

SCALE 1:250

Note: Isometric drawing is for reference only, details may not accurately represent actual design - please see detailed views for technical information

SCALE 1:20

BASIN SECTIONS

SCALE 1:250

300mm MIN. COMPACTED AND SEEDED TOPSOIL TO BE FREE FROM ANGULAR STONES AND FOREIGN MATERIAL/DEBRIS. SOILS WITH A HIGH CALCIUM CONTENT ARE NOT ACCEPTABLE. GRASS SEEDING AS SPECIFIED BY ARCHITECT.

STANDARD POND LINER ANCHORAGE DETAIL

SCALE 1:10

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1. ALL DRAINAGE WORKS SHALL BE CARRIED OUT IN ACCORDANCE WITH THE CURRENT WATER USE AND CONSTRUCTION GUIDANCE FOR FOU, AND SURFACE WATER SEWERS OFFERED FOR ADOPTION AND THE ADOPTING WATER AUTHORITY'S SEWERAGE ACTIVITY REQUIREMENTS AND SPECIFICATIONS.
2. ALL PRIVATE DRAINAGE WORKS SHALL BE CARRIED OUT IN ACCORDANCE WITH CURRENT BUILDING REGULATIONS.
3. CONTRACTOR TO ESTABLISH POSITION SIZE AND DEPTH OF ALL EXISTING SEWERS AND SERVICES PRIOR TO COMMENCEMENT ON SITE.
4. THE CONTRACTOR SHALL ALLOW FOR THE PROTECTION, TEMPORARY AND PERMANENT SUPPORT, AND TEMPORARY AND PERMANENT DIVERSION WORKS, AS NECESSARY TO ALL EXISTING SERVICES.
5. THE CONTRACTOR SHALL ALLOW FOR ALL TRAFFIC MANAGEMENT IN CONNECTION WITH ROAD AND SEWER WORKS.
6. THE CONTRACTOR SHALL ALLOW FOR KEEPING SEWER TRENCHES AND EXISTING SERVICES CLEAR OF OBSTACLES, INCLUDING CURBS, GULLIES, FRAMES AND DRAINAGE COVERS AND DRAINAGE COVERS AND FRAMES TO BE AGREED WITH THE DRAINAGE AUTHORITY.
7. PIPES UP TO AND INCLUDING 300mm TO BE UNPLASTICISED P.V.C. PIPES 375mm TO AND GREATER TO BE CONCRETE CLASS H.
8. ALL PIPEWORK TO BE 100mm DRAINAGE UNLESS NOTED OTHERWISE.
9. IN-SITU AND PRECAST CONCRETE UNITS SHALL HAVE SULPHATE RESISTING PORTLAND CEMENT TO BS 4027, UNLESS AGREED OTHERWISE WITH THE ADOPTING AUTHORITY.
10. PRECAST CONCRETE PRODUCTS SHALL COMPLY WITH THE RELEVANT PROVISIONS OF BS 5911 AND BE KITEMARKED. CONCRETE PIPES TO BE CLASS H UNLESS NOTED OTHERWISE.
11. MANHOLE COVERS AND FRAMES SHALL COMPLY WITH THE RELEVANT PROVISIONS OF BS EN124, HAVE MINIMUM 675 x 675 CLEAR OPENINGS WITH 150 DEEP FRAMES UNLESS NOTED OTHERWISE. ALL COVERS AND FRAMES TO BE OF A NON-ROCKING DESIGN WITHOUT CUSHION INSERTS AND BE KITEMARKED. LOAD CLASS D400 IN VEHICULAR TRAFFICKED AREAS AND LOAD CLASS B125 IN FOOTWAYS AND PEDESTRIAN AREAS.
12. GULLY GRATES AND FRAMES SHALL COMPLY WITH THE RELEVANT PROVISIONS OF BS EN124 AND BE OF A NON-ROCKING DESIGN WITH CAPTIVE HINGE ACCESS AND BE KITEMARKED. LOAD CLASS D400 FOR ROADS REGULARLY CARRYING FAST MOVING HEAVY VEHICLES. CLASS C250 TO BE USED IN LESSER TRAFFICKED AREAS E.G. ESTATE ROADS, CUL-DE-SACS, RESIDENTIAL CAR PARKING AREAS ETC.
