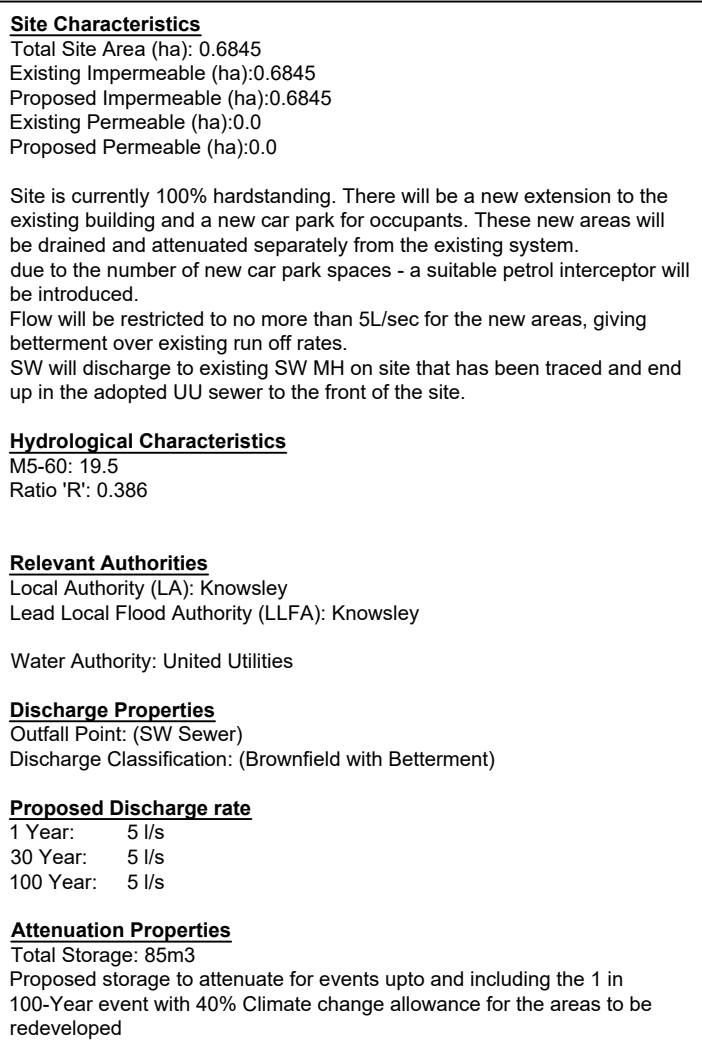
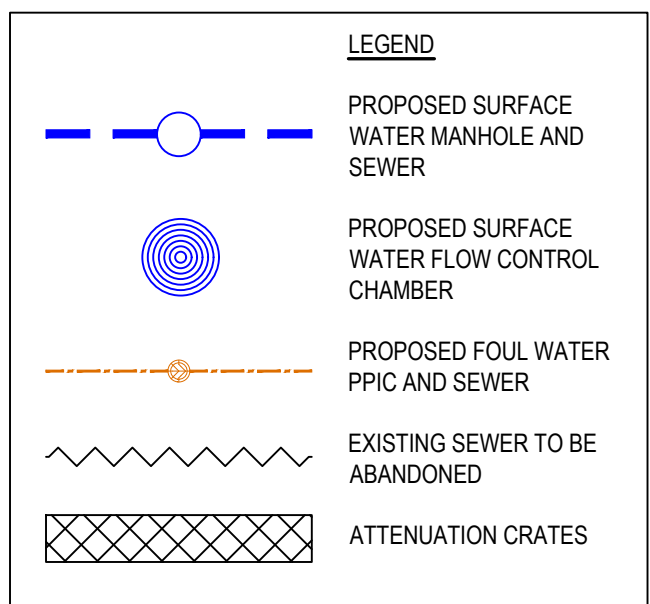




