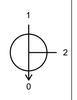
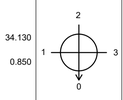
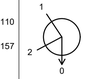
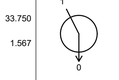
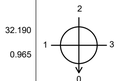
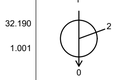
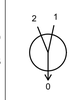
| Manhole Number | Cover Level | | Pipe | | | | Manhole Size | Types | |
|---|---|---|---|---|---|---|---|---|---|
| Coordinates | Depth To Soffit | Connections | | Code | Inverts | Dimensions (mm) | | Manhole | Cover |
| S2.00 | 34.150 |  | 1 | RWP | 32.300 | 150 | | | |
| | | | 2 | RWP | 32.300 | 150 | | | |
| | 1.700 | | | | | | 450 | D | A15 RECESSED |
| E. 384628.547 | | | 0 | | 1.000 | 32.300 | 150 | | |
| N. 399391.096 | | | | | | | | | |
| S2.01 | 34.170 | | 1 | | 1.000 | 32.175 | 150 | | |
| | 1.845 | | | | | | 1200 | B | D400 RECESSED |
| E. 384635.818 | | | 0 | | 1.001 | 32.175 | 150 | | |
| N. 399397.917 | | | | | | | | | |
| S2.02 | 33.760 | | 1 | | 1.001 | 32.009 | 150 | | |
| | | | 2 | RWP | 32.009 | 150 | | | |
| | 1.601 | | | | | | 450 | D | D400 RECESSED |
| E. 384626.734 | | | 0 | | 1.002 | 32.009 | 150 | | |
| N. 399407.623 | | | | | | | | | |
| S2.03 | 33.187 | | 1 | SUMP | 32.187 | 150 | | | |
| | | | 2 | SUMP | 32.187 | 150 | | | |
| | 0.850 | | | | | | 450 | D | B125 RECESSED |
| E. 384604.255 | | | 0 | | 2.000 | 32.187 | 150 | | |
| N. 399425.092 | | | | | | | | | |
| S2.04 | 32.680 | | 1 | | 2.000 | 31.507 | 150 | | |
| | | | 2 | | 1.002 | 31.507 | 150 | | |
| | 1.023 | | | | | | 1200 | E | D400 RECESSED |
| E. 384606.142 | | | 0 | | 1.003 | 31.507 | 150 | | |
| N. 399429.629 | | | | | | | | | |
| S2.05 | 31.630 | | 1 | | 1.003 | 30.431 | 150 | | |
| | 2.855 | | | | | | 1200 | B | D400 RECESSED |
| E. 384595.496 | | | 0 | | 1.004 | 28.550 | 225 | | |
| N. 399449.566 | | | | | | | | | |

| Manhole Number | Cover Level | | Pipe | | | | Manhole Size | Types | |
|---|---|---|---|---|---|---|---|---|---|
| Coordinates | Depth To Soffit | Connections | | Code | Inverts | Dimensions (mm) | | Manhole | Cover |
| S2.06 | 34.130 |  | 1 | PERM | 33.630 | 150 | | | |
| | | | 2 | PERM | 33.630 | 150 | | | |
| | 0.850 | | 2 | PERM | 33.630 | 150 | 600 | CP | B125 RECESSED |
| E. 384607.456 | | | 0 | | 3.000 | 33.130 | 150 | | |
| N. 399377.956 | | | | | | | | | |
| S2.07 | 34.110 |  | 1 | | 3.000 | 32.803 | 150 | | |
| | | | 2 | RWP | 32.803 | 150 | | | |
| | 1.157 | | | | | | 600 | D | B125 RECESSED |
| E. 384598.517 | | | 0 | | 3.001 | 32.803 | 150 | | |
| N. 399387.508 | | | | | | | | | |
| S2.08 | 33.750 | | 1 | | 3.001 | 32.305 | 150 | | |
| | | | 2 | RWP | 32.305 | 150 | | | |
| | 1.295 | | 3 | YG | 32.305 | 150 | 600 | D | B125 RECESSED |
| E. 384597.387 | | | 0 | | 3.002 | 32.230 | 225 | | |
| N. 399394.470 | | | | | | | | | |
| S2.09 | 33.750 |  | 1 | | 3.002 | 31.958 | 225 | | |
| | 1.567 | | | | | | 600 | D | B125 RECESSED |
| E. 384589.955 | | | 0 | | 3.003 | 31.958 | 225 | | |
| N. 399402.407 | | | | | | | | | |
| S2.10 | 32.190 |  | 1 | RWP | 31.075 | 150 | | | |
| | | | 2 | RWP | 31.075 | 150 | | | |
| | 0.965 | | 3 | RWP | 31.075 | 150 | 600 | D | A15 RECESSED |
| E. 384591.681 | | | 0 | | 4.000 | 31.000 | 225 | | |
| N. 399412.496 | | | | | | | | | |
| S2.11 | 32.190 |  | 1 | | 4.000 | 30.964 | 225 | | |
| | | | 2 | RWP | 31.039 | 150 | | | |
| | 1.001 | | | | | | 600 | D | A15 RCESSED |
| E. 384589.804 | | | 0 | | 4.001 | 30.964 | 225 | | |
| N. 399411.400 | | | | | | | | | |

