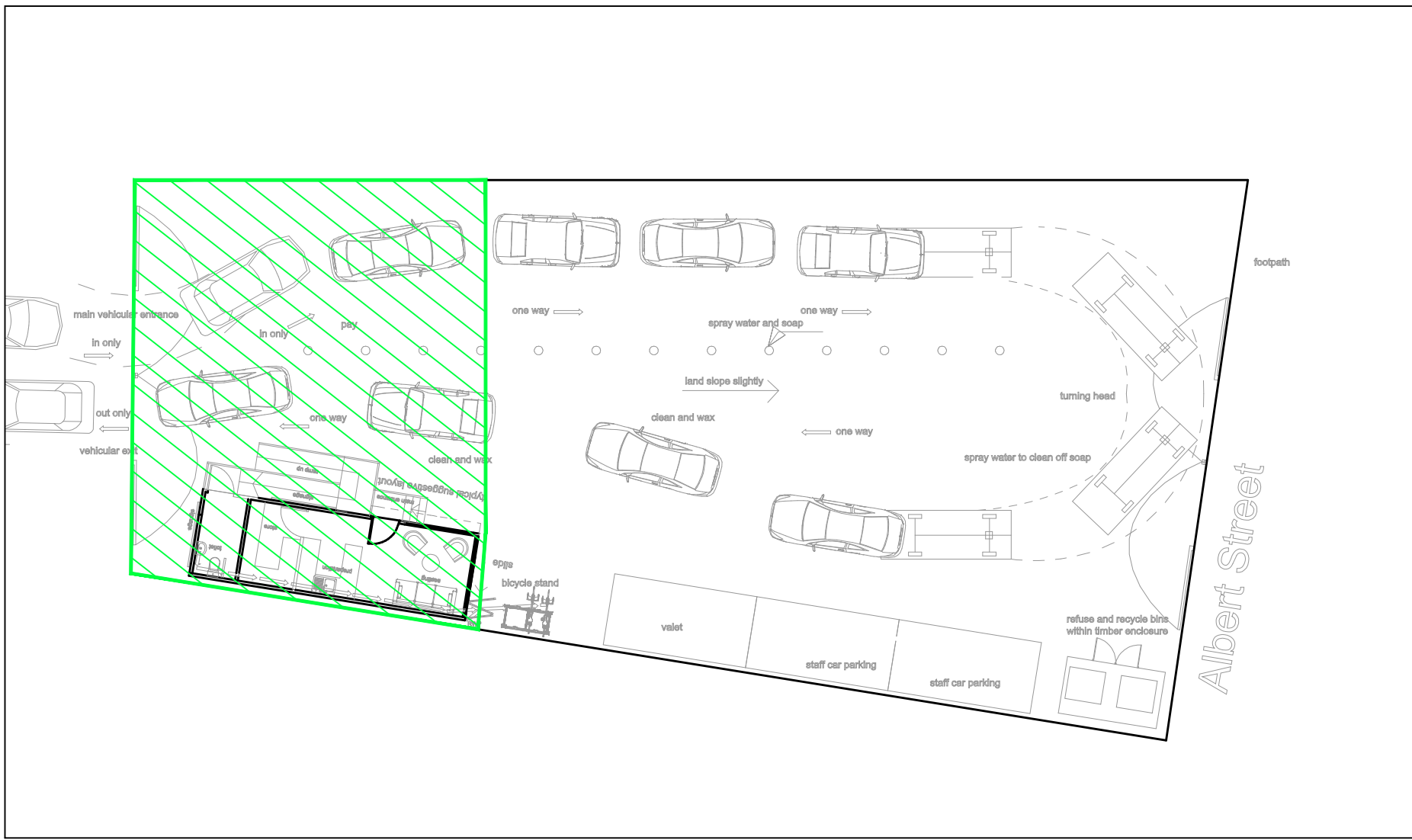
RWP AND SVP ARE SUBJECT TO
CONFIRMATION FROM ARCHITECT

KEY	
	EXISTING FW SEWER
	EXISTING FW MH
	PROPOSED FW SEWER
	PROPOSED SW SEWER
	PROPOSED CW SEWER
	EXISTING FW SEWER
	EXISTING SW SEWER
	EXISTING CW SEWER
	DIVERTED SW SEWER
	ABANDONED SW SEWER
	PROPOSED CW MH
	PROPOSED FW MH
	PROPOSED SW MH

DRAINAGE PLAN (SCALE 1:100)



Existing Impermeable Area Plan (1:200)
Impermeable Area 620m2



Proposed Impermeable Area Plan (1:200)
Impermeable Area 180m2

Drainage Strategy

Surface Water:

Under SUDs guidance the first method of disposal of surface water is infiltration. Infiltration testing was undertaken on site 29th September 2026 and was proven to be unsuccessful. Please refer to percolation report.

The existing impermeable area is 620m2 which currently drain into the existing YW combined Yorkshire Water sewer within site. The existing site has a 1in 1 year run off rate of 8.70L/sec. We therefore proposed a 30% betterment to the existing 1in1 year storm. This equates to a proposed discharge rate of 6.10L/sec for the 1in 100 year + 40% climate change.

