



NOTE:
FOR PUBLIC HIGHWAY WORKS REFER TO ARCHITECTS S278 PACK

- KEY**
- PROPOSED COMBINED WATER DRAIN
 - PROPOSED SURFACE WATER DRAIN
 - PROPOSED FOUL WATER DRAIN
 - EXISTING COMBINED WATER SEWER
 - PROPOSED GEOCELLULAR ATTENUATION TANK
 - PROPOSED RAINWATER PIPE
 - PROPOSED FOUL CONNECTION TO DRAIN
 - PROPOSED OIL SEPERATOR
 - PROPOSED FLOW CONTROL
 - PROPOSED GREASE TRAP
 - PROPOSED POLYPROPYLENE INSPECTION CHAMBER
 - PROPOSED GULLY
 - PROPOSED LINEAR DRAIN
 - PROPOSED CATCHPIT MAMHOLE
 - PROPOSED PERFORATED PIPE
 - PUBLIC HIGHWAY WORKS (BY OTHERS)
 - RAIN GARDENS
 - RED LINE BOUNDARY

NOTES:

- THIS DRAWING IS PRELIMINARY AND IS SUBJECT TO CHANGE DEPENDING ON FURTHER DEVELOPMENT OF THE G.A., SITE LAYOUT, RWP AND POP-UP LAYOUT.
- THIS DRAWING IS BASED ON PLANIT I.E. LANDSCAPE GENERAL ARRANGEMENT, DRAWING NO. 2522-PLA-00-00-DR-L-0001, REV P07 AND BUTTRESS ARCHITECTS GROUND FLOOR PLAN, DRAWING NO. 45306-BUT-ZZ-00-DR-A-2000-P02.
- TO BE READ IN CONJUNCTION WITH ALL RELEVANT KENNEDY REDFORD DRAWINGS.
- EXISTING SEWER LOCATIONS AND LEVELS TO BE CONFIRMED BY CONTRACTOR ON SITE, PRIOR TO WORK COMMENCING.
- PRIVATE DRAINS TO BE CONSTRUCTED IN ACCORDANCE WITH BUILDING REGULATIONS. NO CONNECTION TO BE MADE TO THE PUBLIC SEWER UNTIL APPROVAL HAS BEEN RECEIVED FROM THE RELEVANT AUTHORITY.
- ALL INSPECTION CHAMBER SIZES ARE 4750 UNLESS INDICATED OTHERWISE.
- UNLESS INDICATED OTHERWISE ALL PIPES TO BE LAID SOFFIT TO SOFFIT.
- WHERE PROPOSED DRAINS ARE IN PROXIMITY TO PROPOSED FOUNDATIONS, THE FOUNDATIONS SHALL BE TAKEN DEEPER TO BELOW THE DRAINS OR THE DRAIN SHOULD BE PROTECTED WITH A FULL CONCRETE SURROUND.
- PROPOSED PIPEWORK WITH LESS THAN THE FOLLOWING DEPTHS TO SOFFIT REQUIRES A CONCRETE SURROUND:
 - 1.2m IN ROADS
 - 0.5m UNDER FOOTPATHS AND UNDER BUILDINGS.
- ALL PRIVATE SURFACE WATER PIPES TO BE MIN 150mmØ LAID AT A MAX 1:80 GRADIENT U.N.O.
- ALL UNDERSLAB FOUL PIPES TO BE 100mmØ LAID AT A MAX 1:40 GRADIENT U.N.O. OTHER FOUL PIPES TO BE 100mmØ LAID AT A MAX 1:80 GRADIENT U.N.O.
- PROPOSED DRAINAGE IS SUBJECT TO CONFIRMATION (BY CONTRACTOR) OF LEVELS OF EXISTING DRAINAGE AT PROPOSED CONNECTION POINTS.
- CONTRACTOR TO ARRANGE ALL SEWERS AND DRAINS TO BE FLUSHED OUT BEFORE FINAL CCTV SURVEY IS CARRIED OUT ON COMPLETION OF WORKS.
- CONTRACTOR TO APPLY FOR SEWER PERMITS AND ROAD OPENING PERMITS AS NECESSARY FROM THE APPROPRIATE AUTHORITIES, PRIOR TO COMMENCING WORKS.
- THE CONTRACTOR SHALL ALLOW FOR ALL TRAFFIC MANAGEMENT IN CONNECTION WITH ROAD AND SEWER WORKS.
- THE CONTRACTOR IS RESPONSIBLE FOR ALL TEMPORARY WORKS AND CONSTRUCTION PROCEDURES.
- EXTENTS OF ATTENUATION TANK TO BE REFINED TO SUIT LANDSCAPE LAYOUT. PRODUCT SECTION WILL INFLUENCE THE FLEXIBILITY OF THE ARRANGEMENT.
- ALL MANHOLE SIZES ARE 1200Ø UNLESS INDICATED OTHERWISE.

CAPPED OFF DRAINAGE
CONNECTION FOR FUTURE USE

CAPPED OFF DRAINAGE
CONNECTION FOR FUTURE USE

SWPI
CL 51.27
IL 49.16

SPEL BYPASS SEPERATOR
MODEL 204 C1/SC 200 SERIES,
CLASS 1 TO BS EN 858-1.

ECOBLOC MAXX OR SIMILAR APPROVED GEOCELLULAR
ATTENUATION TANK. CELL BLOCK 0.8mx0.8mx0.35m,
TOTAL STORAGE VOLUME 107.85m³ (1.05m HIGH).

IT IS PROPOSED THAT THIS MANHOLE IS TO HAVE A RECESSED
COVER THAT WILL MATCH THE SURROUNDING FINISHES.

MAX FLOW RATE: 5 l/s
DESIGN HEAD: 1.65m
DIAMETER: 1900Ø
REF: MD-SHE-0096-5000-1650-5000

PROPOSED COMBINED MANHOLE
PRIOR TO DISCHARGE TO REDUCE
WORK REQUIRED IN THE HIGHWAY.

P05	24.03.23	FOUL WATER REVIEWED	M.M	P.V	R.B
P04	14.03.23	MANHOLE REF REVIEWED	M.M	P.V	R.B
P03	09.03.23	MANHOLE COVERS ADDED	M.M	P.V	R.B
P02	24.02.23	DRAWING NO. UPDATED AS PER B&K REQUIREMENTS. DRAINAGE LAYOUT UPDATE.	M.M	P.V	R.B

P01	18.11.22	PRELIMINARY ISSUE	M.M	R.B	P.V
REV	DATE	DESCRIPTION	DRN	CHK	APR

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CLIENT
BOWMER & KIRKLAND

PROJECT NAME
ANCOATS MOBILITY HUB

DRAWING TITLE
**DRAINAGE LAYOUT - GROUND
FLOOR AND EXTERNAL**

DATE	SCALE	SHEET SIZE	REV
18.11.22	1:200	A1	P05

DRAWING STATUS
S2 - ISSUED FOR INFORMATION

DRAWING NUMBER
45306 - KRD - XX - EX - DR - C - 5201