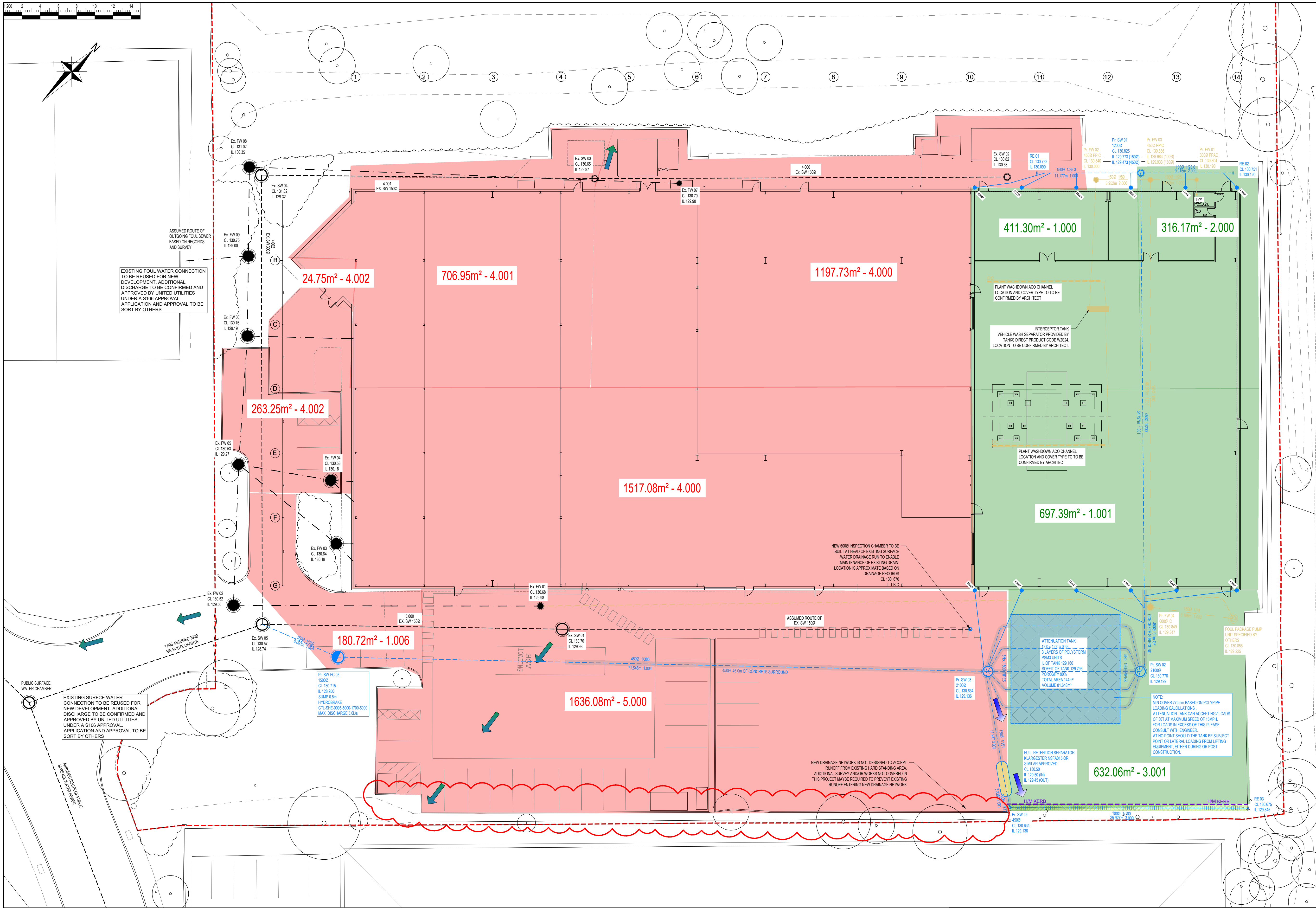




THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER HBL DRAWINGS ISSUED FOR THIS PROJECT

