

## Approved details

- Developer Services Detail 1 - Manhole Type 1
- Developer Services Detail 2 - Manhole Type 2
- Developer Services Detail 3 - Manhole Type 4
- Developer Services Detail 4 - SW Shallow Manhole
- Developer Services Detail 5 - Flow Control Manhole
- Developer Services Detail 7 - External Backdrop Detail
- Developer Services Detail 8 - Pipe Bedding Detail
- Developer Services Detail 10 - Variable Manhole Features
- Developer Services Detail 11 - Headwall Type 1 Detail
- Developer Services Detail 12 - Headwall Type 2 and 3 Details

WHERE COVER IS
LOCATED IN FIELD


## NOTES

1. ALL DIMENSIONS ARE IN MILLIMETRES
2. CONCRETE BENCHING AND PIPE SURROUND SHALL BE PLACED IN SINGLE CONTINUOUS
OPERATION FROM TOP OF BASE SLAB TO TOP OPERATION FROM TOP OF BASE SLAB TO TOP OF
BENCHING AND PIPE SURROUND
3. CONNECTION INTO MANHOLES
SHALL BE CONSTRUCTED WITH THE SOFFITS LEVEL UNLESS DETALLED DIFFERENTLY ON
4. METALWORK
LADDERS, HANDRALIING AND SAFETY CHAIN
SHALL BE AS SHOWN
DETAIL 9 (STND/19/009)
DETAIL 9 (STND/19/009) A CONCRETE SURROUND IS NOT NORMALLY
REQURED TO MANHOLES UNLESS INSTALLED IN AREAS OF UNSTABLE GROUND, UNDER
CONDITIONS OF FLOTATION OR WHERE CONDITIONS OF FLOTATION OR WHERE
SUBJECTED TO EXCEPTONAL OR ECCENTRIC LOADS. IN WHICH CASES A 150 SURROUND OF AT LEAST $20 \mathrm{~N} / \mathrm{mm}$ CONCRETE SHALL BE WITH PRECAST CONCRETE JOINTS
5. MINIMUM LENGTH OF CHANNEL (X Min)

| CHAMBER DIA | "X" MIN |
| :---: | :---: |
| 1050 | 800 |
| 1200 | 950 |
| 1350 | 1000 |
| 1500 | 1050 |
| 1800 | 1150 |
| 2100 | 1300 |
| 2400 | 1450 |
| 2700 | 1550 |
| 3000 | 1700 |

MANHOLE TYPE 1 - PIPES NOT
(DEPTH TO BENCHING NOT EXCEEDING 6000)
7. CUT ENDS OF REINFORCED CONCRETE PIPES SHALL BE TREATED WITH EPOXY RESII
PAINTMORTAR
8. MANHOLE ACCESSES FOR MANHOLE ACCESS OPTIONS AND DETALLS SEE DEVELOPER
SERVICES DETAIL AL (STND DOUBLE STEPS SHALL BE PLASTIC ENCAPSULATED CARBON STEEL TO BS EN 1247-2. DOUBLE STEPS SHALL NOT BE USED WHERE
9. COVER AND FRAME

150 DEEP COVERS ARE TO BE USED IN CATEGORY 1, 2, 3 ROADS. 100 DEEP COVERS ARE TRIANGULAR COVERGORY 4 ROADS. DOUBLE CARRIAGEWAY. ROAD CATEGORY TO BE CARRIAGEWAY. ROAD CATEGORY TO BE
DESIGNATED BY THE HIGHWAY AUTHORITY, DESIGNATED BY TEE HIGHWAY AUTHORITY,
FRAME TO BE SET AS PER SPECIFICATION
10. CONCRETE

ALL IN-SITU CONCRETE TO BE DC - 3 OR FND3

| CURRENT ISSUE INFORMATION |  |  |  |  |
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UNTED UTLITES LTD
DEVELOPER SERVICES
Detall 1
MANHOLE TYPE 1

WHERE VF APPEAR (N.f ANOTATION REFER TO VARIABLE FEATURES AS SHOWN ON DEVELOPER SERVICES DETALL 10 (STND/19/010)






| notes |  |  |
| :---: | :---: | :---: |
|  | YERE THE TU NSIDERATIO GIVEN | bling bay is mo HING SPECIAL FOR MAINTENAN |
| 2. | SEWER DIAMETER DIAMETER $(\mathrm{mm})$ <br> (mm) | DROPSHAFT DIAMETER (mm) |
|  | 225-300 | 225 |
|  | 375 | 300 |
|  | 450 | 375 |
|  | 525-600 | 450 |
|  | 675 | 525 |
|  | 750-900 | 600 |

3. THE CONNECTION AT THE BOTTOM OF THE BACK DROP IS TO BE MADE AT SOFFIT LEVEL IN A MANHOLE TYPE 1 AND AT THE
SPRINGING LEVEL IN A MANHOLE TYPE 2
THE VERTICAL RODDING EYE MAY BE REQUIRED IN SITUATIONS WHERE
BLOCKAGES ARE A HIGH RISK, (TYPE B)
5HE TUMBLING BAY SHALL BE BULLTINTO REDUCING SLAB
. ALL INSITU CONCRETE TO BE DC-3 OR FND3 7. 150 mm DEEP COVERS ARE TO BE USED IN CATEGORY 1, 2 AND 3 ROADS, 100 mm DEEP ROADS

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DEVELOPER SERVICES
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