CAR PARK SITE - FINALISING BACKFILLING OF
ATTENUATION TANK - 23.08.21
23 08 2021

23 08 2021

23 08 2021

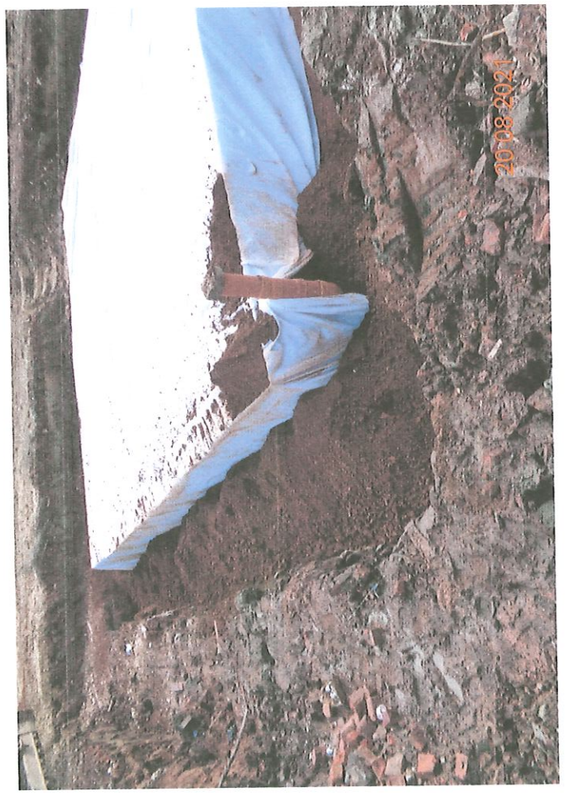
23 08 2021

23 08 2021

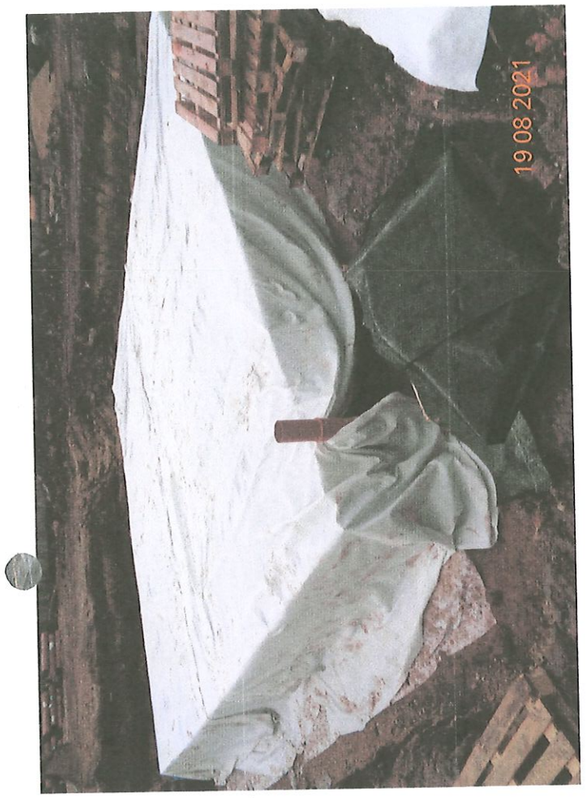
23 08 2021

23 08 2021

Car Park Site - Backfilling Attenuation Tank - (20.08.21)