Flow Restriction 6.10L/sec

The proposed impermeable area is 180m2. Based on a flow restriction of 6.10L/s and modelling using Causeway Flow software the attenuation requirement for a peak return period of 1 in 100year plus 40% climate change is **1.01m3**.

Attenuation to be provided via **12000 CONCRETE MANHOLE RING**. The flows will be attenuated using a 124mm Hydrobrake ref.- MD-SHE-0124-6100-0400-6100.

Foul Water:

Foul will be connected into the existing YW combined sewer within site.

DO NOT SCALE - IF IN DOUBT ASK

NOTES

- THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH ENG SPECIFICATION FOR DRAINAGE WORKS No.17 AND ANY OTHER SUBSEQUENT ADDITIONS TO THIS LIST.
- ALL BUILDING DRAINAGE WORKS SHALL BE CARRIED OUT IN ACCORDANCE WITH THE CURRENT BRITISH/EUROPEAN STANDARDS BSEN752, THE CURRENT BUILDING REGULATIONS AND THE LOCAL AUTHORITY BUILDING CONTROL OR NHBC SPECIFICATIONS AND REQUIREMENTS.
- FOR EXTERNAL FINISHED GROUND LEVELS REFER TO ARCHITECTS EXTERNAL WORKS DRAWING.
- ALL COVER LEVELS TO MANHOLES ARE APPROXIMATE ONLY AND MAY BE ADJUSTED ON SITE TO TIE IN WITH ARCHITECTS PROPOSED LEVELS.
- EXACT LOCATION OF RAINWATER DOWNPIPES AND ALL INTERNAL DRAINAGE POINTS TO BE CONFIRMED BY ARCHITECT. ALL NEW RAINWATER PIPE OUTLETS TO BE RODDABLE.
- FOR ALL SETTING OUT, DIMENSIONS AND CURRENT SITE LAYOUT REFER TO ARCHITECTS DRAWING. DO NOT SCALE FROM THIS DRAWING
- INVERT LEVELS OF ALL OUTFALL POINTS TO BE CLARIFIED PRIOR TO COMMENCING DRAINAGE WORKS. POSITION SIZE AND DEPTH OF ALL EXISTING DRAINS AND SERVICES SHALL BE ESTABLISHED PRIOR TO COMMENCEMENT ON SITE AND ANY DISCREPANCIES REPORTED TO ENGINEER.
- THE CONTRACTOR SHALL ALLOW FOR THE PROTECTION, TEMPORARY AND PERMANENT SUPPORT, AND TEMPORARY AND PERMANENT DIVERSION WORKS, AS NECESSARY TO ALL EXISTING SERVICES
- THE CONTRACTOR SHALL ALLOW FOR ALL TRAFFIC MANAGEMENT IN CONNECTION WITH ROAD AND SEWER WORKS
- THE CONTRACTOR SHALL ALLOW FOR KEEPING TRENCHES AND EXCAVATIONS AS DRY AS PRACTICABLE BY PUMPING FROM TEMPORARY SUMPS AND DEWATERING AS APPROPRIATE. THE POINT AND METHOD OF DISCHARGE TO BE AGREED WITH THE DRAINAGE AUTHORITY AND ENVIRONMENT AGENCY
- ALL DRAINAGE CHANNELS ARE TO BE SIZED BY MANUFACTURER FOR AREAS DRAINED AND TO HAVE BUILT IN FALLS AND SILT TRAP OUTLETS WITH HEAVY DUTY COVERS SUITABLE TO HGV's.
- ALL SW PIPES TO BE MIN. 150 DIA UNO. @ MIN 1:150, ALL FW PIPES TO BE 100 DIA UNO. @ MIN 1:80 UNO.
- CCTV SURVEY TO BE COMPLETED AFTER INSTALLATION BY CONTRACTOR, ANY UNSATISFACTORY AREAS TO BE REPAIRED AS REQUIRED AT CONTRACTORS EXPENSE, AND CONTINUE PROCESS UNTIL APPROVAL FROM KRYPTON.
- ALL GULLYS TO BE RODDABLE, ALL DOWNPIPES TO BE RODDABLE.

P1	01.10.26	1st issue	MAC	ATH	ATH
Rev	Date	Description	By	Chk	App

Revision

KRYPTON STRUCTURES
CIVIL & STRUCTURAL ENGINEERS

KEIGHLEY OFFICE
SHERATON SUITE, SUNDERLAND ENTERPRISE CENTRE,
SUNDERLAND STREET, KEIGHLEY, BD21 5LE

HARROGATE OFFICE
HAMMERMAN HOUSE, HOOKSTONE AVENUE, HARROGATE, HG2 8ER
TEL: 01535 538014 | 07798824849
EMAIL: INFO@KRYPTONSTRUCTURE.COM
VISIT: WWW.KRYPTONSTRUCTURE.COM



CLIENT -

PROJECT
Land off Lockwood Road, Lockwood, Huddersfield

TITLE
Drainage Plan

SCALE As Shown @ A1	DRAWING SIZE A1	DRAWN MAC
DRAWING No. KS1783 / D01		REV. P1