PRIVATE DRAINAGE NOTES

- ALL DIMENSIONS ARE IN MILLIMETRES AND LEVELS IN METERS UNLESS OTHERWISE SPECIFIED
- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER RELATED DRAWINGS AND SPECIFICATIONS
- THE DRAINAGE CONTRACTOR IS RESPONSIBLE TO MAKING AN APPLICATION TO ANY SEWERAGE UNDERTAKER PRIOR TO CONSTRUCTION OF ANY CONNECTION INTO A PUBLIC MAIN
- THE ENGINEER IS TO BE NOTIFIED OF ANY DISCREPANCIES TO THE DETAILS SHOWN ON THE DRAWING AND ANY UNRECORDED CONNECTIONS NOT SHOWN ON THE DRAWINGS
- THE CONTRACTOR IS RESPONSIBLE FOR CHECKING DIMENSIONS AND LEVELS AND FOR CONFIRMING THE GIVEN LEVEL OF OUTFALL INTO PUBLIC SEWER, WATERCOURSE OR OTHER OUTFALL PRIOR TO CONSTRUCTION WORKS COMMENCING
- UNTIL TECHNICAL APPROVAL HAS BEEN OBTAINED FROM THE RELEVANT AUTHORITIES ALL DRAWINGS ISSUED ARE AS PRELIMINARY AND NOT FOR CONSTRUCTION. SHOULD THE CONTRACTOR COMMENCE SITE WORK PRIOR TO APPROVAL BEING GIVEN, IT IS ENTIRELY AT THEIR OWN RISK
- TO PROTECT THE DRAINAGE SYSTEM FROM CONSTRUCTION SITE DERIBES, THE CONTRACTOR SHALL ENSURE THAT STOPPERS ARE SECURELY PLACED IN ALL CONNECTIONS IMMEDIATELY UPSTREAM OF THE TANK. ONLY TO BE REMOVED ONCE THE FINAL CLEANING OF THE ROADS DRAINAGE HAS BEEN COMPLETED
- THE DESIGN IS BASED ON THE INFORMATION AVAILABLE ON THE DATE OF ISSUE FROM OTHER PARTIES (E.G. ARCHITECT AND M&E ENGINEER). IT IS SUBJECT TO CHANGE RESULTING FROM UPDATES TO THE AVAILABLE INFORMATION FROM OTHERS
- NEW DRAINS AND SEWERS TO BE AS FOLLOWS
- CONSTRUCTION AND MATERIALS OF PRIVATE SURFACE FOUL & COMBINED WATER SEWERAGE SYSTEM TO BE IN ACCORDANCE WITH 'BUILDING REGULATIONS - APPROVED DOCUMENT H' & 'S' EN 752:2017 DRAIN AND SEWER SYSTEMS OUTSIDE BUILDINGS
- CONSTRUCTION AND MATERIALS OF PUBLIC SURFACE FOUL & COMBINED WATER SEWERS TO BE IN ACCORDANCE WITH 'DESIGN & CONSTRUCTION GUIDANCE, SEWERAGE SECTOR GUIDANCE APPENDIX C' AND IN ACCORDANCE WITH LOCAL SEWERAGE UNDERTAKER
- MINIMUM PIPE SIZE FOR ADAPTABLE SURFACE WATER DRAINAGE IS 150mmDN
- 100mmDN AT MIN 1:100 FOR 10 DWELLINGS OR LESS
- 150mmDN AT MIN 1:100 FOR GREATER THAN 10 DWELLINGS
- MINIMUM PIPE SIZE FOR ADAPTABLE FOUL WATER DRAINAGE IS 100mmDN
- 100mmDN AT 40 WHERE 10 DWELLINGS OR LESS AND NO WC
- 100mmDN 1:80 WHERE GREATER THAN 10 DWELLINGS AND AT LEAST 1 WC
- ALL ROAD GULLY PREWORK SPURS TO BE 150mmDN UNLESS OTHERWISE SPECIFIED
- LOAD CLASS SELECTION TO COMPLY WITH BS EN 124
- LOAD CLASS A15 - AREAS INACCESSIBLE TO MOTOR VEHICLES
- LOAD CLASS B125 - FOOTWAYS, PEDESTRIAN AREAS ETC
- LOAD CLASS D250 - GULLY TOPS IN KERBSIDE CHANNELS OF ROADS
- LOAD CLASS D400 - CARRIAGEWAYS OF ROADS (HEAVY DUTY)
- LOAD CLASS E600 - AREAS IMPOSING HIGH WHEEL LOADS
- LOAD CLASS F900 - AREAS IMPOSING PARTICULARLY HIGH WHEEL LOADS
- ALL FOUL DRAINAGE BENEATH BUILDINGS AND FROM SOL VENT PIPES, GULLIES AND WC CONNECTIONS BE 100mmDN AT A GRADIENT NOT LESS THAN OF 1:40
- ALL FOUL CONNECTIONS TO BE FULLY TRAPPED AND EACH FUL CONNECTION TO A BRANCH DRAIN TO HAVE FULL ROODING ACCESS (E.G. LOW LEVEL ROODING ACCESS)
- RAINWATER DOWN PIPES ARE TO CONNECT TO A DRAIN VIA A REST BEND
- WHERE DRAINAGE IS COMBINED A P TRAP MUST BE PROVIDED ABOVE PROPOSED FLOOR FINISH LEVEL