- IMPORTANT NOTES**
1. SETTING OUT SHALL BE UNDERTAKEN USING ONLY THE INFORMATION GIVEN. DISTANCES SHOULD NOT BE SCALED. FROM THIS DRAWING.
 2. ALL SEWERS SHALL BE CONSTRUCTED IN ACCORDANCE WITH SEWERS FOR DISTANCE 17TH EDITION AND UNITED UTILITIES STANDARDS & GUIDELINES.
 3. THE MINIMUM GRAVITY PIPE DIAMETER UNDER ADAPTABLE HIGHWAYS SHALL BE 150mm
 4. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ALL INFORMATION GIVEN WITH REGARDS TO EXISTING SERVICES AND DRAINAGE CONNECTIONS PRIOR TO COMMENCING THE WORKS. THE NOTES SHALL INCLUDE FOR HAND DUG AREAS SERVICES WHERE NECESSARY. THE CONTRACTOR SHALL ADHERE TO THE CDM REGULATIONS AT ALL TIMES
 5. THE OUTSIDES OF ALL SEWERS SHALL BE A MINIMUM OF 1.0m FROM KERB LINES AND THE OUTSIDE OF MANHOLES SHALL BE A MINIMUM OF 0.5m FROM KERB LINES
 6. EXISTING FLOWS IN WATERCOURSES, SEWERS AND LAND DRAINS SHALL BE MAINTAINED AT ALL TIMES
 7. ONLY TRAINED PERSONNEL SHALL BE PERMITTED TO ENTER CONFINED SPACES
 8. ALL MATERIALS TO BEAR THE RELEVANT BS & ITEMKAM & COMPLY FULLY WITH THE SPECIFICATIONS. ALL CONCRETE & CONCRETE PRODUCTS MUST USE SULPHATE RESISTANT CEMENT (LESS THAN THE SITE INVESTIGATION REPORT PROVES THAT SULPHATE ATTACK FROM SOILS & GROUNDWATER WILL NOT OCCUR TO WITHSTAND A CLASS)
 9. ALL OPENING NOTICES ETC. AS REQUIRED UNDER HIGHWAYS ACTS ETC. ARE TO BE OBTAINED PRIOR TO COMMENCEMENT OF WORKS. ALL WORKS ARE TO BE INSPECTED BY A L.N.H.C. OR THE SENIOR AGENT AS APPLICABLE.
 10. WHERE 'ULTRA RIGID PIPE' (OR SIMILAR APPROVED) ARE USED TO ADAPTE DRAINAGE DRAINAGE THEY SHALL STILL BE HANDLED AND LAD IN ACCORDANCE WITH THE SPECIFICATIONS AND GUIDANCE ISSUED BY THE HIGH PERFORMANCE PIPE ASSOCIATION
 11. A CLASS 5 AND SUPERIOR SHALL BE USED FOR SLOPE PIPES. TRENCH BACKFILL IN SEWERS TO WITHIN 1M OF HIGHWAY SHALL AS DIRECTED BY THE HIGHWAY AUTHORITY BE A SUITABLE GRANULAR MATERIAL. ALL MATERIALS TO BE ADAPTED TO HIGHWAYS FOR ADAPTION CL 4.3.4
 12. SLOPE LEVELS SHALL NOT BE WARRIED WITHOUT REFERENCE TO THE ENGINEER FOR GUIDANCE
 13. ALL GULLY CONNECTIONS TO BE 150mm VITRIFIED GLAY UNLESS NOTED OTHERWISE
 14. ALL MANHOLE COVERS TO BE RECESSED TO ACCEPT FINISH AS DETAILED BY LANDSCAPE ARCHITECT
 15. SLOW RISE BENCHES TO BE USED IN ALL LOCATIONS MADE UP FROM 2% 45 DEG BENCHES (800mm TO INVERT FROM FFL)
 16. MANHOLE POSITIONS AND ACCESS COVERS TO BE ACCURATELY SET-OUT BY LANDSCAPE ARCHITECT TO SUIT EXTERNAL FINISHES
 17. ALL DRAINS CUT THROUGH FOUNDATIONS TO HAVE ROCKER PIPES ON BOTH SIDES OF FOUNDATION
 18. ALL POP UP POSITIONS TO BE CONFIRMED SET OUT DIMENSIONS TO BE AGREED A PROVIDED BY OTHERS
 19. ALL DISCHARGE RATES TO BE CONFIRMED BY M&E DESIGNER
 20. ALL SURFACE WATER COLLECTION FEATURES TO BE CONFIRMED BY THE LANDSCAPE ARCHITECT
 21. STORAGE HAS BEEN PROVIDED IN A CELLULAR STORAGE TANK AND UP-SIZED MANHOLE AND PIPES
 22. EXISTING SEWER DEPTHS HAVE BEEN APPROXIMATED FROM LIMITED INFORMATION. NEW CONNECTIONS TO BE SPECIFIED PRIOR TO CONSTRUCTION OF ANY DRAINAGE WORKS
 23. LANDSCAPE ARCHITECT TO CONFIRM GULLY AND DRAINAGE CHANNEL LOCATIONS TO LANDSCAPED AREAS
 24. FLOW NETWORK TO BE CONFIRMED FOLLOWING CONFIRMATION OF BRANCH CONNECTION POINTS FROM BUILDING M&E DESIGNER
 25. CCTV SURVEY OF EXISTING SITE DRAINAGE REQUIRED PRIOR TO THE COMMENCEMENT OF ANY WORKS STARTING ON SITE



P2	09.11.2022	UPDATED TO SUIT LATEST ARCHITECTS LAYOUT	LS	KOB	KC
P1	25.08.2022	PRELIMINARY ISSUE	JJR	JRS	KC
REV	DATE	DESCRIPTION	BY	CHK	AP

DRAWING STATUS: **PRELIMINARY**

CLIENT: HUYTON ASPHALT LTD

ARCHITECT: DK-ARCHITECTS

PROJECT:

LEES ROAD
KNOWSLEY INDUSTRIAL PARK
KNOWSLEY

TITLE: **OUTLINE DRAINAGE STRATEGY**

STATUS:	PROJECT No.	PROJECT	ORIGINATOR	VOL/SYS	LEVEL	TYPE	ROLE	DRAWING No.	REV:
S2	221-160	LRK - AJP - ZZ - 00 - DR - C - 0001							P02

SCALE @ A1:	DESIGNED:	DRAWN:	CHECKED:	APPROVED:	DATE:
1:200	JJR	JJR	JRS	KOB	AUG 2022