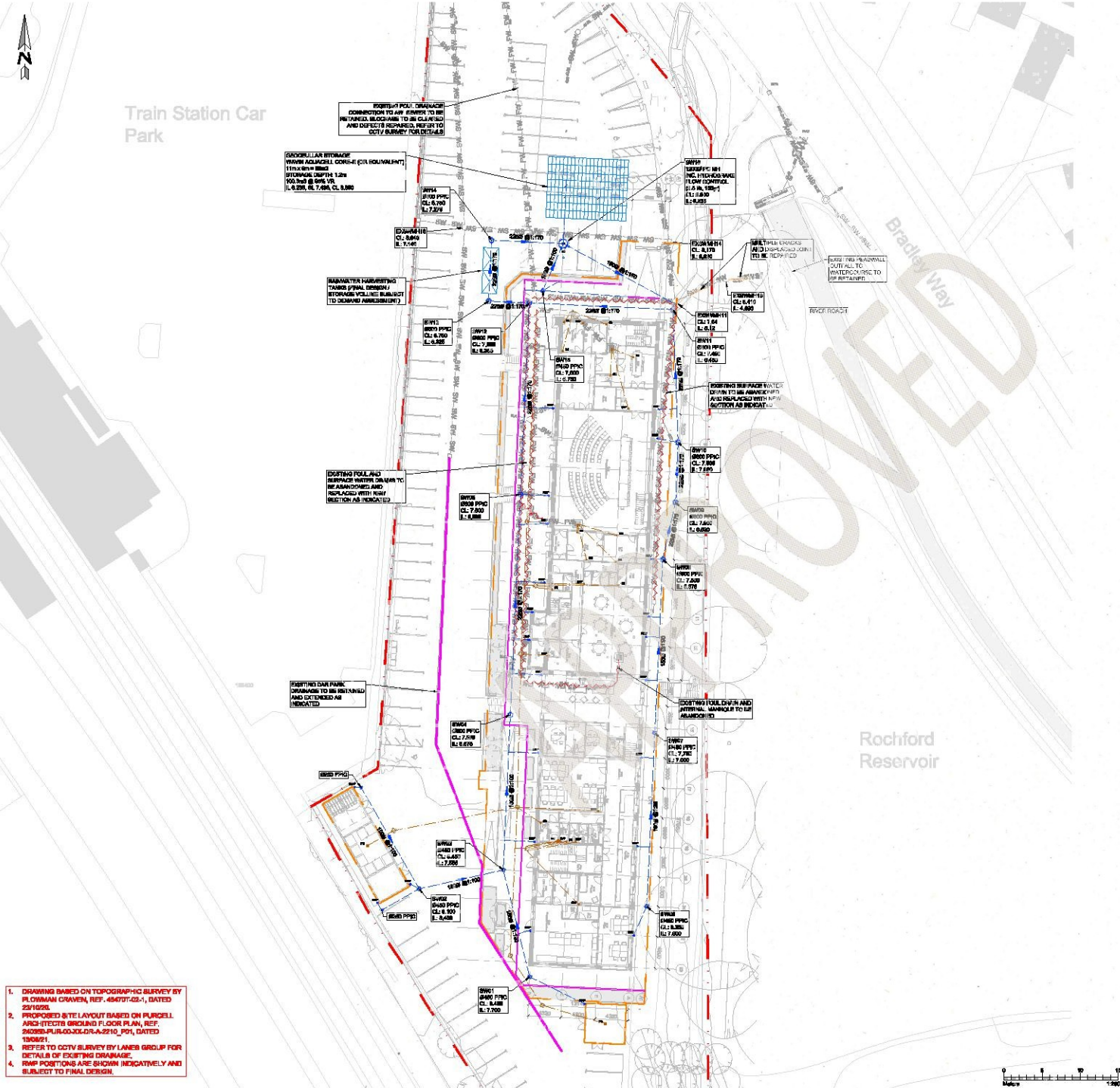




- LEGEND**
- SITE BOUNDARY
 - DRAINAGE CATCHMENT AREA
 - EXISTING Foul DRAIN / SEWER
 - EXISTING SURFACE WATER SEWER / DRAIN
 - EXISTING DRAIN TO BE ABANDONED
 - Foul DRAIN
 - PRIVATE Foul MANHOLE / INSPECTION CHAMBER
 - SOIL VENT PIPE / STUB STACK
 - SURFACE WATER DRAIN
 - SURFACE WATER MANHOLE / INSPECTION CHAMBER
 - HYDROPAQUE FLOW CONTROL
 - RAINWATER PIPE
 - LINEAR DRAINAGE CHANNEL
 - EXISTING DISHED CHANNEL TO BE RETAINED AND EXTENDED
 - GEOCELLULAR STORAGE (AQUACELL CORE-R OR EQUIVALENT)
 - RAINWATER HARVESTING STORAGE TANK