- MINIMUM DEPTH OF COVER TO THE CROWN OF GRAVITY PIPES WITHOUT PROTECTION SHOULD BE AS FOLLOWS (IN ACCORDANCE WITH 'DESIGN & CONSTRUCTION GUIDANCE, SEWERAGE SECTOR GUIDANCE APPENDIX C')
- 35mm - DOMESTIC GARDENS AND PATHWAYS WITHOUT ANY POSSIBILITY OF VEHICULAR ACCESS
- 60mm - DOMESTIC DRIVEWAYS, PARKING AREAS AND YARDS WITH HEIGHT RESTRICTIONS TO PREVENT ENTRY BY VEHICLES WITH A GROSS WEIGHT IN EXCESS OF 7.5 TONNES
- 90mm - DOMESTIC DRIVEWAYS, PARKING AREAS AND NARROW STREETS WITH LIMITED ACCESS FOR VEHICLES WITH A GROSS WEIGHT IN EXCESS OF 7.5 TONNES
- 120mm - HIGHWAYS AND PARKING AREAS WITH UNRESTRICTED ACCESS TO VEHICLE WITH A GROSS WEIGHT IN EXCESS OF 7.5 TONNES
- BACKFILL TO DRAINAGE TRENCHES UNDER CARRIAGEWAYS TO BE TYPE 1 SUB-BASE MATERIAL ELSEWHERE BACKFILL TO BE FREE DRAINING READILY AVAILABLE COMPACTABLE MATERIAL FREE FROM RUBBISH, ORGANIC MATTER, FROZEN SOIL, CLAY LUMPS AND LARGE STONES TO BE COMPACTED IN LAYERS NOT EXCEEDING 250mm THICK
- A FLEXIBLE JOINT SHALL BE PROVIDED AS CLOSE AS IS FEASIBLE TO THE OUTSIDE FACE OF ANY STRUCTURE INTO WHICH A PIPE IS BUILT, COMPATIBLE WITH THE SATISFACTORY COMPLETION AND SUBSEQUENT MOVEMENTS OF THE JOINT. LENGTH OF THE NEXT PIPE (ROCKER PIPE) IS TO BE IN ACCORDANCE WITH THE TABLE BELOW
- 150-600mmDN - 600mm LONG ROCKER PIPE
- 601-750mmDN - 1000mm LONG ROCKER PIPE
- 751mmDN AND ABOVE - 125mm LONG ROCKER PIPE
- PIPE CROSSOVERS TO HAVE MINIMUM OF 300mm CLEARANCE BETWEEN OUTSIDE TOP OF THE LOWER PIPE AND OUTSIDE BOTTOM OF THE UPPER PIPE. WHERE THIS CANNOT BE ACHIEVED A SEPARATION CONCRETE SURROUND IS TO BE FORMED WHICH WILL EXTEND NOT LESS THE 1000mm EACH SIDE OF THE CROSSING POINT. THE EXTENT OF THE CONCRETE SHOULD BE WITHIN 150mm OF A FLEXIBLE PIPE JOINT. THE CONCRETE SPECIFICATION SHOULD BE IN ACCORDANCE WITH THE STANDARD DETAILS FOR PIPE BED AND SURROUND AS ISSUED BY THE ENGINEER
- CONCRETE MIXES INDICATED ON THIS DRAWING ARE DESIGNATED MIXES CONFORMING TO BS 8800:2008. ALL CONCRETE TO BE SULPHATE RESISTANT. CONTRACTOR SHOULD ALLOWANCE FOR CARRYING OUT TESTING ON SITE TO CONFIRM SULPHATE LEVEL CLASSIFICATION
- ALL PRIVATE MANHOLES AND INSPECTION CHAMBERS TO BE CONSTRUCTED IN ACCORDANCE WITH 'BUILDING REGULATIONS - APPROVED DOCUMENT H' & 'S' EN 752:2017 DRAIN AND SEWER SYSTEMS OUTSIDE BUILDINGS
- ALL MANHOLES AND INSPECTION CHAMBERS TO BE ADOPTED TO BE CONSTRUCTED IN ACCORDANCE WITH 'IN ACCORDANCE WITH 'DESIGN & CONSTRUCTION GUIDANCE, SEWERAGE SECTOR GUIDANCE APPENDIX C' AND IN ACCORDANCE WITH LOCAL SEWERAGE UNDERTAKER
- CCTV SURVEY ALL THE DRAINAGE SHOULD BE CARRIED OUT ON COMPLETION OF THE BUILDING WORKS AND PASSED ON TO THE CLIENT
- ANY EXISTING DRAINAGE INFRASTRUCTURE TO BE RETAINED TO HAVE NEW COVERS AND FRAMES TO SUIT NEW LEVELS AND SURFACING
- WHERE DRAINAGE RUNS PASS BELOW FOUNDATIONS, PIPES TO BE ENCASED IN MIN 100mm CONCRETE SURROUND AND SURROUND WRAPPED IN 50mm COMPRESSIBLE MATERIAL (TOP & SIDES) PIPE ELEVATED THROUGH FOUNDATIONS AND FITTED WITH ROCKER PIPE FOUNDATIONS ADJACENT TO DRAIN RUN TO BE DEEPEMED LOCALLY TO INVERT OF DRAINAGE PIPE TO AVOID SURCHARGE LOADING
- WHERE DRAINAGE RUNS PASS ABOVE FOUNDATIONS, PROVIDE 65mm DEEP PRE-STRESSED CONCRETE LINTELS E.G. 'NAYLOR Ref. P100