13. CLASS 2 bedding DETAIL SHALL BE PROVIDED WHERE COVER TO THE PIPE IS EQUAL TO OR GREATER THAN IN VEHICULAR TRAFFICKED AREAS AND 0.9m ELSEWHERE. TO ALL ROAD GULLY CONNECTIONS AND WITHIN AREAS OF DEEP ROOTING VEGETATION.
14. WHERE CLASS 2 TRENCH BEDDING DETAIL IS USED, THE CONCRETE BED AND SURROUND SHALL BE DISCONTINUED AT EACH PIPE JOINT OVER THE FULL CROSS SECTION BY MEANS OF A SHAPED COMPRESSIBLE FILLER.
15. BACKFILLING AND REINSTATEMENT TO TRENCHES IN PUBLIC HIGHWAYS SHALL BE TYPE 1 GRANULAR MATERIAL IN ACCORDANCE WITH THE REQUIREMENTS AND SPECIFICATIONS OF THE ROAD GULLY AUTHORITY, OR, IN THE ABSENCE OF SUCH, IN ACCORDANCE WITH THE REQUIREMENTS OF "THE STREET WORKS REGULATIONS 1992" AND RELEVANT PROVISIONS OF H.A.U.C. "SPECIFICATION FOR THE REINSTATEMENT OF OPENINGS IN HIGHWAYS" JUNE 1992, BOTH UNDER SECTION 71 OF THE NEW ROADS AND STREET WORKS ACT 1991.
16. ALL ROAD GULLIES ARE TO BE TRAPPED GULLIES. ALL GULLY LEADS TO BE 150mm DIAMETER. ALL ROAD GULLIES & LEADS TO BE CLEARED OF DEBRIS UPON COMPLETION OF WORKS.
17. ALL REDUNDANT EXISTING DRAINAGE TO BE GRUBBED UP OR GROUNDED, ANY EXISTING LINE DRAINAGE SHOULD BE REPORTED TO THE ENGINEER AND RECONNECTED.
18. THE CONTRACTOR MUST ENSURE THAT ANY OF THE EXISTING DRAINAGE WHICH IS IN USE IS KEPT CLEAR OF DEBRIS AND SHOULD ALLOW FOR JETTING THROUGH THE NEW & EXISTING DRAINAGE UPON COMPLETION.
19. CONTRACTOR TO TAKE MEASURES TO PROTECT HIS OPERATIVES WITH RESPECT TO THE PRESENCE OF GAS IN SEWER TRENCHES AND MANHOLES THROUGH THE USE OF GAS MONITORING EQUIPMENT AND BREATHING APPARATUS AS REQUIRED.
20. CONTRACTOR TO APPLY FOR SEWER PERMITS AND ROAD OPENING PERMITS AS NECESSARY FROM THE APPROPRIATE AUTHORITIES, PRIOR TO COMMENCING WORKS.

SUBJECT TO THE APPROVAL OF
ALL RELEVANT AUTHORITIES

P05	S02-S02A AMENDED	19/01/24	MP	-- --
P04	LAYOUT UPDATED, NOTE OF GEOMEMBRANE REMOVED	19/12/23	MP	-- --
P03	NOTES ADDED TO BASIN	24/11/23	MP	-- --
P02	LAYOUT UPDATED	28/09/23	MP	-- --
P01	INITIAL ISSUE	15/09/23	MP	-- --
Rev.	Revision Notes	Date	Drawn By	Checked Approved

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CLIENT

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PROJECT

MILL LANE
WHITBURN

TITLE

PROPOSED ATTENUATION BASIN DETAILS

HYDROCK PROJECT NO. C-29128	SCALE @ A1 1:250	
STATUS DESCRIPTION SUITABLE FOR INFORMATION		STATUS S2
DRAWING NO. 29128-HYD-XX-XX-DR-C-1002		REVISION P05