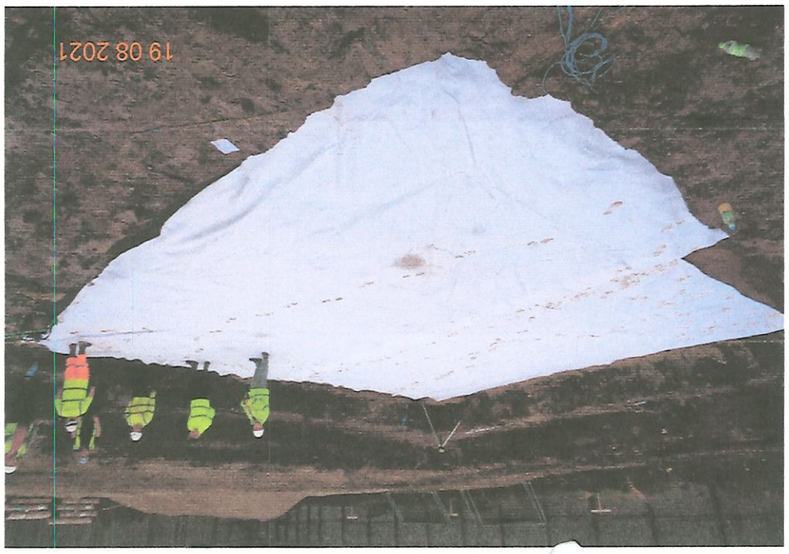


CAR PARK SITE: ATTENUATION TANK INSTALLED - 19.08.21



19 08 2021

19 08 2021


19 08 2021

19 08 2021

CAR PARK SITE - ATTENUATION TANK - 18.08.21 (EXCAVATION + PREP FOR TANK INSTALLATION)

