

29/05/2024 15:25:01
RCA Document Reference: RCA A1 Landscape Version 1
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M:\RCA Job Files\21713 - New Child Care Unit, Waun Wen, Cwmbran, Neath Port Talbot SA12 9TB - TRAF - RCA Civil Drawings\2455-21713-RCA-01-ZZ-DR-C-02-A1-201.dwg

DO NOT SCALE

NOTES (CONTINUED)

PRIVATE DRAINAGE NOTES

ALL PIPEWORK SHALL BE uPVC COMPLYING WITH SEWERS FOR ADOPTION 7th EDITION, CESWI 6th EDITION AND ALL CURRENT RELEVANT BRITISH STANDARDS, BBA CERTIFICATES AND MANUFACTURERS RECOMMENDATIONS AND INSTALLED TO MEET THE SAME.

PROVIDE 150mm CONCRETE SURROUND WITH FLEXIBLE JOINTS WHERE SEWER PIPES HAVE LESS THAN 900mm COVER IN NON-ADOPTABLE TRAFFICKED AREAS. ALL OTHER DEPTH PIPELINES SHALL HAVE GRANULAR PIPE BED AND SURROUND AS DETAILS. IN NON-TRAFFICKED AREAS WHERE THERE IS NO RISK OF DAMAGE FROM GARDEN IMPLEMENTS (SURFACED PATHS) SHALL HAVE GRANULAR BED AND SURROUND AS DETAILS. WHERE THERE IS A RISK FROM GARDEN IMPLEMENT DAMAGE AND PIPELINE HAS LESS THAN 600mm COVER PROVIDE 50mm DP CONCRETE PAVING SLAB LAID ON 75mm GRANULAR PIPE BEDDING MATERIAL ABOVE CROWN OF PIPELINE.

ALL PRIVATE PATHS ASSUMED TO FALL ON TO SOFT LANDSCAPING AREAS.

ALL CONNECTIONS WITH ADOPTABLE FOUL WATER SEWERS SHALL BE CONNECTED SOFFIT TO SOFFIT.

ALL BRANCHES INTO BUILDINGS AND TO RAINWATER GULLIES SHALL BE 100mmØ UNO.

ALLOW FOR PRECAST CONCRETE LINTELS BY STRESSLINE OR SIMILAR OVER PIPELINES THROUGH WALLS AND PIPE JOINTS IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.

ACO - PROVIDE A15 LOADING GRADE THRESHOLD DRAINAGE AT ALL LEVEL THRESHOLD OPENINGS BY ACO ACO OR SIMILAR APPROVED INSTALLED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.

PG - INTERNAL PLANT ROOM GULLY (IF REQUIRED) WITH FOUL AIR TRAP INSTALLED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.

IMPORTANT - ALL FLOOR GULLIES SHALL BE RODDABLE AND ALL SOIL STACKS SHALL HAVE RODDING ACCESS FACILITY AT EACH FLOOR LEVEL FOR FUTURE MAINTENANCE.

MACADAM CAR PARKING AISLE LAID TO FALL TO DRAIN SURFACE WATER INTO PERMEABLE PARKING BAY AREAS - SUB BASE FORMED IN TYPE 3 GRADED CLEAN STONE TO CONVEY SURFACE WATER FLOWS INTO SOAKAWAY UNDER AISLE AS NOTES

CAR PARKING BAYS CONSTRUCTED IN PERMEABLE SURFACE ON GEOMEMBRANE

IL 38.60
IL 40.38 Blocked
IL 39.86
IL 39.87
IL 40.22
IL 40.05

FFL SET BY 1:2 BATTER DOWN OFF BACK OF FOOTPATH

BUILDING DOWNPIPES DRAINED VIA ACO CHANNEL INTO 200mm DEEP GRASSSED SWALE WITH 1:5 SIDE SLOPES - HARD LANDSCAPING LAID TO FALL INTO SWALE AND SET 50mm ABOVE SWALE TOP OF BANK LEVEL

SWALE DRAINED INTO SURFACE WATER NETWORK TO SOAKAWAY VIA GULLY

MAXIMUM 1:2 GRADING AS REQUIRED TO TIE INTO EXISTING GROUND LEVELS

ROOF AND EXTERNAL AREA SURFACE WATER FLOWS INFILTRATED INTO UNDERLYING GROUND BASED ON SPECTRUM GEO REPORT TESTING SA01 AND SA02 (0.126 m/hr) - WAVIN AQUACELL NG CELLULAR SOAKAWAY 3m WIDE x 15.6m LONG x 0.8m DEEP - MINIMUM VOID RATIO 95% - TOP 41.320 / BASE 40.520 - PROVIDE SOAKAWAY INSPECTION SHAFT

MACADAM CAR PARKING AISLE LAID TO FALL TO DRAIN SURFACE WATER INTO PERMEABLE PARKING BAY AREAS - SUB BASE FORMED IN TYPE 3 GRADED CLEAN STONE TO CONVEY SURFACE WATER FLOWS INTO SOAKAWAY UNDER AISLE AS NOTES

POTENTIAL EXCEEDANCE FLOWS DRAINED TO NEW GULLY CONNECTED INTO EXISTING GULLY OUTLET (CONVERTED TO NEW CATCHPIT)

