



NOTES

1. ALL DIMENSIONS ARE IN MILLIMETRES AND LEVELS IN METERS UNLESS OTHERWISE SPECIFIED. ALL MEASUREMENTS SHOULD BE VERIFIED ON SITE PRIOR TO WORKS BEING UNDERTAKEN. DO NOT SCALE FROM THIS DRAWING
2. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER RELATED DRAWINGS AND SPECIFICATIONS.
3. THE DRAINAGE CONTRACTOR IS RESPONSIBLE TO MAKING AN APPLICATION TO ANY SEWERAGE UNDERTAKER PRIOR TO CONSTRUCTION OF ANY CONNECTION INTO A PUBLIC MANHOLE.
4. THE ENGINEER IS TO BE NOTIFIED OF ANY DISCREPANCIES TO THE DETAILS SHOWN ON THE DRAINAGE AND ANY UNRECORDED CONNECTIONS NOT SHOWN ON THE DRAWINGS.
5. THE CONTRACTOR IS RESPONSIBLE FOR CHECKING DIMENSIONS AND LEVELS AND FOR CONFORMING TO THE GIVEN LEVELS. THE CONTRACTOR SHALL PROTECT ALL EXISTING WATERCOURSE OR OTHER OUTFALL PRIOR TO CONSTRUCTION WORKS COMMENCING.
6. UNTIL TECHNICAL APPROVAL HAS BEEN OBTAINED FROM THE RELEVANT AUTHORITIES ALL DRAWINGS ISSUED ARE AS PRELIMINARY AND NOT FOR CONSTRUCTION. SHOULD THE CONTRACTOR COMMENCE SITE WORK PRIOR TO APPROVAL, BEING GIVEN, IT IS ENTIRELY AT THEIR OWN RISK.
7. TO PROTECT THE DRAINAGE SYSTEM FROM CONSTRUCTION SITE DERBIES, THE CONTRACTOR SHALL ENSURE THAT STORES AND SECURE ALL ACCESS CONNECTIONS IMMEDIATELY UPSTREAM OF THE TANK ONLY TO BE REMOVED ONCE THE FINAL CLEANING OF THE ROADS/ DRAINAGE HAS BEEN COMPLETED.
8. THE DESIGN IS BASED ON THE INFORMATION AVAILABLE ON THE DATE OF ISSUE FROM OTHER PARTIES (E.G. ARCHITECT AND M&E ENGINEER). IT IS SUBJECT TO CHANGE RESULTING FROM UPDATES TO THE AVAILABLE INFORMATION FROM OTHERS.
9. NEW DRAINAGE AND SEWERS TO BE AS FOLLOWS:
- 9.1. CONSTRUCTION AND MATERIALS OF PRIVATE SURFACE, FOUL & COMBINED WATER SEWERAGE SYSTEMS TO BE IN ACCORDANCE WITH BUILDING REGULATIONS - APPROVED DOCUMENT H & BS EN 752-2017 DRAIN AND SEWER SYSTEMS OUTSIDE BUILDINGS
- 9.2. CONSTRUCTION AND MATERIALS OF PUBLIC SURFACE, FOUL & COMBINED WATER SEWERS TO BE IN ACCORDANCE WITH BUILDING REGULATIONS - APPROVED DOCUMENT H & SEWERAGE SECTOR GUIDANCE APPENDIX C AND IN ACCORDANCE WITH LOCAL SEWERAGE UNDERTAKER
- 9.3.1. MINIMUM PIPE SIZE FOR ADAPTATION SURFACE WATER DRAINAGE IS 150mmDN
- 9.3.2. MINIMUM DN AT MIN 1:100 FOR LEVEL DRAINAGE AND 1:125 FOR SLOPED DRAINAGE
- 9.3.3. MINIMUM DN AT MIN 1:150 FOR GREATER THAN 10 DWELLINGS
- 9.3.4. MINIMUM PIPE SIZE FOR ADAPTATION FOU L WATER DRAINAGE IS 150mmDN