18 08 2021

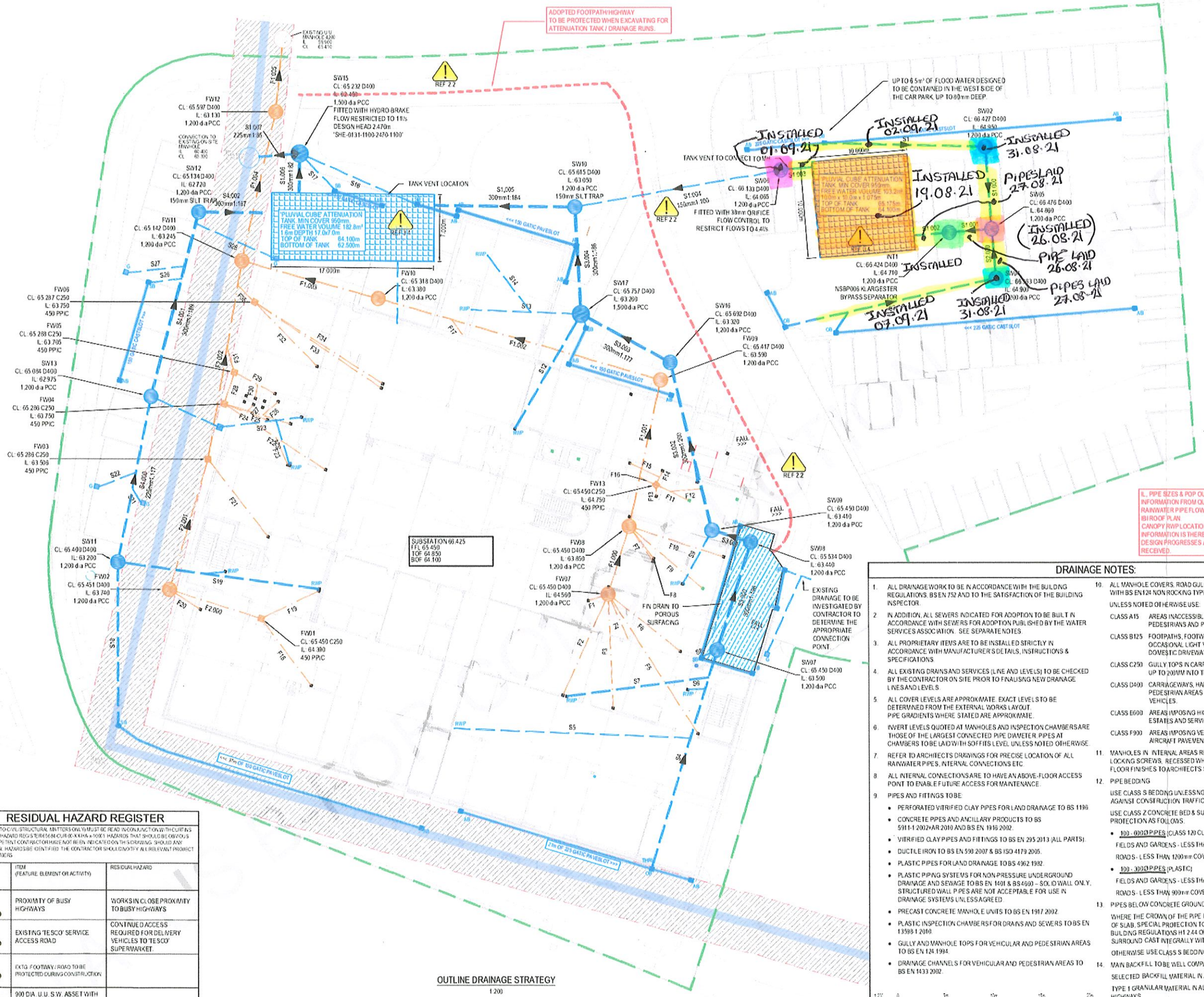
18 08 2021

17 08 2021

18 08 2021

CAR PARK SITE - START EXCAVATION OF ATTENUATION TANK

16.08.21



OUTLINE DRAINAGE STRATEGY

1:200

RESIDUAL HAZARD REGISTER

(RELATES TO CIVIL/STRUCTURAL MATTERS ONLY) MUST BE READ IN CONJUNCTION WITH CURTINS RESIDUAL HAZARD REGISTER 6564-CUR-00-XX-RA-X-10001. HAZARDS THAT SHOULD BE OBVIOUS TO A COMPETENT CONTRACTOR HAVE NOT BEEN INDICATED ON THIS DRAWING. SHOULD ANY ADDITIONAL HAZARDS BE IDENTIFIED THE CONTRACTOR SHOULD NOTIFY ALL RELEVANT PROJECT TEAM MEMBERS

HAZARD REF No	ITEM (FEATURE, ELEMENT OR ACTIVITY)	RESIDUAL HAZARD
REF 1.1	PROXIMITY OF BUSY HIGHWAYS	WORKS IN CLOSE PROXIMITY TO BUSY HIGHWAYS
REF 1.2	EXISTING 'TESCO' SERVICE ACCESS ROAD	CONTINUED ACCESS REQUIRED FOR DELIVERY VEHICLES TO 'TESCO' SUPERMARKET.
REF 2.2	EXTG. FOOTWAY / ROAD TO BE PROTECTED DURING CONSTRUCTION	
REF 3.1	900 DIA. U.U. S.W. ASSET WITH 6m EASEMENT	
REF 3.4	BURIED SURFACE WATER ATTENUATION TANKS	FUTURE USERS TO ENSURE MAXIMUM DESIGN LOAD OF 60T GVW, 10T POINT LOAD, IS NOT EXCEEDED

DRAINAGE NOTES:

1. ALL DRAINAGE WORK TO BE IN ACCORDANCE WITH THE BUILDING REGULATIONS, BS EN 752 AND TO THE SATISFACTION OF THE BUILDING INSPECTOR.
2. IN ADDITION, ALL SEWERS INDICATED FOR ADOPTION TO BE BUILT IN ACCORDANCE WITH SEWERS FOR ADOPTION PUBLISHED BY THE WATER SERVICES ASSOCIATION. SEE SEPARATE NOTES.
3. ALL PROPRIETARY ITEMS ARE TO BE INSTALLED STRICTLY IN ACCORDANCE WITH MANUFACTURER'S DETAILS, INSTRUCTIONS & SPECIFICATIONS.
4. ALL EXISTING DRAINS AND SERVICES (LINE AND LEVELS) TO BE CHECKED BY THE CONTRACTOR ON SITE PRIOR TO FINALISING NEW DRAINAGE LINES AND LEVELS.
5. ALL COVER LEVELS ARE APPROXIMATE. EXACT LEVELS TO BE DETERMINED FROM THE EXTERNAL WORKS LAYOUT. PIPE GRADIENTS WHERE STATED ARE APPROXIMATE.
6. INVERT LEVELS QUOTED AT MANHOLES AND INSPECTION CHAMBERS ARE THOSE OF THE LARGEST CONNECTED PIPE DIAMETER. PIPES AT CHAMBERS TO BE LAID WITH SOFFITS LEVEL UNLESS NOTED OTHERWISE
7. REFER TO ARCHITECTS DRAWINGS FOR PRECISE LOCATION OF ALL RAINWATER PIPES, INTERNAL CONNECTIONS ETC.
8. ALL INTERNAL CONNECTIONS ARE TO HAVE AN ABOVE-FLOOR ACCESS POINT TO ENABLE FUTURE ACCESS FOR MAINTENANCE.
9. PIPES AND FITTINGS TO BE:
   - PERFORATED VITRIFIED CLAY PIPES FOR LAND DRAINAGE TO BS 1196
   - CONCRETE PIPES AND ANCILLARY PRODUCTS TO BS 5911-1:2002+A2:2010 AND BS EN 1916:2002.
   - VITRIFIED CLAY PIPES AND FITTINGS TO BS EN 295:2013 (ALL PARTS).
   - DUCTILE IRON TO BS EN 598:2007 & BS ISO 4179:2005.
   - PLASTIC PIPES FOR LAND DRAINAGE TO BS 4962:1982.
   - PLASTIC PIPING SYSTEMS FOR NON-PRESSURE UNDERGROUND DRAINAGE AND SEWAGE TO BS EN 1401 & BS 4660 – SOLID WALL ONLY. STRUCTURED WALL PIPES ARE NOT ACCEPTABLE FOR USE IN DRAINAGE SYSTEMS UNLESS AGREED.
   - PRECAST CONCRETE MANHOLE UNITS TO BS EN 1917:2002.
   - PLASTIC INSPECTION CHAMBERS FOR DRAINS AND SEWERS TO BS EN 13598-1:2010.
   - GULLY AND MANHOLE TOPS FOR VEHICULAR AND PEDESTRIAN AREAS TO BS EN 124:1994.
   - DRAINAGE CHANNELS FOR VEHICULAR AND PEDESTRIAN AREAS TO BS EN 1433:2002.
10. ALL MANHOLE COVERS, ROAD GULLY COVERS AND FRAMES TO COMPLY WITH BS EN124 NON ROCKING TYPE.