DOUBLE/TRIPLE HB2 AS 0.3/0.45m RISE FROM BACK OF NEW/EXISTING FOOTPATH - GRADING BEYOND TO PROPOSED SITE LEVELS

PUBLIC CAR PARK SURFACE WATER FLOWS INFILTRATED INTO UNDERLYING GROUND BASED ON SPECTRUM GEO REPORT TESTING SA03 AND SA04 (0.079 m/hr) - CLEAN GRADED STONE SOAKAWAY 2.25m WIDE x 32.35m LONG x 1.05m DEEP - MINIMUM VOID RATIO 30% - TOP 40.805 / BASE 39.755 - PROVIDE SOAKAWAY INSPECTION SHAFT

POTENTIAL EXCEEDANCE FLOWS DRAINED TO NEW GULLY CONNECTED INTO EXISTING GULLY OUTLET (CONVERTED TO NEW CATCHPIT)

NOTES (CONTINUED)

ALL FIGURED LEVELS ARE RELATED TO LAND SURVEY DATUM AS RCA DRAWING NUMBER JOB NUMBER/01 UNLESS NOTED OTHERWISE.

ALL FIGURED DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.

ALL WORKS SHALL BE IN ACCORDANCE WITH CURRENT RELEVANT SECTIONS OF:

- * SPECIFICATION FOR HIGHWAY WORKS
- * DESIGN MANUAL FOR ROADS AND BRIDGES
- * LOCAL AUTHORITY HIGHWAY ADOPTION REQUIREMENTS
- * LOCAL AUTHORITY SAB APPROVAL AND REQUIREMENTS
- * SEWERS FOR ADOPTION 7th EDITION
- * BUILDING REGULATIONS
- * BRITISH STANDARDS
- * NEW ROADS AND STREET WORKS ACT
- * HEALTH AND SAFETY REGULATIONS
- * GOOD PRACTICE

IT IS KNOWN THAT EXISTING UTILITY COMPANY UNDERGROUND SERVICES AND APPARATUS IS PRESENT WITHIN THE PROPOSED WORKS AREA THE CONTRACTOR SHOULD ALLOW FOR ALL NECESSARY INVESTIGATIVE WORK (CAT DETECTION, TRIAL HOLES, ETC.) TO DETERMINE ROUTE AND DEPTH OF ALL UNDERGROUND SERVICES TO AVOID DAMAGE AND PRESERVE SUPPLIES TO EXISTING DWELLINGS / PREMISES.

ORIGINAL DRAWING A1
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RCA PROJECT REFERENCE No.: 21713

NOTES:

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THE CONTRACTOR IS TO CHECK ALL LEVELS AND DIMENSIONS BEFORE WORK COMMENCES, AND ANY DISCREPANCIES TO BE REPORTED IMMEDIATELY TO THE CONSULTANTS.

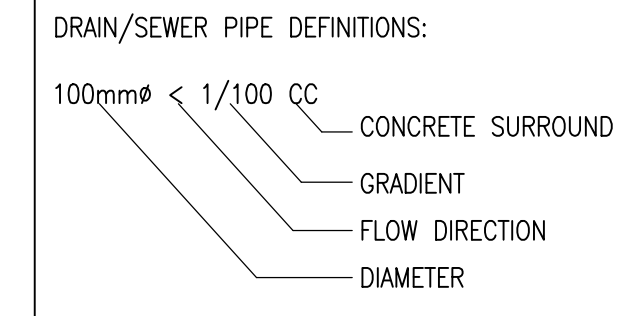
WORK TO FIGURED DIMENSIONS IN PREFERENCE TO SCALING.

THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER ROGER CASEY ASSOCIATES DRAWINGS AND SPECIFICATIONS AND ALL OTHER CONSULTANTS DRAWINGS AND SPECIFICATIONS RELATING TO THIS PROJECT.

THE CONTRACTOR IS EXPECTED TO SUPPLY AND DO EVERYTHING NECESSARY FOR THE PROPER EXECUTION OF THE WORKS THAT MAY BE REASONABLY INFERRED FROM THE DRAWINGS AND SPECIFICATION, WHETHER REFERRED TO IN DETAIL OR NOT, WITHOUT EXTRA PAYMENT IN RESPECT THEREOF.

KEY

- FOUL WATER SEWER
- SURFACE WATER SEWER
- F1 - FOUL WATER INSPECTION / MANHOLE CHAMBER & REF.
- S1 - SURFACE WATER INSPECTION / MANHOLE CHAMBER & REF.
- G - PLASTIC CONCRETE ENCASED ROAD GULLY



REV	DESCRIPTION	DATE	BY	CHECK
C01	CONSTRUCTION ISSUE	29/05/24	PWJL	
P01	FULL SAB APPLICATION ISSUE	23/11/25	PWJL	
REV	DESCRIPTION	DATE	BY	CHECK

A1 - CONSTRUCTION

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PROJECT:

**NEW CHILD CARE UNIT
WAUN WEN, CWMAFAN,
NEATH PORT TALBOT SA12 9TB**

DRAWING TITLE:

ENGINEERING SITE PLAN

DRAWN BY:	DESIGN BY:	CHECKED BY:	DATE:	SCALE:
PWJL	PWJL	RSC	29/06/23	1:100
DRAWING No.:	2455 -RCA-01-ZZ-DR -C- 02			REVISION:
				C01