- 9.4. MINIMUM 140 WHERE TO DWELLINGS AND 150mmDN
- 9.4.2. MINIMUM 180 WHERE GREATER THAN 10 DWELLINGS AND AT LEAST 1 WC
- 9.5. ALL ROAD GULLY PIPEWORK SPURS TO BE 150mmdn UNLESS OTHERWISE SPECIFIED
10. LOAD CLASS SLECTION TO COMPLY WITH BS EN 124.
- 10.1. LOAD CLASS A1 - AREAS INACCESSIBLE TO MOTOR VEHICLES
- 10.2. LOAD CLASS B121 - FOOTWAYS, PEDESTRIAN AREAS
- 10.3. LOAD CLASS D250 - GULLY TOPS IN KERBSIDE CHANNELS OF ROADS
- 10.4. LOAD CLASS D400 - CARRIAGEWAYS OF ROADS (HEAVY DUTY)
- 10.5. LOAD CLASS E500 - AREAS INACCESSIBLE TO TRUCKS
- 10.6. LOAD CLASS F900 - AREAS IMPOSING PARTICULARLY HIGH WHEEL LOADS
11. ALL FOU L DRAINS BENEATH BUILDINGS AND FROM SOIL VENT PIPES, GULLIES AND WC CONNECTIONS BE 100mmdn AT A GRADIENT NOT LESS THAN OF 1:40.
12. ALL FOU L CONNECTIONS TO BE FULLY TRAPPED AND EACH FOUL CONNECTION TO A BRANCH DRAIN TO HAVE FULL RODDING ACCESS TO THE MAIN DRAIN WITH A MINIMUM OF 7.5 TONNES.
13. RAINWATER DOWN PIPES ARE TO CONNECT TO A DRAIN VIA A REST BEND.
14. WHERE DRAINAGE IS COMBINED A P TRAP MUST BE PROVIDED ABOVE PROPOSED FLOOR SLAB LEVEL
15. MINIMUM DEPTH OF COVER TO THE CROWN OF GRAVITY PIPES WITHOUT PROTECTION SHOULD BE AS FOLLOWS IN ACCORDANCE WITH DESIGN & CONSTRUCTION GUIDANCE, SEWERAGE SECTOR GUIDANCE APPENDIX D
- 15.1. 350mm - DOMESTIC GARDENS AND PATHWAYS WITHOUT ANY POSSIBILITY OF VEHICULAR ACCESS
- 15.2. 500mm - DOMESTIC DRIVEWAYS, PARKING AREAS AND YARDS WITH HEIGHT RESTRICTIONS TO PREVENT ENTRY BY VEHICLES WITH A GROSS WEIGHT IN EXCESS OF 7.5 TONNES.
- 15.3. 900mm - DOMESTIC DRIVEWAYS, PARKING AREAS AND NARROW STREETS WITH LIMITED ACCESS TO VEHICLES WITH A GROSS WEIGHT IN EXCESS OF 7.5 TONNES.
- 15.4. 900mm - AGRICULTURAL LAND & PUBLIC OPEN SPACE.
- 15.5. 1200mm - HIGHWAYS AND PARKING AREAS WITH UNRESTRICTED ACCESS TO VEHICLES WITH A GROSS WEIGHT IN EXCESS OF 7.5 TONNES.
16. BACKFILL TO DRAINAGE TRENCHES UNDER CARRIAGEWAYS TO BE TYPE 1 SUB-BASE MATERIAL, ELSEWHERE BACKFILL TO BE FREE DRAINING READY AVAILABLE COMPACTABLE MATERIAL FREE FROM BRIBRI, COBBLES AND OTHER UNDESIRABLE LUMPES AND LARGE STONES, TO BE COMPACTED IN LAYERS NOT EXCEEDING 250mm THICK.
17. A FLEXIBLE JOINT SHALL BE PROVIDED AS CLOSE AS IS FEASIBLE TO THE OUTSIDE FACE OF ANY STRAIGHT RUN INTO WHICH THE DRAINAGE IS TO BE CONNECTED. THE JOINT SHOULD BE TO BE SUBSEQUENT MOVEMENTS OF THE JOINT. LENGTH OF THE NEXT PIPE (ROCKER PIPE) IS TO BE IN ACCORDANCE WITH THE TABLE BELOW