- NOTES**
- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTS, ENGINEERS AND SPECIALIST DRAWINGS AND SPECIFICATIONS.
 - DO NOT SCALE FROM THIS DRAWING IN EITHER PAPER OR DIGITAL FORM. USE MEASURED DIMENSIONS ONLY.
 - INVERT LEVELS AND POSITIONS OF EXISTING DRAINS / CHAMBERS / SEWERS WHERE NEW CONNECTIONS ARE TO BE MADE MUST BE CHECKED AND CONFIRMED TO THE ENGINEER PRIOR TO THE COMMENCEMENT OF ANY WORKS.
 - ALL DRAINAGE SHALL COMPLY WITH THE TYPE AND DETAILS AND THE REQUIREMENTS OF BS EN 752 AND PART 1 OF THE BUILDING REGULATIONS.
 - ANY PART OF THE EXISTING DRAINAGE SYSTEM TO BE RETAINED AS PART OF THE NEW SCHEME SHALL BE CLEANED AND INSPECTED. ANY STRUCTURAL DEFECTS SHALL BE REPAIRED USING APPROPRIATE AND APPROVED MEANS.
 - FOR SETTING-OUT DIMENSIONS OF SPPS, RWP'S ETC. REFER TO ARCHITECTS OR MECHANICAL ENGINEERS DRAWINGS. POSITIONS SHOWN ARE INDICATIVE AND SUBJECT TO FINAL DESIGN.
 - ALL Foul AND RWP CONNECTIONS SHALL BE 100MM DIAMETER UNLESS OTHERWISE SPECIFIED.
 - ALL PRECAST CONCRETE UNITS USED IN THE DRAINAGE WORKS SHALL BE MANUFACTURED USING SURFITE RE-SITTING CEMENT.
 - MANHOLE COVERS AND FRAMES SHALL BE TO BS EN 124 AND SHALL BE K10 MARKED. COVERS AND FRAMES SHALL BE HEAVY DUTY D400 IN CARRIAGEWAYS AND VEHICULAR AREAS AND MEDIUM DUTY S135 IN FOOTWAYS AND SOFT LANDSCAPING. IN BLOCKED/CONCRETE PAVED AREAS COVERS SHALL BE RECESSED FORKATED STEEL. ALL RECESSED COVERS SHALL BE IN ACCORDANCE WITH THE FACTA ASSOCIATION GRADINGS.
 - COVER LEVELS ARE TO BE ADJUSTED LOGICALLY TO SUIT FINISHED GROUND LEVELS.
 - AT LEAST ONE SOIL PIPE AT THE HEAD OF EACH Foul RUN SHALL VENT TO THE ATMOSPHERE.
 - EXISTING DRAINAGE TO BE REMOVED IS TO BE BROKEN OUT TO BED LEVEL AND VOID BACKFILLED WITH GRANULAR MATERIAL, COMPACTED IN LAYERS NOT EXCEEDING 250MM.
 - ALL DRAIN RUNS FROM SPPS, STUB STACKS OR FW GULLIES TO BE LAID AT 1% GRADIENT UNLESS OTHERWISE STATED. ALL RWP'S TO BE LAID 1.80 MIN UNLESS OTHERWISE STATED.
 - ALL PRIVATE DRAINAGE TO BE LAID TO LEVELS SHOWN USING FLUSHLY JOINTED PIPES, EITHER UPVC TO BS 4880 AND BS 5491 OR VITRIFIED CLAYWARE TO BS EN 286.
 - ALL PROPOSED TRENCHES TO HAVE APPROPRIATE TREE BARRIER DETAILS LINKING PTB TO ENSURE ROOTS ARE DIRECTED AWAY FROM DRAINAGE.
 - WHERE NEW SEWERS ARE CONSTRUCTED WITHIN 5M OF A NEW OR EXISTING TREE, THE SEWER SHALL BE CONCRETE ENCASED AGAINST ROOT INTRUSION. REFER TO DRAINAGE DETAILS.
 - ALL NEW DRAINAGE TO BE JETTED AND CCTV SURVEYED ON COMPLETION. CONTRACTOR TO MAKE SURE THAT THE DRAINAGE IS FULLY OPERATIONAL. REFER TO DRAINAGE MAINTENANCE MANUAL FOR MAINTENANCE DETAILS.

- DRAWING BASED ON TOPOGRAPHIC SURVEY BY P. O'DRISCOLL, REF. 456701-02-1, DATED 25/10/2021.
- PROPOSED SITE LAYOUT BASED ON PURCELL AND TROTTER GROUND FLOOR PLAN, REF. 240355-PURCELL-02-DR-A-2510_P01, DATED 13/08/21.
- REFER TO CCTV SURVEY BY LANES GROUP FOR DETAILS OF EXISTING DRAINAGE.
- RWP POSITIONS ARE SHOWN INDICATIVELY AND SUBJECT TO FINAL DESIGN.

Design Notes

Total Application Site Area	0.285 m ²
Drainage Catchment Area	2.216 m ²
Drainage Catchment Impermeable Area	2.216 m ²
Existing Peak rate Surface Water runoff from impermeable Areas (1yr)	13.4 l/s
Proposed Discharge Rate (1yr)	1.2 l/s
Proposed Discharge Rate (50yr)	1.8 l/s
Proposed Discharge Rate (100yr + 40% CC)	2.4 l/s

Attenuation Notes

Geocellular Attenuation Tank	Length = 11m Width = 8m Depth = 1.2m Total = 108.0m ³ @ 88% Void Ratio
TOTAL	108.0m³

NOT FOR CONSTRUCTION

P2	23.08.21	ISSUED FOR PLANNING	DR	AM
P1	21.06.21	ISSUED FOR INFORMATION	DR	AM
Rev	Date	Description	Drawn	Check

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Drainage Scheme	PRELIMINARY
Project	Freight House ROCHFORD
Date	FEB 2021
Scale	1:250 @ A1
Drawn	SR
Engineer	AM
Project No	210062
Drawing No	210062-CON-X-00-DR-C-1000
Revision	P02