



KEY:

- SITE BOUNDARY.
- EXISTING COMBINED WATER SEWER.
- EXISTING SURFACE WATER SEWER.
- EXISTING FOUL WATER SEWER.
- EXISTING SURFACE WATER SEWER, ASSUMED ROUTE (FROM CCTV SURVEY).
- EXISTING FOUL WATER SEWER, ASSUMED ROUTE (FROM CCTV SURVEY).
- PROPOSED COMBINED SEWER.
- PROPOSED SURFACE WATER SEWER.
- PROPOSED FOUL WATER SEWER.
- EXISTING SEWER TO BE REMOVED.
- EXISTING CW INSPECTION CHAMBER.
- PROPOSED MANHOLE/INSPECTION CHAMBER.
- PROPOSED SOIL VENT PIPE/STACK (INDICATIVE ONLY).
- PROPOSED CHANNEL DRAIN

ALLOWANCES TO BE MADE FOR COSTING:

- RWP CONNECTIONS TO BE RELAID/CONNECTED TO MAIN DRAINAGE SYSTEM.
- REMEDIAL WORKS AS PER DRAWING 231414-PEV-XX-XX-DR-C-0500.
- REMOVAL OF ALL EXISTING FOUL BRANCHES FROM EXISTING SOIL STACKS.
- RWP ALLOWANCES TO BE MADE IN AREAS WHERE EXISTING DRAINAGE INFORMATION IS MISSING.
- ILs OF EXISTING DRAINAGE IS UNKNOWN. CLs AND ILs NEED TO BE CONFIRMED PRIOR TO CONSTRUCTION. CONTRACTOR TO MAKE ALLOWANCE FOR CARRYING OUT ADDITIONAL SURVEYS ACROSS THE SITE TO CONFIRM THIS INFORMATION.
- SINCE ILs OF EXISTING DRAINAGE ARE UNKNOWN, THERE IS NOT ENOUGH INFORMATION TO DESIGN THE ILs OF THE PROPOSED DRAINAGE RUNS. CONTRACTOR TO MAKE AN ALLOWANCE TO ALL PROPOSED DRAINAGE RUNS TO BE AT LEAST 1m DEEP.



THE CCTV DRAINAGE SURVEY DID NOT IDENTIFY ANY EXISTING DRAINAGE IN THIS AREA. FURTHER SURVEY WORKS ARE REQUIRED TO IDENTIFY WHETHER ANY EXISTING DRAINAGE EXISTS AND ITS CONDITION FOR RE-USE. AS A WORST-CASE, A PROPOSED DRAINAGE ROUTE HAS BEEN SHOWN AND SHOULD BE COSTED FOR.

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NO DIMENSIONS TO BE SCALED FROM THIS DRAWING

CDM - RESIDUAL HAZARDS

1	Refer to Design Risk Assessment ???
2	???
3	???

Further possible control measures have been identified within the Design Risk Assessments which may help to mitigate these and other identified risks further during the construction / maintenance process.

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- NOTES:**
- ALL DRAINAGE WORKS TO BE CONSTRUCTED TO DESIGN AND CONSTRUCTION GUIDANCE FOR FOUL, SURFACE AND COMBINED WATER SEWERS, BUILDING REGULATIONS PART H AND PICK EVERARD DRAINAGE SPECIFICATION DETAILED ON ALL PROPOSED DRAWINGS.
 - CCTV DRAINAGE SURVEY WAS CARRIED OUT BY MALCOLM HUGHES LAND SURVEYORS ON 20.09.2023.
 - FOR PIPE BEDDING DETAILS REFER TO DRAWING 231414-PEV-XX-XX-DR-C-6500. MANUFACTURER OF PIPES TO PROVIDE PIPE STRUCTURAL CALCULATIONS TO BS EN 1295-1 AND BS 9295 TO ENGINEER FOR REVIEW TO ENSURE CORRECT BEDDING CLASS IS USED.
 - MANHOLE COVERS AND FRAMES WITHIN VEHICULAR LOADED AREAS TO BE D400 RATED AND C250 IN ALL OTHER AREAS TO BS EN 124:1994. ALL COVERS TO BE DUCTILE IRON.
 - ALL LATERAL CONNECTIONS TO BE CONNECTED SOFFIT TO SOFFIT, WITH THE EXCEPTION OF FLOW CONTROL MANHOLES.
 - DRAINAGE SYSTEM TO BE SUBJECT TO INSPECTION INTERIM AND FINAL TESTS IN ACCORDANCE WITH BS EN 752.
 - ALL PIPE GRADIENTS MEASURED FROM CENTRE OF MANHOLE.
 - PEAK DISCHARGE RATE FOR FOUL WATER IS TO BE 8.13 l/s. SUBJECT TO APPROVAL FROM WATER AUTHORITY.
 - SURFACE WATER TO BE DISCHARGED UNCONTROLLED AS PER EXISTING DRAINAGE, SUBJECT TO LLFA APPROVAL.
 - PRE-APPLICATION ADVICE FROM THE LLFA SUSPENDED AT THE TIME THIS DESIGN WAS CARRIED OUT.
 - ALL EXTERNAL AREAS TO REMAIN AS EXISTING, THEREFORE IT IS ASSUMED THAT NO PROPOSED GULLIES OR CHANNEL DRAINS ARE REQUIRED WITH THE EXCEPTION OF THE RAMPED ACCESS AT DOR-007 (TO BE ACO MULTIDRAIN M1000 OR SIMILAR).
 - DRAWING TO BE VIEWED IN CONJUNCTION WITH DRAWING 231414-PEV-XX-XX-DR-C-0500_EXISTING DRAINAGE REMEDIAL STRATEGY.
 - SOIL VENT PIPE LOCATIONS ARE APPROXIMATE ONLY. PLEASE REFER TO PUBLIC HEALTH ENGINEER DRAWINGS FOR FINAL LOCATIONS.
 - ALL PIPE CONNECTIONS FROM SVPs TO BE 100mm Ø UNLESS OTHERWISE STATED.
 - ALL 150mm Ø COMBINED DRAINAGE PIPES TO BE LAID AT A GRADIENT OF 1:135 OR STEEPER.
 - ALL 100mm Ø RWPs CONNECTIONS TO BE LAID AT 1:100 OR STEEPER.
 - ALL 100mm Ø FOUL CONNECTIONS TO BE LAID AT 1:80 WHERE SERVING AT LEAST 1 WC, 1:40 WHERE SERVING NO WCs.
 - PROPOSED DRAINAGE SUBJECT TO COORDINATION WITH EXISTING FOUNDATIONS AND UTILITIES.
 - PROPOSED DRAINAGE LEVELS SUBJECT TO TOPOGRAPHICAL SURVEY AND ADDITIONAL DRAINAGE SURVEY.

P02	Channel Drains added by DOR-007	28.11.2023	VSP	KIB
P01	First Issue	23.11.2023	VSP	KIB
Revision		Date	Dm	Chk

Client
Manchester City Council

Project
Dickenson Road Children's Home

Drawing Title
Proposed Drainage Strategy

Suitability Status
S2 - Suitable for Information

Job No.	Scale	Size	Rev
231414	1 : 150	@ A1	P02

Drawing Number
231414 - PEV - ZZ - ZZ - DR - C - 0501

Project Code - Originator - Zone - Level - Type - Role - Number

PICK EVERARD

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