    UNLESS NOTED OTHERWISE USE:

    CLASS A15 AREAS INACCESSIBLE TO VEHICLES, ACCESSED ONLY BY PEDESTRIANS AND PEDAL CYCLISTS.

    CLASS B125 FOOTPATHS, FOOTWAYS, PEDESTRIAN AREAS WITH ONLY OCCASIONAL LIGHT VEHICULAR ACCESS INCLUDING DOMESTIC DRIVEWAYS & SMALL CAR PARKS.

    CLASS C250 GULLY TOPS IN CARRIAGEWAY WITHIN 500MM OF KERB AND UP TO 200MM INTO THE FOOTWAY.

    CLASS D400 CARRIAGEWAYS, HARD SHOULDERS, PARKING AREAS AND PEDESTRIAN AREAS ACCESSED BY ALL TYPES OF VEHICLES.

    CLASS E600 AREAS IMPOSING HIGH WHEEL LOADS SUCH AS INDUSTRIAL ESTATES AND SERVICE YARDS.

    CLASS F900 AREAS IMPOSING VERY HIGH WHEEL LOADS SUCH AS AIRCRAFT PAVEMENTS, DOCKS, HEAVY INDUSTRIAL SITES.
11. MANHOLES IN INTERNAL AREAS REQUIRE DOUBLE SEALED COVERS WITH LOCKING SCREWS. RECESSED WHERE REQUIRED TO ACCOMMODATE FLOOR FINISHES TO ARCHITECTS SPECIFICATION.
12. PIPE BEDDING

    USE CLASS S BEDDING UNLESS NOTED OTHERWISE. NB PROTECT AGAINST CONSTRUCTION TRAFFIC AS NECESSARY

    USE CLASS Z CONCRETE BED & SURROUND OR CONCRETE SLAB PROTECTION AS FOLLOWS:
    - 100 - 300ØD PIPES (CLASS 120 CLAYWARE OR CLASS M CONCRETE)

      FIELDS AND GARDENS - LESS THAN 600mm COVER TO CROWN.

      ROADS - LESS THAN 1200mm COVER TO CROWN.
    - 100 - 300ØD PIPES (PLASTIC)

      FIELDS AND GARDENS - LESS THAN 600mm COVER TO CROWN.