- 17.1. 150-600mm - 600mm LONG ROCKER PIPE
- 17.2. 601-750mmDN - 1000mm LONG ROCKER PIPE
- 17.3. 751mmDN AND ABOVE - 1250mm LONG ROCKER PIPE
18. PIPE CROSSOVERS TO HAVE A MINIMUM 300mm VERTICAL CLEARANCE BETWEEN OUTSIDE TOP OF THE LOWER PIPE AND OUTSIDE BOTTOM OF THE UPPER PIPE. WHERE THIS CANNOT BE ACHIEVED A SEPARATION, CONCRETE SURROUND IS TO BE FORMED WHICH WILL EXTEND NOT LESS THE 500mm SIDE OF THE LOWER PIPE. THE CONCRETE SURROUND SHALL BE 150mm OF A FLEXIBLE PIPE JOINT. THE CONCRETE SPECIFICATION SHOULD BE IN ACCORDANCE WITH THE STANDARD DETAILS FOR PIPE BED AND SURROUND AS ISSUED BY THE ENGINEER.
19. ALL MIXES INDICATED IN THE DRAWINGS ARE DESIGNED TO MIXES CONFORMING TO BS 8500-1:2006. ALL CONCRETE TO BE SULPHATE RESISTANT. CONTRACTOR SHOULD ALLOWANCE FOR CARRYING OUT TESTING ON SITE TO CONFIRM SULPHATE LEVEL CLASSIFICATION.
20. ALL MANHOLES AND CHAMBERS TO BE CONSTRUCTED IN ACCORDANCE WITH BUILDING REGULATIONS - APPROVED DOCUMENT H & BS EN 752-2017 DRAIN AND SEWER SYSTEMS OUTSIDE BUILDINGS
21. ALL DRAINAGE AND INSPECTION CHAMBERS TO BE ADOPTED TO BE CONSTRUCTED IN ACCORDANCE WITH "IN ACCORDANCE WITH DESIGN & CONSTRUCTION GUIDANCE, SEWERAGE SECTOR GUIDANCE APPENDIX C" AND IN ACCORDANCE WITH LOCAL SEWERAGE UNDERTAKER
22. ALL OF ALL THE DRAINAGE WORKS TO BE CARRIED OUT ON COMPLETION OF THE BUILDING WORKS AND PASSED ON TO THE CLIENT.
23. ANY EXISTING DRAINAGE INFRASTRUCTURE TO BE RETAINED TO HAVE NEW COVERS AND MANHOLES PUT IN WITHOUT NEW LEVELS.
24. WHERE DRAINAGE RUNS PASS BELOW FOUNDATIONS, PIPES TO BE ENCASED IN MIN 100mm CONCRETE SURROUND AND SURROUND WRAPPED IN 50mm COMPRESSIBLE MATERIAL (TOP & BOTTOM) SLEEVED WITH 100mm CONCRETE SURROUND. ALL DRAINAGE PIPES, FOUNDATIONS ADJACENT TO DRAIN RUN TO BE DEPENDED LOCALLY TO INVERT OF DRAINAGE PIPE TO AVOID SURCHARGE LOADING.
25. WHERE DRAINAGE RUNS PASS ABOVE FOUNDATIONS, PROVIDE 65mm DEEP PRE-STRESSED CONCRETE LIMITLS & g. NAYLOR REF. P100

P02	MAR'24	RJ	SITE PLAN AMENDED LEVELS REVISED	RJ	RJ
P01	FEB'24	RJ	ISSUED FOR COMMENTS	RJ	RJ
REV.	DATE	DRAWN	DESCRIPTION	CHKD	APPRO
STATUS DESCRIPTION				STATUS	

S2



DRAWING TITLE

EXTERNAL WORKS

CLIENT

iLEX PROJECT MANAGEMENT

HBL REF.	10585	DATE	FEB 2024	SCALE(S)	1:250	A1
DRAWN	RJ	CHECKED	RJ	APPROVED	RJ	
DRAWING No.						REV.
10585-HBL-XX-XX-DR-D-0005						P02