TENDER

FOR TENDER PURPOSES ONLY

REV.	DATE	DRAWN	DESCRIPTION	CHKD	APPRO	STATUS
P01	30.04.26	ALB	FIRST ISSUE - FOR INFORMATION	MS	MS	
STATUS DESCRIPTION						S2

FOR INFORMATION

Craig House,
33 Galloway Avenue,
Manchester M20 3JG
+44(0)161 432 9877 | www.hbl.co.uk
Consulting Civil & Structural Engineers

PROJECT

FOTHERGILL EXTENSION

DRAWING TITLE

DRAINAGE CATCHMENT AREAS

CLIENT

FOTHERGILL COATED FABRICS LIMITED

HBL REF. 11122 DATE 30.04.26 AT SCALE(S) 1:200

DRAWING No. 11122-HBL-XX-XX-DR-C-5210 REVISION P01

ANY WORKS UNDERTAKEN PRIOR TO RECEIPT OF TECHNICAL APPROVAL FOR THEIR RESPECTIVE PROPOSALS IS DONE AT THE CONTRACTOR'S OWN RISK.

PRELIMINARY SCHEME - FOR COMMENT AND REVIEW ONLY
DESIGN IS BASED UPON INITIAL P.G CONSULTING DRAINAGE STRATEGY AND OTHER INFORMATION AVAILABLE AT THE TIME. DESIGN IS SUBJECT TO FULL REVIEW AS ADDITIONAL INFORMATION BECOMES AVAILABLE.
DESIGN IS SUBJECT TO FULL REVIEW UPON RECEIPT OF COMMENTS FROM
• DEVELOPMENT CONTROL
• LA PLANNING AUTHORITY
• LLFA
• SEWERAGE UNDERTAKER

KEY:

- SITE BOUNDARY - 10.790m²
- EXISTING ROOF AREAS - 3447m²
- EXISTING HARD STANDING AREA - 2080m²
- TOTAL EXISTING AREA - 5527m²
- PROPOSED ROOF AREAS - 1425m²
- PROPOSED HARD STANDING AREA - 632m²
- TOTAL PROPOSED AREA - 2057m²

- Ex PW - EXISTING FOUL WATER ACCESS CHAMBER
- Ex SW - EXISTING SURFACE WATER ACCESS CHAMBER
- Pr SW - PROPOSED SURFACE WATER
- Pr SW-FC - PROPOSED FLOW CONTROL CHAMBER
- Pr FW - PROPOSED FOUL WATER
- Pr FW-P - PROPOSED FOUL WATER PUMPING STATION
- Pr FW-RM - PROPOSED FOUL WATER RISING MAIN