| Manhole Number | Cover Level | | Pipe | | | | Manhole Size | Types | |
|---|---|---|---|---|---|---|---|---|---|
| Coordinates | Depth To Soffit | Connections | | Code | Inverts | Dimensions (mm) | | Manhole | Cover |
| S2.12 | 32.160 |  | 1 | 3.003 | 30.900 | 225 | | | |
| | | | 2 | 4.001 | 30.900 | 225 | | | |
| | 1.035 | | | | | | 600 | D | B125 RECESSED |
| E. 384586.568 | | | 0 | 3.004 | 30.900 | 225 | | | |
| N. 399414.074 | | | | | | | | | |
| S2.13 | 30.820 | | 1 | 3.004 | 29.620 | 225 | | | |
| | | | | | | | | | |
| | 1.550 | | | | | | 1800 | C | B125 RECESSED |
| E. 384571.730 | | | 0 | 3.005 | 28.820 | 450 | | | |
| N. 399441.690 | | | | | | | | | |
| S2.14 | 31.630 | | | | | | | | |
| | | | | | | | | | |
| | 2.934 | | | | | | 1800 | B | B125 RECESSED |
| E. 384602.695 | | | 0 | 5.000 | 28.396 | 300 | | | |
| N. 399458.532 | | | | | | | | | |
| S2.15 | 34.550 | | 1 | 6.002 | 34.420 | 225 | | | |
| | | | | | | | | | |
| | 0.905 | | | | | | 600 | CP | D400 RECESSED |
| E. 384647.251 | | | 0 | 6.003 | 34.420 | 225 | | | |
| N. 399398.840 | | | | | | | | | |
| S2.16 | 34.000 | | 1 | 6.003 | 32.870 | 225 | | | |
| | | | | | | | | | |
| | 0.905 | | | | | | 600 | CP | D400 RECESSED |
| E. 384634.684 | | | 0 | 6.004 | 32.870 | 225 | | | |
| N. 399404.738 | | | | | | | | | |
| S2.17 | 32.700 | | 1 | 6.004 | 31.570 | 225 | | | |
| | | | | | | | | | |
| | 0.905 | | | | | | 600 | CP | D400 RECESSED |
| E. 384609.764 | | | 0 | 6.005 | 31.570 | 225 | | | |
| N. 399430.897 | | | | | | | | | |

| Manhole Number | Cover Level | | Pipe | | | | Manhole Size | Types | |
|---|---|---|---|---|---|---|---|---|---|
| Coordinates | Depth To Soffit | Connections | | Code | Inverts | Dimensions (mm) | | Manhole | Cover |
| S2.18 | 31.470 | | 1 | 3.005 | 29.349 | 450 | | | |
| | | | 2 | 1.004 | 28.349 | 225 | | | |
| | | | 3 | 6.005 | 30.340 | 225 | | | |
| | | | 4 | 8.000 | 28.349 | 450 | | | |
| | 2.896 | | 5 | 5.000 | 28.349 | 450 | 2400 | FLOW CONTROL | D400 RECESSED |
| E. 384596.565 | | | 0 | 1.005 | 28.349 | 225 | | | |
| N. 399455.198 | | | | | | | | | |