      ROADS - LESS THAN 900mm COVER TO CROWN.
13. PIPES BELOW CONCRETE GROUND FLOOR SLABS

    WHERE THE CROWN OF THE PIPE IS WITHIN 300mm OF THE UNDERSIDE OF SLAB, SPECIAL PROTECTION TO BE PROVIDED IN ACCORDANCE WITH BUILDING REGULATIONS H1 2.44 OR 150mm GEN3 CONCRETE BED AND SURROUND CAST INTEGRALLY WITH SLAB

    OTHERWISE USE CLASS S BEDDING
14. MAIN BACKFILL TO BE WELL COMPACTED IN 150mm LAYERS OF:

    SELECTED BACKFILL MATERIAL IN ALL SOFT LANDSCAPED AREAS

    TYPE 1 GRANULAR MATERIAL IN ALL HARDSTANDING AREAS & PUBLIC HIGHWAYS
15. BACKFILL TO DRAINS NEAR FOUNDATIONS IS TO BE IN ACCORDANCE WITH BUILDING REGULATIONS H1 DIAGRAMS 8 & 12

1:200 0 5m 10m 15m 20m

1:1 0 10 20 30 40 50 60 70 80 90 100

SCALE 1:200

IL, PIPE SIZES & POP OUT LOCATIONS ARE BASED ON STAGE 4 INFORMATION FROM QUARTZELEC AND IBI.
RAINWATER PIPE FLOW RATES HAVE BEEN INFERRED FROM IBI ROOF PLAN.
CANOPY RWP LOCATIONS TO BE CONFIRMED BY ARCHITECT. INFORMATION IS THEREFORE SUBJECT TO CHANGE AS THE DESIGN PROGRESSES AND FURTHER INFORMATION IS RECEIVED.

GENERAL NOTES:

1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTS AND ENGINEERS DRAWINGS AND SPECIFICATIONS.
2. DO NOT SCALE THIS DRAWING. ANY AMBIGUITIES, OMISSIONS AND ERRORS ON DRAWINGS SHALL BE BROUGHT TO THE ENGINEERS ATTENTION IMMEDIATELY. ALL DIMENSIONS MUST BE CHECKED / VERIFIED ON SITE.
3. ALL DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE.

REFERENCE DRAWINGS:

TOPOGRAPHICAL SURVEY
1. SURVEY & ENGINEERING PROJECTS LTD 'UTILITY SURVEY OF LAND AT: GORTON COMMUNITY HUB, GARRETT WAY, MANCHESTER, M18 8LD. DRAWING REFERENCE S17260-T
2. UNITED UTILITIES PUBLIC SEWER RECORDS (03/01/2019).
3. ARCHITECT'S LAYOUT DRAWINGS INDICATING SANITARY LOCATIONS & DRAINAGE LOCATIONS (22/03/2019).

LEGEND:

- EXISTING PRIVATE FOUL WATER DRAIN
- EXISTING PRIVATE SURFACE WATER DRAIN
- EXISTING (PRIVATE) FOUL WATER DRAIN TO BE ABANDONED
- EXISTING (PRIVATE) SURFACE WATER DRAIN TO BE ABANDONED
- FOUL WATER DRAINAGE
- FW INSPECTION CHAMBER
- SP/SG SOIL PIPE/SHOWER GULLY
- SURFACE WATER DRAINAGE
- LINEAR DRAINAGE CHANNEL AB = ACCESS BOX OB = OUTLET BOX SB = SUMP BOX
- G ROAD GULLY
- PROPOSED FLOW CONTROL
- SITE BOUNDARY
- EXISTING 6m EASEMENT FOR UNITED UTILITIES APPARATUS
- PERMEABLE PAVING EXTENTS
- GEO CELLULAR STORAGE TANK

ASBUILT RECORDS

Rev	Description	Date	By	Chkd
C02	ALTERED TANK 02 AND FLOW CONTROL RATES	15/07/21	AWB	PT
C01	CHANGES TO SUIT MS COMMENTS OF 18/06/21, UPDATED ARCH DESIGN. AMENDED WEST TANK TO ALLOW 1:3 BATTER TO EXCAVATION. CONVERTED TO CIVIL 3D MODEL.	14/07/21	AWB	PT

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Status: B5

Client: MORGAN SINDALL

Project: MCC GORTON COMMUNITY HUB

Drg Title: PROPOSED DRAINAGE LAYOUT

Project No	Size	Date	Drawn By	Designed By	Checked By
062407	A1	AUG 2019	SBB	SBB	AJR
	Scale 1:200				

Project Code	Originator	Zone	Level	Type	Discipline	Category / Number	Rev.
GCH	CUR	XX	XX	DR	C	92002	C02

GCH-CUR-XX-XX-DR-C-92002-C01-Proposed Drainage Layout.dwg