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## NOTES

1. ALL DIMENSIONS ARE IN METRES UNLESS STATED OTHERWISE.
2. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL ARCHITECTS, ENGINEERS AND SPECIALIST DRAWINGS AND SPECIFICATIONS.
3. ANY DISCREPANCIES SHOULD BE REPORTED TO THE ENGINEER IMMEDIATELY SO THAT CLARIFICATION CAN BE SOUGHT PRIOR TO THE COMMENCEMENT OF WORK.
4. BEFORE STARTING ANY WORKS, CONTRACTOR TO CHECK INVERT LEVELS AND POSITIONS OF EXISTING DRAINS, SEWERS, INSPECTION CHAMBERS AND MANHOLES AGAINST INFORMATION SHOWN ON THIS DRAWING.
5. ROCKER PIPES ARE TO BE PROVIDED AT ALL CONCRETE CASED INTERFACES.
6. CLASS Z CONCRETE SURROUND TO BE PROVIDED FOR PIPES WITH COVER LESS THAN 1.2m ABOVE THE CROWN OF THE PIPE FOR ROADS AND 0.6m FOR SOFT AND PEDESTRIAN AREAS ONLY AND UNDER ALL FOUNDATIONS AND WHERE PIPES LAID WITHIN 1m OF FOUNDATIONS.
7. CONNECTIONS TO EXISTING PUBLIC SEWERS IN ACCORDANCE WITH UNITED UTILITIES REQUIREMENTS, TO BE APPROVED / AGREED WITH THE WATER AUTHORITY.
8. PROPOSED COVER LEVELS ARE APPROXIMATE AND SHALL BE CHECKED BY THE CONTRACTOR ON SITE TO SUIT THE EXACT FINISHED LEVEL AND GRADIENT.
9. ALL DRAINAGE WORKS SHALL BE CARRIED OUT IN ACCORDANCE WITH THE REQUIREMENTS OF THE LOCAL AUTHORITY AND IN CONJUNCTION WITH ALL RELEVANT BRITISH STANDARDS, CODES OF PRACTICE AND 'SEWERS FOR ADOPTION' 7th EDITION.
10. ACCESS COVERS AND FRAMES SHALL COMPLY WITH THE LOADINGS SPECIFIED AND TO BS EN 124 AND KITEMARKED OR IF RECESSED COVERS ARE SPECIFIED THEN IN ACCORDANCE WITH FACTA ASSOCIATION EQUIVALENT. ALLOW FOR RECESS MANHOLE COVERS TO ACCEPT LANDSCAPE ARCHITECT FINISHES TO ALL NON-ASPHALT EXTERNAL AREAS.
11. FOR SETTING OUT DIMENSIONS OF SS'S, SVP'S, RWP'S, FLOOR GULLY'S & OTHER DRAINAGE 'POP UP' LOCATIONS, REFER TO ARCHITECTS OR MECHANICAL & ELECTRICAL ENGINEERS DRAWINGS.
12. ALL DRAINAGE PIPEWORK SHOWN SHALL BE 100mm DIAMETER FOR FOUL AND 150mm FOR SURFACE WATER UNLESS NOTED OTHERWISE ON THE MEP DRAWINGS. ALL DRAINAGE PIPEWORK SHALL BE LAID SOFFIT TO SOFFIT UNLESS OTHERWISE STATED.
13. ALL UNDERSLAB DRAINAGE SHALL BE LAID AT GRADIENTS OF 1:80 MIN. FOR FOUL PIPEWORK AND 1:100 MIN. FOR SURFACE WATER UNLESS NOTED OTHERWISE. ALL UNDERSLAB DRAINAGE SHALL BE CLEAR OF FOUNDATIONS UNLESS SHOWN OTHERWISE. USE OF SHORT/ LONG RADIUS BENDS IS ACCEPTABLE PROVIDED THEY ARE KEPT TO A MINIMUM AND USED WHERE UNAVOIDABLE.
14. AT LEAST ONE SOIL PIPE AT THE HEAD OF EACH FOUL RUN SHALL BE VENTED TO THE ATMOSPHERE. ALL RAINWATER PIPES SHALL HAVE ABOVE GROUND RODDING ACCESS.
15. ALL PRIVATE DRAINAGE PIPEWORK FOR FOUL AND SURFACE WATER SYSTEMS HAVE BEEN DESIGNED ON THE BASIS OF UPVC TO BS EN 1401-1, UNLESS NOTED OTHERWISE.
16. CONCRETE ENCASEMENT OF THE PIPEWORK SHALL BE REQUIRED WHERE THE VERTICAL CLEARANCE BETWEEN TWO PIPES CROSSING IS LESS THAN 300MM.
17. WHERE NEW DRAINAGE IS SITUATED WITHIN 5 METRES OF NEW OR EXISTING TREES THE PIPEWORK SHALL BE ENCASED IN CONCRETE TO REDUCE THE RISK OF ROOT INGRESS.
18. ALL NEW DRAINAGE INSTALLATIONS TOGETHER WITH ANY EXISTING DRAINAGE RETAINED SHALL BE JETTED AND CCTV SURVEYED UPON COMPLETION. CONTRACTOR TO ENSURE THAT THE DRAINAGE SYSTEM IS FULLY OPERATIONAL, FREE OF EXCESS DEBRIS/SILT AND ALL IDENTIFIED FAULTS RECTIFIED.

| REV. | DATE | DETAILS | DRN. | CHK. |
|---|---|---|---|---|
| P02 | 17.12.24 | COORDINATION | ARJ | PAW |
| P01 | 29.11.24 | FIRST ISSUE | ARJ | PAW |

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W rocconsulting.com

| | | |
|---|---|---|
| DRAWN ARJ | DATE NOV 24 | SCALES NTS |
| CHECKED PAW | DATE NOV 24 | THE ABOVE SCALES APPLY WHEN PLOTTED AT A1 SIZE --DO NOT SCALE-- |
| APPRVD. JAS | DATE NOV 24 | EMAIL FOR DRAWINGS info@rocconsulting.com |

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PROJECT TITLE
REDBANK DEVELOPMENT

DRAWING TITLE
SW DRAINAGE
MANHOLE SCHEDULES

DRAWING No. RDB/ROC/2B/XX/DR/C/83/0506
REV. P02

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